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A COMPARATIVE STUDY OF THE NURSING PERFORMANCE OF REGISTERED NURSES AWAITING ENTRY TO A POST-R.N. BACCALAUREATE PROGRAM WITH A GROUP OF RECENT GRADUATES

by

Darlene J. Elliott

A THESIS SUBMITTED TO THE FACULTY OF GRADUATE STUDIES AND RESEARCH IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF EDUCATION

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ABSTRACT

The purpose of this study was to identify selected characteristics of registered nurses awaiting entry to a Post-R.N. baccalaureate program in Western Canada and 1981 graduates of the program and to compare their performance of activities in the five nursing dimensions of: leadership, teaching, planning, communications, and professional development.

Data were collected using a questionnaire comprised of two sections: (1) General Information, and (2) the Five Dimensional Scale of Nursing Performance. The questionnaire was subjected to Cronbach's alpha and reliabilities ranged from a low of .85 for the leadership sub-scale to a high of .95 for the teaching subscales. Data from 67 completed questionnaires (36 nurses awaiting entry and 31 graduates) were analyzed.

Data were processed using the Statistical Package for the Social Sciences (Nie et al: 1975). The following analyses were used in this study: factor analysis (oblique rotation), Cronbach's alpha, frequency and percentage distribution, Pearson's correlation, t-tests, ANOVA, step-wise multiple regression and content analysis.

Analysis of the data indicated that the graduates reported significantly improved performance of the activities in all the nursing dimensions. The graduates reported they performed activities in the dimensions of leaderhip, teaching, and planning significantly better than the nurses awaiting entry to the program. Both the nurses awaiting entry to the program and the graduates reported they performed best in the nursing dimensions of IPR/communications and professional development. The graduates reported that they required a degree to function in the

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positions they held since graduation. The graduates had changed their position title from "staff nurse" to "instructor" or "community health nurse." "Mid-range" scorers on registened nursing exams reported significantly better performance than did those scoring "low" or "high". Nurses who completed the degree "to obtain more satisfies that did those who completed the degree "to change their method of more."

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CHAPTER I

STATEMENT OF THE PROBLEM AND ITS SIGNIFICANCE

Introduction

Nurses in Western Canada enter practice after completing one of a number of possible training programs. A student who has successfully completed a three-year hospital-based diploma program, a two-year college diploma program, or a four-year university baccalaureate program is deemed to have the required qualifications for nursing practice. In Western Canada, the baccalaureate may be obtained by completing one of two types of programs: the basic baccalaureate program leading to both a degree and the R.N. diploma, or, the Post-R.N. baccalaureate program.

The Report of the Alberta Task Force on Nursing Education (1975) recommended that by 1990 the minimum educational preparation for professional nursing be the baccalaureate degree. Controversy exists within the profession concerning the suggested requirement of a baccalaureate degree as the minimum educational preparation for professional nursing, although it has recently received national backing by the Canadian Nurses Association. There have been several position papers prepared in the Province of Alberta related to this recommendation. The Alberta Association of Registered Nurses, in a <u>Position</u> <u>Statement on Baccalaureate Education for Nurses</u> (1979), supported the recommendation of the Baccalaureate as the minimum educational preparation for professional nursing in Alberta and Canada. <u>The</u> <u>Summary of Responses to the Report of the Alberta Task Force on Nursing</u> <u>Education</u> (1978) reflected the continuing dilemma surrounding this issue. Among the concerns rated regarding the recommendation arose one most salient question, "Does a better educated nurse necessarily imply nursing care of a higher quality?" (<u>Summary of Responses</u>, 1978:7). Respondents suggested that several matters merited further study before adopting the recommendation. One proposed study was a comparison of work patterns and performance of diploma and degree nurses in Alberta (<u>Summary of Responses</u>, 1978:8). 2

The Department of Advanced Education and Manpower on behalf of the Government of Alberta presented a response in its <u>Position Paper on</u>. <u>Nursing Education: Principles and Issues</u> (1977) and did not support the recommendation making the baccalaureate degree in nursing a mandatory requirement for practice. This response recognized, however, that the baccalaureate was desirable for an increased number of nurses. The <u>Position Paper</u> of the Government (1977) also supported further study and discussion clarifying the scope of nursing practice.

The nursing literature consistently stresses the need for better qualified nurses in positions of leadership, teaching, planning and evaluating. Nurses are responding to this need by enrolling in basic baccalaureate and Post-R.N. baccalaureate programs. The University of Alberta Faculty of Nursing also responded to this need by increasing the quota of placements in the Post-R.N. program from 72 to 144.

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The basic question still remains, "Does a better educated nurse imply nursing care of a higher quality?" The public, the nurses themselves, as well as the educators deserve careful answers to this question. The recommendation from the <u>Task Force</u> (1975:125) supported research with respect to a number of areas, among them, follow-up studies of graduates.

Statement of the Problem

The purpose of this study was to identify selected characteristics of registered nurses awaiting entry to a Post-R.N. baccalaureate program and those who graduated from such a program in 1981 and to compare the performance of activities in five nursing dimensions of the nurses awaiting entry to the program and after graduating from the program.

Analysis of the data was used to answer the following research questions about the two groups.

. What are some selected demographic, academic, basic education, Post-R.N. education, and nurse career behavior characteristics of nurses awaiting entry to the Post-R.N. Baccalaureate program and graduates of the program?

What are the self-reports of nurses awaiting entry to a Post-R.N. program and those who have graduated from the program of how frequently and how well they perform selected nursing activities?

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Are there statistically significant differences in the self-reports of how well they perform selected nursing activities between nurses awaiting entry to a Post-R.N. program and graduates before they entered the program? 3

- 4. Are there statistically significant differences in the self-reports of how well they performed selected nursing activities between nurses awaiting entry to a Post-R.N. program and graduates after completing the program?
- 5. Are there statistically significant differences between the self-reports of how well the graduates of a Post-R.N. program performed selected nursing activities before entering the Post-R.N. program and how well they perform those activities after graduating from the program?
- 6. Are there statistically significant relationships between the selected characteristics and how well nurses awaiting entry to a Post-R.N. program report they perform selected nursing activities?
- 7. Are there statistically significant relationships between the selected characteristics and how well graduates of a Post-R.N. program report they perform selected nursing activities?

Importance of the Study

Follow-up studies on program graduates provide one useful source of performance information. Few Canadian studies have been carried out to determine what, if any, differences exist between the performance of graduates of different types of nursing programs, and more specifically Post-R.N. programs. In addition to shedding light on performance differences, such a study has other merits. The findings may directly assist a faculty in ongoing course revisions and in establishing future policies guiding program administration and planning. Results of the study may also be of interest to the Alberta Association of Registered Nurses, the Canadian Nurses Association, and the Department of Advanced Education and Manpower as they plan programs and develop policies and positions on nursing education.

The University Faculty of Nursing has consistently recognized the value of follow-up studies (Hayes, 1975; Field, 1978) and expressed an interest in supporting this study.

Definition of Terms

<u>Registered Núrse</u>. In Alberta, a Registered Nurse is a graduate from an approved School of Nursing who holds active membership in the Alberta Association of Registered Nurses (Royal Statutes of Alberta, 15, c. 283, 5.5; 1960, c. 89, s. 3; 1966, c. 87, s. 3).

<u>Post-R.N. Program for Registered Nurses</u>. The program is designed to prepare registered nurses for positions in health agencies such as hospitals, voluntary and official health agencies, and schools of nursing. One academic year as a full-time intramural student at the University of Alberta Faculty of Nursing is required and students are granted five years from the time of admission to the program to complete requirements for the degree (University of Alberta, Faculty of Nursing <u>Calendar</u>, 1978/79, Sec. 131.2.2(2)).

<u>Sepcial Students at the University of Alberta</u>. Special students have been permitted to register in one or more courses, but not officially for credit towards a degree or diploma at this or any other institution (University of Alberta, Special Sessions Calendar, 1981-82, Section 26.1 5.3(2)). Hereafter, in this study, a special student refers to a Registered Nurse without a degree who is awaiting entry to the Post-R.N. baccalaureate program and is enrolled as a special student in non-nursing courses at the University of Alberta for the 1981-1982 calendar year.

Demographic. Refers to information about: the age, sex, marital status and number of children of the respondents.

<u>Academic</u>. Refers to information about: the respondent's scores on the graduate nursing (R.N.) and university (G.P.A.) exams.

Basic Education. Refers to information about: the type of program graduated from, year of graduation, and statements about the effectiveness of the program.

<u>Post-R.N. Education</u>. Refers to information about: years required to obtain the degree, required pre-requisite courses, program effectiveness, beliefs about the degree, plans to complete the degree, and expected major outcome of the degree.

<u>Nurse Career Behavior</u>. Refers to information about: the type of employment, years of experience, title of position, necessity of having a degree to do job, and self-reports about the frequency and quality of performance of activities in the five dimensions of nursing. Five Dimensions of Nursing Performance. Refers to the activities of leadership, teaching/collaboration, planning/evaluation, interpersonal relationships, hereafter referred to as IPR/Communication, and professional development as developed and described by Schwirian

(19786:349).

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Delimitations

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<u>Timing of the study</u>. The graduates gained their degrees in April and November of 1981. The period of employment since graduation was therefore variable. Since these graduates worked as registered nurses before entering the program, this factor was not felt to be a biasing factor in this study.

<u>Subjects</u>. Only registered nurses enrolled as special students and registered nurses who graduated from the Post-R.N. program in 1981 at the University of Alberta were included in this study.

Limitations

<u>Sample</u>. The study investigated only subjects from selected programs, i.e., special studies and one Post-R.N. baccalaureate program. The findings may not be generalizable to students from other types of programs or to other nurses awaiting entry to a Post-R.N. program. <u>Variables</u>. The study investigated selected subject characteristics and nursing performance behaviors. The findings may not be generalftable to all nursing characteristics or behaviors, nor can the study be viewed as a comprehensive follow-up of the 1981 Post-R.N. baccalaureate graduate.

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- 3. <u>The comparison group</u>. Nurses enrolled as special students at the same University were considered to be the comparison group. This group could not be considered as homogeneous as a group of nurses who had entered the first week of the Post-R.N. baccalaureate program. However, they were considered to be more homogeneous than the general population of nurses in the province who did not have a baccalaureate degree and more appropriate than a group of nurses who at the time of the study had been enrolled for seven months in the first year of the program.
- 4. <u>Instrumentation</u>. A survey questionnaire was used to collect data⁷ about selected characteristics and self-reports of nursing performance. Data validity was limited by the responses to the guestionnaire items.

Organization of the Thesis

This chapter included an introductory description of the area of research. The six problems were identified. The importance of the

study was discussed, followed by an outline of the delimitations and limitations.

A review of literature relevant to this study is presented in Chapter II. Chapter III follows, in which the methodologies and procedures are described, including a theoretical approach, the study design, instrument development, sampling techniques, and data collection and analysis procedures.

Chapter IV is comprised of the data analysis and resultant findings.

Finally, in Chapter V the conclusions and recommendations of the study are presented.

CHAPTER II

REVIEW OF RELATED LITERATURE AND RESEARCH

This review of the literature is divided into the following sections. In the first, evaluation is examined from a definitive standpoint; in the second, the dilemma surrounding evaluation and research is explored. In the third section the various methodologies of educational evaluation are reviewed. Current trends in nursing program evaluation are presented, and finally nursing education program evaluation studies are reviewed.

Introduction

Torres (1974), as reported by Hayter (1978:384), stated her belief in the need for curriculum evaluation in nursing when she said, "We will never move ahead in nursing education until we learn to evaluate before we change what we are doing." In a discussion of nursing programs and cost accountability, Hayter (1978) felt that citizens would be justified in expecting evidence that tax dollars allocated to nursing education produced tangible benefits. The Joint Committee on Standards for Educational Evaluation (1981:5) explained the rationale for their study with this thought:

The Joint Committee was guided by the assumption that evaluation is an inevitable part of any human undertaking and by the belief that sound evaluation can promote the understanding and improvements of education while faulty evaluation can impair it. These writers expressed their beliefs on the need to carry out evaluation activities. What, then, is evaluation?

Evaluation Defined

Webster's Dictionary (1978) defines evaluation as an estimate of worth. Tyler (1949:105), whose work became an early milestone in evaluation, wrote:

Evaluation becomes a process for finding out how far the learning experiences as developed and organized are actually producing the desired results and the process of evaluation will involve identifying the strengths and weaknesses of the plan.

Cronbach (1963) as reported by Worthen and Sanders (1973:44) broadly defined evaluation as "The collection and use of information to make decisions about an educational program." He proposed that the main objective for evaluation was to uncover durable relationships---those appropriate for guiding future educational programs. Scriven (1967), in his paper, "The Methodology of Evaluation", discussed evaluation in terms of roles and goals. He claimed that the main functional goal of evaluation was to determine the worth or merit of something. Stake (1967) suggested that evaluation involved the acts of description and judgement which resulted in generalizations about educational practices. Stufflebeam (1971), envisioned evaluation as a process of delineating, obtaining, and providing useful information for arriving at decision alternatives. According to Provus (1969) as reported by Worthen and Sanders (1973:172), the purpose of evaluation was "To determine whether to improve, maintain, or terminate a program." He went on to explain:

Evaluation is the process of (a) agreeing upon program standards, (b) determining whether a discrepancy exists between some aspect of the program and the standards governing that aspect of the program, and (c) using discrepancy information to identify the weaknesses of the program.

The Joint Committee on Standards for Educational Evaluation (1981:12) defined evaluation as "the systematic investigation of the worth or merit of some object."

Worthen and Sanders (1973), McNeil (in Bellack:1977) and MacKay and Maquire (1971) offered extensive reviews of the state of the art of evaluation and reached no one definition or approach. It becomes abundantly evident that a universal definition of evaluation does not exist.

It is not the purpose of this study to solve the definitional dilemma surrounding evaluation. For the purpose of this study, the definition of evaluation is "a process for finding out to what extent the curriculum as developed and organized is producing the desired results" (Field 1978:3).

Evaluation and Research

If the first dilemma surrounding evaluation is definition, the second is the debate on whether evaluation is research. Luker (1981) drew heavily on the work of Suchman (1967) when she discussed

evaluation research in nursing. She referred to Suchman's distinction between evaluation and evaluation research:

Evaluation...refers to the everyday occurrence of making judgements of worth.... When used this way, it refers only to the process of assessment or appraisal of worth. Evaluation research...implies the utilization of scientific methods and techniques for the purpose of making an evaluation....it refers to those procedures for collecting and analysing data which increases the possibility for proving rather than asserting the worth of some social activities. (Luker, 1981:87)

Luker (1981:87) continued, "Evaluation research may be described as applied research where the major aim is not the generation of new knowledge but the study of the application of existing knowledge." Allen, (1969) in her discussion of evaluative research in nursing education, claimed that evaluative research represented an attempt to utilize the scientific method to assess the worth of an activity in reaching particular objectives.

Worthen and Sanders (1973:14) when discussing evaluation and research, stated, "Both use systematic inquiry techniques, although for different purposes - research to produce new knowledge and evaluation to judge worth or social utility." They concluded that the commonalities between research and evaluation made it difficult to classify some activities unequivocably as being in either category. They listed twelve characteristics of inquiry which distinguished basic research from outcome evaluation:

 Motivation of the researcher. Research satisfies curiosity; evaluation contributes to a practical problem solution.

- 2. Objective of the search. Research seeks conclusions; evaluation leads to decisions.
- 3. Laws vs. descriptions. Research is a statement of the relationship among two or more variables; evaluation describes a particular thing with respect to one or more scales of values.

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- 4. Role of explanation. Scientific explanation requires scientific laws and the disciplines related to education appear to be far from discovery of the general laws on which explanations of incident of school will be based.
- 5. Autonomy of the inquiry. Evaluation is undertaken on the behest of a client, but the researcher sets his own problems.
- 6. Properties of the phenomena which are assessed. Educational evaluation is an attempt to assess the worth of a thing; educational research is an attempt to assess scientific truth.
- 7. Generalizability of the phenomena studied. Evaluation looks at time-linked, geography-linked, and specific instance-linked phenomena; the concepts of educational research should be relatively permanent.
- 8. Salience of the value question. The difference here between research and evaluation is one of degree, not of kind.
- 9. Investigative techniques. Researchers and evaluators both must include skills development in general educational research methodology.
- 10. Criteria for judging the activity. Internal and external validity are the two most important criteria for judging the adequacy of research; isomorphism and credibility are the criteria of adequate evaluation.
- 11. Disciplinary base. The evaluator needs to employ a wider range of inquiry perspective and techniques than the researcher to deal with questions that do not have predestined answers.
- 12. Training. The best training for the educational researcher may be a thorough mastery of a traditional social science discipline. The training

of evaluators involves sampling several disciplines. (Worthen and Sanders, 1973:27-28).

Those involved in educational evaluation would not reach agreement regarding the above twelve characteristics. However, these do present a useful schema to examine evaluation. McNeil's extensive bibliographical essay in Bellack (1977:638) alluded to the same problem:

While the term evaluation appears most commonly in educational literature as 'elaborating bureaucratic structures for comparing the measured effectiveness of experimental programs,' just what evaluation research is and what direction it should take are hotly disputed.

One alternative approach to this dilemma surrounding evaluation was that taken by the Joint Committee on Standards for Educational Evaluation (1981). The committee defined standards as, "Principles commonly agreed to by people engaged in the professional practice of evaluation for the measurement of the value or the quality of an evaluation" (The Joint Committee, 1981:12). The Joint Committee (1981) saw the crucial objective in developing the standards as ensuring that evaluations would be conducted effectively, fairly, and efficiently. They saw the benefits from developing the standards as the development of:

...a common language to facilitate communication and collaboration in evaluation; a set of general rules for dealing with a variety of specific evaluation problems; a conceptual framework by which to study the often-confusing world of evaluation; a set of working definitions to guide research and development on the evaluation process; a public statement of the state of the art in educational evaluation; a basis of self-regulation and accountability by professional evaluators; and an aid to developing public credibility 15 '

for the educational evaluation field. (Joint Committee, 1981:6).

No attempt was made to prove that this study was or was not research. Rather, the investigator was cognizant of the broad ideals towards which the Standards for Evaluations of Educational Programs developed by the Joint Committee were aimed.

Methodologies of Evaluation

When examining a large body of information related to a specific field, it may be useful to group the information into categories; such is the case with evaluation.

Worthen and Sanders (1973) grouped evaluation information according to similarities and differences in the evaluation strategies proposed. The first grouping called judgmental strategies required the evaluator to play a judgmental role. The work of Cronbach (1963), Scriven (1967), and Stake (1967) fell into this grouping. The second grouping was labelled as the decision-management approach to evaluation. The plans proposed by Stufflebeam (1971) and Alkin (in Worthen and Sanders, 1973:150) were included here. The third grouping was categorized as decision-objective plans and included the approaches of Tyler (1949) and Provus (1969).

MacKay and Maquire (1971) reviewed the various models in a chronological fashion. Tyler's model was reviewed in terms of merits and difficulties. Tyler (1949:106) commented: evaluation is the process of determining to what extent the educational objectives are actually being realized by the program of curriculum and instruction...evaluation is the process for determining the degree to which these changes in behavior are actually taking place.

MacKay and Maquire (1971) suggested that the Tyler model provided reliable, valid, and objective data to evaluate. The problems which arose were: tedious procedures, restriction to stated objectives, and avoiding questions of worth of the objectives. Comparative techniques in evaluation, such as the work of Campbell and Stanley (1963) were examined. The problem here was one of stringent validity. McNeil (1977:639) explored the same problem suggesting, "Such research is most directly linked with policy and so should be the most closely scrutinized, yet the scrutiny often aims at the techniques of. evaluation rather than the assumptions behind them." In 1963 Cronbach raised questions which influenced the future course of evaluation. Evaluation should answer questions of both what the effects of curriculum were and how the effects were achieved. A variety of instruments would be required to achieve this.

MacKay and Maquire (1971) cited Scriven as the man who synthesized evaluation output of the sixties. Scriven (1967) differentiated between the roles and the goals of evaluation. The roles might vary, but the goal was to estimate worth. He also clarified the distinction between formative and summative evaluation. Scriven attempted to take a more global approach to evaluation, but was criticized for not providing the "nuts-and-bolts" kinds of answers which the practicing evaluator required. 17
Many of the authors attempted to provide specific models to meet specific evaluator needs. The work of three of those authors, Stake, Stufflebeam and Provus will now be reviewed.

Stake's (1967) approach attempted to attend to the "whys" of evaluation outcomes. This was accomplished by dividing evaluation data into two dimensions. One dimensions divided data into descriptions and judgments. The second dimension classified data as antecedent, transaction, or outcome. The evaluator then determined the degree of relationship and agreement among the various classes of data. This model was criticized for its vagueness. While possible relationships stood more chance of being noticed they also might not be thoroughly investigated.

Stufflebeam (1971) developed a model based on decision-making. This model was also described as an administration model. It was called the CIPP model after the four stages: Context, Input, Process and Product Evaluation. Context Evaluation identified and assessed needs and the problems underlying the needs, clarifying the setting and the goals. Input Evaluation assessed system capabilities, input strategies, and designs for implementing the strategies. This input stage was useful for selecting sources of support, kinds of strategies to be used for problem solution, and procedural design. Process Evaluation identified and predicted defects in the design or implementation. This process stage was useful for implementing and refining the program. Product Evaluation related outcomes to objectives, context, input and process information. This product stage was necessary to decide whether to continue, modify or discontinue the comprogram.

The final model reviewed was the systems model of Provus (1969). He described four stages of evaluation which corresponded to the stages of program development: Definition. Installation, Process and Product. Three major content categories were simultaneously examined: Inputs, Processes, and Outcomes.. Some similarities existed between the models of Provus and Stake.

This review of evaluation methodologies was necessary for one to understand evaluation of nursing education programs. A review such as this also served another important purpose, it pointed out the danger and the restrictions imposed by labelling the works of the pioneers in educational evaluation. Many of the models included both process and product evaluation. Systems theory was attended to by a number of the models. The very nature of evaluation assumed that discrepancy between what was expected and what was actual would be examined. A number of the models could be viewed as formative or summative depending on the stage of evaluation with which one was dealing. MacKay and Maquire (1971:16) referred to the same problem, "To some extent the same interrelationships exist among all models of evaluation." Rather than focus on the lack of agreement among the models, it would be advantageous to look for the strengths within the models.

This study was not based on a specific evaluation model. The focus was primarily on product evaluation. It was summative, but the results could be useful for curriculum revision. It examined program objectives. It focused on outcomes. It involved comparing

characteristics and performance of a group before entering a program and after graduating from a program. It was hoped that this rather eclectic approach proved to be a strength of the study.

Current Trends in Evaluation of Nursing Programs

The idea of evaluating health care services and programs was not new. Florence Nightingale collected data regarding living accommodations of patients to persuade the Hospital Board of Governors where to locate a new hospital. Luker (1981:89) alluded to the need for evaluation of services:

The greater emphasis now placed on health care services stems from the escalating costs...doctors and nurses alike are forced to look for verifiable facts to assist them in establishing a convincing case worthy of continued or additional financial support...answers to urgent questions concerning the prediction of outcome in health service policy decisions cannot be left exclusively to the economist.

These concerns could also be applied to nursing education. Among the purposes of any education program is the need to assess whether the program objectives have been achieved. Keeler (1972:316) reflected these concerns as they related specifically to nursing programs:

We now recognize the need for more objective and better ways to determine whether our programs are achieving the goals that we set for them...we are being challenged to produce evidence of the effectiveness and the efficiency of our services...we must show what difference it made...and whether the services provided were of high quality, achieved the goals of the service program, and were related to identifiable needs. Williams (1975:172) recognized the need for evaluation of programs which prepared nurses to assume expanded roles:

With the advent of formal educational programs to prepare nurses for various types of expanded roles has come the need to evluate the contribution that graduates of these programs are making to health care delivery. An equally important need is to assess the varied factors that are associated with their performance.

One concludes very quickly that program evaluation is necessary. Having decided to do a program evaluation, one asks a number of questions.

"What is involved in evaluating a program?" Luker (1981:89) referred to the six steps of evaluation listed by Suchman (1967) as: identification of goals to be evaluated, analysis of the problem with which the activity must cope, description and standardization of the activity, measurement of the degree of change which takes place, determination of whether the observed change is due to the activity or some other cause, and some indication of the durability of effects.

"How is program evaluation accomplished?" Keeler (1972) suggested that program evaluation required a background of sound program planning. She envisioned planning as as circular motion with evaluation as a part. She based evaluation on the presently established purposes, objectives, activities and resources of the program.

Block (1975), Zettinig and Lang (1981), Meleis and Benner (1975), and Luker (1981) all recognized the need for evaluation to be concerned with more than just objectives. This move to a more encompassing view of evaluation was similar to that which happened in educational evaluation. Evaluation models of Scriven, Stake, Stufflebeam and Provus recognized many more dimensions than did the earlier objective-focused model of Tyler. Luker (1981) reviewed the work of Derryberry, Lindeman, and Donabedian when she discussed evaluation of nursing care. Her discussion was also applicable to evaluation of nursing education programs. Luker (1981) referred to Derryberry's evaluation of nursing care in terms of the changing stage of the patient, or outcome evaluation. This same concept could be applied to examine the changing state of the nursing student. However, Luker (1981:91) pointed out, "Care should be evaluated using means other than volume and intensity of service." She made reference to Lindeman's three major components of the nursing care system: the setting in which the care is rendered, the actual care given, and the patient outcome. Again, reference could be made to nursing programs by substituting "student treatment" for "care", and "student" for "patient". Luker (1981) concluded her review of nursing care evaluation by discussing Donabedian's three approaches to evaluation, namely: structure, process and outcome. Structure evaluation involved the study of factors in the organizational system. Process evaluation involved the appraisal of care given to patients. Outcome evaluation referred to the end result of the care. Luker (1981:92) summarized "It is incumbent upon the evaluator to decide whether to use structure, process or outcome goals or a combination of two or more."

Block (1975:262) also examined Donabedian's framework for evaluating patient care when she discussed issues in research and quality assurance. She made a number of recommendations:

Nurses, physicians, and other health care providers should develop patient care outcome criteria along with methods for measuring such outcomes. 23

Nursing should continue to develop its set of nursing care-specific outcome criteria on the pasis of nursing problems.

3. Nursing should establish a national clearinghouse for nursing practice evaluation.

 The clearinghouse should establish a list of competent consultants.

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5. Quality control programs should work toward process-outcome evaluation.

These statements referred to nursing care but are equally applicable to nursing education programs.

Zettinig and Lang (1981) examined evaluation of education programs, specifically course evaluation. The framework used was also that of Donabedian with the triple focus: structure, process and outcome. They concluded that there was a need to develop more evaluation instruments based on a structure-process-outcome model. Process evaluation could be undertaken during the course of a program and served as a basis for prompt and necessary changes. Product evaluation, or the measurement of outcomes, measured the end result of an experiment or project.

Table 2.1 differentiates the conditions under which process and product evaluation would be recommended.

After extensively reviewing the above literature, the investigator was aware of the advantages of a structure-process-outcome framework for evaluation of educational activities. However, this Conditions under which to use process or product evaluation

Process evaluation is recommended when:

- a short-term project is being evaluated.
- the evaluation is conducted during the developmental stages of any innovation.
 - qualitative and quantitative information is needed to guide decision making in implementing an ongoing project.
 - post-evaluation recommended changes could be further implemented and tested in an ongoing process.
 - unobtrusive measures are warranted for faculty and student acceptance
 - students' desires to select certain faculty and educators' desires to select a teachinglearning modality that is amenable to continuous changes are given priority over fixed teacher and student assignments.

Product evaluation is recommended when:

- it is essential to compare outcomes of different programs.
- the program is sufficiently developed to warrant testing.
- the variables are well delineated and it is feasible to control for extraneous variables and unforseen changes while the data evaluation is being conducted.

the question of whether or not a program should be continued __ is being considered.

Source: Meleis and Benner, 1975:303.

study did not involve such a framework for a number of reasons. Such studies frequently required a team approach, an extensive period of time for completion and significant resources. This investigator had none of the above. The study investigated whether a group of graduates reported an improvement in their performance of nursing activities after completing a post-R.N. baccalaureate program. A follow-up study which focused on outcomes seemed to be an appropriate method of investigation. The focus of the study was on the products (graduates) of a program. Process evaluation would more appropriately have examined students while in the program. The reality of the timing of this study was not conducive to a process evaluation. The process framework might be better suited to a follow-through rather than a follow-up study.

Having stated why the investigator chose to do a follow-up study, this review of literature will now focus on a number of nursing education program evaluation studies. Role of the evaluator, procedures utilized, measurement instruments, and findings of the studies will be presented.

Evaluation Studies of Nursing Education Programs

Role of the Evaluator

Scriven (1967) when discussing the distinction between formative and summative evaluation suggested implications for the personnel involved in the evaluation. The formative evaluator may need to work closely with the curriculum committee. The summative evaluator may need to be free of conflict of interest for his evaluation to have integrity. Stake (1967) saw the specialist in evaluation as a "describer," one who described, aptitudes and environments, and accomplishments. He was the one who made judgments. In Worthen and Sanders (1973:325), Gooler and Grotelueschen suggested that an evaluator should make decisions based on the results of his evaluation study and should bring his final report, including judgments and recommendations, to the administrator. These authors recognized the importance of the evaluator making judgments and presenting recommendations to the administrative body.

The authors of evaluation literature, however, were also cognizant of the need for ethical behaviour and some form of Standards of Practice. Sheinfeld and Lord (1981) found in their study of the ethics of evaluation researchers that the protection of human rights were critical evaluator issues, regardless of the evaluator's role in the organization. Concerns such as these were recognized in the attempt by the Joint Committee to develop Standards for Educational Evaluation (1981).

In the present study the investigator assumed a unique role. She was a student and had an extensive background in nursing, teaching of nursing students at all levels, curriculum content development, directing an innovative curriculum development project, and advanced studies in curriculum, evaluation, and research. She had no previous connection with the program being studied. For these reasons, the investigator assumed the role of an external evaluator. She stated conclusions, implications and recommendations based on the findings of

the study. She was aware of the ethical considerations during the study. She communicated the findings to those who administrated the program, but she was in no position to exert influence regarding actions taken on the recommendations.

Procedures Utilized

Linn (1975) conducted a longitudinal study on expectations vs. realization in the nurse practitioner role. All eleven students who took part in the program were studied. They were asked to evaluate their jobs before, during, and after their training and preceptorship. No other comparison group was used.

This population was small. The credibility of the results was reinforced by the fact that the study was longitudinal. Treece and Treece (1973:84) listed the advantages of the longitudinal approach:

the datum is more accurate since the subject does not have to reply by recall.

each individual is followed separately, and it is possible to observe and interpret any variations near the time they occur.

- the observer will be able to make more objective observations about a given event than the subject who simply makes a subjective recall.
- the research can pursue in depth a particular point of interest
- early apparent trends can be investigated in depth at forthcoming data collection points.

Generalizations in the Linn study were limited by the small numbers and the geographical limitation. The present study used a different approach. A larger total population of graduates and a comparison group was studied. A longitudinal study was not carried out due in part to the limited time frame of the study, and to the limited financial resources.

Goldstein (1980) compared characteristics of associate degree and baccalaureate nursing students. Ten baccalaureate and ten associate degree nursing programs, which were accredited by the NLN in the State of Illinois, were contacted for permission to administer instruments to their students. Five from each type of program cooperated. The participants totalled 204 baccalaureate students and 159 associate degree students, with participation rates in the programs ranging from a low of 14% to a high of over 35%. Goldstein's study was more rigorous than Linn's because of the use of larger numbers, a larger geographical spread, and a comparison group. One questions the 50% cooperation rate of the contacted programs, and the low student particiption rate. The sampling procedure in Goldstein's study was not used by this investigator, as there was only one class of graduates from the program being studied.

Hayter (1978, 1971, 1963) conducted three follow-up studies on graduates of baccalaureate and Master's nursing programs and explained (1978:381):

Recent graduates are in a singularly appropriate position to evaluate their educational program. Somewhat removed from the educational setting, faced with meeting new job expectations, they can comment realistically about the adequacy of their education. ...a follow-up study can provide data about the nature of the graduates' work and other post-graduation professional activities...and whether those responsibilities are the ones for which their education was intended to prepare them.

Hayter's three studies utilized the same instrument, and compared graduate responses with employers' responses. In each study graduates from the program being studied constituted the population. The response rate for graduates varied from a low of 86% to a high of 96%. The population of graduates varied in size from 72 to 182. The response rate for employers varied from 90.5% to 94%. The population of employers varied from 67 to 168. Hayter employed stringent data collection techniques which resulted in these high response rates. She mailed two questionnaires to the graduates - one for the graduate and one for her employer, a letter to each and consent forms for both respondents, a release of information form for the graduate and employer, and a self-addressed, stamped envelope for return of questionnaires. In one study, preliminary contact was made with parents of graduates to confirm addresses. Follow-up letters were mailed to non-respondents after three weeks. Bergman (1973) utilized Hayter's study framework to evaluate the Tel-Aviv University post-basic baccalaureate nursing program. The response rate was similar. Hayter's rigorous procedures produced high response rates. Generalizations were limited due to geography.

Hayter's procedures were useful in the present study. Graduates of the program formed one group while the comparison group consisted of nurses awaiting entry to the post-R.N. program. This choice of a comparison group was partially based on a limitation in two of Hayter's studies. Hayter reported a number of employer "no responses" pertaining to graduates' preparation for specific functions. Hayter (1978:383) explained this, "While the graduates could say whether they

felt adequately prepared for a function they had not been asked to carry out since graduation, employers could not be expected to do likewise." It is interesting to note that Bergman (1973), while generally following Hayter's model, also did not use employers as a comparison group but rather a retrospective self-report of students' performance.

Schwirian (1978b) described the development of the Six-Dimension Scale of Nursing Performance. The sample of graduates were selected using a two-stage approach. In the first stage, 1,440 basic schools of nursing in the United States were stratified according to school type, geographic region, and source of financial support. They were then placed in a 24 cell matrix, and each cell was randomly sampled to give a 10% sample of schools. The director of each school was asked to participate in the study. Those who agreed were sent a questionnaire to furnish information about graduates. The final school sample size was 151. In the second stage, the directors of the schools provided information which resulted in three groups of graduates who were designated as: most promising, promising, and non-selected. Nine hundred and fourteen graduates (30.4 percent) formed the final sample by responding to questionnaires.

Schwirian also used supervisors' responses in her study. The graduates were requested to furnish the name of the person most able to evaluate them and the name of the director of nursing of her place of employment. Seven hundred and twenty-two graduates furnished names. Questionnaires were sent to the directors of nursing requesting they pass the questionnaire to the designated immediate supervisor. Five

hundred and eighty-seven supervisors (89 percent) returned questionnaires, forming the final supervisor sample.

Schwirian's mammoth undertaking was admirable and appropriate when the population was large. A study of this magnitude requires a team approach. Stringent sampling techniques must be utilized and the ultimate sample size will be large. In Schwirian's study, supervisors formed the comparison group.

The present study utilized the total population of program graduates and a random sample of nurses awaiting entry to the post-R.N. program.

Measuring Instruments

Brian (1980) surveyed graduates of six programs included in the National Second Step project. Brian's instrument obtained the kind of information about graduates in which the present study was interested. The survey scales focused on a description of the graduates' current activities and expectations for the future, their interests and participation in professional activities related to nursing, and a retrospective evaluation of the program. Reliabilities of the scales were provided. Detailed information on the development of the scale was not included.

Hayter (1971) designed a rating scale to measure graduates' and employers' opinions about graduates' preparation for specific nursing behaviors. This instrument was based on the philosophy and objectives of the program from which the graduates had come. Reliabilities and validities were not reported. The instrument was appropriate to the reported study as it was designed specifically for the program but could only be used in another program if the objectives were similar. The present study was also interested in using an instrument which corresponded to the philosophy and objectives of the program from which the graduates being studied had graduated.

Nelson (1978) designed the Nurse Competency Inventory which consisted of 35 competency statements categorized into technical, communicative, and administrative skills. These statements were the result of investigator experience, review of the literature, and review by representatives of the nine schools taking part in the study. The nine schools represented the three types of nursing programs: baccalaureate, associate degree, and diploma. The final list of competency statements included only those functions common to all nine schools. Reliabilities and validities were not reported. The instrument might have been appropriate for use by this investigator. One advantage was the generalizability of the instrument as it was approved for use by nine schools of nursing. However, it was somewhat limited in the competency areas it covered.

Schwirian (1978b) developed the Six-Dimension Scale of Nursing Performance (Six-D Scale). When discussing the uses of the scale, she explained that the scale was: applicable to nursing performance in a variety of practice settings; consistent with nursing process model of good nursing practice; applicable to the practice of nurses who had completed their basic nursing education within the past one or two years; usable not only by nurses to appraise their own performance, but also by their immediate superiors; composed of items stated in

terms of observable nurse behaviors; and composed of items that could be read and interpreted consistently without additional explanation or expansion.

Schwirian (1978b) also discussed how the scale was developed. An extensive literature review was undertaken to examine constructs, concepts and measuring instruments. Other investigators and educators were requested to share their materials and instruments. Representatives of the diploma and degree program provided, for examination, operational definitions of "effective nursing performance" and a "successful nurse." Collegues, consultants, and pilot respondents reviewed the scale and provided recommendations for improvement. As a result of this extensive developmental phase, the scale was perceived not to be biased either for or against any of the three types of nursing program graduates.

The final result of the arduous undertaking was a 52-item scale which incorporated six subscales of the following behaviors: interpersonal relations/communications, leadership, critical care, teaching/collaboration, planning/evaluation, and professional development. The reported reliabilities ranged from a low of .84 for the leadership subscale to .98 for the professional development subscale. Factor analysis was carried out to test for construct validity (see Chapter III).

This instrument had potential use for this investigator. It was developed to be useful in a variety of situations. It could be used on various types of nursing students. The subscales covered the

dimensions of nursing performance that this investigator wished to study.

Research on Nursing Education Programs and Nursing Performance

Few studies have been carried out to investigate the nursing performance of post-R.N. graduates before entering the program and after graduating from the program.

This investigator reviewed studies on nursing programs, nursing performance, and comparison of student characteristics in an attempt to find trends indicating that further education did enhance the perceived quality of the performance of activities in the various dimensions of nursing, i.e. leadership, teaching, planning, communication and professional development. Reports of studies by Allen (1969); Hayter (1963, 1971, 1978); Bergman (1973); Keller (1972); Linn (1975); Williams (1975); Williams, Block and Blair (1978); Meleis and Benner (1975); Zettinig and Lang (1981); Corwin and Taves (1962); Nelson (1978); Schwiriam (1978); and Goldstein (1980) indicated that generally there was a relationship between education and performance.

In 1979, Dennis and Janken published a paper reviewing the practice patterns of nurses educated in diploma, baccalaureate, and associate degree programs. The key findings (1979:37) of that extensive review, comparing the diploma and baccalaureate graduate, were reported as follows:

Baccalaureate nurses tend to out perform diploma and associate degree nurses in activities requiring leadership, psychosocial patient supports and problem-solving. After the initial period of orientation to practice, the clinical skills of baccalaureate nurses equal those of the technically trained nurses. In terms of coordinative ability, innovation, initiative, breadth of knowledge, professional role orientation, follow-up of activities, quantity and quality of care produced, ability and skill in applying knowledge to problems, and critical thinking, there is some evidence that baccalaureate nurses are superior to diploma and associate degree nurses. Because of the transition from an academic to a clinical setting initially having less nursing responsibilities than the baccalaureate graduate expects, the initial job satisfaction is lower than that of the diploma and associate degree graduates, and lower than that of the baccalaureate nurse after the third year of nursing.

Schwirian (1979a) reported that graduates of nursing programs rated their own behaviours highest on the interpersonal relationship/communication and leadership subscales, and lowest on the teaching/collaboration scale. When types of graduate performance were compared, she found that diploma graduates rated themselves higher than baccalaureate graduates in leadership, critical care, and IPR/communication. Baccalaureate graduates rated themselves higher than diploma graduates in teaching/collaboration and planning.

The National Second Step Project, Sonoma State University, California, published reports of their annual conference proceedings in 1980 and 1981. The extensive reports provided a wealth of information on the research findings of post-licensure upper-division baccalaureate programs designed specifically for registered nurses. The research covered a broad range of concerns: leadership in the programs, administration of the programs, implementation of innovative programs such as individualized learning, integration of the programs into liberal arts colleges, and characteristics of students among others. Some of the methods of research included quantitative and qualititative analysis, process and product models, longitudinal and follow-up designs.

One of the studies reported was that of Brian (1980). She reported on an outcomes study based on a longitudinal design of the post-graduation activities of the students of six NSSP programs,

(1980:54):

We know that graduates are carrying more responsibility, earning more money and, generally feel that their post-graduation positions have improved over the ones they had before entering their second step program. We also know that, at least as far as job titles and work settings are concerned, these graduates are very similar to all employed baccalaureate nurses in the S. with one notable exception. Far more graduates in the NSSP sample are working as nurse practitioners than in the nursing population at large.

Graduates have a significantly higher leverage interest in various professional activities than do entering students. These Second Step programs appear to be accomplishing an important goal in evaluating the professional orientation of those RNs who come to them prepared as technical nurses.

Superiors tend to rate the graduates highly in comparison to other baccalaureate nurses, and the graduates themselves credit the program with having had a strong and positive impact on many areas of their professional function.

Brian (1980:54) concluded by raising some questions for further

research.

Are they interpreting their jobs differently? Are they able to function more independently and with more assurance? Are they more able to deal with problems that arise? Are there differences that the graduates perceive in the settings themselves? The present study will attempt to answer some of those questions.

Summary

In this review of the literature definitions of evaluation and arguments regarding evaluation and research were discussed. The methodologies of educational evaluation which have become widely accepted and utilized were summarized. Current trends in nursing evaluation were examined. Finally, the current state of evaluation of nursing education programs and performance was examined, focusing on the role of the evaluator, procedures utilized, measuring instruments, and findings of research studies.

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CHAPTER III

DESIGN, APPROACH AND PROCEDURES

In this chapter, the study design, a theoretical approach to follow-up evaluation, and the procedures utilized are described. The design of the study is described in the first section. In the second section, an approach to follow-up evaluation is outlined, focusing on the factors to be considered and a technique of blocking the variables which are to be examined. The development of the instrument is described in the third section. The sampling and data collection procedures are outlined in the fourth and fifth sections. Finally, the procedures used to analyze the data are presented.

Design of the Study

The purpose of this study was to collect and analyze information to answer research questions about two groups of registered nurses: those awaiting entry to a Post-R.N. baccalaureate program and those who had graduated from the program.

The study design was based on the pre-experimental design, static-group comparison, described by Campbell and Stanley (1963:12). Figure 3.1 describes the design. The measurements (0_1) of a group that has experienced an event (X) are compared with the measurements (0_2) of a group that has not, for the purpose of establishing the

effect of the event (X). The dashed lines (--) indicate that the comparison groups were not equated by random assignment.

$$\frac{x}{2} = -\frac{0}{0}$$

Figure 3.1

The Static-Group Comparison Source: Campbell and Stanley (1963:12)

This design, as do all others, exhibits strengths and weaknesses. Campbell and Stanley (1963) described the design by focusing on sources of invalidity of which the investigator should be aware. The factors of: history, testing, instrumentation and regression are controlled in this type of design. Maturation may be a source of concern. Selection, mortality, and interaction of selection and maturation may affect internal validity. Interactions of selection and the event may affect external validity. This investigator could not ensure that both groups of nurses would have been equivalent if the one group had not completed the baccalaureate program. Therefore, it became necessary through selection to attempt to obtain as equivalent a group as possible. Worthen and Sanders (1973:51) concurred with this idea suggesting "In a follow-up study, it is necessary to obtain data on a control group equated at wast crudely to the experimental cases on the obvious demographic variables." The Special Student group was chosen to represent a pre-entry group. Experimental mortality may be a confounding variable in this design. Some attempt was made to ascertain if non-respondents differed from respondents by examining student profiles.

Limited information was available on the 1980-81 second year Post-R.N. class. Percentage distributions of these students by sex (98.6% female), age (33.3% between 25 and 29 years) and G.P.A. (64.7% between 7.1 and 9) was compared with percentage distributions of the responding graduates by sex (100% female). The (199% between 25 and 29 years) and G.P.A. (65% between 7.0 and 8.9). Besed on this limited information, it was ascertained that the non-respondents did not differ substantially from the respondents on these variables.

> A Theoretical Approach for Follow-up Evaluation of a Post-R.N. Nursing Program

incentive for this study was generated by asking a general define: "Does the acquisition of a baccalaureate degree improve the quality of nursing performance?" A preliminary search of the literature and interviews with significant members of the nursing community revealed that conducting a follow-up evaluation of Post-R.N. baccalaureate program graduates might be an appropriate method to gain information which might provide some answers to the question. Cronbach (1963) indicated a follow-up study was useful to observe ultimate educational contributions and to appraise effects of the program as a whole. Some type of framework was necessary to plan and conduct the follow-up study.

The Reform of Program Evaluation

 \sim \sim Prior to developing the framework for this follow-up evaluation, models of program evaluation were reviewed. As discussed in Chapter II, numerous models were developed during the decade of the sixties by writers cited by Worthen and Sanders (1973) such as, Scriven, Stake, Stufflebeam. Alkin and Provus. Worthen and Sanders (1973) when discussing these models, suggested that evaluators incorporate the best features of the various approaches resulting in an eclectic evaluation. plan. This approach would produce a custom-designed evaluation rather than a standard cookbook recipe. Cronbach and Associates (1980) concurred with this idea and went even further toward reform when they discussed the state of program evaluation in the decade of the eighties. They tended to discard formal models in favor of simple. schematic diagrams suggesting that formal detailed models may lead to confusion. The schematic approach accomplished a number of purposes for the evaluator (Cronbach and Associates: 1980); it: 1) illustrated a habit of thought appropriate to evaluation planning, 2) identified the scope of the evaluation, 3) identified what a single evaluation could realistically accomplish and 4) identified what was to be observed.

An Approach for Planning Follow-up Evaluation

Utilizing these concepts an approach was developed that identified the factors to be considered when planning and conducting an evaluation from the perspective of the evaluator (See Figure 3.2). These factors resembled what Stake referred to as the rationale in his



Countenance Model of Evaluation, while Stufflebeam referred to them as context in his CIPP (context, input, product, and process) Model of Evaluation, and Provus referred to them as input in his Discrepancy Model of Evaluation.

The factors to be considered when planning this study were: the client, the community, the subjects, the program, the resources, the timing of the study, the stake-holders, and the evaluator. Each factor was examined by posing questions which needed to be asked about each factor before conducting the evaluation. The evaluator then recorded the known information about each question.

The Client

- 1. Who is the client?
- 2. What are the client's needs?
- 3. What are the client's expectations?
- 4. What characteristics of the client are pertinent to this evaluation?
- 5. What is the client's understanding of evaluation?
- 6. Is the client committed to this evaluation?
- 7. What are the ethical considerations when working with this client?

The client in this study was a university Faculty of Nursing interested in obtaining information about the first graduates from a program which had undergone a curriculum revision. Information gathered would be utilized in guiding curriculum revision, program planning, and policy formation. The majority of persons in the client group had extensive experience in specialized areas of nursing and possessed a Masters degree or Ph.D. in nursing or related disciplines. Some members had advanced education and experience in curriculum development and evaluation methodologies. This group had previously conducted some follow-up evaluations, however, at this time they had neither the time nor available manpower to conduct this study. They expressed committment to the study by providing both service and financial support. In addition, members of the client group participated in providing curriculum materials to the evaluator, discussing the study and possible variables, and validating várious stages of the instrument development.

Ethical considerations revolved around confidentiality, access to information, release of findings and possible implications of the study findings. Confidentiality was assured to the client members who discussed the study with the evaluator and who validated the instrument. Names were not used, instruments were not coded and the raw data were seen only by the evaluator. Access to information from the client occurred through an appointed resource person from among the client membership. Release of findings beyond the boundaries of the original agreement between the evaluator, client, and University Department supervising the study would occur only with approval of the client. Also considered were implications both directly and indirectly which the findings of the study may have. Directly, the findings could be used for curriculum revision, and program planning. Indirectly, the findings could reflect credibility of the program/faculty, and could

affect student recruitment, program funding and future policies regarding this and similar programs.

The Community

- 1. Who are the members of the community?
- 2. What are the characteristics of the community?
- 3. What are the needs of the community?
- 4. What are the expectations of the community?

The members of the community significant to this study were the health-concerned public. This public was comprised of everyone who was affected by health care such as potential patients and families, current patients and families, all levels and categories of care givers, and potential students. One responsibility of the profession of nursing is to ensure safe competent health care for the consumer. The consumer expects that this standard of health care be obtained at a minimum cost. These expectations extend to the programs which educate the practitioners.

The Subjects

- 1. Who are the subjects?
- 2. What are the characteristics of the subjects?
- 3. What are the expectations of the subjects?
- 4. What are the ethical considerations when working with these subjects?

5. Are the subjects committed to this evaluation?

6. What are the biasing factors of the subjects which may influence this study?

The subjects were registered nurses who had completed the Post-R.N. program and graduated in 1981. A sketchy profile indicated approximately three-quarters of these graduates were thirty-six years old or younger, that ninety-eight percent were female, that eighty-percent had a senior matriculation average of between sixty-six percent and eighty percent and that sixty-six percent had a G.P.A. of 7.1 to 9.0.

These graduates would have expected the program they graduated from to be a credible program, providing them with the advanced knowledge and skills which position papers, reports, and leaders in nursing indicated would be provided by a baccalaureate degree. They also would expect that any study done would ensure their anonymity and confidentiality. It was difficult to predict if the subjects would be committed to the study. A good response rate was anticipated based on two opposing views which the subjects might hold. Either the program had met their expectations and they wished to share this information, or the program had not met their expectations and they wished to express their discontent. The evaluator was aware of some current factors which might have influenced the study. Controversy did surround the suggestion of a baccalaureate degree as the minimum preparation for entry to practice. In addition, the climate surrounding nursing in the study environment was unstable due to an impending strike. The two issues, particularly the latter, could affect the study.

The Program

- 1. What type of program is being evaluated?
- 2. What stage of the program is being evaluated?
- 3. Does the program have a curricular model? If so, what is it?
- 4. What are the characteristics of the graduate/expected outcomes/objectives of the program?
- 5. What is it about the program which is to be examined?

The program under study was a two-year Post-R.N. baccalaureate program offered since 1970 at a University in Western Canada. The program curriculum had recently been revised and was based on the Orem Self-Care Nursing Model. Statements about the characteristics of the graduate, expected outcomes and objectives were available. The study focused on the first graduates from the revised program. The study was not an exhaustive follow-ûp on these graduates, but rather an examination of selected variables: demographic characteristics, educational characteristics, nurse career behavior characteristics, and the guality of nursing performance.

The Resources

- 1. What resources are available to the evaluator? i.e. time, money, manpower, expertise, equipment/supplies.
- 2. What resources are required?
- 3. Can additional resources be obtained?

The evaluator was the principle investigator and had ten months to conduct the study. Resource persons were available in the form of faculty advisors/experts, computer analysts, and administrative support from the client. Equipment/supplies which were available included libraries and computing services. The resources required in addition to the ones available were additional services and funds. The client was most cooperative in providing additional resources. Typing, printing and funding was provided for specific phases of the study i.e., proposal, approval, instrument development, validation, data collection, data analysis and summary. However, additional funds would have to be sought to cover: office supplies, typing, revision, printing, binding, and distribution of the final report.

The Time of the Study

 What is the "state of the art" which may influence the study?

Are there any current events that may influence the study?

One issue was recognized as having a potential influence on the study. A nurses' strike, the main issue being compulsory registration, was a very real possibility as the study was initiated. At the time of questionnaire mail-out, the nurses were in fact on the picket-lines.

Another factor concerning timing of the study revolved around selection of a comparison group for the study. The academic year had begun before the study was initiated. Therefore, the ideal pre-treatment group could not be utilized. Another group would have to be selected.

The Stake-holders

- 1. Who, in addition to the client, is interested in the findings of this study?
- 2. Who, in addition to the client, may be influenced, positively or negatively, by the findings of this study?

Two groups of stake-holders were interested in and might be influenced by the study. The first group included those stake-holders who might be directly interested and affected. This group could include the Department of Educational Administration, the Alberta Association of Registered Nurses, the Canadian Nurses Association, and the Department of Advanced Education and Manpower. The second group included those stake-holders who might be indirectly interested and affected. This group could include registered nurses, students in the program, potential students, and the research community.

The Evaluator

- 1. Who is the evaluator?
- Is this person qualified for the job i.e., knowledge of the area being evaluated, knowledge of evaluation, knowledge of research, previous experience in conducting such studies?
- 3. Does this person have credibility in the field?
- 4. Is the evaluator functioning in an internal or external capacity?
- 5. Will the evaluator work alone or as part of a team?
- 6. Is the evaluator able to be autonomous or will the evaluator be influenced/biased?

The evaluator was a registered nurse who possessed a B.Sc.N. and was completing requirements for a Master's degree in Educational ^{*} Administraion. The major focus of that program had been on program evaluation. The evaluator had numerous and varied experience in teaching of nursing, development and revision of curriculum, assisting with research projects, and directing a program development project. The evaluator held numerous positions in her professional association. It was felt she was able to offer the client some assurance of credibility. In addition she was working with two faculty advisors. The evaluator was functioning as an external evaluator as she had no previous contact with the client. The evaluator was autonomous and had indications from the client that this would continue.

In summary, the evaluator identified and analysed the factors to be considered when planning and conducting the study. This was done to fulfill one of the purposes of such a plan as identified by Cronbach and Associates (1980), that being to illustrate a habit of thought appropriate to evaluation planning.

Identification of Observations to be Made

The second part of the approach was developed to fulfill the other purposes of such a plan as identified by Cronbach (1981): to identify the scope of the evaluation, to identify what a single evaluation can realistically accomplish, and to identify what is to be observed.

The client identified a number of variables on which data could be collected. Possible relationships to be examined were also

discussed. It then became necessary to identify the scope of the evaluation and what this single evaluation could realistically accomplish. A variable-blocking technique discussed by Blalock (1966) and presented by Schwirian (1981) was examined for possible application to this study. Schwirian (1981) suggested the methodologies of factor mapping or cannonical correlation or path analysis be used with this type of technique. Although these procedures were not used in this study, the fundamental idea of blocking the variables proved useful in identifying the relationship to be observed, thereby defining the scope of the study and what could realistically be accomplished by this evaluation. 51

The variables as blocked appear in Figure 3.3. The blocks represent the five major categories of information to be gathered and analyzed in this study: demographic characteristics, academic achievement, basic education, post-R.N. education, and nurse career behavior. Due to the limited scope of this study, other categories of information which may be useful in a more exhaustive follow-up study, such as employment characteristics, personal characteristics, and nursing school characteristics, were not included.

Relationships to be Examined

Schwirian (1981:247) described four types of relationships to be examined using the blocking-technique: 1. Relationships between "meta-groups" or related variables $(box_x-to-box_y)$, 2. Relationships among grouped variables (within-box), 3. Relationships between elements of one group of variables and elements of another group of



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variables (box_x element_i-box_y element_j), and 4. Relationships between a "meta-group" or related variables and elements of another variable group (box_x -to-box_y element_j). Similar relationships would be examined in this study.

<u>Box-to-Box Observations</u>. These kinds of observations would be: academic achievement (block 1) and nurse career behavior (block 5); basic education (block 2) and nurse career behaviors (block 5). (An example is shown in Figure 3.4).



Figure 3.4

Box-to-Box Observations

<u>Within-Box Observations</u>. These kinds of observations would be: type of program graduated from and perceived effectiveness of the program (block 2); R.N. scores and G.P.A. (block 1); years of experience and activity performance (block 5). (Examples are shown in Figure 3.5).
Block 1: Academic Achievement



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Block 5: Basic Education

Type of Program Effectiveness of Program

Block 5: Nurse Career Behavior



Figure 3.5

Within-Box Observations

 Box_x Element_j-to-Box_y Element_j Observations. These

kinds of observations would be: G.P.A. (block 1) and title of position (block 5); type of basic program (block 2) and belief about a degree (block 4); and title of position and performance of nursing activities (An example is shown in Figure 3.6).



Figure 3.6

 Box_x Element₁-to-Box_y Element_j Observations

 Box_x -to- Box_y Element_j Observations. These kinds of

observations would be: academic achievement (block 1) and activity performance (block 5); and demographic characteristics (block 3) and plans to complete a degree (block 4) (An example is shown in Figure 3.7).



Block 5: Nurse Career Behavior 55



Figure 3.7

 Box_x -to- Box_y Element_j Observations

In summary, a technique of blocking the variables was described which could be utilized to observe the variable relationships. It became apparent that the majority of relationships observed in this study were of the within-box (Figure 3.5) and box_x element_i-tobox_y element_i (Figure 3.6)type.

Summary of Theoretical Approach

A theoretical approach for conducting a follow-up evaluation was developed. The framework consisted of two parts. The first part identified the factors to be considered when planning and conducting a follow-up evaluation. Specific to this study were the following factors: client, community, subjects, program, resources, timing, stake-holders, and the evaluator. Questions specific to the evaluation were asked about each factor. Information that was available to, and known by, the evaluator relating to each question was then recorded 'prior to conducting the study.

The second part of the framework identified the observations to be made in the study. These observations were organized by blocking the variables into the groups of: demographic characteristics, academic achievement, basic éducation, post-R.N. education, and nurse career behaviors. The variables were then examined by looking for box-to-box, within-box, box_x element_i-to-box_y element_j, and box_x -to-box_y element_i relationships.

Such a plan accomplished a number of purposes for the evaluator. It illustrated a habit of thought appropriate to evaluation planning, identified the scope of the evaluation, identified what a single evaluation could realistically accomplish, and identified what was to be observed.

Development of the Instrument

Selected demographic, academic, basic education, post-R.N. education, and nurse career reference characteristics of nurses awaiting entry to a Post-R.N. baccalaureate program and graduates of the program were described, resulting in profiles of both the pre-entry group and the graduates of the program. The graduates' reports of how well they performed selected nursing activities before entering the program and upon graduation were also examined.

Choice of the Instrument

Ninety-seven subjects were involved in the study and some of these, particularly the program graduates, were widely dispersed geographically. A mailed questionnaire was selected as an appropriate tool for data collection. McCallon and McCray (1975) identified the following advantages of mailed questionnaires: relatively low cost, the possibility of wide geographic coverage, provision for anonymity, uniformity in responses, and the opportunity for the respondent to contemplate her answers.

General Information Section

To identify the characteristics of nurses to be examined in this study, a number of activities were carried out. Selected members of the Faculty of Nursing were interviewed to determine what information about the nurses would be required. A number of instruments used in evaluation studies of nursing programs and follow-up studies of graduates were reviewed. A Demographic Data Professe developed by W. Mills (1979) proved to be most useful, and some of these items were used as stated or modified for this instrument. Follow-up studies by Field (1978), Steed (1974) and Crawford, Harrison and Larson (1976) contained examples of the kind of information to be solicited in the the General Information section of the instrument.

Five Dimension Scale of Nursing Performance Section

The development of the Five Dimension Scale of Nursing Performance involved several activities. The nursing curriculum was reviewed to elicit statements describing the characteristics of graduates of the Post-R.N. baccalaureate program. The characteristics were stated as eight behavioral objectives. These broad objectives addressed some widely accepted conceptual areas of nursing: knowledge of concepts and theories, supportive technologies, nurse agency, leadership, professionalism, societal changes, research, and the role of the nurse. The curriculum was based on Orem's model of nursing and was organized in curriculum development units. The content of these units focused on the eight objectives and reflected the nursing dimensions of: leadership, teaching, planning, communications, and professionalism.

An extensive search was undertaken to determine if existing instruments could be used in this study. One such instrument which appeared to be useful was the Six-Dimensional Scale of Nursing Performance described by Schwirian (1978b) in the study, "Prediction of Successful Nursing Performance." Schwirian's instrument included 52 statements of nursing activities which were derived from project work with 151 schools of nursing. The schools were representative of the associate degree, hospital diploma, and baccalaureate educational programs in nursing. Factor analysis was used to categorize the behaviors into six dimensions of activity related to: leadership, critical care, teaching/collaboration, planning/evaluation, interpersonal relationships/communication, and professional development. The measure of reliability computed for each of the six sub-scales was Cronbach's alpha and ranged from a low of .84 for the leadership subscale to a high of .98 for the professional development subscale. This instrument appeared to have utility for assessing nursing performance in this study.

Approval to use the scale was requested and gained from both Schwirian and The American Journal of Nursing Company, who held the copyright. Approval was granted on the condition that the instrument copyright be referenced (See Appendix B).

Validation of the Instrument

The instrument was distributed to members of the Nursing Faculty to determine whether the fifty-two activities were included in the curriculum. Sixty-seven percent of the faculty members responded to this request. Analysis of the faculty members' responses indicated that the critical care activities were not included in the curriculum of the Post-R.N. program and, consequently, this dimension was omitted. The proposed instrument for this study now consisted of two parts: the General Information Section and the Five-Dimension Scale of Nursing Performance.

The bastic instrument was further modified for the two subject groups: the comparison group of registered nurses enrolled as special students and the graduates of the Post-R.N. program. The special students were asked to respond to two questions about each activity statement, rating their responses on three- and four-point scales.

- 1. How often do you perform this activity in your current job?
- How well do you perform this activity in your current job?

Graduates of the Post-R.N. program were asked to respond to four questions using the same three- and four-point rating scales.

- How <u>often</u> did you perform this activity in your previous job?
- 2. How often do you perform this activity in your current job?
- 3. How well did you perform this activity before entering the program?
- How well do you perform this activity since completing your degree?

Members of the Nursing Faculty again examined these two questionnaires for face and content validity, after which the final copy was made.

The Final Instrument

Two questionnaires were developed and are included in Appendix A. One questionnaire, color-coded green, was sent to the Special Students. The other questionnaire, color-coded yellow was sent to the graduates. Each questionnaire contained the two sections: General Information and the Five Dimension Scale of Nursing Performance.

The General Information Section for both groups was comprised of the following blocks of variables: demographic, academic, basic education, post-R.N. education and nurse career behavior characteristics. The questionnaire for the graduates contained more variables within some blocks than did the questionnaire for the special students.

The Five Dimension Scale of Nursing Performance Section was comprised totally of one sub-section of the nurse career behavior block, that being activity performance. This section included forty-five activity statements which focused on the nursing dimensions of: leadership, teaching/collaboration, planning/evaluation, IPR/communication, and professional development (See Table 3.1). Both the special students and the graduates rated the frequency and quality of their performance of each of the activities.

Factor Analysis of the Five Dimensions

As described previously, Schwirian (1978b) had originally derived the six dimensions by subjecting the activity statements to factor analysis (oblique rotation) (See Table 3.2 in Appendix C).

The forty-five activity statements used in this study were subjected to factor analysis (oblique rotation) even though the usable returned questionnaires for a factor analysis were small in number (a combined total of 53) compared to the number of items (45).

Table 3.1

Five Dimensions of Nursing Performance

Activity Scale	Item Number	Activity
Leadership	3	Give praise and recognition for achievement to those under your direction.
	20	Delegate responsibility for care based on assessment of priorities of nursing care needs and the abilities and limitations of available health personnel.
•	22	Guide other health team members in planning for nursing care.
	23	Accept responsibility for the level of care provided by those under your direction.
	34	Remain open to the suggestions of those under your direction and use them when appropriate.
Teaching/ Collaboration	1	Teach a patient's family members about the patient's needs.
	.4	Teach preventive health measures to patients and their families.
	5° 20	Identify and use community resources in developing a plan of care for a patient and his family.
	11	Adapt teaching methods and materials to the understanding of the particular audience: e.g., age of patient, educational background, and sensory deprivations.
	13	Develop innovative methods and materials for teaching patients.
• •	24	Promote the use of interdisciplinary resource persons.
аларана 1997 - Сарана 1997 -	25	Use teaching aids and resource materials in teaching patients and their families.
	26	Encourage the family to participate in the care of the patient.

Table 3.1 Continued

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Activity Scale	Item Number	Activity
	27	Identify and use resources within your health care agency in developing a plan of care for a patient and his family.
	32	Communicate facts, ideas, and professional opinions in writing to patients and their families.
	33	Plan for the integration of patient needs with family needs.
Planning/ Evaluation	2	Coordinate the plan of nursing care with the medical plan of care.
e a Anna an Anna Anna	6	Identify and include in nursing care plans anticipated changes in a patient's condition.
	7	Evaluate results of nursing care.
	9	Develop a plan of nursing care for a patient.
•	10	Initiate planning and evaluation of nursing care with others.
	12	Identify and include immediate patient needs in the plan of nursing care.
	• 31	Contribute to the plan of nursing care for the patient.
IPR/ Communica- tions	8	Promote the inclusion of the patient's decisions and desires concerning his care.
	14	Communicate a feeling of acceptance of each patient and a concern for the patient's welfare.
	15	Seek assistance when necessary.
	16	Help a patient communicate with others.
	17	Verbally communicate facts, ideas, and feeling to other health team members.

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	·	Table 3.1 Continued
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Activery Scale	Item Number	Activity
	18	Promote the patient's right to privacy.
	19	Contribute to an atmosphere of mutual trust, acceptance and respect among other health team members.
	2]	Explain nursing procedures to a patient prior to performing them.
	28	Use nursing procedures as opportunities for interaction with patients.
	29	Contribute to productive working relationships with other health team members.
, ,	30	Help a patient meet his emotional needs.
	35	Use opportunities for patient teaching when they arise.
Professional Development	36	Use learning opportunities for ongoing personal and professional growth.
د. ۱۹۰۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹	37	Display self-direction.
	38	Accept nesponsibility for own actions.
· *	39	Assume new responsibilities within the limits of capabilities.
	40	Maintain high standards of self-performance.
	41	Démonstrate self-confidence.
•	42	Display`a generally positive`attitude.
	43	Demonstrate knowledge of the legal boundaries.
	44	Demonstrate knowledge of the ethics of nursing.
	45	Accept and use constructive criticism.

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Schwirian's results had been based on two groups of responses: 914 nurse_graduates and 587 supervisors (Schwirian 1978b:348). (Table 3.3 in Appendix C shows the pattern of item loading using Schwirian's constructs and the respondents' reports in this study). (Table 3.4 in Appendix C shows the pattern of item loading forming possible new constructs based on the respondents' reports in this study). Based on this analysis of combined responses, and a small sample size the constructs as derived by Schwirian (1978b) were maintained for further data analysis in this study.

Reliability of the Five Dimension Scale of Nursing Performance

Table 3.5 shows that the measure of reliability, Cronbach's alpha, which was computed for each of the five activity scales in this study ranged from a low of .85 for the leadership sub-scale to a high of .95 for the teaching/collaboration subscale.

Table 3.5

Reliability of Activity Scales using Schwirian's constructs and combined responses of self-appraisals. N = 53

Scale	f Items	A1pha'
Leadership	5	0.848
Teaching/Collaboration	1 1	0.954
Planning/Evaluation	7	0.889
IPR/Communications	12	0.904
Professional Development	10	0.906

The Sample

This study examined two groups of nurses in one Western Province. The first group consisted of nurses enrolled for the calendar year 1981-82 as special students in the Nursing Faculty at a Western Canadian University. A student list was obtained from the Nursing Faculty. After determining that periodicity was not present, a systematic sampling method with a random start was utilized to select the subjects for this group.

The second group consisted of nurses who had graduated from the Post-R.N. baccalaureate program in 1981. The total population of this group was utilized in the study.

The Special Student group was admittedly not as homogeneous a pre-entry comparison as a group of nurses who had been accepted into the program and were in the first week of the program. However, due to the timing of the study, this Special Student group was considered to be the most acceptable and was readily available for comparisons. Further analysis in Chapter IV indicates the two groups exhibited similar general characteristics.

Data Collection

The data were collected from the subjects by use of a questionnaire. Self-addressed, stamped envelopes were enclosed with each questionnaire, along with instructions to return questionnaires within one week. Coding of questionnaires facilitated sending out

follow-up reminders. The design of the questionnaire facilitated direct transfer of responses to computer cards.

The questionnaire was mailed to 44 graduates of the Post-R.N. program and 55 Special Students on February 22, 1982. Two special student questionnaires were returned unopened, dropping the total N for the special students to 53. Table 3.6 indicates that 49% of the graduate and 57% of the special student questionnaires were returned by the first follow-up date, March 8, 1982. This first follow-up increased the return rate to 52% of the graduates and 68% of the special students by the second follow-up date, March 18, 1982. By the final date, March 31, 1982; 73% of the graduates and 75% of the special students had responded to the questionnaire.

Table 3.6

			Questiò	nnaires			1
Subjects	Distribute No.		Tow-up %		ned by: Tow-up 2 % 1	N	Cut-of1 %
Special Students	53	30	57	36	68	40	75
Graduates	, 44 • •• -	20	49	⁻ 23	52 、	32	73

Distribution and Return of Questionnaires

Of the 44 graduate questionnaires mailed out, 32 were returned. One of these was discarded because the respondent wasonot employed. Therefore 31 questionnaires formed the final usable graduate sample.

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Of the 53 special student questionnaires, mailed out, 40 were returned. Four of these were discarded; leaving a final usable sample of 36 special student questionnaires. 68

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Treatment of the Data

The data obtained from the usable questionnaires were transferred to computer cards for processing using the Statistical Package for the Social Sciences (Nie. et al:1975).

The following statistical analyses were used in this study.

- 'Factor analysis, oblique rotation, was used to verify Schwirian's construct
- 2. Cronbach's alpha was used to measure the reliability of the five nursing dimension scales.
- 3. Frequency and percentage distribution was used to describe the data about the characteristics and performance of the nursing activities of the respondents.

- 4. Pearson's correlation coefficient was used to describe the relationship between respondents' R.N. scores and the G.P.A.
- t-tests and ANOVA were used to examine differences in self-reports of respondents about their performance of nursing activities.
- t-tests and ANOVA were used to examine the relationships between selected characteristics and the respondents reported performance of nursing activities.
- 7. Step-wise multiple regression was used to determine which of the variables may be predictors of successful nursing performance.
- 8. Content analysis was used to analyze the open-ended responses.

Summary

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The design of this study was that of a Static-Group Comparison. A theoretical approach was designed focusing on: 1. the factors to be considered when planning and conducting the study and 2. the blocking technique developed to examine the variables.

A questionnaire, based on one developed by Schwirian (1978b), was used to collect the data about the characteristics and reported performance of two groups of nurses. The questionnaire was tested for reliability and validity using Chronbach's alpha and factor analysis. Two groups of registered nurses were included in the study: those awaiting entry to a Post-R.N. program and those who had graduated from the program.

Data analysis included the use of Frequency distributions, t-test, ANOVA, and step-wise multiple regression, Pearson's correlation coefficient and content analysis.

CHAPTER IV

ANALYSIS AND FINDINGS

In this chapter are presented the results of the data analysis and a discussion and summary of the findings with respect to the six problems.

The problems as stated were:

1.

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- What are some selected demographic, academic, basic education, Post N. education and concareer behavior characteristics of nurse and any entry to the Post-R.N. Baccalaureate programmer aduates of the program?
- 2. What are the self-reports of nurse the aiting entry to a Post-R.N. program and those who have graduated of the program of how frequently and how well they form selected nursing activities?
- 3. Are there statistically significant differences in the self-reports of how well they perform selected nursing activities between nurses awaiting entered a Post-R.N. program and graduates before they entered the program?
 - Are there statistically significant differences in the self-reports of how well they perform selected nursing activities between nurses awaiting entry to a Post-R.N. program and graduates after completing the program?
 - Are there statistically significant differences between the self-reports of how well the graduates of a Post-R.N. program performed selected nursing activities before entering the Post-R.N. program and how well they perform those activities after graduating from the program?

- 6. Are there statistically significant relationships between the selected characteristics and how well nurses awaiting entry to a Post-R.N. program report they perform selected nursing activities?
- 7. Are there statistically significant relationships between the selected characteristics and how well graduates of a Post-R.N. program report they perform selected nursing activities?

Problem 1

Problem 1 was stated as follows:

What are some selected demographic, academic, basic education, Post-R.N. education, and nurse career behavior characteristics of nurses awaiting entry to a Post-R.N. Baccalaureate program and graduates of the program?

Characteristics of Nurses Awaiting Entry to a Post-R.N. Program

In this section the results of the data analysis are reported and the findings about the characteristics of nurses awaiting entry to a Post-R.N. Baccalaureate program, hereafter referred to as the Special Students, are discussed.

Findings

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Demographics

The frequency distribution of responses of nurses awaiting entry to a Post-R.N. program to questions about the characteristics of age, sex, marital status and number of children is shown in Table 4.1. The major findings were as follows:

1. The largest percentages of the special students were 25-29 years of age or 35-39 years of age.

Table 4.1

Special Students: Demographic Characteristics. Frequency of responses about demographic characteristics. N = 36

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Demographic			13		<u> </u>	requency
Characteristic					No.	Pct.
						.9
Age		α				n an
1. Under 25		· · ·		•	2 13	6
2. 25-29					6	36 17
3. 30-34 4. 35-39	•			•	8	- 22
5. 40-44		ey	$\sim 10^{6}$		5	14
6. 45-49	а., х				2	. · · · · 6
7. 50 and over		•		7° *.	-	·
				Ĭ	¥	•
	• •			••	•	
Sex			•	• •	•	
1. Female	•		Υ.		35	97
1. Female 2. Male				•	Ĩ	3
					•	•
Marital Status		•				•
Single				L.	7	19
2. Married			•		28	78
3. Other			t sa Ala	` .	1 ∍	· · · · 3
			ę.			· a ,
Number of Children			•		-	· · ·
					20	56
0. None	•		**************************************	œ	20	6
1. One 2. Two			s.		. 9	25
3. Three			• • •	а	4	្វា
4. Four		4			1	3
5. Five or more					, –	· · · · · •
		or	•	•		· · · · ·

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°.**)

- 2. Most of the special students, 97%, were female.
- 3. The largest proportion, 78%, of the special students were married.
- 4. The larger proportion of the special students, 56%, had no children.

Academic

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The frequency distribution of the scores of the special students on the R.N. exams is shown in Table 4.2. The major findings were as follows:

The nursing exams with the highest mean scores as reported by the special students were medical nursing and obstatical nursing.

- A large percentage of respondents, up to 19% for psychiatric nursing, either did not remember their scores or had come from a system utilizing a different scoring method.
- 3. The mean score, as reported by the special students, on all five exams fell between 500 and 550.

Basic Nursing Education

The frequency distribution of the special students responses to questions about the type of basic program, year of graduation, and effectiveness of the basic program for preparing them for the job they were presently doing is shown in Table 4.3. The major findings were as follows:

1. Most of the special students, 78%, had graduated from the hospital program. Respondents not included in the hospital or college program had graduated from a CEGEP or psychiatric nursing program.

 Approximately two-thirds of the special students graduated from their basic program in 1970 or later.

Table 4.2

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R.N.	Scores	A		1					No.	Frequ	ency Pct.	•
Medi	ical Nursing				•			•		•		•_
1. 2. 3. 4. 5. 6. 7. 0.	350-399 400-449 450-499 500-549 550-599 600-649 650+ Other	= 30,		4.73					1 2 5 5 5 7 5 6		3 6 14 14 14 19 14 17	· · · · · · · · · · · · · · · · · · ·
Sure	gical Nursin	o				-					• .	• •
1.	350-399	9								•		
2. 3. 4. 5. 6. 7. 0.	400-449 450-499 500-549 550-599 600-649 650+ Other		4	•					4 6 4 7 4 5 6		11 17 11 19 11 14 17	47.
	N	= 30	, X * =	4.53								
Nur	sing of Chil	dren			· · ·		~				. •	
1. 2. 3. 4. 5. 6. 7. 0.	350-399 400-449 450-499 500-549 550-599 600-649 650+ 0ther			· · · · · · · · · · · · · · · · · · ·		4 3	۵		2 3 7 3 6 5 4 6		6 8 19 8 17 14 11 17	

<u>Special Students</u>: Academic Characteristics. Frequency of scores on R.N. Exams

Table 4.2 (Cont'd.)



* This mean represents the mean of response choices i.e.: 1, 2, 3, 4, etc. not the actual score.

Table 4.3

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2.5

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<u>Special Students</u>: Basic Nursing Education Characteristics. Frequency of responses about their basic nursing program. N = 36

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Characteristics of Basic Program	Frequ No.	<u>ency</u> Pct.
Type of Basic Program	•	
1. 3 year Hospital 2. 2 year College 3. Other	28 6 2	78 17 6
Year of Graduation from Basic Program		
1. Before 1960 2. 1960-1964 3. 1965-1969 4. 1970-1974 5. 1975-1979	4 3 6 9 14	11 8 17 25 39
Effective Basic Program		.
1. Yes 2. No 0.	22 13 1	61 36 3
$N_{\rm e}^{\rm exp} \sim N_{\rm e}^{\rm exp} \sim N_{\rm e}^{\rm exp}$.	•	

3. Sixty-one percent of the special students, reported their basic nursing program had effectively prepared them to function in the position they presently held, while thirty-six percent of the respondents did not believe their basic nursing program had effectively prepared them. Comments appear in Appendix D.

Post-R.N. Baccalaureate Education

1.

The frequency distribution of the responses of the special students to questions about courses they were taking, plans to complete the degree, and beliefs about obtaining a degree are shown in Table 4.4. The major findings were as follows:

- 1. Approximately 50% of the special students were required to take pre-requisite courses.
- 2. Seventy-two percent of the special students took credit courses which were not pre-requisites.
- 3. Most of the special students, 81%, planned to complete the degree program in the next five years.
- 4. The special students expected that obtaining a degree would result in one of two major outcomes for them: 31% expected to obtain more challenging or satisfying work, and another 31% expected they would be able to change their field of work. The responses to "other" included those who saw the degree helping them obtain entrance to another faculty, and providing an opportunity for advancement in their present job. Only one person indicated the possibility of a "slightly" improved salary as a major outcome of obtaining the degree.
- 5. One-quarter of the special students believed a degree was not necessary. Another quarter felt it was required to function effectively in teaching, supervision or public health. Comments appear in Appendix D.

Table 4.4

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<u>Special Students</u>: Post - R.N. Baccalaureate equcation. Frequency of responses about degree education. N = 351 3

		l 🖌	• •
Post - R.N. Education		<u>Freq</u> No.	uency Pct.
Required Pre-requisite Cours 1. Yes 2. No 0.	es	17 18 1	47 50 3
Took Credit Non-pre-requisit 1. Yes 2. No 0.	e Courses	26 - 10	72 28
Plan to Complete Degree 1. Yes 2. No 0.		29 6 1	81 17 3
Major Outcome of Degree 1. Improved working condit 2. Improved salary 3. More challenging or sat 4. Change field of work 5. Personal satisfaction 6. Other 0.		2 1 11 11 5 2 4	6 3 31 31 14 6 11
Belief about degree 1. Do not need a degree 2. Government will require 3. A.A.R.N. will require a 4. Nurses in teaching, sup health need a degree 5. Do need a degree	degree	9 1 3 10 6	25 3 8 28 17

Nurse Gareer Behavior

1.

The frequency distribution of the responses of the special students to questions about their current employment and nursing experience is shown in Table 4.5. The major findings were as follows:

Most of the special students were employed.

- 2. Three-quarter of the special students worked full-time, while one-quarter worked part-time.
- 3. Approximately 75% of the special students had over six years of experience, the mean years of experience being between 6 and 10 years.
- Approximately 60% of the special students were staff nurses. Comments regarding the section "other" appear in Appendix D.

Summary Profile of The Special Students

The majority of the special students were female, either 25 to 29 years of age or 35-39 years of age; married with no children; scored between 500 and 550 on the R.N. exams; graduated from a hospital program in 1970 or later; thought their basic nursing program was an effective one; were taking prerequisite courses for entrance to the Post-R.N. program; planned to complete their degree; thought a degree would result in obtaining more satisfying work or allowing them to change their field of work; thought a degree was not necessary or necessary only in the areas of teaching, supervision or public health; were presently employed; had over six years of experience; and were staff nurses.

Table 4.5 Special Students: Nurse Career Behavior Characteristics. Frequency of responses about their nursing career. N * 36

ursing Career Characteristics	-No.	<u>uency</u> Pct.
urrently Employed		~~~
. Yes No	35 1	97 3
ype of Employment	26	72
.°Full-time . Part-time	26 9	25
		3
ears of Experience		
· 1-2 years		
. 3-5 years . 6-10 years	12	33
. 11-15 years) X,	31 11
. 16 or more	1	- 3
x* = 3.29		
itle of Current Position		
 Staff Nurse Head Nurse or Assistant 	· 22 3	61 8
. Supervisor	1	3
. Instructor . Community Health Nurse	2 2	6 6
Nursing Administration		6 3
'. Clinical Specialist 3. Nurse Consultant		- 3
). Other	3	8 3
		.

4, 5, not the actual score.

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Characteristics of Graduates of the Post-R.N. Baccalaureate Program

In this section the results of the data analysis are reported and the findings about the characteristics of the graduates of a Post-R.N. program are discussed.

Findings

Demographics

The frequency distribution of responses of the graduates of the Post-R.N. program to questions about the characteristics of age, sex, marital status and number of children is shown in Table 4.6. The major findings were as follows:

- 1. The largest percentage of graduates were in two age groups: 25 to 29 years of age or 35-39 years of age.
- 2. All the responding graduates were female.
- 3. The respondents were divided between those single, 52% and those married, 42%.
- 4. The majority, 71%, of the graduates had no children.

Academic

The frequency distribution of the scores of the graduates on the R.N. exams and the achieved G.P.A. is shown in Table 4.7. The major findings were as follows:

- The nursing exams with the highest mean scores as reported by the graduates were nursing of children and psychiatric nursing.
- A large percentage of the graduates, up to 32% for psychiatric nursing, either did not remember their scores or had come from a system utilizing a different scoring method.

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Table 4.6 Graduates: Demographic Characteristics. Frequency of responses about demographic characteristics. N = 31

Demographic Characteristics 🦕	No.	requency Pct
Age 1. Under 25 2. 25-29 3. 30-34 4. 35-39 5. 40-44 5. 45-49 7. 50 and over	- 3 12 3 8 3 2 0	10 39 10 26 10 7 0
Sex 1. Female 2. Male	31 0	100 0
Marital Status 1. Single 2. Married 3. Other	16 13 2	52 42 7
Number of Children O. None 1. One 2. Two 3. Three 4. Four 5. Five or more	22 2 3 2 2 2 0	71 7 10 7 2 0



Table 4.7 (Cont'd.)



* This mean represents the mean of response choices, i.e.: 1, 2, 3, 4, 5, 6, etc., not the actual score.

3. The mean score, as reported by the graduates, on all five exams was over 500.

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4. The mean G.P.A. achieved by the graduates was over 6.5.

Basic Nursing Education

The frequency distribution of the frequency distribution distribution of the frequency distribution dist

Approximately two-thirds of the graduates had received their initial training in a hospital program.

- 2. The majority of the graduates, 60%, had graduated from their basic program in 1970 or later.
- 3. There was an even split between those who thought the basic program was effective, 48%, and those who thought it was not effective, 45%, in preparing them for the position they held prior to entering the degree program.

Post-R.N. Baccalaureate Education

1.

The frequency distribution of the responses of the graduates to questions about courses they took, time to complete the degree, effectiveness of the Post-R.N. program, whether they obtained the employment they expected upon completion of the program, the major outcome of completing a degree, and their beliefs about a degree is shown in Table 4.9. The major findings were as follows:

The majority of the graduates, 61%, were required to take pre-requisite courses.

Table 4.8

<u>Graduates</u>: Basic Nursing Education Characteristics. Frequency of responses about their basic nursing program. N = 31

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Charac	teristics of Basic I	Program			No.	equency of the second sec	
Туре о	f Basic Program					· · · · · ·	
2. 2	year Hospital year College her		•		19 7 5	61 23 16	• • • • • • • • • • • • • • • • • • •
Year o	f Graduation from B	asic Program	n		• • • •		
2. 19 3. 19 4. 19	fore 1960 60-1964 65-1969 70-1974 75-1979			•	3 3 6 5 14	10 10 19 16 45	
			• •		4 		•
Effect	ive Basic Program						
1. Ye 2. No 0.		•	•		15 14 2	48 45 7	

Table 4.9

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<u>Graduates</u>: Post - R.N. Baccalaureate Education. Frequency of responses about degree education. N = 31<u>, '</u>

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Post - R.N. Education				No. Frequency	
				NU .	PCL.
Required Pre 1. Yes 2. No	-requisite Cour	•ses	S	19 12	61 39
Took Credit	Non-pre-requisi	te Courses			
1. Yes 2. No				17 14	55 45
Time to Comp	lete Degree		•		•
 2 years 3 years 4 years 	n 2 years n 4 years			2 17 9 3 0	7 55 29 10
Effective Ba	ccalaureate Pro	gram	•	· · ·	• •
1. Yes 2. No 0.			6	23 6 2	74 19 7
Employment E	xpected		•		
1. Yes 2 No).		a 		23 7	74 23 3

/ Table 4.9 (Cont	d.) ^	
Post - R.N. Education'	Fre No.	quency Pct.
Major Outcome of Degree		
1. Improved working conditions 2. Improved salary	6	19
 More challenging or satisfying work Change field of work Personal satisfaction Other 	12 8 3 2	39 26 10 7
Belief about degree		
1. Do not need a degree 2. Government will require a degree 3. A.A.R.N. will require a degree	1 2	3
 Nurses in teaching, supervision or publ health need a degree Do need a degree Other 	ic 22 4	7 71 13

- 42. Slightly more graduates took courses which were not pre-requisite, 55%, than graduates who did not take courses, 45%.
 - 3. Most of the graduates, 74%, responded that the Post-R.N. program effectively prepared them for the position they held since graduation. Twenty percent indicated the program had not been effective. Comments appear in Appendix D.
 - Three-quarters of the graduates obtained the employment position they expected after graduation.
 - 5. The major outcome of obtaining a degree for the graduates had been obtaining more satisfying work, 39%, and the opportunity to change their field of work, 26%. Also of note is the fact that 19% felt their working conditions had improved. Comments appear in Appendix D.
 - 6. The graduates indicated that nurses do need a degree, 71%. Comments appear in Appendix D.

Nurse Career Behavior

The frequency distribution of the responses of the graduates to questions about their position before entering the degree program and after completing the degree program; type of employment; years of experience; and necessity of having degree to do their job are shown in Table 4.10. The major findings were as follows:

- 1. Three-quarters of the graduates worked as a staff nurse prior to entering the degree program while only 16% worked as a staff nurse after obtaining the degree.
- 2. The percentage of nurses working as instructors rose from 7% before the degree to 19% after the degree.
- 3. The percentage of nurses working as community health nurses rose from 7% before the degree to 36% after the degree.
- 4. Descriptions of "other" types of positions which the graduates held appear in Appendix D.
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Table 4.10 The subject of responses about their nursing care of the subject o

			,	•	
Tit	le of Last Position		•		. <u>4</u> .
2. 3. 4.			• • • •	23 1 2 2 0 0 0 2	74 3 3 7 7 0 0 0 0 7
Yea	rs of Experience				•
1. 2. 3. 4. 5.	1-2 years 3-5 years 6-10 years 11-15 years 16 or more		•	10 6 7 5 3	32 19 23 16 10
	X* = 2.52	ан Солон (1997) Ал Солон (1997) Ал Солон (1997)			
Cur	rently Employed	•		•	λ.v.
1.	Yes No			30 1	97 3
Тур	e of Employment		U .		•
1. 2. 0.	Full-time Part-time ♥			27 3 1	87 10 3

	Table 4.10 (Co	nt'd.)	
Nurttine Carate Characte		. No.	
Title of Current Positi 1. Staff Nurse 2. Head Nurse or Assis 3. Supervisor 4. Instructor 5. Community Health Nu 6. Nursing Administrat 7. Clinical Specialist 8. Nurse Conservant 9. Other 0.	tant TES : ton	5 2 1 5 1 1 5	19 38 16 3
Function in Position W 1. Yes 2. No 0.	Ithout a Degree	° 9 21 1	29 68 3
 This mean represent 4, etc., not the years 	s the mean of the r	esponse choice, i.e	.: 1, 2, 3,

Fifty percent of the graduates had over six years of experience. The mean years of experience was between 3 and 5 years.

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6. Most of the graduates, 97% were employed.

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- 7. Most of the graduates, 87%, worked full-time.
- 8. Two-thirds of the graduates indicated they could not function as effectively in the position they presently held without a degree.

Summary Profile of the Graduates of the Post-R.N. Program

All of the responding graduates were female. Most were: either 25-29 years of age or 35-39 years of age; had no children; scored over 500 on the R.N. exams; achieved a G.P.A. of over 6.5; graduated from a hospital program in 1970 or later; took pre-requisite courses for entrance to the Post-R.N. program; thought their Post-R.N. degree program was an effective one, obtained the position they expected upon completing the degree, thought the degree had allowed them to obtain more satisfying work or to change their field of work; thought that a degree was necessary; were employed and worked full-time in positions as staff nurse, instructors, or community health nurses; and felt the degree was necessary to function in the position they now held.

Similarities and Differences In The Characteristics of the Special Students and Graduates

The findings reported above indicate that a large number of the characteristics were similar for the two groups. The findings for age, sex, number of children, mean scores on R.N. exams, type of basic program, year of graduation from basic program, and employment status were similar for the two groups. One similarity in the findings was of particular note. The special students expected the degree would allow them to obtain more satisfying work or change their field of work. The graduates indicated that for them indeed this was so.

Differences in the frequency distribution of findings for the two groups existed with regard to other characteristics. These differences were as follows:

- More special students than graduates were married. One could speculate about the relationship of the state of singleness and obtaining a degree in preparation for a life with a career focus.
- 2. More of the special students, 61%, thought their basic program had effectively prepared them to function in the position they now held than did the graduates, in retrospect, 48%. One suspects that the graduates after completing the degree appreciated how much more there was to learn about nursing than the basic program offered.
- 3. More special students, 25%, thought nurses did not need a degree than did the graduates, 3%. Only 17% of the special students believed a degree was necessary while 71% of the graduates felt a degree was required. Apparently after completing the program and resuming work, the graduates were convinced of the need for a degree. This change in belief was perhaps also influenced by the next point of difference.

4.

Most of the special students, 61%, were functioning as staff nurses and most of the graduates, 74% had functioned as staff nurses prior to entering the degree program, while only 16% of the graduates functioned as staff nurses after completing the degree. This change in position could account for the realization of the need for a degree.

Summary of Characteristics of the Special Students and the Graduates

The findings about the selected variable blocks of characteristics: demographic, academic, basic education, Post-R.N. education and nurse career behavior; of the special students and the graduates were analyzed and discussed. The two groups were found to be similar for most of the variables. They were therefore considered to be comparable groups.

Differences appeared with respect to marital status, reported effectiveness of the basic program, and beliefs about the need for a degree. These differences were analyzed and discussed. The differences would appear reasonable when one considers that the graduates have now completed the program and are functioning in the work force as degree nurses.

In the next section the findings which relate to Problem 2 are presented.

Problem 2

Problem 2 was stated as follows:

What are the self-reports of nurses awaiting entry to a Post-R.N. program and those who have graduated from the program of how frequently and how well they perform selected nursing activities?

Special Students' Performance of Nursing Activities

In this section the results of the data analysis are reported and the findings about how frequently and how well the special students report they performed the selected nursing activities are discussed.

Findings

The frequency distribution of the responses of the special students to the questions of how frequently and how well they reported they performed activities in the nursing dimensions of Leadership, Teaching/Collaboration, Planning/Evaluation, IPR/Communications, and Professional Development is shown in Table 4.11. The possible frequency response categories were: never, occasionally, or frequently. The possibly quality of performance response categories were very well, satisfactorily, well, or very well. The findings reported represent the responses of the special students as a group, not individually. The major findings were as follows:

Frequency of Performance

- 1. The mean frequency rating on all except three items indicate that the special students performed the activities in the five dimensions "occasionally" or "more often" (mean > 2.00).
- 2. One Teaching activity: communicate ideas in writing to patients and their families, was performed less often than "occasionally" (mean $\langle 2.00 \rangle$.
- Two Professional Development activities: maintain high performance standards and display a positive attitude, were "frequently" performed (mean = 3.00).

Quality of Performance

- The special students reported they performed all the activities in the five dimensions better than "satisfactorily" (mean > 2.00).
- One Leadership activity: accepting responsibility for the level of care provided by those under your direction, was reported to be performed "well" (mean > 3.00).

of how well Special Students: Frequency of activity performance and se they performed nursing activities in curr

Aable 4.11

	ļ		reque	2	E	XIC	Frequency of Activity Performance	ANCe		ZI	N I I I	IRAN D	10 11	Perceived Quality of ACTIVITY Pertomance	ty rer			
icale Number	19		2°.	R	-	Pct.	, m		i ×		2 16 .	+	-	Pct.	• •	-	×	
eadership 3	3 61.	Give praise and recognition for achievement to those under your direction.	, 0	51	m	52	88	31	2.65	•	8 15	•		2	42 19	8	0 2.97	
39		Delegate responsibility for care based on assessment of perforties of nursing care needs and the abilities and limitations of available health personnel.	2	2	m	<mark>58</mark>	28	33	2. 9	•	2			Ē	R	.	8 N	
22		Guide other health team members - in planning for nursing care.	11	16		5	4	33	2.49	E -	2	S	•	36	39 17	8	2.79	`
R		Accept responsibility for the l level of care provided by those under your direction.	1	53	m	5	3	E	2.71		5 17	60			1 22	8	3.10	
*		Remain open to the suggestions i of those under your direction and use them when appropriate.	0	21	R	55	58	E	2.65	•	6 13	•	•	3 2	36 19	8	2.93	
feaching/ 1 Collaboration	e đe	Teach a patient's family members 4 about the patient's needs.	12 17	11	=	33	47	33	2.39	N	2 15	12	v	9	42 33	3	3.19	
	4 t 4	Teach preventive health measures 4 to patients and their families.	***	15	=	39	42	33	2.33	-	9 12	8	m	25	33 22	8	2.90	
		Identify and use community re- 6 sources in developing a plan of care for a patient and his family.	Ę	2	2	×	6 E	33	2.24 	-	7	•	"	55	33		1 2.75	•

96

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Table 4.11 (continued)

Scale

2.91 2.48 2.93 2.**4** 2.97 2.63 G 2.2 2.59 à -23 5 R 8 8 £ 23 R ì 2 = 2 2 2 1 F Perceived Quality of Activity ¥ 8 E \$ 8 33 1 22 ដ្ដី 2 S 8 22 22 e 4 8 8 ŀ E **6** 8° . . Ξ m ø m m ÷ 8 4 Ë, ص ø 0 di . 'n 2 2 Ξ Ó Ē 2 ż G. 2 N 2 2 2 80 2 ð 2 ~ -4 ~ --2.55 2.55 2.03 2.12 2.33 2.42 1.76 <u>1</u>2 X 4 Frequency of Activity Performance* z 2 33 g 8 33 S 33. S ŝ 28 Ś 2 20 22 24 3 1 2 ct. • \$. 36 20 3 33 6 Ξ m ຄ \sim 1 <u>ن</u>م ø ف 39 2 Ż Ξ = = 1 9 ń ø Ξ 2 2 σ 35 œ ₽∾ 14 13 É 7 33 6 1 11 · · • 8 <u>___</u> 'n ŝ ທ່ ~ e.g., age of patient, educa-tional background, and sensory the understanding or a patient and his family. Communicate facts, ideas, and professional opinions in writing to patients and their Adapt teaching methods and materials to the understand of the particular audience: Develop innovative methods and materials for teaching patients. within your health care in developing a plan of care Use teaching aids and re-source materials in teach-Encourage the family to participate in the care of the patient. identify and use resources Promote the use of inter-disciplinary resource Plan for integration of patient needs with family needs. ing patients and their families. Activity deprivations. amilies. persons. Item 33 2 2 SS = 26 27 33 e, 4

, 2.81 2.57 3.10 3.30 2.3 2.58 8.8 3.06 2.2 30 2.63 · |× × Ħ 8 E 8 Ē R 2 ន Perceived Quality of Activity Perfor Ś 6 80 ŝ 11 11 ŝ = 22 \$ **36** ŝ R 8 m ¥ \$ õ 24 2 31 6 Pct. z 25 5 せん 8 5 25 E. 2 Ŷ. 1 4 'n 8 ف m Q m m 1 m ż ŀ m ò σ œ 2 Q ~ ð 16 -÷ 2. E Z 5 5 9 ŝ Ħ 15 8 Ξ 1 15 S ~ 2 o, σ Q Ţ Ĩ ÷.... 3 2 ı m . 2.34 2.70 2.49 2.52 2.39 2.34 2.56 2,56 2.66 2.88 × Frequency of Activity Performance* 33 33 32 32 33 32 ŝ 32 33 33 'n 42 20 89 ŝ e \$ ¥ 62 67 8 Pct. 8 ŝ e 28 Ξ 4 22 53 22 2 y . ----= Ė ŝ ف 80 ŧ Ξ m ŝ 3 12 ຊ ភ 6 E 2 2 2 53 2 2~ 2 2 80 2 2 6 œ ŝ 1 ~ -÷ ~ m Coordinate the plan of nursing care with the medical plan of care. initiate planning and evalua-tion of nursing care with nursing care for the patient. Promote the inclusion of the patient's decisions and desires concerning his care. Identify and include in nur-sing care plans anticipated changes in a patient's Communicate feeling of ac-ceptance of each patient and a concern for the patient's Evaluate results of nursing Identify and include imme-diate patient needs in the plan of nursing care. Contribute to the plan of Develop a plan of nursing Seek assistance when care for a patient. Activity condition. necessary welfare. others. care. ۰., I tem Number · . · Ň ص 2 - 12 œ 3 * Ξ IPR/ Communications æ Planning/ Evaluation Scale

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Table 4.11 (continued)

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9°.9 2.69 3.18 3.38 3.29 2.78 9**8**. 2.08 2.91 3.10 3.07 × Perceived Quality of Activity Performancette R * 33 R R ଛ æ R R Ξ E ۳¢ 2 Ē Ŷ 28 ¥ 1 17 8 ដ Pct. 2 3 g 4 ŝ \$4 \$ 33 47 g ŝ ¥ Ξ 61ò ģ * 25 8 5 1 4 m • ۰, 1 ÷١ -. í. 2 ŝ Ξ 35 Ξ ø ص 2 œ 13 16 16 2 Ξ 2 2 2 1 Ż في 1 23 ່ທ ~ m ŝ σ £ ~ ø ÷ _ . 1 4 . . 4 . 4 2.36 2.85 2.73 2.85 2.91 2.88 2.67 2.61 33 2.82 33 2.67 ł× c*i*., Frequency of Activity Performance 33 33 ŝ ***** 33 33 33 33 33 . 82 3 ਸ਼ੇ 8 8 75 8 5 56 5 67 Pct. 2 53 ž σ œ È 25 1 8 25 25 ŝ . ì e ~ . m 'n £ 28 23 g 29 23 27 20 33 24 ¥.∾ 6 m ò ŝ 4 σ ø <u>۲</u> σ σ _ Contribute to an atmosphere of mutual trust, acceptance, and respect among other health team members. Explain nursing procedures to a patient prior to performing Promote the patient's right of privacy. Verbally communicate facts, ideas, and feeling to other health team members. Help a patient communicate with others. Use learning opportunities for ongoing personal and professional growth. Contribute to productive working relationships with other health team members. Use opportunities for patient teaching when they arise. Use nursing procedures as opportunities for inter-action with patients. ×. Help a patient meet his emotional needs. Activity them. I tem Number 92 1 8 5 28 5 29 30 35 Professional 36 Deve lopment Scale

Table 4.11 (continued)

Table 4.11 (continued)

			u	nper	NCY O	¥	<u>vity</u>	Frequency of Activity Performance*	Unanc.	5 .,	ł	Perc	elved	3	ity of	¥	VILY	Perceived Quality of Activity Performance**	JUBIC	1.
Scale	I tem Number	Activity	-	₽ ∾	e	-	Pct.	m	Z	 × .1	-	~		4	-	Pct. 2	, m t	•	×	×
	37	Display self-direction.	•	4	29	1.1	=	18	33	2.88	•	6	2	=	• . • •	=	8	31	3	3.16
	38	Accept responsibility for own actions.	•	8	30	•	9	8	32	2.94	ı	~ ,	13	15	•	9	8	4	8	3.43
	66	Assume new responsibili- ties within the limits of capabilities.	•	٢	26	1. 	61	72	33	2.79	•	-	16	=	ı	Ξ	\$	31	Ĩ	3.23
	04	Maintain high standards of self-performance.	•	ı	33	•		26	33	3.00	ı		35	21	ı	Ξ	42	R	3	3.26
	Ŧ	Demonstrate self-confidence.	ı	2	31	, 4 ,	9	86	33	2.94	ľ,	7	12	12	• •	19	33	33	31	3.16
	42	Display a generally positive attitude.	•	,	33	•	٠	3 5	33	3.00	• *	m	15	13	•	80	42	8	31	3.32
	64	Demonstrate knowledge of the legal boundaries of nursing.	• •	σ	24	•	52	67	33	2.73	-	80	13	ð	m	22	%	% (31	2.97
	44	Demonstrate knowledge of the ethics of nursing.	•	6	24	•	25	67	33	2.73	•	.2	15	6	•	28	33	52	3.	2.97
\$9	45	Accept and use constructive criticism.	۰. ۱	2	53	•	28	64	33	2.70	× •	0	<u>19</u>	Q	, t	\$2	\$	11	31	2-90
*Frequency Rating Scale	Rating Sc	ale		Qualt	**Quality Rating Scale	ting 5	cale													
1. Never 2. Occas 3. Frequ	Never Occasionally Frequently		-0.04		Not Very Well Satisfactorily Well Very Well	tor1]				•			,	v		•				

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- '3. One Planning activity: identify and include immediate patient needs in the plan of nursing care, was reported to be performed "well" (mean = 3.00).
 - 4. Nine of the twelve IPR/Communication activities were reported to be performed better than "well" (mean > 3.00).
 - Seven of the ten Professional Development activities were reported to be performed better than "well" (mean > 3.00).
 - No activities were reported to be performed "not very well" or "very well" by the special students.
 - 7. The dimensions with the highest reported mean of wellness of activity performance were IPR/Communication and Professional Development (Table 4.12).

Table 4.12

Special Students:

Mean of self-reported quality of performance* of nursing activities

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Activity Scale	N	X
Leadership	33	2.90
Teaching/Collaboration	32	2.79
Planning/Evaluation	33	2.80
IPR/Communication	33	3.10
Professional Development	31	3.14

* Quality of performance rating scale.

1. Not very well

2. Satisfactory

3. Well

4. Very well

Summary of Special Students' Reported Performance of Nursing Activities

The special students performed the activities in the five dimensions of nursing "occasionally" or "more often". In addition, they reported they performed the activities in all the dimensions better than "satisfactorily". The nursing dimensions with the highest reported mean of quality of performance were IPR/Communication and Professional Development.

Graduates' Performance of Nursing Activities

In this section the results of the data analysis are reported and the findings about how frequently and how well the graduates reported they performed the nursing activities are discussed.

Findings

Graduates' Reported Frequency of Activity Performance

The frequency distribution of the responses of the graduates to questions of how frequently they performed nursing activities before entering the degree program and after completing the degree program are shown in Table 4.13. The reported findings represent the responses of the graduates as a group, not individually. The findings were as follows:

1. The graduates reported they performed all activities in the dimensions of Leadership, Teaching/ Collaboration, Planning/Evaluation, and Professional Development more often after completing the degree than before entering the degree program. Table 4.13

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Graduates: Self-report of frequency* of activity performance before entering degree program and after completing degree program.

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Scale	I ten Number	Activity	No. Pct.	- ; ~	×	-	3 • •	Pct.	Pct.	8 m	×
Leadership	e	Give praise and recognition for achievement to those under your direction.	19 11 3 61 3	36 31	2.32	- m	6	$\langle \rangle$	10 19	* 3	30 2.60
	20	Delegate responsibility for care based on assessment of priorities of nursing care needs and the abilities and limitations of available health personnel.		48 31	2.39	~ ~ ~	1) 13	~	5	Ś.	31 2.48
	22	Guide other health team members planning for nursing care.		30	2.13	· -	13 16	m	45	52	30 2.50
	23	Accept responsibility for the care provided by those under 2 1		30	2.43	•	4 22	13	13	11	30 2.60
	34	Remain open to the suggestion those under your direction ar them when appropriate.		30	30 2.37	-	7 22	m .	23 71	3	30_2.70
Teaching/ Collabora- tion	. –	Teach a patient's family members and the patient's needs.	17 TO	42 31	2.39	~	61 01	~	32 61	19	31 2.55
5	4	Teach preventive health measures to the patients and their families 2020	20 8 7 65 26	9 9	2.20	0	6 24	0	6[30 2.B0

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. ı Table 4.13 (Cont'd.)

2.67 2.77 2.45 2.68 2.6 2.8 30 2.63 İm -8 Ξ m E Ħ Ħ 2 2. 11 \$ 3 5 5 2 5 2 33 5 9 3 2 m 0 ~ 2 ~ 23 3 24 35 5 23 5 5 ø ø 4 ~ ŝ ģ 2 Ň m ,.... 0 2 m 2.13 ° 2.13 2.20 **1**8. | 2.07 1.84 30 1.83 1× E E E E Ξ Ξ Before Degree 2 26 23 23 m 2 26 ~ pct: ģ 5 2 2 5 65 61 7 **E** 26 m 23 9 26 2 'n œ m m 2 ~ ~ œ 5 19 20 23 ⊴∾ 6 5 5 22 œ ~ œ -4 Adapt teaching methods and materials to the understanding of the particular audience: e.g., age of patient, educational background, and sensory Encourage the family to participate in Identify and use resources within your Identify and use community resources in developing a plan of care for a patient and his family . Promote the use of interdisciplinary health care agency in developing a plan of care for a patient and his Use teaching aids and resource materials in teaching patients, and their families. Develop innovative methods and materials for teaching patients. the care of the patient. Activity resource persons. deprivations. family. Number Item 25 26 ŝ Ξ ñ 24 27 Collabora-tion (Cont'd) Teaching/ Scale

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Table 4.13 (Cont'd.)

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					a a	ž	Before Degree						Nter Degree	20	8		
Scale	I tem Number	· Activity	1 2		e E	Pct. 1 2	čt. 2 3	, 1	=	~	• ° ₩~	· m	-	Pct. 2	m	•	
Teaching/ 3 Collabora- tion (Cont'd)	32 (b)	Communicate facts, ideas, and pro- fessional opinions in writing to patients and their families.	1	со СО	*	5 2	6 13	53	4 55 26 13 29 1.55 7 14 8 23 45 26 29 2.03	-	=	•••	2	\$. 8	R	2.5
	33	Plan for the integration of patient needs with family needs.	ņ	20	, ,	9 0	10 65 23		30- 2-13		=	8	1 11 18 3 36	Ж.	3	8	30.2.57
Planning/ Evaluation	8	Coordinate the plan of nursing care with the medical plan of care.	-	10	20	с С	3 32 65	E	31 2.61 1 6 24	-	٩	24	m	61 6	11	8	31 2.74
	Q	Identify and include in nursing care plans anticipated changes in a patient's condition.	5 17	11	60	, s 9	16 55 26		30 2.10	~		2	~	2 29	5	8	2,57
	7	Evaluate results of nursing care.		12	11	e E	39 55		30 2.53		m		m	2	3	8	2.8
	0	Develop a plan of nursing care for a patient.	ŝ	•1 11		9	16 35 45		30 2.30	m	٠		2	2	3	8	5.5
	10	Initiate planning and evaluation of nursing care with others.	2	12	80	7 6	8 2(68 26 31 2.19 1		2	2	m	ĸ	3	ä	5.61
1	12	Identify and include immediate patient needs in the plan of nursing care.	2	5	16	4	42 52	52 31	31 2.45 -1	•	23	2	m	1	8	E.	CTT-2 1E 06 1
•	IE	Contribute to the plan of nursing care for the patient.	0	13	17	•	5 2	Ř	0 13 17 0 42 55 30 2.57 1	-	Ś	5 24	m	2	2	8	30 2.77

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I tem Number		Activity	Z	2 %		Pct.	Before Degree Pct. 3 1 2 3	2	I×		S S S S S S S S S S S S S S S S S S S	Π N N	After	Degree	မ္မ က	2	
8	Promote the decisions a care.	Promote the inclusion of the patient's decisions and desires concerning his care.	0 20	6		0 65	29	29	2.31	0	8	27 -	0	7 8	87	29 2.93	
4 6	Communicate a feel each patient and a patient's welfare.	Communicate a feeling of acceptance of each patient and a concern for the patient's welfare.	0	4 27	0	3	81	31	2.87	0	•0	58	0	10 9	06	31 2.90-	ę
15	Seek assisi	Seek assistance when necessary.	~	6 22	1	19	1	30	2.67	0	0	51	0	29 6	89	30 2.70	0
]6	Help a patiothers.	Help a patient communicate with others.	3 3 3	15 12	10	48	39	30	2.30	N	2	38	~	32 5	28	30 2.53	, E
1	Verbally co and feeling members.	Verbally communicate facts, ideas, and feeling to other health team members.	0	6 25	•	. 19		3	2.81	•	S	56	0	16 8	8	31 2.84	ر ۲
] 8	Promote the privacy.	Promote the patient's right to privacy.	-	7 23	°,	1 23	74	31	2.71	్ం	8	22	0	26 7	1	30 2.73	e E
6	Contribute trust, acco other healt	Contribute to an atmosphere of mutual trust, acceptance and respect among other health team members.	10	12 ¹ .19	0	36	6		2.61	0	ø	25	. 0	19 8	8	31 2.81	
21	Explain nun patient pri	Explain nursing procedures to a patient prior to performing them.	-	6 24	с С	19	17	31	2.74		œ	22	m	26 7	2	31 2.68	80
28	Use nursing tunities fo patients.	Use nursing procedures as oppor- tunities for interaction with patients.	_	4 25	m	<u> </u>	8	30	2.80		σ	20		29 6	50	30 2.63	ñ

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					B	fore	Before Degree	9					After Degree	ă	ree			
I Scale N	I tem Number	Activity	- 12 - 24 	No. 2	3	1 Pc	Pct. 2_3		×		No. 2	•		Pct. 2	3	Z	×	
IPR/ Communica- tions	53	Contribute to productive working relationships with other health team members.	0	14	16	0	45 52	30	0 2.53	3	8	22	0	26	7	30	2.73	•
(cour a)	30	Help a patient meet his emotional needs.	0	14 16	16	0	45 52	5 30	0 2.53	Э	7	5]	m	23	68	29	2.69	
	35	Use opportunities for patient teaching when they arise.	0	13	18	4	42 58	8 3]	1 2.58	8	5	26	0	16	84		2.84	
Professional Development	36	Use learning opportunities for ongoing personal and professional growth.	-	13	11	ي 4	42 55	18	1 2.52	2 0	4	27) 0	13	87	31	2.87	•
	37	Display self-direction.	0	13	18	4	42 58	33	1 2.58	8	0	29		1	94	្ត្រ	2.94	
	38	Accept responsibility for own actions.	0	5	27	0	7 87	7 29	9 2.93	. 0 	0	29	0	0	94	29	3.00	•
	39	Assume new responsibilities within the limits of capabilities.	0	œ	23	0	26 74	1 31	1 2.74	• • •	-	30	0	e	97		2.97	
	40	Maintain high standards of self- performance.	10	т т	28	· - 0	10 90	3	1 2.90	0	2	29	. 0	.	94	3	2.94	1
•4	41	Demonstrate self-confidence.	0	14	17	0	45 55	31	1 2.55	5	-	30	0	.	97	3]	2.97	
	42	Display a generally positive attitude.	0	8	23	0 0	26 74	31	1 2.74	4	-	30	0	ŝ	61	3]	2.97	
	43	Demonstrate knowledge of the legal	Ľ	<u> </u>	ų	י י	; ;	ç	s s	•	:	÷	ء 1	•			. 1	

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- 2. The graduates reported they performed most activities in the dimension of IPR/Communications more often after completing the degree than before entering the degree program. Two activities: explain procedures to patients prior to performing them, and use nursing procedures as an opportunity for interaction with patients were performed slightly more often before entering the degree.
- The graduates performed most activities "occasionally" or more often before entering the degree program (mean > 2.00).
- 4. Four Teaching/Collaboration activities were performed less often than "occasionally" before entering the degree program (mean < 2.00). These activities were: identify and use community resources in developing a plan of care for a patient and family; develop innovative methods and materials for teaching patients; use teaching aids and resource materials in teaching; and communicate facts, ideas, and professional opinions in writing to patients and their families.
- The graduates performed all the activities "occasionally" or more often after completing the degree program (mean > 2.00).

<u>Summary of Graduates' Reported Frequency of Performance of</u> Nursing Activities

The graduates performed most of the activities in the selected dimensions of nursing "occasionally" or more often both before entering the degree program and after completing the degree program. In addition, they performed most of the activities more often after completing the degree program than they performed the same activities before entering the degree program.

Graduates' Reported Quality of Activity Performance

The frequency distribution of the responses of the graduates to questions of how well they performed nursing activities before entering the degree program are shown in Table 4.14. The reported findings represent the responses of the graduates as a group, not individually. The findings were as follows:

 The graduates reported they performed all activities in the nursing dimensions of Leadership, Planning/Evaluation, IPR/Communication, and Professional Development better than "satisfactorily" (mean > 2.00).

- A number of activities in the dimensions of IPR/Communication and Professional Development were reported to have been performed better than "well" (mean > 3.00) before entering the degree program.
- 3. Three activities in the dimension of Leaching/Collaboration were reported to have been performed less than "satisfactorily" (mean < 2.00) before entering the degree program. These activities were: identify and use community resources in developing a plan of care; develop innovative methods and materials for teaching patients; and communicate facts, ideas, and professional opinions in writing to patients and their families.
- The graduates reported they performed most activities in the nursing dimensions better than "well" (mean > 3.00) after completing the degree program.
- 5. All activities in the dimension of Leadership were reported to be performed better than "well" (mean > 3.00) after completing the degree program.
- 6. Two activities in the dimension of Teaching/ Collaboration were reported to be performed less than "well" (mean ∠ 3.00) after completing the degree program. These activities were: develop innovative methods and materials for teaching patients and communicate facts, ideas, and professional opinions in writing to patients and

Table 4.14

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Graduates: Distribution of self-reports of how well they perform nursing activities before entering degree program and after completing degree program.

						Befo	e e	Before Degree*								-1	After Degree*	Deg	e.					4	·
Scale	Number	Activity	-	2 No.	m	4	-	Pct. 2 3	*	2	l× .	-	2		. ▼ ∦ ¹		ا بر بر در	Pct.	m	-	.// #	[= 1, 3]/		· ·	
Leadership	e	Give praise and recognition for achievement to those under your direction.	•	0 14 11		ŝ	.0	45 36	5 16	30	36 16 30 2.70 0	0	N	18	2	-	0	۲. ۲	83	32	8	3.27		•	
	50	Delegate responsibility for care based on assessment of priorities of nursing care needs and the abilities and limitations of available health personnel.	∼.	5	2	ы	6	т N	32 39 16	53	29 2.69 0	0		S	2		0	29	87	33	R	3.17			
A 1	22	Guide other health team members in planning for nursing care.	~	9 15	14 - 14 T	2	7 2	7 29 48	8		28 2.61	-	vo	15		0 · 8	1.1	61	€ \$	56	52	3.07			
	23	Accept responsibility for the level of care provided by those under your direction.	-	ف	4	~	E .	19 45	5 23	28	28 2.96 1	9	~	35	2		M	•	8 9	32	58	3.21	•	27. ⁵	•
	34	Remain open to the suggestions of those under your direction and use them when appropriate.	4	۵	1	4	- /	С. ,	5 13	28	13 19 45 13 28 2.64	•	۳`	*	3 14 - 12		0	2	4 2	e Se	8	29 3.31			
Teaching/ Collaboration		Teach a patient's family members 2 14 about the patient's needs.	~	4	Ξ	4	7 4	5 36	5 13	7 45 36 13 31	2.55	r* س	-	30	20		0	ີ. ເຕັນ - 3	65	R	8	3.27			
	4	Teach preventive health measures 4 9 to patients and their families.	4	•	4	m m	13 2	9 4 C	29 45 10		30 2.53 0	о Е	0	11	13		•	35	•	42	8	30 3.43	· ·		•
	S	Identify and use community re- sources in developing a plan of care for a patient and his family.	н н		Ś	~	36 36	6 16	· · · · · · · · · · · · · · · · · · ·	53	1.93	с м	m	13	13 12		e E	9	4	Я.	8	3.24			

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cont	Pct. 2 3	28 26	58 13	48 26	36 29	39 45	45 32	27 1	32 3
Table 4.14 (continued)	Before Degree ⁴ 4 1 2 3	0	26 5	13	53	7 3	13 4	29 2	6 J
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•		thods and inderstanding audience: ent, educa- and sensory	methods teaching	inter- ce	and re- in teach- their	ily to e care of	resources h care in of care his family.	, ideas, and ions in ts and their	ion of h famaily
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	Activity	cula pat	ovati Is fo	use / res	and and and	in fa	d use heal t an	fact l opi patie	tegra ds wi
	×	partion tion	inn eria S.	the	ching mater fent:	ge ti pate ient	y an your ing atiel	cáte iona to s.	r in Dee
		Adapt teaching met materials to the u of the particular e.g., age of patie tional background, deprivations.	Develop innovative and materials for patients.	Promote the use of ini disciplinary resource persons.	Use teaching aids source materials ing patients and families.	Encourage the fami participate in the the patient.	Identify and use resources within your health care in developing a plan of care for a patient and his fami	Communicate facts, professional opini writing to patient families.	Plan for integration of patient needs with family needs
		dere of a A	éšá	£ 5 g	S S E E	÷ s č	4 4 9 0	O L L	Ed
	litem Number	_	13	54	. 25	26	27	33	33
	#2		· -		N		~		
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Table 4.14 (continued)

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Scale Number Planning/ 2 Evaluation 6 7	r Activity,		N.																	1	×
Flamning/ 2 Evaluation 6 7		-	₽ ∾.	, m	4	-	Pct.		-	× _	· -	ŝ	₽, -	4 1 2 m	· .	-	Pct.	m	•	ic.	
9 '~	Coordinate the plan of nursing care with the medical plan of care.	m	5	21		10 29	6. 6	23	31	2.74		"	ž	1		0	9	45	42	8	3.33
<i>۲</i>	Identify and include in nur- sing care plans anticipated changes in a patient's condition.	~	Ξ.	13	_	7 36	6 42	m,	27	2.48	~	.	50	E .	_	-	E	65	2	28	68
	Evaluate results of nursing care.	'n	10	. 51	_	10 32	2 4 8	m	29	2.48	8	<u>, v</u>].	198 1	80	•	0	5	- 28	56	58	3.21
6	Develop a plan of nursing care for a patient.	S	8	<u>.</u>	2	16 26	42	~	28	2.43	а Г С	~ m	11			е П	2	55 1	6[51	3.04
9	Initiate planning and evalua- tion of nursing care with others.	2	. 6	е С	9 I 6	e 52	19	10	30	2.23	3	9	J 6	~		9 J9		23 23	. "	8	2.97
2.	Identify and include imme- diate patient needs in the plan of nursing care.	-	6	6		3 29	53	29	28	2.93	0	8	15	12	0	_		8 1 1		8	3.35
31	Contribute to the plan of nursing care for the patient.		10 14	<u>ہ</u> ۔	•	3 32	45	16	30	2.77	0	e	18	20	0	. 9	88	8 26	· '	R.	3.17
IPR/ 8 Communications	Promote the inclusion of the patient's decisions and desires concerning his care.	4	13 12	2	13	42	36	e	30	2.33	0	2	13	5	0		4	2 8		R	3.43
4	Communicate feeling of ac- ceptance of each patient and a concern for the patient's welfare.		5 15	2 10	ŝ	16	48	32	31	3.10	0	2	1	15	0		\$	8 4	1999 - A. 1999 -	E	3.42
51.	Seek assistance when necessary.	m.	5 12	0(2	5	16	36	32	30	30 ` 2.97	0	, n	13	12	. •	16	45	- 6E		R	3.23

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3.26 2.96 3.30 3.43 3.23 3.28 3.32 3.23 3.10 3.48 × 8 æ Ξ ន 5 8 2 ନ୍ଥ 2 E Ξ . 5 33 33 66 Ŷ ŝ 8 5 99 ŝ After Degree m ¥ 8 5 ÷ \$ ¥ ¥ 65 55 8 Pct. **5**6 2 m 16 ~ E 13 2 ~ m o 0 0 0 0 0 ò 0 0 m ~ 12 2 12 3 2 و 2 8 Ξ 5 m £ 6 * 2 33 2 8 Ξ \$ 17 ~ œ 4 --ŝ ~ _ e ~ 0 0 0 0 0 0 0 0 0 2.90] 2.64 3.10 3.00 3.20 2.87 2.71 2.87 2.87 2.73 1~ 83 ຣ E g g 5 z ເຄ 29 8 ຄ . 50 23 4 **9**, 19 6 66 26 16 2 ñ 66 n 5 52 ŝ 22 42 55 83 \$ 36 Before Degree* Pct. 42 9 È 26 6 23 16 32 32 42 m 'n 7 2 m 0 0 e ò m 0 • ŝ ~ Q ŝ Q 12 æ ~ • σ m σ 9 9 21 20 9 Ξ 1 18 3 ż ~ ŝ 1 10 13 4 œ ø ŝ ~ 2 £ _ 'n 0 -0 0 0 _ ١, Contribute to an atmosphere of mutual trust, acceptance, and respect among other health team members. Explain nursing procedures to a patient prior to performing them. Verbally communicate facts, ideas, and feeling to other health team members. Promote the patient's right of privacy. Help a patient communicate with others. Contribute to productive working relationships with other health team members. Use opportunities for patient teaching when they arise. Use learning opportunities for ongoing personal and professional growth. Use nursing procedures as opportunities for inter-action with patients. Help a patient meet his emotional needs. Activity I tem Number 2 È 8 ഉ 28 53 35 Professional 36 Development 5 g Scale

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Table 4.14 (continued)

						<u></u>	Before Degree*	50	.								ž	Š	AI LEL DEGREE			
Scale	I tem' Number	Activity	-	. [#] ∼		4		S SC	Pct.	4	2	×	_	2	3. E	4	-	Pct. 2	т. М	•	2	×
	37	Display self-direction.	-	₽	2	8	.	32	39	56	E	2.87	0	2	35	×	0	~	\$	45	31	9 5.5
• •	38	Accept responsibility for own actions.	0	2	21	16	0	1	39	52	30	3.47	0	0	0	8	Ø	0	32	65	8	3.67
	39	Assume new responsibili- ties within the limits of capabilities.	0	0.0	11	14	0	6 [36	4.		3.26	0	-	12	8	•	m .	3 5 39	8	31	3.55
	04	Maintain high standards of self-performance.	0	ŝ	12	Ξ	0	0 16	48	36	31	3.19	o _, ,	m j	12	16	Ο.	01	39	23	3]	3.42
	14	Demonstrate self-confidence.	0	Ē	I	6	•	36	36	28	31	2.94	0	N	15	14	, o ,	1	48	45	E	3.39
	42	Display a generally positive attitude.	8	ي. د	13	Ξ	~ .	. 16	42	36	31	3.07	0	-	1	61	•	n '	36	i9 ,	31	3.58
: • .	64	Demonstrate knowledge of the legal boundaries of nursing.	~	14	9	2	23	45	61	٢	29	2.10	~	60	15	₽ 1	2	26	8	13	£	2.72
	44	Demonstrate knowledge of the ethics of nursing.	-	13	13	4	m	42	42	13	3J	2.65	0	~	20	6	9	1	65	۲	ب ع	3.23
	45	Accept and use constructive criticism.	2 2	~	15	4	91.	53	48	13	31	2,58	•	9	20	Ś	0	51	65	92	31	2.97

Table 4.14 (continued) •

*Quality Rating Scale

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their families. These two activities were also rated lower by the graduates before entering the degree program.

- 7. Two activities in the dimension of Planning/ Evaluation were reported to be performed less than "well" (mean & 3.00) after completing the degree program. These activities were: identify and include in the nursing care plans anticipated changes in a patient's condition and initiate planning and evaluation of nursing care with others.
- 8. One activity in the dimension of IPR/Communication was reported to be performed less than "well" (mean ≤ 3.00) after completing the degree program. This activity was: help a patient communicate with others.
- 9. Two activities in dimension of Professional Development were reported to be performed less than "well" (mean < 3.00) after completing the degree program. These activities were: demonstrate knowledge of the legal boundaries of nursing and accept and use constructive criticism.
- 10. The graduates reported they performed all the activities of all the nursing dimensions better after completing the degree program than they performed the activities before entering the degree program.
- 11. The dimensions with the highest mean of reported quality of activity performance before entering the degree program were Professional Development and IPR/Communication (Table 4.15).
- 12. The dimensions with the highest mean of reported quality of activity performance after completing the degree program were Professional Development and IPR/Communication (Table 4.15).
- 13. The dimensions with the greatest difference between reported performance before entering the degree program and after completing the degree program as indicated by the t-values in Table 4.16 were Teaching/Collaboration, IPR/Communications, and Professional Development.

Table 4.15

Mean of reported quality of performance* of nursing activities Graduates:

	Activity Scale	Before	Perf Degree	ormance After Deg	ree
		N	X	N N	
<u> </u>				ر می ر. چور	
•	Leadership	30	2.72	30 3.	19
	Teaching/Collaboration	31	2.28	31 3.	12
•	Planning/Evaluation	31	2.59	31 3.	15.
	IPR/Communication	31	2.86	81 3.	26
•	Professional Development	31	2.90	31 3.	34
	$P_{\rm eff} = P_{\rm eff}$. 0	A CARLER OF	

* Quality of performance rating scale.
1. Not very well
2. Satisfactory
3. Well

. .

- 4. Very well

Table 4.16

<u>Graduates</u>:

: Difference in reported performance* of nursing activities

	Activity Scale	<u>Pe</u> Before Degree	After Degree	t
		X	X	
	Leadership	2.72	3.19	-4.44
	Teaching/Collaboration	2.28	3.12	-8.09
1 - 1	Planning/Evaluation	2.59	3.15	-4.72
, I	IPR/Communication	2.86	3.26	-6.82
	Professional, Development	2.90	3.34	-6.70

* Quality of performance rating scale.

- 1. Not very well
- 2. Satisfactory
- 3. Well
- 4. Very well

Summary of Graduates' Reported Quality of Performance of Nursing Activities.

The graduates of the post-R.N. program reported they performed all the activities in the five nursing dimensions better after completing the degree than they did before entering the degree program. The nursing dimensions in which the graduates reported they performed best, both before entering the degree program and after completing the degree program, were IPR/Communications and Professional Development. The nursing dimensions in which the graduates showed the most improvement, after completing the degree program, were Teaching/Collaboration, IPR/Communications and Professional Development.

<u>Similarities and Differences in the Reports of the Special Students and the Graduates of How Frequently and How Well They Perform Nursing Activities</u>

The findings reported above indicate a number of similarities between the self-reports of the special students and the graduates before entering the degree program about how frequently they performed nursing activities. Both groups performed most of the activities "occasionally" or more often. Again, this finding indicates the two groups were similar for purposes of comparison.

Some slight differences did exist. The graduates indicated more Teaching/Collaboration activities that were performed less often than "occasionally" than did the special students. This could be the result of perceptions in retrospect.

The graduates indicated that they performed all the activities in all the nursing dimensions more often after completing the degree program than they performed those activities before entering the degree program. One assumes this change was influenced somewhat by the program itself. Another influencing factor may be that most of the graduates changed positions after obtaining the degree. The new position may demand that these activities be performed more often. One

must also be aware of the retrospective influence. The graduates could now be more aware of some activities which they had previously performed infrequently.

Some interesting findings emerged with respect to the reports of the special students and the graduates of how well they performed the nursing activities. The special students reported they performed all the activities better than "satisfactorily". They reported a number of activities (18 of the 45) to be performed better than "well". These activities were mostly in the dimensions of IPR/Communications and Professional Development. In contrast, the graduates report of their performance before entering the degree program indicated they performed only 8 of 45 activities better than well. These activities were also in the dimensions of IPR/Communications and Professional Development. However, the graduates indicated three activities in the dimension of Teaching/Collaboration which they did not perform "satisfactorily" before entering the degree program. A pattern of awareness about frequency and quality of performance of Teaching/Collaboration activities begins to emerge. The same two activities were reported as being performed less frequently and less well by the graduates both before entering the degree program and after graduation. These items related to the use of innovative teaching methods, and communicating in writing to patients and families.

The reports of the graduates after completing the degree program of how well they performed the activities indicated an improvement in the performance of all the activities. Some activities still were reported to be performed less than "well". These items related to: the use of innovative teaching methods; communicate in writing to patients and families; include anticipated changes in care plans, initiate planning and evaluation of care plans with others; assist patient to communicate with others; knowledge of legal aspects of nursing; and use of constructive criticism. Again, the graduates could be indicating, in retrospect, an increased awareness of how much better they could have performed these activities before entering the degree program, and also increased expectations of self-performance.

Summary of Reported Performance of Nursing Activities by Special Students and Graduates

The findings about how frequently and how well the special students and the graduates reported they performed selected activities in the nursing dimensions of Leadership, Teaching/Collaboration, Planning/Evaluation, IPR/Communications, and Professional Development were analyzed and discussed.

Both groups reported they performed most activities more often than "occasionally". Both groups reported they performed most activities better than "satisfactorily". The graduates reported they performed the activities better after completing the degree than they had performed the activities before entering the degree program.

In the next section the question of "how much better" one group reported their performance to be before they entered the degree program than the other group is addressed.

Problem 3

Problem 3 was stated as follows:

Are there statistically significant differences in the self-reports of how well they perform selected nursing activities between nurses awaiting entry to a Post-R.N. program and graduates before they entered the program?

Significant Differences Between the Self-Reports of Nursing Activity Performance of the Special Students and Graduates Before Entering the Degree Program

In this section the results of the data analysis are reported and the findings about the reported differences of activity performance between the special students and the gradautes before entering the degree program are discussed.

Findings

The t-test comparison of responses of the special students and the graduates before entering the degree program to questions of how well they performed the nursing activities related to Leadership, Teaching/Collaboration, Planning/Evaluation, IPR/Communication, and Professional Development is shown in Table 4.17a. The major findings were as follows:

 No statistically significant difference existed between the special students and the graduates before entering the degree program in the performance of activities in the nursing dimensions of Leadership, Planning/Evaluation, IPR/Communications, and Professional Development.

Table 4.17a

Comparison of self-reports of performance on activity scales of special students in current job and graduates before entering the program.

	Special Students N X sd		12.5				
33 33		dents sd	Gradua	Graduates Before N X sd	sd	t df	f
3 3		2.90 0.58	30	2.72 0.68	0.68	-1. J.8 6	1.18 61 0.241
33	2.79 0.71	0.71	Э	2.28 0.61	0.61	-3.02 61	1 0.004*
	2.80 0.68	0.68	3	2.59 0.66	0.66	-1.26 6	-1.26 62 0.213
	3.10 0.52	0.52	S.	2.86	2.86 0.50	-1.89 62	2 0-063
Professional Development 31	3.14 0.57	0.57	31	2.90	2.90 0.56	+	-1.69 60 0.096

The items on all the scales had a maximum rating of 4 and a minimum rating of 1.

*t-test p < .01</pre>



 The two groups differed significantly in the reported performance of Teaching/Collaboration activities. The special students reported they performed these activities significantly better than did the graduates before entering the degree program.

Discussion of findings

The two groups reported similar performance ratings on all but one nursing dimension, that being Teaching/Collaboration. It is quite possible that two factors could account for the difference. One, the graduates were responding from a retrospective position. Two, the graduates realized, after completing the degree, how much better they now perform the activities in the dimension of Teaching/Collaboration (as indicated in Table 4.16).

Summary

There was a statistically significant difference in the self-reports of how well the special students and the graduates, before entering the program, performed activities in the nursing dimension of Teaching/Collaboration. The special students reported they performed these activities significantly better than did the graduates before the degree program.

Problem 4

Problem 4 was stated as follows:

Are there statistically significant differences in the self-reports of how well they perform selected nursing activities between nurses awaiting entry to a Post-R.N. program and graduates after completing the program?

Significant Differences Between the Self-Reports of Nursing Activity Performance of the Special Students and Graduates After Completing the Degree Program

In this section the results of the data analysis are reported and the findings about the reported differences of activity performance between the special students and the graduates after completing the program, are discussed.

Findings

The t-test comparison of responses of the graduates is shown in Table 4.17b. The major findings were as follows:

- 1. The graduates, after completing the degree reported they performed activities in the nursing dimensions of leadership, teaching/collaboration, and planning/evaluation significantly better than the special students.
- There was no significant difference between the performance of the two groups in the nursing dimensions of IPR/Communication and Professional Development.

Discussion of findings

The findings indicate that the reported performance of the graduates was significantly better than the reported performance of the special students. This improvement could be attributed to the effects of the program.

Summary

There was a statistically significant difference between the self-reports of the special students and the graduates of how well they
Table 4.17b

Comparison of self-reports of performance on activity scales of special students in current job and graduates after completing the program.

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		Performance	mance					
Activity Scale	Special Students	udents	Grad	Graduates After	After	• .	4	. (
	c	2	=	<		د	5	-
Leadership	33 2.90	2.90 0.58	31	3.20	3.20 0.48	2.22 62	62	0:030*
Teaching/Collaboration	32 2.79	0.71	31	3.12	0.53	2.13	61	0.037*
Planning/Evaluation	33 2.80	0.68	Э.	3.15	0.47	2.41	56-95	56-92 0.019+
IPR/Communications	33 3.10	0.52	Ĵ	3.26	0.46	1.26 62	62	0.211
Professional Development	31 3.14	3.14 0.57	31	3.34	0.44	1.53 60	60	0.132
	•••							

The items on all the scales had a maximum rating of 4 and a minimum rating of 1.

*t-test p < .05

performed activities in the nursing dimensions. The graduates reported

they performed activities in the nursing dimensions of leadership,

teaching/collaboration, and planning/evaluation significantly better

than the special students.

Problem 5

Problem 5 was stated as follows:

Are there statistically significant differences between the self-reports of how well the graduates of a Post R.N. program performed selected nursing activities before entering the Post R.N. program and how well they perform those activities after graduating from the program?

Significant Difference in the Self-Reports of Graduates' Nursing Activity Performance Before Entering the Degree Program and After Completing the Program

In this section the results of data analysis are reported and the findings about the reported differences of activity performance between the graduates before entering the program and after completing the program, are discussed.

Findings

The t-test comparision of responses of the graduates is shown in Table 4.18. The major findings were as follows:

1. The graduates reported they performed activities in all the nursing dimensions of Leadership, Teaching/Collaboration, Planning/Evaluation, IPR/Communication, and Professional Development significantly better after completing the degree than before they entered the degree program.

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Graduates: Comparison of self-reports of performance on activity scales before entering the degree program and after completing the degree program.

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			Performance	e e				
Activity Scale		Before	sd	After	sđ		df	Ð,
Leadership (N = 30)		2.72	0.68	3.19	0.49	-4.44	29	0.00*
Teaching/Collaboration (N = 31)		2.28	0.61	3.12	0.53	-8.09	90	+000*0
Planning/Evaluation (N = 31)	5	2.59	0.66	3.15	0.47	-4.72	30	*000*0
IPR/Communications (N = 31)	5	2.86	0.50	3.26	0.46	-6.82	8	+000-0
Professional Development (N = 31)	2	2.90	0.56	3.34	0.44	-6.70	30	*000*0

The items on all the scales had a maximum rating of 4 and a minimum rating of 1.

*Correlated t-test p∠.001

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- The dimensions of greatest improvement were Teaching/Collaboration followed by IPR/Communications and Professional Development (as indicated by the t-values).
- The dimensions of least improvement were Leadership and Planning/Evaluation (as indicaed by the t-values).
- 4. The two dimensions which the graduates reported they performed best both before and after completing the degree were IPR/Communications and Professional Development (as indicated by the values of the mean).

Discussion of Findings

The findings indicate that for some reason the performance of the graduates improved most, after completing the degree, in the dimensions of Teaching/Collaboration and IRP/Communications. This change could be attributed to the influence of the program. It would be naive to assume that the program accounted for all the improvement. The phenomena of perceptions in retrospect could also have an influence, although the graduates' performance after completing the degree was also significantly improved from that of the special students'. Another factor to be considered is that the impact of the change in position of most of the graduates may have forced them into a situation where they were required to perform those activities at a higher level than they did as a staff nurse.

Summary

There was a statistically significant difference in the self-reports of how well the graduates performed activities in the nursing dimensions of Leadership, Teaching/Collaboration, Planning/Evaluation, IPR/Communications and Professional Development, before entering the degree program and after graduating from the program. The graduates reported they performed activities in all the nursing dimensions significantly better after completing the degree program.

Problem 6

Problem 6 was stated as follows:

Are there statistically significant relationships between the selected characteristics and how well nurses awaiting entry to a Post R.N. program report they perform selected nursing activities?

Significant Relationships Between Selected Characteristics and Reported Performance by the Special Students of Activities in the Selected Nursing Dimensions.

In this section the results of data analysis are reported and the findings about the relationships between selected characteristics and reported performance of the special students are discussed.*

Findings

The t-test and ANOVA comparison of responses of the special students to questions about their characteristics and performance of nursing activities is shown in the summary Table 4.19.

The multiple regression analysis to determine which variables accounted for most of the variance and could be predictors of

Summary Table Special Students: Comparison of reported performance on activity scale by the characteristics

L

		Leadership	Teaching/ Collabogation	Planning/ Evaluation (Professional Development
Age						•
Marital Status		ı	•••••	•	•	
Number of Children		•	•		•	٠
Type of basic nursing program	•		•		•	•
Effective basic program		•	•	•	•	
Plan to complete the degree		•	•	2#	•	. •
Major outcome of a degree		•		•	I	•
Years of Experience	•	1	•	**3		•
Title of position		•		, , , ,		٩
 no significance t test significant p< 0.05 t AUCVA significant p< .01 1 see Table 4.20 2 see Table 4.21 3 see Table 4.22 				T		

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successful nursing performance in the five nursing dimensions, is shown in summary Table 4.23.

Variable Relationships

The t-test and ANOVA comparison of special student characteristics and reported performance is shown in summary Table 4.19. The major findings were as follows:

- 1. No statistically significant differences existed between the special student characteristics of: age, marital status, number of children, type of basic nursing program, expected major outcome of obtaining a degree and title of position; and how well they reported they performed the activities in the five nursing dimensions.
- 2. No statistically significant differences existed between any of the special student characteristics and the nursing dimensions of Leadership and Teaching/Collaboration.
- 3. Table 4.20 indicates a statistically significant difference existed between how effective the special students thought their basic nursing program had been and the performance of Professional Development activities. Those who thought the program had been effective reported they performed the Professional Development activities significantly better than those students who thought the basic program was not effective.
- 4. Table 4.21 indicates a statistically significant difference existed between whether the student planned to complete the degree program and the reported performance of Planning/Evaluation activities. Those who planned to complete the degree reported they performed the Planning/ Evaluation activities significantly better than those students who did not plan to complete the degree.
- 5. Table 4.22 indicates a statistically significant difference existed between how many years of experience the special students had and the reported performance of Planning/Evaluation activities.

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Special Students: Comparison of self-reports of performance on activity scales, by effectiveness of basic program.

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Activity Scale			Effective Basic Progra	Istc Prog			Total	
	e a	-1 >(5 B		3	بہ ر	£	Q
Leadership (N = 33) ~ Performance	<i></i>	2.99		0.59 2.76 0.56	0.56	1.10 31	E	0.279
Teaching/Collaboration (N = 32) Performance		2.92	0.64	2.56	0.79	1.40	30	0.173
Plaining/Evaluation (N = 33) Performance		2.94	0.67	2.55	0.65	1.59	IE	0.123
IPR/Communication (N = 33) Performance			0.51	2.92	0.52	1.53	. E	31 , 0.1 36
Professional Development (N = 31)		3.30	0.50	2.86	0.60	2.20	53	0.036*

The items on all the scales had a maximum rating of 4 and a minimum rating of 1.

*t=test p< 0.05

a a Special Students: Comparison of self-reports of performance on activity scales, by planning to complete the degree..

Activity of the second se			Plannin	g to Comp	Planning to Complete the Degree	Jegree		1
Scale	7 7	<u>Yes</u> Sd	- ×	0 \$d	t	đf	٩.	*1
Leadership (N = 32) Performance	2.98	2.98 0.61	2.55	0.37	1.64	30	30 0.111	1
<pre>Teaching/Collaboration (N = 31) Performance</pre>	2.81	2.81 0.76 2.67 0.57	2.67	0.57	0.44	29	0.661	
Planning/Evaluation (N = 32) Performance	2.91	0.64	2.27	0.70	2.17	R	0.038*	
IPR/Communication (N = 32) Performance	3.16	0.55	2.87 0.42	0.42	1.21	30	0.236	
Professional Development (N = 31)	3.20	0.57	2.92 0.54	0.54	1.09	29	0.284	

G The items on all the scales had a maximum rating of 4 and a minimum rating of 1. N,

*t-test p < 0.05

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Special Students: Comparison of self-reports of performance on activity scales, by years of experience.

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Activity Scale		Group 2 Sears	Grou	Years of Experience Group 2 Group 3 Grou 3-5 years 6-10 years 11+	erou 11+	Group 4			Comparison
	*	۶đ	×	sd		8d	u.	a	
Leadership (N = 33) Performance	2.63	0.34	2.80	2.63 0.34 2.80 0.50 3.06 0.65	3.06	0.65	2.478 0.081	0.081	
Teaching/Collaboration (N = 32) Performance	2.54	0.42	2.49 0.81	0.81	3.07 0.57	0.57	3.176	3.176 0.040	1
Planning/Evaluation (N = 33) Performance	2.53		2.48	0.38 2.48 0.70 3.14 0.56	3.14	0.56	4.505	4.505 0.0103*	Group 🔺 🔪 Group 3
IPR/Communications (N = 33) Performance	2.83	2.83 0.30 2.85 0.49	2.85	0.49	3.41 0.43	0.43	5.901	5.901 0.003*	Group 4 > Group Group 4 > Group
Professional Development (N = 31) Performance	2.96	2.96 0.44	2.99	2.99 0.59	3.35 0.54	0.54	2.006	2.006 0.137	

The items on all the scales had a maximum rating of 4 and a minimum rating of 1.

* ANOVA SCHEFFE PROCEDURE P < 0.01

Those students with more than eleven years of experience reported they performed the Planning/Evaluation activities better than those students who had six to ten years of nursing experience.

6. Table 4.22 indicates a statistically significant difference existed between how many years of experience the special students had and the reported performance of IPR/Communication activities. Those students with more than eleven years of experience reported they performed the IPR/Communication activities better than both those with six to ten years and three to five years of experience.

Discussion of Findings

1.

It cannot be determined from the data why the special students reported that only two of the five nursing dimensions, those of Planning/Evaluation and IPR/Communication, resulted in better performance after years of experience. The data do not indicate that the variable of years of experience results in a reported improvement in performance in all the nursing dimensions.

Performance Variance of the Special Students Accounted for by the Variables.

The variables were subjected to step-wise multiple regression to determine which variables accounted for the variance.in the reported performance of activities in the five nursing dimensions. The results are shown in summary Table 4.23 and the regression analysis appears in Appendix E. The major findings were noted as follows:

> A significant relationship between the variables and nursing performance showed up in only two nursing performance dimensions: Planning/Evaluation and Professional Development.

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Table 4.24 indicates that 42% of the variance in the performance of activities in the nursing dimension of Planning/Evaluation could be accounted for by four variables. These variables were: effectiveness of the basic program, plans to complete a degree, years of nursing experience, and number of children. Table 4.24 indicates that the special students reported they performed the Planning/Evaluation activities significantly better if they:

a. thought the basic program was effective;

b. planned to complete the degree;

c. had more years of nursing experience;

d. had fewer children.

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- 3. Table 4.25 indicates that 38% of the variance reported in the performance of activities in the nursing dimension of Professional Development could be accounted for by three variables. These variables were: effectiveness of basic program, courses are pre-requisites, and the mean R.N. score. Table 4.25 indicates that the special students reported they performed the Professional Development activities significantly better if they:
 - a. thought the basic program was effective;
 - b. were not required to take pre-requisite course
 - in order to enter the degree program;
 - c. scored lower on their R.N. exams.

Discussion of Findings

The proportion of variance which could be accounted for by the variables was significant in two of the five nursing dimensions. An effective basic program accounted for 19% (Table 4.24) of the variance in reports of the performance of the planning activities and 24% (Table 4.25) of the variance in reports of the performance of the Professional Development activities. It seems reasonable that special students who were performing well would think their basic program had been effective.

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<u>Special Students</u>: Proportion of variance * predicted in the self-reports of performance of Planning/Evaluation activities for the selected variables.

Plan to complete degree 0.319 -0.412 Years Nursing Experience 0.359 0.241	Effective Basic Program	. 0.188	-0.4 34
0.359	n to complete degree	.0	
	s Nursing Experience		

* Step-wise multiple regression.

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Simple R 0.365 -0-491 -0.052 0.241 0.352 · 0.377 82 Courses are prerequisite Effective Basic Program • * Step-wise multiple regression. ٩ Mean R.N. score Predictor 1

1 p < .05

Table 4.25

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Proportion of variance* predicted in the self-reports of performance of Professional Development activities for the selected variables.

Special Students:

One finding was not so clear. Those special students with a lower mean R.N. score reported they performed better than those with a high mean R.N. score. In an attempt to explain this finding the data were subjected to ANOVA, dividing the R.N. scores into three groups: below 500, between 500 and 599, and over 600. Results revealed that those students scoring 500-599 reported their performance of a number of the activities to be significantly better than those scoring below 500 and better than those scoring over 600.

<u>Summary of Findings About the Significant Relationships Between</u> <u>Selected Characteristics and Reported Performance of Activities in the</u> <u>Nursing Dimensions of the Special Students</u>

A number of significant relationships did appear. Students who thought their basic program had been effective reported significantly better performance of the Professional Development activities. Students who planned to complete their degree reported significantly better performance of the Planning/Evaluation activities. Students who had more than eleven years of nursing experience reported significantly better performance of both the IPR/Communications and the Planning/Evaluation activities.

The variance of performance was accounted for in only two of the nursing dimensions. Four variables accounted for 42% of the variance in the nursing dimension of Planning/Evaluation. These variables were: effectiveness of basic program, plans to complete the degree, years of experience, and number of children. Three variables accounted for 38% of the variance in the nursing dimension of Professional Development. These variables were: effectiveness of the basic program, required pre-requisite courses and the mean R.N. score.

It appears that if the special students thought their basic program had been an effective one, they reported better performance of activities in these two nursing dimensions.

Problem 7

Problem 7 was stated as follows:

Are there statistically significant relationships between the selected characteristics and how well graduates of a Post R.N. program report they perform selected nursing activities?

Significant Relationships Between Selected Characteristics and Reported Performance by the Graduates, of Activities in the Selected Nursing Dimensions

In this section the results of the data analysis are reported and the findings about the relationships between selected characteristics and reported performance of the graduates both before entering the degree program (reported in retrospect) and after completing the program are discussed.

Findings

The findings of the t-test and ANOVA comparison of responses of the graduates to questions about their characteristics and performance of nursing activities are shown in the summary Table 4.26. The findings of the multiple regression analysis to determine which

variables accounted for most of the variance and could be predictors of successful nursing performance in the five nursing dimensions are shown in summary Tables 4.31 and 4.34.

Variable Relationships

The findings of the t-test and ANOVA comparison of the graduate characteristics and reported performance, before entering the degree program and after graduating from the program, are shown in summary Table 4.26. The major findings were as follows:

- No statistically significant differences existed between the graduates characteristics of: age, marital status, number of children, type of basic program, effectiveness of basic program, years of experience, title of position after degree, and obtain job expected after degree; and how well they reported they performed the activities in the five nursing dimensions both before entering the degree program and after graduating from the program.
- No statistically significant differences existed between the graduates characteristics and their reported performance of the activities in the nursing dimensions of Leadership before the degree, Planning/Evaluation before the degree, IPR/Communication both before and after the degree, and Professional Development before the degree.
- 3. Table 4.27 indicates that a statistically significant difference existed between the title of position the graduate held before entering the degree program and how effective they reported they performed Teaching/Collaboration activities, before entering the degree program. Those who held positions other than staff nurse reported they performed significantly better than those who held positions of staff nurse.
- 4. Table 4.28 indicates that a statistically significant difference existed between whether the graduates thought they could function without a degree in the position they held since graduation, and reported performance in both Leadership and

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Summary Table Comparison of reported performance on activity scale before entering the degree program and after graduating from the program, by the characteristics. Graduates:

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	-			Activity Scale	
Characteristics	Leadership Before After	Teaching/ Collaboration Before After	Planning/ Evaluation Before After	IPR/ Communication Before After	Professional Development Before After
Age	1			I	•
Marital Status	•	, I	•	•	•
Number of Children		•	•	•	1
Type of basic program	•	1	•	•	•
Effective basic program	•	•	•	1	•
Years of Experience	•	•		•	•
Title of position before	1	*1	•	•	ŧ
Title of position after Function without a degree	•	. * .	ı, [°]	a 1	*
Effective Post-R.N. program	•	*	3	•	2
Obtained Expected Job After Degree	ee ++4		9	1 1	• •
Major ULLCOME OI a degree					
 no significance t-test significant p< 0.05 ** ANOVA significant p< .01 		1 See Table 4.27 2 See Table 4.28 3 See Table 4.28 4 5.54 Table 4.29		•	

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Graduates: Comparison of self-reports of performance on activity scales before entering degree program, by title of position before entering degree program.

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Activity	•			Title of	Position	Title of Position Before Degree	egree	-
Scale		Staff	Staff Nurse X Sd	A Other	er sd	••	4	, Q
Leadership (N = 30) Performance before		2.65	0.55	2.94	1.01	-0.75		7.13 0.478
Teaching/Collaboration (N = 31) Performance before		2.15	0.55	2.67	0.64	-2.19	29	0.037*
Planning/Evaluation (N = 31) Performance before	· · · · · · · · · · · · · · · · · · ·	2.54	0.57	2.73	0.93	-0.71	29	0.482
IPR/Communication (N = 31) Performance before		2.85	0.46	2.88	0.64	-0.12 29	29	0.906
Professional Development (N = 31) Performance before		2.86	0.51	3.03	0.74	-0.75 29	29	0.461

The items on all the scales had a maximum rating of 4 and a minimum rating of 1.

* t-test p < 0.05

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> Comparison of self-reports of performance on activity scales after completing the degree program, by effective job functioning without degree Graduates:

Scale				sctive J	Effective Job Functioning Without Degree	ning Wit	hout Deg	ž
	· · ·	¥ ₩	<u>Yes</u> sd	2	s Sd	في	đ	e.
Leadership (N = 30) Performance after		2.91	0.51	3.28	0.41	-2.13 28	28	0.042*
Teaching/Collaboration (N = 30) Performance after		2.72	0.53 3.27	3.27	0.45	-2,93	58	0.007**
Planning/Evaluation (N = 30) Performance after		2.92	2.92 0.56	3.22	0.40	-1.64	28	0.113
IPR/Communication (N = 30) Performance after	· ·	3.05	3.05 0.61	3.33	0.38	-1,53 28	·28	0.137
Professional Development (N = 30) Performance after		3.14	0.53	3.40	0.38	-1.55	28	0.133

The items on all the scales had a maximum rating of 4 and a minimum rating of 1. ..

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* t-test, p < 0.05
** t-test, p < 0.01</pre>

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Teaching/Collaboration activities. Those who needed the degree to function in the present position reported they performed the activities of both Leadership and Teaching/Collaboration significantly better than those who felt they did not geed the degree for the present job.

- 5. Table 4.29 indicates that a statistically significant difference existed between how effective the graduates thought the Post R.N. program had been and the reported performance of the Teaching/ Collaboration, Planning/Evaluation, and Professional Development activities. Those who thought the Post R.N. program had effectively prepared them to function in the position they now held reported they performed the Teaching/Collaboration, Planning/ Evaluation and Professional Development activities significantly better than those graduates who thought the program had not prepared them adequately.
- 6. Table 4.30 indicates that a statistically significant difference existed between what the graduates thought were the major outcomes of obtaining the degree and the reported performance of the Leadership, Teaching/Collaboration, and Planning/Evaluation activities. Those graduates who thought the degree had resulted in "more satisfying work" reported they performed the Leadership, Teaching/Collaboration, and Planning/Evaluation activities significantly better than those graduates who had obtained a degree to change their field of work.

In addition, those graduates who obtained a degree for "personal satisfaction" also reported they performed the Planning/Evaluation activities better than those graduates who obtained a degree "to change their field of work".

Discussion of Findings

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a.

Experience in a position other than staff nurse prior to entering the degree program seemed to result in the graduates reporting better performance of Teaching/Collaboration activities in the position they held before entering the degree program. In addition, the possession of a degree seemed important in the performance of the

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Graduates: Comparison of self-reports of performance on activity scales after completing the degree, by effectiveness of the Post-R.N. program.

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9) 3.29 0.31 2.73 0.72 1.85 ation (N = 29) 3.24 0.45 2.65 0.63 2.63 3.71 3 on (N = 29) 3.27 0.36 2.61 0.50 3.71 3 (N = 29) 3.38 0.35 2.83 0.62 2.08 100ment (N = 29) 3.45 0.34 2.94 0.55 2.84 3							6	
ation (N = 29) * 3.24 0.45 2.65 0.63 2.63 2.63 on (N = 29) 3.71 3.00 (N = 29) 3.38 0.35 2.83 0.62 2.08 3.45 0.36 2.94 0.55 2.84 3.000000000000000000000000000000000000	ip (N = 29)			2.73	0.72	1.85	5.49	0.123
on (N = 29) (N = 29) 3.38 0.35 2.83 0.62 2.08 10pment (N = 29) 3.45 0.34 2.94 0.55 2.84 2	//Collaboration (N = 29) ince after			2.65	0.63	2.63	21	0.014*
(N = 29) 3.38 0.35 2.83 0.62 2.08 lopment (N = 29) 3.45 0.34 2.94 0.55 2.84 2	//Evaluation (N = 29) ince after			i Al Maria	050	3.71		0.001**
3.45 0.34 2.94 0.55 2.84	wnication (N = 29) ince after			2.83	0.62	2.08	5.83	0.083
	onal Development $(N = 29)$ ince after				0.55	2.84		***600*0

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Graduates: Comparison of self-reports of performance on activity scales after completing the degree, by major outcome of obtaining a degree.

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Leadership (N = 29) Performance After	3.10	0.17	3.40 0.38	0.38	2.75	2.75 0.48 3.27 0.31	3.27	0.31	4.948	4.948 0.008*	Group 3 > Group 4
Teaching/Collaboration (N = 29) Performance After	2.86	0.38	3.36	0.47	2.76 0.54	0.54	3.30	3.30 0.45	3.221	3.221 0.039**	Group 3 > Group 4
Planning/Evaluation (N = 29) Performance After	3.07	0.15	3.44	3.44 0.38	2.63 0.38 3.24 0.30	0.38	3.24	0.30	9.214	9.214 0.000***	Group 3 > Group Group 5 > Group
IPR/Communications (N = 29) Performance After	3.15	0.44	3.41	0.43	2.94	2.94 0.46 3.39 0.17	3.39	0.17	2.144	2.144 0.120)) ()
Professional Development (N = 29) Performance After	3.30	0.30	3.42	0.43	3.06 0.48 3.47 0.31	0.48	3.47	0.31	1.410	1.410 0.263	

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leadership and Teaching/Collaboration activities in the job held after graduation. The finding that those graduates who thought the Post R.N. program was effective also reported better performance in the activities of Teaching/Collaboration, Planning/Evaluation and Professional Development seems to be a reasonable one. These areas may be the focal areas of the program. The findings about the major outcome of the degree compared with activities of best performance is interesting. It seems that those graduates who completed a degree "to obtain more satisfying work" or for "personal satisfaction" performed significantly better in a number of the nursing dimensions, particularly Leadership, Teaching/Collaboration and Planning/ Evaluation, than those who completed the degree "to change their field of work". This finding is of note for both educators and employers.

Performance Variance of the Graduates, Before Entering the Degree Program, Accounted for by the Variables

The variables were subjected to step-wine multiple regression to determine which variables accounted for the variance in the reported performance of the activities in the five nursing dimensions by the graduates before entering the degree program. The results are shown in the summary Table 4.31. The major findings were as follows:

- A significant relationship between the variables and nursing performance showed up in only two nursing performance dimensions: Teaching/Collaboration and IPR/Communication.
- 2. Table 4.32 indicates that 53% of the variance in the performance of the activities in the nursing dimension of Teaching/Collaboration was accounted for by four variables. These variables were: the



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Graduates: Proportion of variance* predicted in the self-reported performance of Teaching/Collaboration activities before entering the degree program for the selected variables.

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•	Simple R	-0.467	0.432	-0.274	0.323	
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	Predictors	Mean R.N. score	Years of nursing experience	Year of graduation from basic program	Title of position before degree	
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* Step-wise multiple regression. 1 p(.05

mean R.N. score, years of experience, year of graduation from basic program and title of position before the degree. Table 4.32 indicates that the graduates reported they performed the Teaching/Collaboration activities significantly better before entering the degree program if they:

- a. scored lower on their R.N. exams;
- b. had more years of nursing experience;
- c. graduated longer ago from their basic program;
- d. were other than staff nurses before entering the degree program.
- 3. Table 4.33 indicates that 25% of the variance in the performance of activities in the nursing dimension of IPR/Communication was accounted for by one variable. The variable was the mean R.N. score. Table 4.33 indicates that graduates who reported they performed the IPR/Communication activities significantly better before entering the degree program scored lower on their R.N. exams.

Discussion of Findings

The proportion of variance which could be accounted for by the variables was significant in only two of the five nursing dimensions. The mean R.N. score accounted for 22% (Table 4.32) of the variance in the performance of Teaching/Collaboration activities and 25% (Table 4.33) of the variance in the performance of the IPR/Communication activities. Again, the data were subjected to ANOVA and the results were similar to that of the special students. Those graduates scoring between 500-599 reported their performance of a number of the activities to be significantly better than those scoring below 500 and those scoring above 600.



Performance Variance of the Graduate After Graduating from the Degree Program, Accounted for by the Variables

The variables were subjected to step-wise multiple regression to determine which variables accounted for the variance in the reported performance of the activities in the five nursing dimensions by the graduates. The results are shown in the summary Table 4.34. The major findings were as follows:

- 1. A significant relationship between the variables.and nursing performance showed up in four of the five nursing performance dimensions. These dimensions were: Leadership, Teaching/Collaboration, Planning/Evaluation and IPR/Communication.
 - 2. No significant relationship was apparent between the performance of Professional Development activities and any of the variables.
 - 3. Table 4.35 indicates that 53% of the variance in the performance of activities in the nursing dimension of Leadership was accounted for by four variables. These were: effective Post R.N. program, function effectively without a degree, mean R.N. score, and title of position before degree. Table 4.35 indicates that the graduates reported they performed the Leadership activities significantly better after graduating from the program if they:
 - a. thought the Post R.N. program was effective;
 - b. could not function as effectively in their position after graduation without a degree;
 c. scored lower on the R.N. exams;
 - d. functioned as a staff nurse before entering the program.
 - 4. Table 4.36 indicates that 88% of the variance in the performance of activities in the nursing dimension of Teaching/Collaboration was accounted for by ten variables. These were: function effectively without a degree, obtain expected position after degree, title of position after degree, mean R.N. score, G.P.A., type of basic program, title of position before degree, effective Post R.N. program and effective basic program. Table 4.36 indicates that the graduates reported they performed the

	Table 4.34	3	• •
Summary Table Graduates (after graduating from degree program):	Summary Table om degree program):	Nursing Performance Dimensions with a Significant Amount of Variance* Accounted for by the Variables.	P _{er} .
	1		
Activity Scale		Significant Variables	
Leadership		Yes1	
Teaching/Collaboration		Yes2	
Planning/Evaluation		Yes3	
I PR/Communications		Yes4	•
Professional Development		2	
* Step-wise multiple regression.			÷.
Four variables significant pくの05 See Table 4.35			5
² Ten variables significant p< 0.05 See Table 4.36			
<pre>3 Four variables 'significant p< 0.05 See Table 4.37</pre>			k.
<pre>% 4 Thirteen variables significant p< 0.05 % See Table 4.38</pre>			

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Proportion of variance* predicted in the self-reported performance of Leadership activities after completing the degree program for the selected variables. Graduates:

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Effective Post-R.N. program	0.263	Simple R -0.513
Function effectively without a degree	0.394	0.477
Mean R.N. score	0.496	-0.359
Title of position before degree	0.529	-0.208

* Step-wise multiple regression.
1 p<0.05</pre>

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Graduates: Proportion of variance* predicted in the self-reported performance of Teaching/Collaboration activities after completing the degree program for the selected variables.

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Predictors		R2	Simple R
Function effectively without a degree		0.389	0.624
Obtain expected position after degree		0.514	-0.492
Title of position after degree		0.689	0.292
Mean R.N. score		0.714	-0.289
G.P.A.	•	0.739	0.312
Type of basic program	• . • .	0.761	0.012
Years to complete basic program		0.790	-0.086
Title of position before degree		0.818	111.0-
Effective Post-R.N. program	.	0.870	-0.470
Effective basic program		0.880	-0-039

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* Step-wise multiple regression.
1 p(.05

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Teaching/Collaboration activities significantly better after graduating from the program if they:

- a. thought they could not function in their present position without a degree;
- b. obtained the position they expected after graduation;
- c. were functioning in positions other than staff nurse in their present position;
- d. scored low on the R.N. exams;
- e. obtained a high G.P.A.;

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- f. graduated from a two-year college basic program;
- g. took less time to complete the program;
- functioned as a staff nurse before entering the degree program;
- i. thought the Post-R.N. program was effective
- j. thought the basic program was effective.
- Table 4.37 indicates that 53% of the variance in the performance of activities in the nursing dimension of Planning/Evaluation was accounted for by four variables. These were: effective basic program, number of children, mean R.N. score, and type of basic program. Table 4.37 indicates that the graduates reported they performed the Planning/Evaluation activities significantly better after graduating from the program if they:
 - a. thought their Post-R.N. program was effective;
 - b. had few or no children;
 - c. scored low on the R.N. exams;
 - d. graduated from a two-year college basic program.
- 6. Table 4.38 indicates that 98% of the variance in the performance of the activities in the nursing dimension of IPR/Communication was accounted for by thirteen variables. These were: obtained expected position after degree, effective Post R.N. program, mean R.N. score, title of position after degree, years of nursing experience, number of children, year of graduation from basic program, title of position before degree, years to complete the program, type of basic program, effective functioning without a degree, required pre-requisite courses, and effective basic program.

Table 4.38 indicates that the graduates reported they performed the IPR/Communication activities significantly better after graduating from the program if they:

Graduates: Proportion of variance* predicted in the self-reported performance of Planning/Evaluation activities after completing the degree program for the selected variables.

program	
	-0.539
wher of children	-0.449
an R.N. score	-0.178
pe of basic program	0.220

* Step-wise multiple regression. 1 p<0.05

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Propertion of variance⁺ predicted in the self-reported perfermance of IPR/Communication activities after completing the degree + program for the selected variables. Graduates: B,

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Predictors	R2	Simple R	1 1	
Obtain expected position after degree	0.269	-0.519		
Effective Post-R.N. program	0.471	-0.470	å	
Mean R.N. score	0.555	-0-503	9	
Title of position after degree	0-622	0.059		
Years of Nursing experience	0.683	-0-067		
Number of children	0.747	-0.245		
Year of graduation from basic program	0.778	0.092		
Type of position before degree	0.817	-0.215	•	
Years to complete degree	0.876	-0.050		
Type of basic program	116.0	-0.026		
Effective functioning without degree	0.956	0.414		
Courses are prerequisités	0.965	-0.269		
Effective basic program	0.977	-0.131		
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* Step-wise multiple regression. 1 p<0.05

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obtained the position they expected after graduation:

b. thought the Post R.N. program was effective; scored low on the R.N. exams; с.

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- functioned in positions other than staff nurse d.
 - after graduating from the program; had fewer years of nursing experience;
- e. f. had few or no children;

a.

- graduated more recently from the basic program; g. ħ. functioned as a staff nurse before entering the program;
- took less time to complete the degree; , i.
- graduated from a three-year hospital basic J . program.
- thought they could not function without a **k** . degree in their present position.
- 1. were required to take pre-requisite courses;
- thought their basic program had been effective. m.

Discussion of Findings

The proportion of variance which could be accounted for by the variables was significant for four of the five nursing dimensions for the graduates. Only the dimension of Professional Development did not reveal any significant variables. The variable "effective Post R.N. program" was the strongest predictor in two of the five dimensions, accounting for 26% variance in the dimension of Leadership (Table 4.35) and 29% variance in the dimension of Planning/Evaluation (Table 4.37). It appeared as the second strongest predictor in the dimension of IPR/Communications, increasing the variance accounted for from 27% to 47% (Table 4.38). It seems reasonable that graduates who reported they performed well in the nursing dimensions would accredit that success to the Post R.N. program.

It is also to be noted that the variable "functions effectively in present position without a degree" was revealed to be a strong predictor of good performance in two of the nursing dimensions and

appeared significant in a third dimension. This variable was the second strongest predictor of Leadership performance, increasing the variance accounted for from 26% to 39% (Table 4.35), and the strongest predictor of Teaching/Collaboration performance, accounting for 39% of the variance (Table 4.36). The third nursing dimension was IPR/Communcation (Table 4.38). The graduates indicated they required a degree to do their present job.

One variable "mean R.N. score" appeared to be a strong negative predictor of performance in the four nursing dimensions. As previously mentioned, it appeared that the lower the graduates scored on the R.N. exams the better they reported their performance of the activities. Again the data were subjected to ANOVA and the same results appeared. Those graduates who scored 500-599 on the R.N. exams reported they performed significantly better than those who scored both lower and higher. This finding could have a number of implications for a program. One should not underestimate the performance of these 'mid-range scorers' and/or one should observe these performers closely to ascertain if in fact they perform as well as their self-reports indicate. One should also examine the performance of the high scorers on the exams. Do they in fact perform at a lower level or do they have high expectations which result in lower self-ratings of performance?

One other finding was interesting. There appeared to be no correlation between R.N. score and G.P.A. The data were treated with a Pearson's correlation and revealed a low relationship of r=0.30.

The nursing dimensions which revealed the greatest number of significant relationships between performance and the variables were

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Teaching/Collaboration and IPR/Communication; 88% of performance variance was accounted for by the variables in the dimension of Teaching/Collaboration and 98% of performance variance was accounted for by the variables in the dimension of IPR/Communication. Caution must be exercised when explaining these findings. It should not be assumed that no other variables could affect performance. In actual fact, there is quite possibly an overlapping effect of the relationship of some of these variables on performance. Other variables which were not included in this study may have an effect on performance. It was encouraging, however, that four of the dimensions revealed some variables which appeared to be strong predictors for successful performance.

Summary of Findings About the Significant Relationships Between Selected Characteristics and Reported Performance by the Graduates of Activities in the Nursing Dimension

The indings indicated that the graduates were aware of the importance of the degree to their performance of activities in the nursing dimensions of Leadership and Teaching/Collaboration. The graduates who thought the Post R.N. program was effective reported better performance in all five dimensions.

Predictors of successful nursing performance by the graduates after completing the degree were vevealed in four of the nursing dimensions: Leadership, Teaching/Collaboration, Planning/Evaluation, and IPR/Communication:

Summary of Data Analysis and Findings

Characteristics and performance of activities in five nursing dimensions of the special students and the graduates, both before entering the degree program and after graduating from the program, were examined. The two groups displayed similar characteristics indicating the two groups were compatible for comparison purposes.

The two groups differed in their self-reports of performance of the nursing activities. The special students reported they performed better than the graduates before entering the program. This difference was not significant and is best explained by the fact that the graduates were reporting in retrospect. The graduates, after completing the degree reported they performed significantly better than did the special students in the dimensions of Leadership, Teaching and Planning.

The graduates reported they performed all activities significantly better after completing the program than they did before. In the future, to eliminate the retrospective element, it is suggested that the performance measurements be obtained, in a longitudinal study, on the students before they enter the program and again in a follow-up study after graduation.

The data were subjected to multiple regression to determine if any variables revealed themselves as significant predictors of successful performance. Such significant predictors were determined for four of the five nursing dimensions. These were: Leadership, Teaching/Collaboration, Planning/Evaluation and IPR/Communication. The

"the program was effective" and "the strongest variables were: graduates could not function in their present position without a degree", particularly in the dimensions of Leadership, Teaching/ $\langle z \rangle$ Collaboration, and IPR/Communication.

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CHAPTER V

SUMMARY, SCONCLUSIONS AND RECOMMENDATIONS

This chapter includes the summary conclusions and recommendations of the study. In the summary section of the chapter, the purpose, methodology, data analysis and findings are presented. The second section includes the conclusions derived from the findings In the final section, the recommendations of the study find discussed.

Summa

research literature suggests that differences exist in the quality of performance of nursing activities between graduates of diploma and baccalaureate programs. Some evidence **setter** that baccalaureate graduates perform nursing activities better than do diploma graduates. The education and nursing community in Canada generally supports the suggestion that the minimum qualification to enter the practice of nursing be the baccalaureate degree. This suggestion continues to be met with some resistance both within the educational and nursing communities. Nurses who presently possess only a diploma seems particularly resistant to the suggested change. Post-R.N. programs provide one mechanism by which the diploma nurse can obtain the baccalaureate degree.

Purpose

The purpose of this study was to identify selected characteristics of registered nurses awaiting entry to a Post-R.N. baccalaureate program in Western Canada and those who graduated from such a program in 1981 and to compare their performance of activities in the five nursing dimensions of: leadership, teaching, planning, communications and professional development.

Problems

The following research questions were addressed in this study:

1. What are some selected demographic, academic, basic education, Post-R.N. education and nurse career behavior characteristics of nurses awaiting entry to the Post-R.N. Baccalaureate program and graduates of the program?

2. What are the self-reports of nurses awaiting entry to a Post-R.N. program and those who have graduated from the program of how frequently and how well they perform selected nursing activities?

3. Are there statistically significant differences in the self-reports of how well they perform selected nursing activities between nurses awaiting entry to a Post-R.N. program and graduates, before they entered the program?

4. Are there statistically significant differences in the self-reports of how well they perform selected nursing activities between nurses awaiting entry to a Post-R.N. program and graduates after completing the program?

5. Are there statistically significant differences between the self-reports of how well the graduates of a Post-R.N. program performed selected nursing activities before entering the Post-R.N. program and how well they perform those activities after graduating from the program?

6. Are there statistically significant relationships between the selected characteristics and how well the nurses awaiting entry to a Post-R.N. program report they perform selected nursing activities?

7. Are there statistically significant relationships between the selected characteristics and how well graduates of a Post-R.N. program report they perform selected nursing activities?

Methodology

The design of the study was a Static-Group Comparison as described by Gampbell and Stanley (1963). A theoretical approach was designed which described the factors that were considered while conducting this study and the blocking technique (Blalock 1966) that was employed to examine the variables. A questionnaire, based on one developed by Schwirian (1978b), was used to collect the data about the characteristics and reported performance of the two groups of nurses. The nurses were asked to report how frequently and how well they performed 45 activities which comprised five dimensions of nursing performance: leadership, teaching, planning, communications, and professional development.

The questionnaire was tested for reliability and validity using Cronbach's alpha and factor analysis. The reliabilities for the performance dimensions manued from a low of .85 for the leadership subscale to a high of .95 for the teaching subscale.

The questionnaire was mailed to the total population of 1981 graduates (44) and a random sample of nurses awaiting entry to the Post-R.N. program (55). Confidentiality was assured the respondents. Respondents were informed how to locate a copy of the completed study.

Data Analysis

The data obtained from the questionnaire was processed using the Statistical Package for the Social Sciences (Nie et al: 1975). The following analyses were used in this study:

- 1. Factor analysis, oblique rotation, was used to verify Schwirian's constructs.
- 2. Cronbach's alpha was used to measure the reliability of the five nursing dimension scales.
- 3. Frequency and percentage distribution was used to describe the data about the characteristics and performance of the nursing activities of the respondents.
- Pearson's correlation coefficient was used to describe the relationship between respondents' R.N. scores and the G.P.A.

- t-tests and ANOVA were used to examine differences in self-reports of respondents about their performance of nursing activities.
- 6. t-tests and ANOVA were used to examine the relationships between selected characteristics and the respondents reported performance of nursing activities
- Step-wise multiple regression was used to determine which of the variables may be predictors of successful nursing performance.
- 8. Content analysis was used to analyze the open-ended responses.

Findings

Characteristics of Nurses Awaiting Entry to A Post-R.N. Program

The majority of the special students were female, 25 to 29 years of age; married with no children; scored between 500 and 550 on the R.N. exams; graduated from a hospital program in 1970 or later; thought their basic nursing program was an effective one; were taking prerequisite courses for entrance to the Post-R.N. program; planned to complete their degree; thought a degree would result in obtaining more satisfying work or allowing them to change their field of work; thought a degree was not necessary or necessary only in the areas of teaching, supervision or public health; were presently employed; had over six years of experience; and were staff nurses.

Characteristics of Graduates of A Post-R.N. Program

All the responding graduates were female. Most were: 25 - 29 years of age; had no children; scored over 500 on the R.N. exams;

achieved a G.P.A. of over 6.5; graduated from a hospital program in 1970 or later; took prerequisite courses for entrance to the Post-R.N. program; thought their Post-R.N. degree program was an effective one, obtained the position they expected upon completing the degree, thought the degree had allowed them to obtain more satisfying work or to change their field of work; thought that a degree was necessary; were employed and worked full-time positions as staff nurses, instructors, or community health nurses; and felt the degree was necessary to function in the position they now held.

Performance of Nursing Activities by Nurses Awaiting Entry to a Post-R.N. Program and Graduates of the Program

Both groups reported they performed most activities more often than "occasionally". Both groups reported they performed most activities better than "satisfactory". The graduates reported they gerformed the activities better after completing the degree than they had performed the activities before entering the degree program.

Differences In The Performance of Nursing Activities Between Nurses Awaiting Entry to a Post-R.N. Program And Graduates Before They Entered The Program

There was a statistically significant difference in the self-reports of how well the special students and the graduates, before entering the program, performed activities in the nursing dimension of teaching/collaboration. The special students reported they performed these activities significantly better than did the graduates before they entered the degree program.

Differences In The Performance Of Nursing Activities Between Nurses Awaiting Entry To A Post-R.N. Program And Graduates Of The Program

There was a statistically significant difference between the self-reports of the special students and the graduates of how well they performed activities in the nursing dimensions. The graduates reported they performed activities in the nursing dimensions of leadership, teaching/collaboration, and planning/evaluation significantly better than did the special students.

Differences In The Performance of Nursing Activities Between Graduates Before They Entered The Post-R.N. Program And After Graduating From The Program

There was a statistically significant difference in the self-reports of how well the graduates performed activities in the nursing dimensions of leadership, teaching/collaboration, planning/evaluation, IPR/communications and professional development, before entering the degree program and after graduating from the program. The graduates reported they performed activities in all the nursing dimensions significantly better after completing the degree

program.

Relationships Between Characteristics Of Nurses Awaiting Entry To A Post-R.N. Program And Performance

A number of significant relationships did appear. Students who thought their basic program had been effective reported significantly better performance of the professional development activities. Students who planned to complete their degree reported significantly better performance of the planning/evaluation activities. Students who had more than eleven years of nursing experience reported significantly better performance of both the IPR/communications and the planning/evaluation activities.

The variance of performance was accounted for in only two of the nursing dimensions. Four variables accounted for 42% of the variance in the nursing dimension of planning/evaluation. These variables were: effectiveness of basic program, plans to complete the degree, years of experience, and number of children. Three variables accounted for 38% of the variance in the nursing dimension of professional development. These variables were: effectiveness of the basic program, required pre-requisite courses and the mean R.N. score.

It appears that if the special students thought their basic program had been an effective one, they reported better performance of activities in these two nursing dimensions.

Relationships Between Characteristics Of The Graduates and Performance

Experience in a position other than staff nurse prior to entering •

performance of teaching/collaboration activities in the position they held before entering the degree program. In addition, the possession of a degree seemed important in the performance of the leadership and teaching/collaboration activities in the job held after graduation. "The finding that those graduates who thought the post R.N. program was effective also reported better performance in the activites of teaching/collaboration, planning/evaluation and professional development seems to be a reasonable one. These areas may be the focal areas of the program. The findings about the major outcome of the degree compared with activities of best performance is interesting. ₹t seems that those graduates who completed a degree "to obtain more satisfying work" or "for personal satisfaction" performed significantly better in a number of the nursing dimensions, particularly leadership, teaching/collaboration and planning/evaluation, than those who completed the degree "to change their field of work".

The proportion of variance which could be accounted for by the variables was significant in only two of the five nursing dimensions as reported by the graduates before entering the program, in retrospect. The mean R.N. score was the strongest predictor of good performance of

teaching/collaboration and IPR/communication activities. Those graduates scoring between 500-599 reported their performance of a number of the activities to be significantly better than those scoring below 500 and those scoring above 600.

The proportion of variance which could be accounted for by the variables was significant for four of the five nursing dimensions for the graduates after completing the program. Only the dimension of

professional development did not reveal any significant variables. The variable "effective Post R.N. program" was the strongest predictor in two of the five dimensions: leadership and planning/evaluation. It appeared as the second srongest predictor in the the dimension of IPR/communications.

The variable "functions effectively in present position, without a degree" was revealed to be a strong predictor of good performance in two of the nursing dimensions and appeared significant in a third - dimension. This variable was the second strongest predictor of leadership performance, and the strongest predictor of teaching/collaboration performance. The third nursing dimension was IPR/communication.

One variable "mean R.N. score" appeared to be a strong negative predictor of performance in the four nursing dimensions. As previously mentioned, it appeared that the lower the graduates scored on the R.N. exams the better they reported their performance of the activities. The data were subjected to ANOVÅ to explain these results. Those graduates who scored 500-599 on the R.N. exams reported they performed significantly better than those who scored both lower and higher. There appeared to be no correlation between R.N. scores and G.P.A. The data were treated with a Pearson's correlation and revealed a low relationship of r=0.30.

The nursing dimensions which revealed the greatest number of significant relationships between performance and the variables were teaching/collaboration and IPR/communication.

Conclusions

The following conclusions were based on the findings of the study:

1. The program was reportedly effective in improving the performance of the graduates in all the nursing dimensions, particularly in the dimensions of teaching/collaboration, IPR/communication, and professional development.

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2. The graduates reportedly performed activities in the dimensions of leadership, teaching and planning significantly better than the nurses awaiting entry to the program.

3. The graduates reportedly required a degree to function in the positions they held since graduation.

4. Both the special students and the graduates reported their best performance in the dimensions of IPR/communications and professional development. Schwirian (1978b) reported that all nurses in her study rated themselves best at IPR/communication and leadership.

5. The graduates changed position titles after graduation from "staff nurse" to "instructor" or "community health nurse".

6. Predictors of successful nursing performance emerged for four of the five nursing dimensions, those being: leadership, teaching/

collaboration, planning/evaluation, and IPR/communication.

7. The special students expected that obtaining a degree would result in obtaining more satisfying work or changing their field of work. The graduates reported that indeed this was so.

8. The findings of this study are congruent with the findings of other studies. These baccalaureate graduates rated their performance significantly higher on all five nursing dimensions after completing the degree. In addition they rated themselves better than the nurses awaiting entry to the program when performing in the dimensions of leadership, teaching and planning. Schwirian (1978b) reported that the degree nurses rated themselves better in teaching and planning. It is to be emphasized that the graduates in this study were Post-R.N. baccalaureate graduates.

9. The Schwirian performance measuring instrument (with the critical care dimension omitted) was appropriate and reliable for application in this study.

10. The special students were an appropriate comparison group. The characteristics of the special students and the graduates of the program were similar.

This study used Schwirian's instrument (1978b) to measure the performance of Post-R.N. baccalaureate graduates in a follow-up comparative study. The data from this study provided significant findings; however, it is recognized that the study had some limitations in terms of generalizability. The following recommendations should therefore be considered within that context:

Recommendations for Further Studies:

1. Conduct a longitudinal study on the nurses rather than a retrospective study.

2. Conduct further research on the performance of "mid-range" and "high" scorers on exams to examine why "high" scorers rate themselves lower on performance.

3. Conduct further research on the motivation of registered nurses for seeking further education and how the findings may be used in educational and employment settings.

4. Conduct further research to examine how the performance of baccalaureate graduates might be improved beyond the diploma level in the dimensions of communication and professional development.

Recommendations for Administration:

 Recognize program evaluation as an early, on-going and necessary component of program development.

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2. Ensure that program evaluation is carried out.

3. Conduct follow-up interviews of a sample of the 1981 graduates to examine why some of the findings in this study may have occurred.

4. Conduct further studies to investigate what components of this Post-R.N. program contributed to successful performance.

5. Conduct further follow-up studies on future graduates of this Post-R.N. program to validate the pattern of item loading which may indicate the formation of new constructs.

6. Conduct further studies to derive more predictor variables for successful performance particularly in the dimension of professional development.

7. Continue to support the suggestion of a baccalaureate degree as the minimum requirement for entry to practice nursing.



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REGISTERED MURSES MURSING PERFORMANCE QUESTIONNAIRE

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4. Number of Children:	
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Three 2	9
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5 or more 5	
5	
5. From which type of program did you receive your diploma in	
nursing?	
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2 year College Diploma Program	10
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other (prease specify)3	
6. When did you graduate from your initial nursing program?	
Before 19601	
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1505 - 15053	11
1970 - 1974 4	
1975 - 19795	
 What were your scores on the <u>R.N.</u> Exams? Check the range closest to your scores. 	
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350-399 400-449 450-499 500-549 550-599 600-649 650+	
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Surgical Nursing	13
Nursing of children 3	14
Obstetric Nursing 4	15
Psychiatric Nursing 5	16
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Was a different scoring system used? Please specify:6	17
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8. Are you currently employed in nursing?				•
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	2			
9. If you are employed in nursing, which do you w	ork?		Level and the second	
Full-time			19	st d
Part-time	2		, 12	
10. How many years of nursing work experience do j	ou have?			
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11 - 15 years	4			•
16 or, more	5			
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11. What is the title of your current position?				
Staff Nurse	1			
Head Nurse or Assistant Head Nurse				1
the second se	2		- A	
Supervisor -	2 3		21	
Supervisor Instructor	2 3 4		21	
Supervisor Instructor Community Health Nurse	2 		21	
Supervisor Instructor Community Health Nurse Nursing Administration	2 		21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist	2 		21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant	2 3 4 5 6 7 8		21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify)			21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant			21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify)			21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify)			21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 2. Did your basic program effectively prepare you			21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 22. Did your basic program effectively prepare you position and responsibilities you now hold?			21	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 12. Did your basic program effectively prepare you position and responsibilities you now hold? Yes				
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 2. Did your basic program effectively prepare you position and responsibilities you now hold? Yes No			21 22	
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 22. Did your basic program effectively prepare you position and responsibilities you now hold? Yes				
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 12. Did your basic program effectively prepare you position and responsibilities you now hold? Yes No				
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 12. Did your basic program effectively prepare you position and responsibilities you now hold? Yes No				
Supervisor Instructor Community Health Nurse Nursing Administration Clinical Specialist Nurse Consultant Other (please specify) 12. Did your basic program effectively prepare you position and responsibilities you now hold? Yes No				

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- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10			
		Do not write	
13.	Are the courses you are taking as a special student required	in this space	· · · · · · · · · · · · · · · · · · ·
*	prerequisites by the University of Faculty of		
	Nursing, for entrance to the Post-R.N. program?		
	Yes1	23	
	No		
14.	If these courses are not prerequisites for program entrance, will they apply for credit towards your degree?		
		24	
	2		
	ents2		
	· · · · · · · · · · · · · · · · · · ·		
16			
15.	Do you plan to attend university to complete a baccalaureate degree in nursing in the next five years?	3	
	지수는 것 같은 것 같		
		25	
-	No 2	all and a strength of the	•
16.	If you complete a degree what do you believe will be the major outcome? (Choose one reply.)		5 A.
	Improved working conditions		
1	(better hours, days off, etc.)		
	Improved salary2	26	
	Improved salary 2 More challenging or satisfying work 3		
	Opportunity to change field of practice4		
	Personal satisfaction in having a degree		
	Other (please specify)		
	· · · · · · · · · · · · · · · · · · ·		an a
i , *	a na ang ang ang ang ang ang ang ang ang		1
.17.	Nurses hold different beliefs about having a baccalaureate	•	
	degree. What do you believe? (Choose one reply that		
	indicates your <u>strongest</u> belief.)		,
	Professional nurses do not need a degree1		
	The government will soon require all nurses to have a degree2		
	The A.A.R.N. will soon require all nurses to to have a degree	27	
	Only nurses working in teaching, supervision or public health require a degree4		
· · · · · ·	Professional nurses do need a degree5		
	Other (please specify)6		
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Section II - Five Dimension Scale of Nursing Performance 193

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Listed below are a selection of nursing activities which nurses perform.

You are asked to respond to two questions relating to each nursing activity. Using the numbers to the right of each statement, please give an estimate of how <u>frequently</u> you perform each activity and how <u>well</u> you perform each activity in your current job.

To respond, please use the following key.

How often do you perform this activity in your current job?

- 1. never
 - 2. occasionally
- 3. frequently

How well do you perform this activity in your current job?

- 1. not very well
- 2. satisfactorily
- 3. well
- 4. very well

EXAMPLE ONLY

	perfor	often do you m this activity our <u>current</u> job?	perfor	well do yo m this action our <u>current</u>	Do not write in this space	
ACTIVITY	Néver	Ocassionally Frequently	Not very well	Satisfactorily Well	Very well	
1. Change a sterile dressing	1 1	2 3	1	2 3	4	16 - 18
 2. Explain procedures to patient 3. Plan nursing care 	, 1 	2 2 3	1	2 3 2 3	4	20 - 22 24 - 26

		perfo	ofter ofter ofter ofter	is act		perf	ow wel orm th our. <u>cu</u>	ivity	Do not writ in this space	
	ACTIVITY		Never	Occastonally	Frequently	Not very well	Satisfactorily	llavi	Yery well	
1.	Teach a patient's family members about the patient's needs.		١	2	3	٦	2	3	4	33, 35
2.	Coordinate the plan of nursing care with the medical plan of care.		1	2	3	1	2	3	4	37, 39.
3.	Give praise and recognition for achievement to those under your direction.		1	2	3	. 1	2	3	4	41, 43
4.	Teach preventive health measures to patients and their families.		1	2	3	1 7, 1	- 2	3	. 4	45, 47
5″.	Identify and use community resources in developing a plan of care for a patient and his family.			2	3	1.	2	3) 3	4	49, 51
6.	Identify and include in nursing care plans anticipated changes in a patient's condition.		1	2	3	1	2	3	4	53, 55
7.	Evaluate results of nursing care.		1	2	3	1	2	3	4	57, 59
8. ″	Promote the inclusion of the patient's decisions and desires concerning his care.	а с / л. -	1	2	3	1	2	3	- 4	61, 63
9.	Develop a plan of nursing care for a patient.		1	2	3	1	2	3	4	65, 67
10.	Initiate planning and evaluation of nursing care with others.		1	2	3	1	2	3	4	69, 71
11.	Adapt teaching methods and materials to the under- standing of the particular addience: e.g., age of patient, educational background, and sensory deprivations.		1.	2	3) ۱	2	3	4	73, 75
	Identify and include immediate patient needs in the plan of nursing care.		1	2	3	1	2	3	4	77,79
	Develop innovative methods and materials for teaching patients.	•	1	2	3	1	2	3	4	1 5 6, 1
4.	Communicate a feeling of acceptance of each patient and a concern for the patient's welfare.		1	2	3 ·		2	3	4	10, 12

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•

		How <u>often</u> do you perform this active in your <u>current</u> id					ow <u>wel</u> orm th your <u>c</u>	ivity		
ACTIVITY			Nevêr	Occasionally	Frequently	Not very well	Satisfactorily	ue 1 1	Very well	
15. Seek assistance when necessary.			1	2	3	1	2	3	. 4 .	14, 16
16. Help a patient communicate with others	•		1	2	3	1	2	3	4	18, 20
17. Verbally communicate facts, ideas, and other health team members.	feeling to	•	1	2	3	1	2	3	4	22, 24
18. Promote the patient's right to privacy	•	- · ·	1	2	3 -	1	-2	3	4	26, 28
19. Contribute to an atmosphere of mutual acceptance, and respect among other he team members.		•	. 1	2	3	, 1	2	3	. 4	30, 32
20. Delegate responsibility for care based assessment of priorities of nursing ca and the abilities and limitations of a health personnel.	re needs	•	1	2	3	1	, 2 .	3	4	34, 36
21. Explain nursing procedures to a patien to performing them.	t prior	•	1,	2	3	1	2	3	4	38, 40
22. Guide other health team members in pla nursing care.	nning for	⊼اِ • • • • •	1	2	3) 1 5	2	3	4	42, 44
23. Accept responsibility for the level of provided by those under your direction	care		1 	2	3	(1 .)	2	3	4	46, 48
24. Promote the use of interdisciplinary r persons.	esource	0	1	. 2	3	1	2	3	4	50, 52
25. Use teaching aids and resource materia patients and their families.	ls in teaching		່ ງ ແ	2	3	1	2	3	4	54, 56
26. Encourage the family to participate in the patient.	the care of	, , ,	1	2	3	1.	2	3	4	58, 60
27. Identify and use resources within your care agency in developing a plan of ca patient and his family.	health re for a		• 1	2	3	1	2	3	4	62,64
28. Use nursing procedures as opportunitie interaction with patients.	s for	· · · · · · · · · · · · · · · · · · ·	1	2	3 .] 45	2	3	4	66, 68
				1			۰. ۲			

	perfo	ofter form this your cu	s act	ivity	perfo	rm thi	l do y s acti urrent	vity	Do not write in this space
ACTIVITY		Never	Occasionally	Frequently	Not very well	Satisfactorily	Well	Yery well	
29. Contribute to productive working relationships with other health team members.		1	2	3	1	2	3	4	70, 72
30. Help a patient meet his emotional needs.		. 1	2	3	1 1 ^{, 1}	2	3	. 4	74, 76 3
31. Contribute to the plan of nursing care for the patient.		1	2	3	.1	.2	3	4	$\begin{bmatrix} T &5 \\ 6 & 8 \end{bmatrix}$
32. Communicate facts, ideas, and professional opinions in writing to patients and their families.		1	2	3	1	2	3	4	10, 12
33. Plan for the integration of patient needs with family needs.		1	2	3	1	2	3	4	14, 16
34. Remain open to the suggestions of those under your direction and use them when appropriate.		1	2	3	1	2	3	4	18, 20
35. Use opportunities for patient teaching when they arise.		1	2	3	ι	2	3	4	22, 24
36. Use learning opportunities for ongoing personal and professional growth.	· · .	1	2	3	1	2	3	4	26, 28
37. Display self-direction.		1.1	2	3	1	2	. 3	4	30, 32
38. Accept responsibility for own actions.	14 - 4 -	1	2	3	ัำ ไ	2	3	4	34, 36
 Assume new responstbilities within the limits of capabilities. 	• • • •	1	2	3	1	2	3	4	38, 40
40. Maintain high standards of self-performance.		1	2	3	1	2	3	4	42, 44
41. Demonstrate self-confidence.		1	2	3	1	2	3	4	46, 48
42. Display a generally positive attitude.	, ,	1.1	2	3	1	2	3	-4	50, 52
43. Demonstrate knowledge of the legal boundaries of nursing.		1	2	3	1	2	3	4	54, 56
44. Demonstrate knowledge of the ethics of nursing.		1	2	3	. 1	2	3	4	58, 60
45. Accept and use constructive criticism.	4. -	1	2	3	1	2	3	4	62, 64

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Thank you for your cooperation.

QUESTIONNAIRE FOR 1981 GRADUATES OF THE POST-R.N. BACCALAUREATE PROGRAM

SECTION I - GENERAL INFORMATION

Please answer all questions by circling the number on the right of the most appropriate response or by providing a written answer where required. Your responses will be kept confidential.

I.D. $\frac{1}{12345}$ 1. Your age is: Under 25 ,_____ _____ l _____ 25 - 29 _____ 2 30 - 34 _____3 35 - 39 _____ ----- 5 40 - 44 45 - 49 . . 6 50 and over 2. Your sex is: Female 1 Male ÷ 2 3. Your marital status is: Single - 1 Married - 2 Other ·3

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Do not write in this space
•				
	- 2 -			
			Do not write in this space	•
				ů .
	4. Number of Children:	•		
	• None 0			1
	One1			
	Two 2			•
-	Three 3		9.	
	Four 4			· · · · ·
·	5 or more 5			· · · ·
	E. E		· · · ·	
	5. From which type of program did you receive your diploma in nursing?		x	2 · · · · · ·
	3 year Hospital Diploma Program1		10	
	2 year College Diploma Program2			
	Other (please specify) 3		•	•
· ·	6. When did you graduate from your initial nursing program?		. * . *	
-	Before 1960		·	
ан. 18			11	
* 141 1. s				an a
· · · ·				
	1975 - 1979 5			a e
	7. What were your scores on the R.N. Exams?			
· · ·	Check the range closest to your scores.			
	1 2 3 4 5 6	7		4 - 14 T
	350-399 400-449 450 499 500 549 550 599 600-649	550+		
		Π.	10	¥2.
	Medical Nursing		12	•
	Surgical Nursing	2		
	Nursing of children		1	
	Obstetric Nursing		1	· · · · ·
	Psychiatric Nursing	5	10	
	Was a different scoring system used? Please specify	6	17	
· .	na com an an anna an anna an an an an an an an			
•			·	
				•
•				

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		en e	6 - C.	I Do not write	
				in this space	
	8.	What was the title of your last position before you enter post-R.N. Baccalaureate program?	red the		. .
		• • • •	r		
		Staff Nurse	J	· · ·	. •
	•	Head Nurse or Assistant Head Nurse		18	
,		Supervisor		10.44	0
		Instructor	4		s .
		Community Health Nurse	5	•	
		Nursing Administration	6		
		Clinical Specialist	7		
		Nurse Consultant		•	~
		Other (please specify)			
2 ¹					
			<u> </u>	۰. ۲	•
			· .		
	9.1	How many years of nursing work experience did you have, before enrolling as a full-time student to complete the degree?			
		1 - 2 years		· · · · · · · · · · · · · · · · · · ·	
		3 - 5 years		19	· · · ·
		6 - 10 years	2		
		11 - 15 years	3		
		16 or more years	4	• • • • • • • •	
•		· · · · · · · · · · · · · · · · · · ·	D * 7		
	10	THITWE AND AN AND AN AND AN AND AND AND AND AN			
	10.	THINK back to the time in your nursing career before you completed your degree. Did your basic program effective	Iv I		
		prepare you for the positions and responsibilities you held at that time?			
	•	neid at that time?	Sec. Sec.	•	
		Yes	1	20	e 1
		No	2		· · · · · · · · · · · · · · · · · · ·
		Please comment	_	. · · · · ·	• • • 1
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		Do not write in this space) /* .
11	What do you believe was the <u>major</u> outcome for you, of completing a baccalaureate degree? (Choose one reply.)		
	improved working conditions		•
	(better hours, days off, etc.)	(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	
	improved salary2		•
	more challenging or satisfying work3	21	
	opportunity to change field of practice4		r f
	personal satisfaction in having a degree5		
	Other (please specify)6		1
			· .
12	Were you required to take prerequisite courses before being accepted by the University of Faculty of Nursing?		· · ·
	Yes,1	22	, ·
	No 2		
•		·	
13	. Did∴you take university courses before being accepted by the University of Faculty of Nursing which were not prerequisite, but were credited towards your degree?		
	Yes 1	,23	-
	No 2		\$
	ιν <i>ζ</i>		•
14	. What was your G.P.A. on graduation?		•
	5 5.91		*
1. S.		24	
· .	6 6.9 2		
	7, - 7.9 3 8 8.9 4		T
· · · ·	8 8.9 4	$= d \epsilon_{\rm eff}$	
	. How long did you take to complete the degree?	•	·
· •		5	* *
	less than two years l		
	° 2 years 2	25	
τ.	3 years 3		
	4 years 4		
	more than 4 years 5		ана. Ал
			• ·
* A V			

		· · · ·
		Do not write in this space
16.	Are you currently employed in nursing?	
	No (Please specify and proceed to question 22)2	26
		••
		in the second
17.	If you are employed in nursing, which do you work?	
	Full-time1	27
	Part-time 2	
18.	What is the title of your current position?	1
	Staff Nurse1	
	Head Nurse or Assistant Head Nurse 2	
	Supervisor 3	
	l'histructor4	28
	Community Health Nurse5	
· · ·	Nursing Administration6	
	Clinical Specialist7	
	Nurse Consultant B	
	Other (please specify) 9	
19.	Did the baccalaureate program effectively prepare you	
	for the position and responsibilities you now hold?	
	Yes 1 /	29
	No 2 /	
	Please comment	
٠		

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	Do not write in this space
could you function as effectively in the position you now not not without a degree?	
Yes	30
No (please specify) 2	
id you obtain the employment position upon receiving your legree that you expected to obtain?	8
Yes1	31
NO 2	
Please comment	
18 	
<pre>iurses hold different beliefs about having a baccalaureate degree. What do you believe? (Choose one reply that best indicates your strongest belief.)</pre>	
Professional nurses do not need a degree	32
Professional nurses do not need a degree	32
Professional nurses do not need a degree	32
Professional nurses do not need a degree1 The government will soon require all nurses to have a degree2 The A.A.R.N. will soon require all nurses to have a degree3 Only nurses working in teaching, supervision or public health require a degree4	32
Professional nurses do not need a degree 1 The government will soon require all nurses to have a degree 2 The A.A.R.N. will soon require all nurses to have a degree 3 Only nurses working in teaching, supervision or public health require a degree4 Professional nurses do need a degree5	32

Section II - Five Dimension Scale of Nursing Performance

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Listed below are a selection of nursing activities which nurses perform.

You are requested to answer four questions relating to each activity. Take a few moments and think back to the <u>nursing</u> job you were doing <u>immediately before</u> you entered the degree program.

How often did you perform the selected activity in that previous job?

How well did you perform that activity <u>before</u> entering the degree program? Now think about the job you are doing since completing your degree.

How often do you perform the selected activity in your current job?

How well do you perform that activity since completing your degree?

To respond, please use the following key, circling the correct answer.

How often did/do you perform this activity in your previous/current job? How well did/do you perform this activity in before/since completing your degree?

never
 occasionally
 frequently

not very well
 satisfactorily
 well
 very well

perf activi	ors th	vour	activ	ften d form t vity in rent	this n your		perf bef	orm thi orm thi egree p	s acti ering	vity the	perfo sin	ra thi ce com	do you is acti ipletin igree?	vity.	Do not write in this space
Never	Occasionally	Frequently	Rever	Occasionally	Frequently -	ACTIVITY	Not very well	Satisfactorily	Velî 🦷	Very well	Mot very well	Satisfactorily	Well	Yery well	
	2 (2) 2	3	1	2 2 2	3 (3) 3	 Change a sterile dressing Explain procedures to patient Plan nursing care 	1 1 1	2 (2) 2	3 3 3	4	1	2 2 2	3* 3 3	• •	16 - 19 20 - 23 24 - 27

EXAMPLE ONLY

ite		44. 	-	-						·			NIO		204
o not write in this space		- 36	- 40	- 44	- 48	- 52	- 56	- 60	- 64	- 68	- 72	- 76	8	6 ⁻	
Do not write in this space	C	33	37	- 14	45	49	23	57	19	65	69	73	1-1-	ف	
vity	Yery well	4	4	4	4	. 4	4	4	4	4	4	4	4	4	
How well do you perform this activity <u>since</u> completing your degree?	[[əm	ŝ	ູຕ	m	m	m	m	ĥ	m	'n	n	m	m	m	
How well rform thi since com your dee	Virnotostatas	2	۰.	~	~	5	2	2	2	5	2	~	~	~	
How Berfor	Not very well	-	-	-	-	-	_	-	-	-			-		
a the vity	Yery well	4	4	4	4	4	4	4	4	4	4	4	4	4	
How <u>well</u> did you perform this activity <u>before</u> entering the degree program	[[əm	m	n	ŝ	с	m	m	m	ŝ	ິຕ	m	m	໌ ຕ		
How <u>well</u> rform thi <u>efore</u> en degree 1	Viriotostertec	~	8	8	2	8	~	5	~	2	2	8	2	2	
How berfo befo de	Not very well	,	-		-	-					-	.	-		
ACTIVITY		. Teach a patient's family members about the patient's needs.	Coordinate the plan of nursing care with the medical plan of care.	 Give praise and recognition for achievement to those under your direction. 	4. Teach preventive health measures to patients and their families.	5. Identify and use community resources in developing a plan of care for a patient and his family.	 Identify and include in nursing care plans anticipated changes in a patient's condition. 	7. Evaluate results of nursing care.	8. Promote the inclusion of the patient's decisions and desires concerning his care.	9. Develop a plan of nursing care for a patient.	0. Initiate planning and evaluation of nursing care with others.	 Adapt teaching methods and materials to the understanding of the particular audience: e.g., age of patient, educational background, and sensory deprivations. 	Identify and include immediate patient needs in the plan of nursing care.	 Develop innovative methods and materials for teaching patients. 	
<u> </u>		-	~~~~	m 1	4					5	0	<u> </u>	12		· · · ·
do you this n your job?	Frequently	m	<u>е</u>	.e	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ر	m	<u>е</u>	м		<u>е</u>	m	м 	м	<u>)</u>
How aften do you perform this activity in your current job?	VCC&stonsion	~	~	. ∾	8	~	~	~~ ~	~	~	N	8	~	~	
E LI P	Never		-	-	-			`		-		-	-	-	metric i
d you is your	۲requently	e	'n	ς Υ	m	'n	m	e	m	m	ŝ	e a la l	m	m	
u ⊂	_	2	2	2	5	2	2	~	8	N	5	~	5	~	
How <u>aften</u> did you perform this activity in your <u>previous</u> job?	v[[snoissoo0				an er g				,			5			

Do not write in this space		- 13	14 - 17	18 - 21	22 - 25	26 - 29	30 - 33	34 - 37	38 - 41	42 - 45	46 - 49	50 - 53	54 - 57	- 61	205 59 - 29
/ou tivity ing	Very well		4	4	*	4	4	4	4	.	4		•	4	4
How <u>well</u> do you perform this activity <u>since</u> completing your degree?	1.LəM		်က	^m	n n	m.	m	m	m	m	m 	'n	м 	м 	[°] M
How well erform th since com your de	Virotostatas	` N	~~	<u>م</u>		2	8	~	~	~	N	2	~	~	~
	Not very well	-	بر	<u> </u>			<u>ب</u>				-		-		-
<pre>ill did you This activity entering the ee program</pre>	Yery well	4	4	4	4	4	4	4	4	4	4	4	• •	4	4
l did you Tis activ Ttering t program	1 LəM	m		m)	m	m	Ŕ	m	m .	<u>, m</u>	m	. m	; က	~~ ``	ñ
How well did you perform this active before entering (degree program	VITACTOTIS	~	8	~~~	~	2	~	~ ~	ຸ ~		~	~	~ ,,,	~	~
perf bef	Not very well		-	. =-	~ .			-	-				-	-	
a AcTIVITY		14. Communicate a feeling of acceptance of each patient and a concern for the patient's welfare.	15. Seek assistance when necessary.	16. Help a patient communicate with others.	17. Verbally communicate facts, ideas, and feeling to other health team members.	18. Promote the patient's right to privacy.	19. Contribute to an atmosphere of mutual trust, acceptance and respect among other health team members.	20. Delegate responsibility for care based on assessment of priorities of nursing care needs and the abilities and limitations of available health personnel.	21. Explain nursing procedures to a patient prior to performing them.	22. Guide other health team members in planning for nursing care.	23. Accept responsibility for the level of care provided by those under your direction.	24. Promote the use of interdisciplinary resource persons.	25. Use teaching aids and resource materials in teaching patients and their families.	26. Encourage the family to participate in the care of the patient.	27. Identify and use resources within your health care anoncy in developing a nlam of care for a
o you his your b?	۲requently	Э	ŝ	m	m	m	m	e	m	m	ရာ	m	'n	m	ŝ
How often do you perform this activity in your current job?	V[[snoizs500	2	2	2	8	2	~	2	2	~	~	~	~	N	2
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APPENDIX B

CORRESPONDENCE

February 19, 1982

TO: REGISTERED NURSES

Dear Colleagues,

The Faculty of Nursing at the University of is interested in and supportive of research I am conducting as a graduate student in the Department of Educational Administration at the University of Alberta. Your response to this questionnaire is an important part of that research.

The study has two purposes. One purpose is to gather information about the characteristics of registered nurses who may be planning to complete a baccalaureate degree or who have completed one. The other purpose is to study how well nurses believe they perform nursing activities before completing a baccalaureate degree and/or after they complete the degree. Very few studies have been carried out which focus specifically on registered nurses and university education. You are in a unique position to provide me with such information.

Your replies will be held in the strictest confidence. Please do not write your name on the questionnaire. The code numbers are for computer use only.

Copies of the completed study summary will be available for your examination at the University of Alberta Education Library, the University of Alberta Faculty of Nursing, and the A.A.R.N. Library.

I appreciate how busy you are and I wish to thank you for assisting me with this study. Those who have reviewed the questionnaire indicate that approximately twenty minutes are required to complete it. When you have completed the questionnaire, please return it to me in the enclosed envelope, if possible, within one week.

Thank you very much for your assistance in this research.

Sincerely,

Darlene Elliott, Reg. N., B.Sc.N. Graduate Student Department of Educational Administration University of Alberta Edmonton, Alberta T6G 2G5



March 8, 1982

Dear Colleague,

Re: Nursing Performance Questionnaire

Two weeks ago you received a questionnaire which focused on the performance of registered nurses who were contemplating completing a baccalaureate degree or had completed one.

The response to the questionnaire has been excellent. I wish to thank those of you who responded so promptly.

I would still appreciate a response from those of you who were so very busy or possibly away basking in sunnier climates at the time of the initial distribution.

Your participation will provide valuable information for the overall findings of the study. Please take a few moments and return the completed questionnaire to me in the enclosed envelope.

Thank you for your cooperation.

Yours sincerely,

Darlene Elliott, B.Sc.N. Graduate Student Department of Educational Administration



March 18; 1982

Dear Colleague,

Re: Nursing Performance Questionnaire

Approximately one month ago you received a questionnaire which focused on the performance of registered nurses who were contemplating completing a baccalaureate degree or had completed one.

I could not have chosen a more inopportune time to distribute this questionnaire. I appreciate that the strike situation has taken its toll on those of you in Alberta. In spite of this, the response has been very good. A sincere thank you to those of you who somehow found the time to respond.

I am now ready to begin data analysis. However, before I do, I would like to give those of you who have not sent back the questionnaire an opportunity to have your responses included in the analysis. Your participation will provide valuable data for the overall findings of the study.

Please take a few moments and return the completed questionnaire to me. Thank you for your cooperation.

Yours sincerely, Darlene Elliott, B.Sc.N. Department of Educational Administration University of Alberta

DE/pk



AMERICAN JOURNAL OF NURSING COMPANY

555 WEST 57TH STREET • NEW YORK, NEW YORK 10019 • 212-582-8820

December 8, 1981

Ms. Darlene Elliott 11436-32 Avenue Edmonton, Alberta T53 3H5 Canada

Dear Ms. Elliott:

As per our telephone conversation of November 24, 1981, permission is hereby granted for you to utilize the "Six-D Scale" which accompanies the article "Evaluating the Performance of Nurses: A Multidimensional Approach" from the November-December 1978 issue of <u>Nursing Research</u>.

It is our understanding that scale will be used in your thesis. Please use the following credit line as acknowledgement of permission received.

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Thank you for your cooperation and interest in our materials.

Cordially yours.

canlego

Lillian Vega Permissions Editor

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INTERNATIONAL NURSING INDEX

APPENDIX C FACTOR ANALYSIS

Table 3.2

Factor Loadings for Schwirian's Six-D Scale of Nursing Performance

SCALE	ITEM Number	ITEM CONTENT	SELF- APPRAISALS	EMPLOYER APPRAISALS
LEADERSHIP	3	Give praise and recognition for achievement to those under your direc-	.572	.725
	/ 2 3	Delegate responsibility for care based on assessment of priorities of nursing care needs and the abilities and limitations of available health	570	669
	25	care personal Guide other health team members in planning for nursing care	560	745
	26	Accept responsibility for the level of care provided by those under your		4-3
	. 4 E 🔬 .	direction Remain open to the suggestions of those under your direction and use them when appropriate	750	.664
RITIÇAL CARI	, 11 ·	Perform technical procedures e.g., oral suctioning, tracheostomy care,	- 1 .566	414
	18	intravenous therapy, catheter care, dressing changes. Use mechanical devices, e.g., suction machine, Gomeo, cardiac monitor,		1
		respirator	.781	459
	19 27	Give emotional support to family of dying patient		796
	30	Perform appropriate measures in emergency situations Perform nursing care required by critically ill patients	.628 .754	.231 .528
	37	Recognize and meet the emotional needs of a dying patient	426	712
	40	Function calmly and competently in emergency situations		.166
EACHING/	1	Teach a patient's family members about the patient's needs	.541	469
OLEABORATION	4	Teach preventive health measures to patients and their families	.584	.527
		Identify and use community resources in developing a plan of care for a patient and his family	.698	.489
	12	Adapt teaching methods and materials to the understanding of the par- ticular audience; e.g., age of patient, educational background, and sen-	.543	.433
	14	sory deprivations Develop innovative methods and materials for teaching patients	.636	.594
	28	Promote the use of interdisciplinary resource persons	.467	.428
	29	Use teaching aids and resource materials in teaching patients and their families	.714	.661
	31 32	Encourage the family to participate in the care of the patient	.490	.541 *
		Identify and use resources within your health care agency in developing a plan of care for a patient and his family	.642	.553
·	38	Communicate facts, "ideas, and professional opinions in writing to pa- tients and their families	.578	.541
	39	Plan for the integration of patient needs with family needs	.576	.422
LANNING/EVALUATION	2	Coordinate the plan of nursing care with the medical plan of care Identify and include in nursing care plans anticipated changes in a pa-	.652 .650	.592 .667
		tient's conditions		
	. 7	Evaluate results of nursing care Develop a plan of nursing care for a patient	475 737	.570
	10	initiate planning and evaluation of nursing-care with others	610	777 .626
	13	Identify and include immediate patient needs in the plan of nursing care	.577	548
	36	Contribute to the plan of nursing care for the patient	.440	.510
R/COMMUNICATIONS	8	Promote the inclusion of patient's decisions and desires concerning his	.565	407
	15	Communicate a feeling of acceptance of each patient and a concern for the patient's welfare	225	.310
	16	Seek assistance when necessary	491	.130
(17	Help a patient communicate with others	.603	445
	20	Verbally communicate, facis, ideas, and feelings to other health team members	411	069
	21	Promote the patients' rights to privacy	755	493
	- 22	Contribute to an atmosphere of mutual trust, acceptance, and respect among other health team members	450	104
· · · · · · · · · · · · · · · · · · ·	24	Explain nursing procedures to a patient prior to performing them	828	738
	33	"Use nursing procedures as opportunities for interaction with patients	.583	401
	34	Contribute to productive working relationships with other health team members	40-1	066
	- 35 - 42	Help a patient meet his emotional needs Use opportunities for patient teaching when they arise	716	646
			.00.*	405
OFESSION AL EVELOPMENT	41	Use learning opportunities for ongoing personal and professional growth Display self-direction		
ŀ	44	Accept responsibility for own actions		
•	46	Assume new responsibilities, within the limits of capabilities		. ·
	84	Maintain high standards of performance Demonstrate self-confidence		
	49	Display a generally positive attitude		
	50	Demonstrate knowledge of the legal boundaries of nursing		
	51	Demonstrate knowledge of the ethics of nursing	1 i	
		Accept and use constructive criticism	: · · · ·	

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Factor Loadings for Schwirian's constructs based on combined responses of special students, graduates before entering degree program and graduates after completing degree program (N = 53)

Scale	Item Number	Activity	Combined Self-Appraisals
Leadership	3	Give praise and recognition for achievement to those under your direction.	.023
	20	Delegate responsibility for care based on assessment of priorities of nursing care needs <u>and</u> the abilities and limitations of available health personnel.	.865
	22	Guide other health team members in planning for nursing care.	.677
N.	23	Accept responsibility for the level of care provided by those under your direction.	.648
· · · · · · · · · · · · · · · · · · ·	34	Remain open to the suggestions of those under your direction and use them when appropriate.	.510
Teaching/ Collaboration	1	Teach a patient's family members about the patient's needs.	.449
	4	Teach preventive health measures to patients and their families.	.628
N	5	Identify and use community re- sources in developing a plan of care for a patient and his family.	•665

Table 3.3 (continued)

Scale	ltem Number	Activity	Combined Self-Appraisals
	11	Adapt teaching methods and materials to the understanding of the particular audience: e.g., age of patient, educa- tional background, and sensory deprivations.	.666
	13	Develop innovative methods and materials for teaching patients.	.307
	24	Promote the use of inter- disciplinary resource persons.	.433
	25	Use teaching aids and re- source materials in teach- ing patients and their families.	.506
	26	Encourage the family to participate in the care of the patient.	.883
	27	Identify and use resources within your health care in developing a plan of care for a patient and his family.	.619
	32	Communicate facts, ideas, and professional opinions in writing to patients and their families.	.557
•	33	Plan for integration of patient needs with family needs.	.783

Scale	Item Number	Activity	Combined Self-Appraisals
Planning/ Evaluation	2	Coordinate the plan of nursing care with the medical plan of care.	.045
	6	Identify and include in nur- sing care plans anticipated changes in a patient's condition.	.572
	7	Evaluate results of nursing care.	.608
	9	Develop a plan of nursing care for a patient.	.478
	10	Initiate planning and evalua- tion of nursing care with others.	.470
	12	Identify and include imme- diate patient needs in the plan of nursing care.	.066
	31	Contribute to the plan of nursing care for the patient.	.131
IPR/ Communicati	8 ons	Promote the inclusion of the patient's decisions and desires concerning his care.	.039
	14	Communicate feeling of ac- ceptance of each patient and a concern for the patient's welfare.	.582
	15	Seek assistance when necessary.	.739
V V	16	Help a patient communicate with others.	.456

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Scale	Item Number	Activity	Combined Self-Appraisals
		Contraction of the second s	
	17	Verbally communicate facts, ideas, and feeling to other health team members.	.434
	18	Promote the patient's right of privacy.	.329
	19	Contribute to an atmosphere of mutual trust, acceptance, and respect among other health team members.	.053
	21	Explain nursing procedures to a patient prior to performing them.	.241
	28	Use nursing procedures as opportunities for inter- action with patients.	.026
	29	Contribute to productive working relationships with other health team members.	•025
	30	Help a patient meet his emotional needs.	.360
	35	Use opportunities for patient teaching when they arise.	.138
Professional Development	36	Use learning opportunities for ongoing personal and professional growth.	.392
	37	Display self-direction.	.826
	38	Accept responsibility for own actions.	.829

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Scale	Item Number	Activity	Combined Self-Appraisals
	39	Assume new responsibili- ties within the limits of capabilities.	.687
	40	Maintain high standards of self-performance.	.627
	41	Demonstrate self-confidence.	.365
	42	Display a generally positive attitude.	.412
	43	Demonstrate knowledge of the legal boundaries of nursing.	•036
	44	Demonstrate knowledge of the ethics of nursing.	.179
	45	Accept and use constructive criticism.	.201

Table 3.4

New constructs based on factor loadings of combined responses of special students, graduates before entering degree program and graduates after completing degree program (N = 53)

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Scale	Item Number	Activity	Combined Self-Appraisals
Leadership/ Team Cooperation	17	Verbally communicate facts, ideas, and feeling to other health team members.	.581
	19	Contribute to an atmosphere of mutual trust, acceptance, and respect among other health team members.	.622
	20	Delegate responsibility for care based on assessment of priorities of nursing care needs <u>and</u> the abilities and limitations of available health personnel.	.864
	22	Guide other health team members in planning for nursing care.	.677
	23	Accept responsibility for the level of care provided by those under your direction.	.647
	29	Contribute to productive working relationships with other health team members.	•725
	- 34	Remain open to the suggestions of those under your direction and use them when appropriate.	•510
•	45	Accept and use constructive criticism.	.386

Scale	Item Number	Activity	Combined Self-Appraisals
Teaching/ Resource- Fullness	1	Teach a patient's family members about the patient's needs.	.448
urmess	4	Teach preventive health measures to patients and their families.	.627
	5	Identify and use community re- sources in developing a plan of care for a patient and his family.	.664
	8	Promote the inclusion of the patient's decisions and desires concerning his care.	.401
	11	Adapt teaching methods and materials to the understanding of the particular audience: e.g., age of patient, educa- tional background, and sensory deprivations.	.665
	24	Promote the use of inter- disciplinary resource persons.	.433
	25	Use teaching aids and re- source materials in teach- ing patients and their families.	.505
	26	Encourage the family to participate in the care of the patient.	.883
	27	Identify and use resources within your health care in developing a plan of care for a patient and his family.	.619

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Scale	Item Number	Activity	Combined Self-Appraisals
	10 N		
	28	Use nursing procedures as opportunities for inter- action with patients.	י ר .537
	32	Communicate facts, ideas, and professional opinions in writing to patients and their families.	•556
	33	Plan for integration of patient needs with family needs.	.782
- - - - - - - - - - - - - - - - - - -	35	Use opportunities for patient teaching when they arise.	.665
Planning/ Evaluation	3	Give praise and recognition for achievement to those under your direction.	.610
	6	Identify and include in nur- sing care plans anticipated changes in a patient's condition.	.572
	7	Evaluate results of nursing care.	•607
	10	Initiate planning and evalua-• tion of nursing care with others.	.469
	13	Develop innovative methods and materials for teaching patients.	.574
	43	Demonstrate knowledge of the legal boundaries of nursing.	•593
	44	Demonstrate knowledge of the ethics of nursing.	.422

	tem umber	Activity	Combined Self-Appraisals
Ċ			
Communication/ Coordination	2	Coordinate the plan of nursing care with the medical plan of care.	.454
	9	Develop a plan of nursing care for a patient.	.456
	12	Identify and include imme- diate patient needs in the plan of nursing care.	.597 -
	14	Communicate feeling of ac- ceptance of each patient and a concern for the patient's welfare.	•582
	15	Seek assistance when necessary.	.738
	16	Help a patient communicate with others.	.456
	18	Promote the patient's right of privacy.	.328
	21	Explain nursing procedures to a patient prior to performing them.	.241
	30	Help a patient meet his emotional needs.	.454
	31	Contribute to the plan of nursing care for the patient.	.359
Professional Development	36	Use learning opportunities for ongoing personal and professional growth.	•392
	37	Display self-direction.	.825

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Scale	Item Number	Activity	Combined Self-Appraisals
	· · · · · ·		
$F = - \frac{1}{2} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_$	38	Accept responsibility for own actions.	.828
	39	Assume new responsibili- ties within the limits of capabilities.	.687
	40	Maintain high standards of self-performance.	.627
•	41	Demonstrate self-confidence.	.365
	42	Display a generally positive attitude.	.412

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AFTER ROTATION WITH KAISER NORMALIZATION

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FACTOR PATTERN

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,	LL.	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR
ITEM1		0.44872	-0.27236	.0358	0.08725	0.11981
ITEM2	•	.2646	-0.04489	.0957	0.05514	0.45443
EMJII		.0406	ΩÔ.	.0225	.116	•
I'TEM4		2	.3763	.248	•	•
ITEMS		Ψ.	. 177	. 1334	-0.00327	0.23820
I TEM6		.0567	. 5724	.2472	•	
ITEM7		•	.6077	.0313	.2711	•
I TEM8		•	-0.41749	.0742	. •	8860.
I TEM9		-0.02958	.477	0.30232	8	0.45675
		•	•	.3462	.0722	\sim
ITEM11		•	-0.29219	. 1654	.049	· •
	•	0.10184		.02,15	. 1822	
					. 1477	.080
		•	.051		.0835	
ITEM15	'	- e	.052	.028	. 1431	•
ITEM 16		•	.027	.0013	.2717	
Ξ			. 229		.0877	
ĒMI	•	•	8	-0.09189		. 3286
ITEM 19		•	.093		. 3092	
ITEM20	1	Ξ.	-0.09783	0.86465	.0832	
ITEM21		. 3047	221		.2875	•
ITEM22	• •	÷.	-0.18056		.0823	
ITEM23		.0107	.038	• /	m i	-0.05894
ITEM24		.4332	.312	. 142	.0695	
ITEM25	· · ·	0.50579	-0.48918		0.03916	•
ITEM26			. 165		÷.	
ITEM27		.6194	.034		•	•
ITEM28	· ' 、	0.53775		~*	•	•
I TEM29	· .	₽.	•	. 725	.0413	•
I TEM30	- 4 1.	. 3248	•	1783	.0763	•
I TEM31	1	. 1854	-0.13066	301	0.06958	•
ITEM32		10	•	.2652	Š	. 2223
I TEM33		٠	•	.0918	.0239	.0663
ITEM34		.0700	٠	5103	2064	.0200
EM3		.6657	. 1655	.0955	.0208	:1376
I TEM36		0.06033	•	0599	3915	•
ITEM37	1	.0290	-0.10202	042	.825	.030
I TEM38		0.03513	0.04531	0087	0.82884	0.16779
ITEM39	•	4	-0.10806	022	.687	.218
ITEM40		0.22932	0		0.62743	-0.25423

•	• . • .	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5
ITEM41 TTEM42	•	0.26542 0.09905	0.10415	0.21397	0.36543 0.41218	0.19895 0.43611
		0.06304	-0.59328	0.28420		-0.08777
ITEM44		0.32894	-0.42281	•		
ITEM45	*	-0.14113	-0.33348	0,38645	0.20067	0.25833
FACTOR CORRELATIONS	CORREL	ATIONS		•	· .	
		2 		•		
			•	•		•
````					-	
		FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5
FACTOR	-		-0-41659	0.39158	0.44132	0.44695
FACTOR	- 0	-0.41659	1 00000		-0.27197	-0.27158
FACTOR	ן הי	0.39158	-0.30506	1.00000	0.36350	0.31454
FACTOR	4	0.44132	-0.27197	•	•	0.42412
FACTOR	ເມ	0.44695	-0.27158	0.31454	0.42412	1.00000
FACTOR	STRUCTURE	URE				
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- L - J	•	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5
ITEM1	•	0.66828	-0.52650	0.36406	0.42320	0.44261
I TEM2		0.54827	-0.32275	0.37608	0.41168	•
ITEM3		0.37238	-0.67366	0.24648	0.32555	
ITEM4	•.	0.77552		•		•
ITEMS	. ,		•	•	e 0, 39 109	٠
ITEMG	, '	- 1 e i	-0.67264		0.20263	
ITEM7		0.51911		•		
I TEM8				0.40726	0.46/92	0.34809
I LEMO		0.46934	20109 0-		•	•

0.24448 0.34809 0.64718 0.52830 0.50754 0.74526 0.42991 0.47707 0.46792 0.37050 0.36185 0.36185 0.35010 0.50649 0.46590 0.34941 0.40726 0.56198 0.60824 0.23052 0.33583 -0.73561 -0.64226 -0.66815 -0.69407 -0.56097 -0.32694 0.51911 0.66090 0.46993 0.58259 0.79200 0.48538 0.63943 ITEM13 **TEM10 TEW11** TEM12

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#### APPENDIX D

#### RESPONDENT COMMENTS

- Special Students
- Graduates

#### Special Students'

#### Questionnaire Comments

5. From which type of program did you receive your diploma in nursing?

I have three years hospital psychiatric nursing training, one and a half years of hospital general nursing training in and one year College Diploma Program in Canada.

7. What were your scores on the R.N. Exams? Check the range closest to your scores.

1

Nurs. 230 Psychiatric - Fall Semester 1963.

Sem. Units 5.0 Grade A. Grade Points 20.0.

We passed or failed, I was not given any scores.

The program did not prepare me for management duties.

As an instructor in a specialty unit additional skills were necessary.

Started going to school as soon as graduated -- also working in many places.

I presently work on the intravenous Thereby Team. Nurses did not start IV's when I was a student.

Work experience, more than training is the expertise that qualified me for the job.

I work in the caseroom -- found that what I learned as a student in Obstetrics was a mere drop in the bucker of what an obstetrical nurse needs to know.

But not very satisfactorily.

Medical advances and new treatments necessitate continuing education, either formal or personally.

I'm working in a specialty area in which my nursing program didn't prepare me for anything except for anatomy and physiology. I did receive an orientation for my present job. L.

#### 12. (Cont'd)

Management skills not in a basic program.

I needed extra training in many areas, e.g., field first aid; spirometric testing, audiometric testing, pulmonary function testing, industrial toxicology. Also, it did not prepare me for having to make medical decisions without a Doctor's instructions and orders.

Yes, but continual education is necessary.

Basic program will only prepare for nursing care -- it does not prepare one for responsibilities that one may hold 10 years after graduation.

There was no training in administration skills, i.e., making hours, notations, budget, census or statistics.

14. If these courses are not prerequisites for program entrance, will they apply for credit towards your degree?

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The courses I take can also be transferred to another faculty.

I have already taken 10 half courses for credit towards my degree -- these include all prerequisites.

15. Do you plan to attend university to complete a baccalaureate degree in nursing in the next five years?

I hope to do so but it is not a definite plan.

16. If you complete a degree what do you believe will be the major outcome? (Choose one reply.)

I can use it to study further, i.e., Medicine.

Opportunity for advancement in present job area.

17. Nurses hold different beliefs about having a baccalaureate degree. What do you believe? (Choose one reply that indicates your strongest belief.)

A nurse should have a dégree only if she feels she needs one, without one, she can still function adequately, after graduation in caring for the sick.

Professional and personal growth.

I do not believe that all nurses require a degree but I believe a degree will broaden the outlook of many nurses. It should be of free will.

I don't believe any degree helps in the performance of work -- but it is required by government in certain areas.

I do not believe a degree improves nursing skills.

Most nurses obtain their baccalaureate degree to get out of working shift, broadening opportunities (job) by having BScN.

Advancement in nursing (i.e., hierarchy) requires a degree.

Skills obtained in a degree program are advantageous; however, dependent on the type of nursing done are not always necessary.
1981 Graduates' Questionnaire Comments 234

2½ year Diploma Hospital Program.

2 year Hospital Diploma Program.

3 year College diploma program (CEGEP - Quebec).

4 year (PMH), year RN, 2 year PN.

 What were scores on the <u>R.N.</u> Exams? Check the range closest to your scores.

Was a different scoring system used?

R.N. exams taken in London, England, not sure of scoring system.

R.N.'s were done in Ontario in 1975. I do not remember what my marks were but all of them were over 350.

Sorry, I don't remember my scores.

Passing Scores was 325.

I have never known my scores.

R.N. marks were A, A, B, B, D -- don't remember which subjects and don't have transcripts. 10. THINK back to the time in your nursing career before you completed your degree. Did your basic program effectively prepare you for the positions and responsibilities you held at that time?

There were many aspects I felt unsure of like advocacy, the physical assessment skills legal aspects -- Nursing Care Plan importance -- even knowing where nursing is going as a profession -- and what opportunities are available for nurses.

I knew what I needed to teach but was not sure how to do it effectively, and how to find and use all the resources available.

More practical experience in the basic program would have given me more confidence.

I only functioned as a staff nurse and I feel my 3 year hospital based program certainly prepared me for that.

The two-year program did not provide enough practical experience. I had a lot of responsibility in a small hospital which I was not initially prepared for.

As a general duty staff nurse I believe my basic training (R.N.) was adequate preparation both in technical skills and interpersonal relations.

Skills were taught well but a professional mature attitude was not encouraged.

Focus on functioning in clinical setting. Basic program very effective in this regard, i.e., little reality shock experienced.

I believe the hospital program was very vague in preparing for the work force.

I think the basic program prepares a person well enough for the staff nurse level. I was lacking a fair amount of technical skills, but it did not take long to pick them up on the job.

I did not get much experience in most areas, especially specific skills; however, I did have some practice in all skials so I was not scared to do my work.

Not enough management or teaching preparation.

I was in charge`of a medical ward on the afternoon shift when I was a first year student.

We were given adequate education in all areas of nursing, including leadership responsibilities.

The 3-year hospital program of 20 years ago certainly taught one to work hard and accept responsibility. However, it was very illness oriented, and I do regret the many changes.

Taking a 2 year college-based program. I needed the first year on the job to feel totally comfortable with my work.

Deficient in writing skills and ability to use nursing process thoroughly in an outpatient setting -- previous nursing experience was all acute care.

I completed a Public Health Diploma in 1969.

I had a lot of learning "on-the-job" to do (e.g., for teamleading and being in charge) but I luckily had good role models available from whom I could learn.

The 2 year program prepared me for direct/primary nursing to patient. As an R.N. I found I was mostly supervising and delegating the nursing care given by others, i.e., orderlies, R.N.A.

As an instructor-teacher, I had to prepare programs, classes, courses, etc. I was unprepared in how to go about it.

Although I believe we were well prepared for bedside care, certain aspects of work management, organizational interactions and leadership were seldom mentioned. These often turned out to be very important areas of work.

Responsibility was given to me in my third and fourth years on the 3 - 11 night shift. If one is not given the FREEDOM to take on or share responsibility it is not as readily LEARNED or practiced.

We had a very well rounded experience with exposure to many specialty as well as basic areas -- as well we were relied upon for service by the hospital which <u>I</u> think broadened our experience and increased our responsibilities.

Diploma program was light on theory and heavy on labor. It was a task oriented program -- tasks for active treatment.

It prepared me to be a good "task" completer. It did not give me a lot of "why's" or physiology, etc. as well as any idea that there was more than one way to do something. But it was fairly adequate training for a staff nurse. 11. What do you believe was the major outcome for you, of completing a baccalaureate degree? (Choose one reply.)

Satisfying work,

Vehicle to admission to a Master's Program.

For the future I developed a broader view of nursing and life in general.

Autonomy and better working hours.

<u>Priorities</u>: 5, 4 (PH -- when opening available); 3, 1, 2. Salaries (Nsg.) are in dark ages -- i.e., does a teacher with a BSc get 50c an hour raise? -- Janitors in my area earn more than I do with  $6\frac{1}{2}$  years of education.

Essentially the major outcome is the one I've indicated (improved working conditions -- better hours, days off, etc.) but personal satisfaction with the opportunity to diversify within nursing.

12. Were you required to take prerequisite courses before being accepted by the University of of Nursing?

Psy 260 and 261(which wasn't necessary for me because I had PN -- 261 was review of abnormal behavior.

## 18. What is the title of your current position?

Coronary Teaching Co-ordinator.

Clinical Instructor -- orientation and teaching and program planning on a medical unit.

Nurse Co-ordinator - Education Officer.

Victorian Order of Nurses.

Instructor with Registered Nursing Assistant program and Prenatal.

Community Health Nurse in a V.D. Clinie.

19. Did the baccalaureate program effectively prepare you for the position and responsibilities you now hold?

I believe the knowledge learned in the Post Basic Program has helped in my present job.

I learned how to find the information I need to work with. My verbal and written communication skills are much improved:

Emphasis on self care and patient education are basic to my present position. Both were stressed in the baccalaureate program.

As an assignment for one of my courses I researched and drew up the job description for the position I now have.

I am not using my degree yet. I will be changing jobs

this summer/fall that require a degree.

Not enough emphasis on community health nursing.

I have found the BScN program content to be very relevant -which actually surprised my as I often felt that I was gaining little from my university nursing courses.

I am doing a lot of on-the-job training.

Teaching course as you do a lot of teaching.

My goal is to get into PH so I can TEACH. Better hours increased responsibility and independence, better hours and personal satisfaction because I'll be doing what I want to do.

To a certain degree -- my past nursing experience also helped a lot.

I have learned a great deal on the job.

Difficult to say really as I returned to the same unit but climbed the ladder; whether it was due to my expertise or my having obtained BScN am not certain.

It taught one management and educational skills which I now frequently use. 20. Could you function as effectively in the position you now hold without a degree?

The BScN enhanced my teaching skills and helped me develop a more holistic attitude towards patient care -- both essentials to my present position.

But, I would probably be less able to handle the frustrations.

I would be lacking the management and organizational skills required. Also, I feel my thinking processes are of a higher level.

Some of the clinical instructors do not have a BScN and are finding it difficult. I have a greater knowledge of teaching skills that are needed. I have greater knowledge of resources that are available.

Thad a much narrower perspective of nursing prior to going to university. I now think "health" rather than "illness", and "self help" rather than "doing for."

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Job needs a lot of thinking and judging and decisions which skills were enhanced by taking my degree.

Better writing skills, better able to define "what is nursing?", increased awareness of administrative skills and lack on my part -- greater feeling of confidence in decision-making.

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I think I have a broader view of nursing and more depth of knowledge which helps me function more effectively, even though only at a staff nurse position. 245

I would have quit this job by now had I not attained the skills.

Needed learning experience in university to plan courses, teach creatively and effectively.

My present knowledge of organizational framework and principles of teaching and learning help immensely.

. My initial training prepared me for staff nursing.

My horizons were definitely broadened in dealing with families.

I wouldn't have had a clue about program planning, teaching principles, etc.

I would not feel competent without the knowledge I have gained in the last two years.

21. Did you obtain the employment position upon receiving your degree that you expected to obtain?



I wanted to teach.

I am waiting to get into public health for city.

Returned to similar position but was able to expand nursing role due to having degree.

I did not have relevant practical nursing experience to work in the area I wanted to (i.e., cardiology experience for the Cardiac Recovery Room).

Need more experience. I would have liked to be a nursing consultant or something, but I find you have to have been established in the institution before or have more experience which only makes sense,

There were many choices.

I originally intended to work in Public Health, but lack of an automobile stopped this idea.

I want to teach -- the Hospital does not have an opening for a Clinical Instructor and at present there is no opening for another PH nurse (at present in this area, RN's and RNA's are doing PH Nsg.).

Due to recent relocation, have not applied for many other positions.

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Not sure of the question.

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It took awhile, however (4 months), before I found the job I wanted.

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# 22. Nurses hold different beliefs about having a baccalaureate degree. What do you believe? (Choose one reply that best indicates your strongest belief.)

Degree programs promote a more professional and career oriented attitude to nursing in most nurses.

A degree is a definite asset for any professional nurse but is not necessary for all nursing positions, especially staff nurses.

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Depends what you mean by professional nurses. I believe there is a professional-technical component in any practice setting which are inseparable, i.e., knowledge can be gained through formal and informal education (self-learning) but knowledge must be applied in work setting.

Not sure: it appears that many staff nurses can function effectively without a degree now, but the role of the nurse is in a process of changing so that a degree may be required in the future. I believe, though, that to be true professionals, nurses do need to have a degree.

Advanced education in the nursing field is necessary for increased insight etc. I firmly believe in continuing education. Many nurses I work with refer to themselves as professionals and do absolutely nothing to continue with their education. With increased education many variables also increase, i.e., more positive attitude, more insight into needs and problems,

#### 22. (Cont/d)

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increased understanding and in turn more benefit to patient or client care.

I feel that a degree would best prepare a nurse to be all the things she can be and prepare her for a variety of <u>types</u> of nursing jobs, i.e., education, community health, supervision, etc.

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APPENDIX E SPECIAL STUDENTS MULTIPLE REGRESSION

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Summary TABLE       NULTIPLE       R SOUARE       FSO CHANGE       SIMPLE       R         ARE CONTRES PREREOUISITES       0.14035       0.14035       0.14035       0.23743       0.14035       0.14035       0.14035       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03723       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03729       0.03429       0.1372       0.03429       0.1372       0.03429       0.1316       0.1317       0.03129       0.0119       0.1317       0.03129       0.0139       0.03429       0.03449       0.0139       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119       0.0119	ENT						· · · · ·	
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ARE COURSES PREREOUISITES       - 0.37464       0.14035       0.37464       0.14035       0.37464       0.14035       0.37464       0.14035       0.37464       0.14035       0.37464       0.14035       0.37464       0.14035       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03373       0.03439       0.03459       0.01399       0.01049       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.0446       0.4336       0.0446       0.0446 <td>\</td> <td></td> <td>-</td> <td></td> <td></td> <td>• •</td> <td></td> <td></td>	\		-			• •		
ARE COURSES PREFEQUISITES       0.37454       0.14035       0.37464       0.14035       0.37464       0.14035       0.37464       0.14035       0.37464       0.14035       0.39273       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03927       0.03439       0.03439       0.03439       0.03439       0.03439       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.04496       0.04496       0.04496	VARIÁBLE		TIPLÈ					BETA
DID       BASIC PROGRAM EFFECTIVELY PREARE       0.41134       0.19667       0.05532       -0.23732       -0.5         TYPE OF PROGRAM EFFECTIVELY PREARE       0.41134       0.22185       0.03548       -0.03927       -0.0         TYPE OF PROGRAM EFFECTIVELY PREARE       0.41134       0.22185       0.035534       -0.03925       -0.01395         TYPE OF PROGRAM INTIAL NURSING PROGR       0.55334       0.30684       0.03495       0.00067       -0.03         RADUATION FROM INTIAL NURSING PROGR       0.55334       0.30684       0.03495       0.00067       -0.13         RADUATION FORM INTIAL NURSING PROGR       0.55334       0.33835       0.03495       0.001184       -0.13         PLAN TO COMLETE DEGREE WITHIN 5 YRS       0.61427       0.37733       0.00499       0.03429       -0.13         PLANNING-EVALUATION       5UMMARY TABLE       F       NULTIPLE R       R SUMARY TABLE       -0.41335       -0.13         T VARIABLE       F       NULTIPLE R       R SUMARY TABLE       -0.41339       -0.13072       -0.13072       -0.13072         T VARIABLE       F       NULTIPLE R       R SUMARY TABLE       -0.41339       -0.14339       -0.14339       -0.14339       -0.14339       -0.14339       -0.14339       -0.143339       -0.143		ADE COMPEES DEEDEOULICITES	- 0 37464	÷.,			7287	0.51736
MEAN R. N. SCORE         0.47133         0.22215         0.03373         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.03973         0.003973         0.03973         0.03973         0.037295         0.01184         0.0393         0.01184         0.0393         0.01184         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429         0.03429 <th0.0499< th="">         0.03429         <th0.0499< th=""></th0.0499<></th0.0499<>		BASIC PROGRAM EFFECTIVELY	0.44348	• •		• ••	5474133	
NR OF CHIDREN       0.04495       0.04495       0.00007       0.01067         R DATION FROM INITIAL NURSING PROCR       0.59862       0.35835       0.05150       0.10067       0.03         R DATURTION FROM INITIAL NURSING PROCR       0.59862       0.35835       0.05150       0.10067       0.03         R DATURTION FROM INITIAL NURSING PROCR       0.59862       0.35835       0.05150       0.01399       0.001184       0.04         R DATURTION       FS       PLANNING-EVALUATION       0.61427       0.37733       0.00499       0.001184       0.01496         R DATURTION       FS       PLANNING-EVALUATION       SUMMARY TABLE       0.00499       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.0446       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.03429       0.0446       0.01496       0.01496       0.01496       0.01496       0.01496       0.0149       0.01496       0.01410       0.0140       0.01410       0.0140       0.01410       0.01410       0.01410       0.01410       0.01410       0.01400       0.01410       0.01410		SCORE	0.47133	ş. •	0.02548	•	.9235656E -	-0.27337
Image: Stable of the stable		w Z	0.51174	•	0.039/3	• •		-0.77680
In to commerte degree within 5 yrs       0.61020       0.37234       0.01399       0.01184       -0.4         It variable       F5       PLANNING-EVALUATION       0.61427       0.37733       0.00499       0.03429       -0.4         It variable       F5       PLANNING-EVALUATION       SUMMARY TABLE       0.00499       0.03429       -0.4         It variable       F5       PLANNING-EVALUATION       SUMMARY TABLE       0.04999       0.03429       -0.4         It variable       F5       PLANNING-EVALUATION       SUMMARY TABLE       0.04499       0.03429       -0.4         It variable       F5       PLANNING-EVALUATION       SUMMARY TABLE       0.04499       0.03429       -0.7         It variable       F5       PLANNING-EVALUATION       SUMMARY TABLE       R       0.04499       -0.34391       -0.7         It variable       F5       PLANNING-EVALUATION       A3391       0.18928       -0.413391       -0.7         It variable       R       R       SUMARY TABLE       R       SUMARY PLAC       -0.413391       -0.7       -0.7         It variable       F       R       SULAR       RSO CHANGE       SUMAR       -0.413391       -0.7       -0.7       -0.7       -0.7	2	GRADUATION FROM INITIAL NURSING PROGR	0.59862	• . •	0.05150	• •		
T VARIABLE. F5 PLANNING-EVALUATION T VARIABLE. F5 PLANNING-EVALUATION SUMMARY TABLE MULTIPLE R SOUARE R50 CHANGE SIMPLE R MULTIPLE R SOUARE R50 CHANGE SIMPLE R MULTIPLE R 0.43391 0.18828 0.13931 -0.13072 PLAN TO COMLETE DEGREE WITHIN 5. YRS 0.43391 0.18828 0.13072 -0.41235 VRS NURSING EXPERIENCE 0.43391 0.18828 0.13072 -0.41235 NR DF CHILDREN 0.41669 0.13072 -0.41235 0.02413 NR DF CHILDREN 0.41669 0.013072 -0.41235 0.03704 NR DF CHILDREN 0.4252 0.43669 0.03100 MEE OUSSES PREREOUISITES 0.65092 0.43168 0.00544 0.041 0.02742 0.03304 TITLE OF POSITION 0.66129 0.43730 0.00048 -0.03304 AGE 0.66129 0.43730 0.00048 -0.02304 AGE 0.66129 0.43730 0.00048 -0.02304 AGE 0.66129 0.43730 0.00048 -0.02304 AGE 0.66129 0.43730 0.00048 -0.03304 AGE 0.66129 0.43730 0.00048 -0.02304 AGE 0.6742 0.00048 -0.03324 AGE 0.6742 0.66129 0.43730 0.00048 -0.02304 AGE 0.66129 0.43730 0.00048 -0.02304 AGE 0.6742 0.00048 -0.02304 AGE 0.6742 0.00048 -0.02304 AGE 0.6742 0.00048 -0.02304 AGE 0.6742 0.00048 -0.00048 -0.0244 -0.0244 -0.0244 AGE 0.6742 0.00048 -0.0244 -0.0244 -0.0244 -0.0244 -	, W	PLAN TO COMLETE DEGREE WITHIN 5 YRS	0.61020	•	0,01399	•	•	-0 18613 -0 09280
T VARIABLE. F5 PLANNING-EVALUATION SUMMARY TABLE DID BASIC PROGRAM EFFECTIVELY PREPARE DID BASIC PROGRAM EFFECTIVELY PREPARE PLAN TO CONTREE VITHIN 5, YRS PLAN TO CONTREE PROGRAM EFFECTIVELY PREPARE NR DF CHLIDREN NR DF CHLIDREN DF COURSES PREREOUISITES DF CF COURSES PREREOUISITES DF CF COURSES PREFECOURSES PREFECOURSES PREFECOURSES PREFECOUSSING PROGR DF CF COURSES PREFECOURSES PREFECOUSSING PROGR DF CF COURSES PREFECOURSES PREFECOUSSING PROGR DF CF COURSES PREFECOUSSING PROGR DF CF CF COURSES PREFECOUSSING PROGR DF CF COURSES PREFECOUSSING PROGR DF CF COURSES PREFECOUSSING PROGR DF CF COURSES PREFECOUSSING PROGR DF CF	LANT	5	0.01421	•		3	· U2	•
T VARIABLE. F5 PLANNING-EVALUATION SUMMARY TABLE DID BASIC PROGRAM EFFECTIVELY PREPARE DID BASIC PROGRAM EFFECTIVELY PREPARE PLAN TO COMLETE DEGREE WITHIN 5 YRS PLAN TO COMLETE DEGREE WITHIN 5 YRS O 33991 0 18828 0 13072 0 43391 0 0 PLAN TO COMLETE DEGREE WITHIN 5 YRS O 56480 0 031900 0 040000 0 04000 YRS NURSING EXPERIENCE NR OF CHILDREN NR OF CHILDREN ARE COURSES PREREQUISITES O 65592 0 43569 0 005769 0 05769 O 65592 0 43569 0 005769 0 057742 0 0 13704 0 0 66592 0 43569 0 000441 0 0 07477 0 65592 0 43569 0 000441 0 0 07477 0 65592 0 43569 0 000441 0 0 07477 0 66129 0 43569 0 0 000441 0 0 07304 0 66129 0 43730 0 0 000441 0 0 07304 0 66129 0 43730 0 0 000441 0 0 07304 0 66129 0 0 43730 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• •		•	 -		•		
T VARIABLE. F5 PLANNING-EVALUATION SUMMARY TABLE DID BASIC PROGRAM EFFECTIVELY PREPARE PLAN TO COMLETE DEGREE WITHIN 5 YRS PLAN TO COMLETE DEGREE WITHIN 5 YRS VRS NUSING EXPERIENCE NR OF CHILDREN NR OF CHILDREN NR OF CHILDREN O 556480 O 13072 O 13704 O 0 13704 O 13704 O 0 0 13704 O 0 0 13704 O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•				¥			
DIDBASICFROGRAMEFFECTIVELYPREPAREO. 18828O. 18828O. 43391-O. 7DIDBASICPROGRAMEFFECTIVELYPREPAREO. 43391O. 18828O. 43391-O. 7PLANTOCOMLETEDEGREEWITHIN 5. VRSO. 56480O. 18828O. 43391-O. 7VRSNURSINGEXPERIENCETO0. 31900O. 19828-O. 43391-O. 7VRSNURSINGEXPERIENCETO0. 31900O. 13072O. 41235-O. 2NEOCOMLETEDEGREEWITHIN 5. VRSO. 559917O. 31900O. 14072O. 24118O. 2NENEN.SCOREO. 655017O. 43550O. 40000O. 24128O. 24O. 4MEANR.N.SCOREO. 655017O. 43108O. 05604-O. 2O. 4MEANR.N.SCOREO. 655922O. 43108O. 05441O. 4O. 4ARECOURSESPREREOUISITESO. 655922O. 433550O. 000441O. 07477O. 7TITLEOFPOSITIONO. 655922O. 433550O. 000441O. 07477O. 7AGÉOFROMNITIALNURSINGPROGRO. 655922O. 433730O. 000481O. 7AGÉOOO. 656922O. 433730O. 000481O. 035293O. 7O. 7AGÉOOOO. 000481O. 000481O. 035293O. 2O. 2AGÉO <td>DEPENDENT</td> <td>FS .</td> <td>ATION STICK</td> <td>·</td> <td></td> <td></td> <td>•</td> <td></td>	DEPENDENT	FS .	ATION STICK	·			•	
DID       BASIC: PROGRAM       EFFECTIVELY       PREPARE       0.43391       -0.7         PLAN       TO       COMLETE       DEGREE       WITHIN       5       YRS       -0.43391       -0.43391       -0.7         PLAN       TO       COMLETE       DEGREE       WITHIN       5       YRS       -0.43391       -0.43391       -0.7         PLAN       TO       COMLETE       DEGREE       WITHIN       5       YRS       -0.43391       -0.43391       -0.7         PLAN       TO       COMLETE       DEGREE       WITHIN       5       YRS       -0.41235       -0.2       -0.41235       -0.2         YRS       NURSING       EXPERIENCE       0.55631       0.31900       0.04000       0.24118       -0.2         NR       DF       CHILDREN       0.55931       0.41669       0.5769       -0.66604       -0.2         NR       N.       SCORE       0.65010       0.42262       0.41669       0.05769       -0.4742       -0.4         ARE       COURSES       PREREQUISITES       0.65592       0.43150       0.07471       0.13704       -0.1         ARE       COURSES       PREREQUISITES       0.65592       0.43150       0.			SUM!			• • • • • • •	•	•
DID       BASIC: PROGRAM EFFECTIVELY PREPARE       0.43391       0.18828       -0.43391       -0.7         PLAN       TO COMLETE DEGREE WITHIN 5 YRS       0.56480       0.31900       0.13072       -0.41235       -0.9         PLAN       TO COMLETE DEGREE WITHIN 5 YRS       0.56480       0.31900       0.13072       -0.41235       -0.9         YRS       NURSING EXPERIENCE       0.59917       0.31900       0.13072       -0.4118       0.2         YRS       NURSING EXPERIENCE       0.59917       0.31900       0.13072       -0.41235       -0.9         NR       DF CHILDREN       0.59917       0.35990       0.04000       0.24118       -0.2         NR       DF CHILDREN       0.59917       0.35990       0.04400       0.05769       -0.05664       -0.2         NR       DF CHILDREN       0.65657       0.41669       0.05769       0.06644       -0.1         ARE       CUURSES       PREREQUISITES       0.65657       0.41669       0.07471       -0.1         ARE       CUURSES       PREREQUISITES       0.65657       0.43130       0.007441       0.07477         ARE       COURSES       PREREQUISITES       0.43559       0.03529       0.2304       -0.2		•					CS.	BETA
DIR BASIC: PROGRAM EFFECTIVELY PREPARE       0.43391       0.18828       -0.43391       -0.7         PLAN TD COMLETE DEGREE WITHIN 5 YRS       0.56480       0.31900       0.13072       -0.41235       -0.9         YRS NURSING EXPERIENCE       0.59917       0.35900       0.04000       0.24118       0.2         NR DF CHILDREN       0.59917       0.35900       0.041669       0.05769       0.24118         AEE COURSES PREREOUISITES       0.65057       0.41669       0.05769       0.06742       0.13704         ARE COURSES PREREOUISITES       0.65092       0.43130       0.00441       0.07477       0.13704         ARE COURSES PREREOUISITES       0.65092       0.43730       0.00048       0.07374       0.13704         ARE COURSES PREREOUISITES       0.65092       0.43730       0.00048       0.07377       0.13704	ЗLE		1 I PLE				- -	
PLAN TD COMLETE DEGREE WITHIN 5. YRS       0.56480       0.31900       0.130/2       -0.41235       -0.24148         YRS NURSING EXPERIENCE       0.35900       0.04669       0.24118       0.2         NR DF CHILDREN       0.35900       0.04669       0.24118       0.2         MR DF CHILDREN       0.4552       0.41669       0.05769       -0.26604       -0.2         MEAN R.N. SCORE       0.65010       0.42262       0.06644       -0.2       0.13704       -0.14         ARE COURSES PREREOUISITES       0.65657       0.43108       0.06742       0.13704       -0.14         GRADUATION FROM INITIAL NURSING PROGR       0.65592       0.43708       0.00441       0.07477       -0.17         GRADUATION FROM INITIAL NURSING PROGR       0.66092       0.43730       0.001421       0.07477       -0.17         AGE       0.66129       0.43730       0.00048       -0.03529       -0.22		BASIC PROGRAM EFFECTIVELY	4		•		• ,	-0.45658
YRS NURSING EXPERIENCE       0.33500       0.3760       0.06604       0.0         NR DF CHILDREN       0.64552       0.41669       0.05769       0.13704       -0.2         NR DF CHILDREN       0.65010       0.43108       0.05743       0.13704       -0.2         REAN R.N. SCORE       0.6557       0.43108       0.05743       0.13704       -0.1         ARE COURSES PREREOUISITES       0.6557       0.43550       0.00141       0.07477       -0.1         GRADUATION FROM INITIAL NURSING PROGR       0.65592       0.43550       0.00132       0.07477       -0.1         TITLE OF POSITION       0.00132       0.43730       0.00048       -0.02304       -0.2         AGE       0.43730       0.43730       0.00048       -0.02304       -0.2	•	PLAN TO COMLETE DEGREE WITHIN 5 YRS					•	0 34998
MK UF CHILUKEN MEAN R.N. SCORE ARE COURSES PREREQUISITES C. 65010 C. 43108 C. 65710 C. 43108 C. 65932 C. 43550 C. 66142 C. 43108 C. 66142 C. 66129 C. 43730 C. 6044 C. 66142 C. 66129 C. 43730 C. 6044 C. 7477 C. 43730 C. 60747 C. 43730 C. 60747 C. 60747 C. 60747 C. 60747 C. 60742 C. 60742 C. 60742 C. 60742 C. 60742 C. 60747 C. 60742 C. 60744 C. 60744 C. 60744 C. 60744 C. 60744 C. 60747 C. 60744 C. 60744	.* 2 *	YRS NURSING EXPERIENCE	<u> </u>	ه ز		-0.06604	• •	
MEAN KIN SURFECOUISITES       0.65657       0.43108       0.00846       0.06742       0.1         ARE COURSES PREFEQUISITES       0.65592       0.43550       0.00441       0.07477       -0.1         GRADUATION FROM INITIAL NURSING PROGR       0.65992       0.43550       0.00132       0.07304       -0.7         TITLE OF POSITION       0.66129       0.43730       0.0048       -0.03529       -0.2         AGE       0.66129       0.43730       0.00048       -0.03529       -0.2				্ৰ		0.13704	4055501E-	Ξ.
GRADUATION FROM INITIAL NURSING PROGR 0.65992 0.43550 0.00441 0.07477 -0.1 TITLE DF POSITION 0.02304 -0.7 AGE 0.43730 0.00132 0.03529 -0.2 AGE 0.00048 -0.03529 -0.2		ARE COURSES PREREQUISITES	• - •	್	•	0.06742	. •	• •
TITLE DF POSITION AGE 0.43730 0.00048 -0.03529 -0.2 AGE 0.43730 0.00048 -0.03529 -0.2		GRADUATION FROM INITIAL NURSING PROGR		শ্	•		- r	-0.21036
AGE		TITLE OF POSITION	· .	ষ্ম	•	•	$\cdot$	•. •
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	DEPENDENT VARIABLE F7 IPR-COMMUNICATIO	ION	•				1 7 1
		NUS .	SUMMARY TABLE	ţ,	<i></i>	-	
VARIABLE	<b>C</b>	MULTIPLE R	R SQUARE	RSO CHANGE	SIMPLE R		BETA
V 15	YRS NURSING EXPERIENCE	0.38207	0 14598	0.14598	0 38207	0 1405417	PRQ45
V17	DID BASIC PROGRAM EFFECTIVELY PREPARE	0.50592					-0.45446
NN	MEAN R. N. SCORE			0.05270	-0.16074	-0.1090427	-0.39246
V18			0.33905	0.03040			0.32371
0	IYPE OF PROGRAM	•			•	÷.,	
5		0.64494			ć 🔬 🗆	-:	
44 V.C	CDADUATION FORM THITTAL AMARING PROCE	•	•		· ·	-	-0.27076
	NUKSING		<u>م</u> .	0.00421	-0.30535	-0.1290024	-0.34641
077	TITIT OF COMPLETE DEGREE WITHIN 5 YRS	•	<b>न</b> ় '				-0.13660
419 20102	ITTLE UP PUSTITUN	0.65813	0.43314	0.00556	-0.06597	-0.1114175	-0.09599
I NA L SNOD				•		4.850769	•
	• •	•	-				
•		1 -			ž		
DEPENDEN	DEPENDENT VARIABLE. F9 PRDFESSIONAL DEVELOPMENT	EVELOPMENT		•			· (]) :
•							
	·	SUM	SUMMARY TABLE	-			
VARJABLE		MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLER	ß	BETA
V 17	DID BASIC PROGRAM FFFFCTIVFLY PREPARE	2000	0 24102	0 14103		-0 6602646	
V 18	ARE COURSES PREREOUISITES	0.59299	0.35164		0 36457		
RN	MEAN R.N. SCORE	0.61436			•		
V5 .	TYPE OF PROGRAM	0.63844	0.40761	0 03017	•		
V15	YRS NURSING EXPERIENCE	0.64515			•		
<b>V1</b>	AGE	0.66550	· ` .				-0.94790
V4	NR OF CHILDREN	0.66853				1543096	9607E 01
V6	GRADUATION FROM INITIAL NURSING PROGR	0.67244	0.45218	0.00525	•		-0.37972
V16	TITLE OF POSITION	0.67584	0.45676	0.00458	-0.11183	۰.	-0.11547
V20	PLAN TO COMLETE DEGREE WITHIN 5 YRS	0.68160	0.46458		·		
(CONSTANT	~		-			4.719705	
-							•
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## APPENDIX F MULTIPLE REGRESSION GRADUATES

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DEPENDENT	DEPENDENT VARIABLE. F1 LEADERSHIP BEFORE	L L L L L L L L L L L L L L L L L L L		~	•		
		SUMA	SUMMARY TABLE	· · · · · · · · · · · · · · · · · · ·	•		
VARIABLE		MULTIPLE R	R SQUARE	RSO CHANGE	SIMPLE R	8	BETA
<b>V4</b>	NR OF CHILDREN	0.21148	0.04472	0.04472	0.21148	0.2755901	0.39939
V5 V13	TYPE DF PROGRAM Title of Position before	0.30293		0.00413	0.08051	0.1460961	0.07057
	AGE	0.30642			0.03022	0.1468375	CZ187.0
VG	GRADUATION FROM INITIAL NURSING PROGR	0.32921	0.10838	0-01449	-0.00215		
	MEAN R.N. SCORE FEELTIVELY DDEDADE	0.35738		0.00368	-0.12445	-0.2513800E-01 -0.6525474E-01	-0.05474 -0.04815
CONSTANT		• .		• `		-0.2600193	
		•		, ,			
		• •			, 		
• •		-	•		-	· ·	
DEPENDENT	DEPENDENT VARIABLE . F2 LEADERSHIP AFTE	æ	•	- - - -			•
		SUM	SUMMARY TABLE	•		•	· ·
VARIABLE		MULTIPLE R	R SOUARE	RSQ CHANGE	SIMPLER	80	BETA
V PCN	DIN BACCALAUDEATE DROGDAM FFF DRFPARF	0.51260	0.26276	0.26276	-0.51260	-3.875903	3 . 29303
101 101	/ FUNCTION AS EFFECTIVELY WITHOUT DEGREE	0.62745	0.39369	0.13093	0.47720	- 1,063945	-0.97637
N N	MEAN R. N. SCORE	0.70441	0.49620		-0.35887	0.8134482E-01	0.22716
V13		17.	0.52865	0.03246		-1.921881	-1.15461
V19	G.P.A.	•	0.56229		0.19069	0.2506878E=01	
V23	TITLE OF POSITION AFTER	0.76458	0.58458	0.02229	0.26403	-0.3043168F-01	-0.03018
V-18 -	WERE COURSES CREDITED TUWARDS DEGREE		0.62796	•	0.11328	1.877449	1.59511
6A			0.68149		•	-0.9174103	-2.41503
, 97	GRADIATION FROM INITIAL NURSING PROGR		0.71623	0.03474		-3.011603	-7.40111
V17	WERE PREREQUISITE COURSES REQUIRED	•		0.04483	-0.20976	-0.2747263E-01	÷.
	AGE		0.84262		-0.09297	-0.4568573	-1.11150
V4	NR OF CHILDREN	0.92787	0.86094	0.01832		-1.765024	-3.20460
V26		•			-0.26403	1,400.155	0.89529
V15	DID BASIC PROGRAM EFFECTIVELY PREPARE	0.98398	0.96823	61500.0	0.03361	0 600081 38 76874	
( CONSTANT				-			
						•	

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SUMMARY TABLE         SUMMARY TABLE           MEAN R. N. SCORE         SUMMARY TABLE           MEAN R. N. SCORE         O. 45725         0. 21833         0. 44725           YES NURSING EXPERIENCE         0. 45725         0. 21833         0. 44725         0. 45725           YES NURSING EXPERIENCE         0. 45725         0. 21833         0. 14705         0. 43725           TITLE OF POSITION BEFORE         0. 77248         0. 50753         0. 14705         0. 27421           NR OF CHILDREN         0. 77246         0. 50753         0. 14705         0. 27421           NR OF CHILDREN         0. 77843         0. 50753         0. 219349         0. 217400           NR OF CHILDREN         0. 77469         0. 57464         0. 021256         0. 021305           NR OF CHILDREN         0. 77469         0. 57463         0. 217400         0. 27400           NR OF CHILDREN         0. 75937         0. 57413         0. 00100         0. 13209           NR OF CHILDREN         MULTIPLE R         R SOUARE         8. MULTIPLE         R         0. 00100           NR OF CHILLER         0. 73837         0. 57433         0. 00100         0. 13229         0. 04319           NR OF CHILLER         R SOUARE         R SOUARE         R SOUARE			CRATION BEFOR	JKE		•			
IABLE         MULTIPLE         R         SOURRE         R50 CHANGE         SIMPLE         R         B           MEAN         SCORE         0.46725         0.21833         0.21833         0.218339         0.218389         0.1763395           WEAN         N. SCORE         0.14716         0.36536         0.21833         0.14725         0.218389         0.1763395           WEAN         N. SCORE         0.71846         0.35536         0.14225         0.21763395         0.16535         0.2163839         0.11655           NR DIG CHILDREN         NR DIG CHILDREN         0.72800         0.35443         0.01455         0.030563         0.232689         0.036563         0.036563         0.036563         0.036563         0.036563         0.036563         0.036563         0.036563         0.036563         0.036563         0.03666         0.03666         0.036563         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666         0.03666<			SUN		•			i.,	
WEAN R. N. SCORE       0.46725       0.21833       0.21833       0.45725       0.217421       0.765425         WILLE OF PORTINN BEFORE       0.778005       0.553995       0.14705       0.7765435       0.765435         WILLE OF PORTINN BEFORE       0.778005       0.553995       0.14705       0.776545       0.765455         WILLE OF PORTINN BEFORE       0.778005       0.554995       0.07256       0.03256       0.789353       0.789353         WILLE OF PORTINN BEFORE       0.77807       0.57513       0.07256       0.03266       0.03266       0.0336614       0.789353         WILLE OF PORTINN       0.778771       0.57513       0.072400       0.27400       0.27400       0.71477       0.77400         WILLE       TEACHING-CULLABORATION AFTER       0.77807       0.77404       0.07100       0.27400       0.27400         WILLE       FA       TEACHING-CULLABORATION AFTER       NULLIPLE R       R SOURCE       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27400       0.27404	IABLE				RSO CHANGE			8E1	Ā
TABLE       FILLE OF POSITION REFORCE       0.56446       0.35538       0.41705       0.47055       0.77421       0.776475         NETTLE OF POSITION REFORE       0.72300       0.52365       0.32256       0.322563       0.3036613         NETLE OF POSITION REFORE       0.77807       0.57807       0.57807       0.57807       0.32256       0.3036613       0.000633       0.3036613         NSTANT       0.77807       0.57513       0.07465       0.07276       0.32256       0.33361837       0.0306614         NSTANT       0.75713       0.757513       0.071651       0.77400       0.27400       0.3361837       0.0306614         NSTANT       0.75710       0.77403       0.77403       0.27400       0.27400       0.3361837       0.0306146         NSTANT       0.75710       0.77403       0.77400       0.27400       0.3361837       0.00060         NSTANT       0.7561       0.77403       0.77400       0.7146197       0.01446       0.01446       0.01446         NSTANT       NSTANT       0.75511       0.77400       0.77400       0.27400       0.747876       0.01446       0.01446       0.01446       0.01446       0.01446       0.01446       0.01446       0.01466       0.01466       <		MEAN R.N. SCORE	0.46725			-0.46725	•	-0.52	112
GRADUATION FERM INITIAL MIRSING PROGR         0.171248         0.5073         0.14225         1.02325         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637         0.335637637         0.335637637         0.335637637		YRS MURSING EXPERIENCE	0.60446	0.36538	0.14705	0.43241		1.62	859
ITLE OF POSITION BEFORE         0.73800-0.52399         0.02236         0.22258         0.2036614         0.0           TYPE OF PROGRAM         0.73910         0.54443         0.02348         0.2036517         0.2036517           NSTANT         TYPE OF PROGRAM         0.73917         0.51413         0.02148         0.2036517         0.203651           NSTANT         TYPE OF PROGRAM         0.73900         0.27400         0.22463         0.232657         0.0316517           NSTANT         TABLE         F         TEACHING-COLLABORATION AFTER         SUMMARY TABLE         0.27400         0.27400         0.23446-01         0.0316417         0.01167         0.0316417         0.01167         0.0316416-01         0.0316416         0.00100         0.274400         0.2348417         0.0316417         0.0316416         0.032641         0.0316416         0.032641         0.0316416         0.032641         0.032641         0.0326417         0.0316416         0.0324400         0.1418737         0.0112416         0.0112416         0.011241         0.011241         0.014167         0.011241         0.014167         0.014167         0.011241         0.011241         0.011241         0.011241         0.014167         0.014167         0.014167         0.0141677         0.014167         0.0141677		GRADUATION FROM INITIAL NURSING PROGR	0.71248	0.50763			0.7683839	1.60	7293
NR         OF FRILDREN         0.73771         0.57413         0.01465         -0.00533         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2026537         0.2024537         0.2024537         0.2024537         0.2024537         0.2024537         0.2024537         0.2024537         0.2024537         0.2024537         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337         0.2024337<		TITLE OF POSITION BEFORE	0.72800-		0.02236	0.32258	•	0.18	1287
TYPE         OF         PROGRAM         O. 15711         O. 57513         O. 27400         O. 27400         O. 3381837         O. 9960144E-01           NSTANT         AGE         TEACHING-COLLABORATION AFTER         0.00100         0.27400         O. 3386144E-01         O           ENDENT         VARIABLE.         F         TEACHING-COLLABORATION AFTER         SUMMARY TABLE         0.00100         0.27400         O. 3960144E-01         O           ENDENT         VARIABLE.         F         TEACHING-COLLABORATION AFTER         SUMMARY TABLE         N. 1418797         O         O         0.0123         O         0.0136         O         0.0136         O         0.0136         O         0.0124         O         0.141677         O         0         0.141677         O         O         0.141677         O         O         0.14244         O         0.141677         O         0		NR OF CHILDREN	0.73800		•	-0.00583	•	0.31	141
NSTANT)       JGE       0.75837       0.57513       0.00100       0.27400       -0.396014E-01       -0         ENDENT       VARIABLE       F4       TEACHING-COLLABDRATION AFTER       SUMMARY TABLE       NULTIPLE       R       -0.739103       -0.739103       -1.478797       -0.478997       -0.478997       -0.478997       -0.478997       -0.478997       -0.478997       -0.478997       -0.478997       -0.478997       -0.478997       -0.478997       -0.4789103       -0.47879       -0.4789103       -0.47879       -0.4411675E-01       -0.43129       0.141675E-01       -0.43129       0.141675E-01       -0.43129       -0.1411675E-01       -0.1223177       -0.142310       -0.1223177 </td <td>۱.</td> <td>ш</td> <td>0.75771</td> <td>•</td> <td>•</td> <td>-0.13209</td> <td></td> <td>-0.24</td> <td>1477</td>	۱.	ш	0.75771	•	•	-0.13209		-0.24	1477
CMDENT VARIABLE.         FA         TEACHING-COLLABORATION AFTER           SUMMARY TABLE         SUMMARY TABLE         SUMMARY TABLE           FUNCTION A5 EFFECTIVELY WITHOUT DEGREE         0.71661         0.712424         0.73930           OBSTAIN POSITION AFTER         0.71661         0.71661         0.71547         0.73930           DBTAIN POSITION AFTER         0.71661         0.71661         0.71661         0.71403         0.71403           DBTAIN POSITION AFTER         0.71661         0.71403         0.71403         0.72443         0.73930         0.74424           TITLE 0F POSITION AFTER         0.84504         0.71403         0.72482         0.73930         0.72443         0.73930         0.724439         0.739409         0.7444916           TITLE 0F POSITION AFTER         0.84504         0.71403         0.02442         0.116673E-01         0.02442           TITLE 0F POSITION AFTER         0.87237         0.73830         0.02442         0.11630         0.739409         0.14441673E-01           TITLE 0F POSITION AFTER         0.89723	NSTANI	~	•		•	•	3960144E	-0.08	1231
KNDENT VARIABLEFATEACHING-COLLABORATION AFTERKNDENT VARIABLEFFKNDENT VARIABLEFSUMMARY TABLESUMMARY TABLESUMMARY TABLESUMMARY TABLEFUNCTION AS EFFECTIVELY MITHOUT DEGREE0.51334FUNCTION AS EFFECTIVELY0.71661FORD0.71661FORD0.71661FORD0.71661FORD0.71661FORD0.71661FORD0.72422FORD0.72423FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.74892FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.74892FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.84532FEAN R. N. SCORE0.84532FEAN R. N. SCORE0.73890FEAN R. N. SCORE0.84532FEAN R. N. SCORE0.84532FEAN R. N. SCORE0.94593FEAN R. N. SCORE0.94593FEAN R. N. SCORE0.94093FEAN R. N. SCORE0.94093FEAN R. NE SCORENA EFFECTIVELY PREPARE0.94093FEAN R. NE COURSEAM			·	X				•	
Indext         Teaching-collaboration after         Summary table         R         Summary table         Summary tabl				•		•	х. Х.		
ENDENT         VARIABLE         F4         TEACHING-COLLABORATION AFTER           IABLE         SUMMARY         TABLE         SUMMARY         TABLE           IABLE         SUMMARY         TABLE         SUMMARY         TABLE           IABLE         MULTIPLE         R         SUMMARY         TABLE           FUNCTION         AS         EFFECTIVELY         WITHOUT         DEGREE         0.51354         0.13823         -0.7391033         -0           ITILE         OF         POSITION         AFFER         DEGREE         0.51354         0.14244         -0.7391033         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         -0         0<							•		
IABLE         SUMMARY TABLE           IABLE         FUNCTION ÅS EFFECTIVELY WITHOUT DEGREE         0.62393         0.38929         0.38929         0.7391033           FUNCTION ÅS EFFECTIVELY WITHOUT DEGREE         0.71661         0.51354         0.12424         0.7391033         -0<7391033           DISTION ÅS EFFECTIVELY WITHOUT DEGREE         0.71661         0.51354         0.12424         -0.49179         -0.1411673E-01           TITLE OF POSITION ÅFTER         DEGREE         0.71661         0.51354         0.12424         -0.24918         -0.244918           TITLE OF POSITION ÅFTER         0.84504         0.71409         0.02482         0.214631         -0.12656         -0           RAN R.M. SCORE         0.84504         0.71409         0.02482         0.01233         1.734403         -0           RAN R.M. SCORE         0.84504         0.71409         0.02213         0.73403         -0         -0           RAN R.M. SCORE         0.84504         0.71403         0.02213         0.73403         -0         -0         -0           RAN R.M. SCORE         0.84504         0.71403         0.02213         0.73403         -0         -0         -0         -0         -0         -1734403         -17342403         -17342403         -1734240	ENDENI	F 4	RATION	X	-	•		· · ·	
MULTIPLE         R         SQUARE         R50         CHANGE         SIMPLE         R         B           FUNCTION         AFFECTIVELY         MITHOUT         DEGREE         0.51354         0.38929         0.623393         -0.7391033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         7031033         -0         70         70         -0         71416775         -0         71416775         -0         71416775         -0         71416775         -0         71416775         -0         71416775         -0         71416775         -0         71416775         -0         71416775         -0         14116735         -0         -0         -0         -0         -0         -0         -0         -0         -0         1416735         -0         -0         1416735         -0         1416735         -0         -0         1416735         -0         1416735         -0         141633         -0         141633         -0         10         10	Ŀ		ŜŪ			, '		•	
FUNCTION AS EFFECTIVELY WITHOUT DEGREE         0.62333         0.38929         0.38929         0.38929         0.38929         0.38919         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.7391033         -0.739103         -0.7403         -0.24880         -0.24880         -0.248960         -0.248960         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.2424918         -0.24218         -0.24218<	LABLE						۵۵ ۲	9 <b>ET</b>	`. 
OBTAIN         POSITION         AFTER         DEGREE         0.71661         0.51354         0.12424         -0.49179         -0.1411673E-01         -0.176643E-01         -0.17643E-01         -0.1762425         -0.011762425         -0.011762425         -0.011762425         -0.011762425         -0.011762425         -0.011672435         -0.011762425         -0.011762425         -0.0117666         -1.225277         -0.011762425         -0.011762425         -0.011762425         -0.011762425         -0.011762425         -0.011762425         -0.011762425         -0.011762425         -0.011762475	· .		•	•			-0.7391033	44 U-	5
TITLE OF POSITION AFTER       0.83018       0.68920       0.17567       0.29187       -2.069100         MEAN R.N. SCORE       0.84504       0.71409       0.02488       -0.28860       0.2424918         MEAN R.N. SCORE       0.84504       0.71409       0.02482       0.31163       -2.069100         TYPE 0F PROGRAM       0.87504       0.716103       0.02482       0.31163       -0.350543         TYPE 0F PROGRAM       0.87703       0.76103       0.02313       1.3334003       -0.24822         YRS 10 COMPLETE PROGRAM       0.87103       0.76103       0.02878       -0.011333       1.762425         TITLE 0F POGRAM       0.99462       0.81834       0.02878       -0.011130       -1.225277         DID BASIC PROGRAM EFF PREPARE       0.93322       0.81734       0.02350       -0.447190       -1.225277         DID BASIC PROGRAM EFF CTIVELY PREPARE       0.93322       0.81704       0.014110       -0.04711       -0.86769       -2.25277         DID BASIC PROGRAM EFF PREPARE       0.93322       0.81704       0.01329       -0.044711       -0.8677696       -2.25277         DID BASIC PROGRAM EFF PREPARE       0.933222       0.88705       0.01329       -0.044711       -0.469666       -2.252697         AGE		OBTAIN POSITION AFTER DEGREE	•		0.12424			50 C-	096
MEAN         R. N. SCORE         0.84504         0.71409         0.02488         -0.28860         0.2424918           G.P.A.         0.84504         0.71409         0.02482         0.31163         -0.3502543           TYPE         0F         PROGRAM         0.87237         0.76103         0.02482         0.31163         -0.3502543           TYPE         0F         PROGRAM         0.87237         0.76103         0.02482         0.31163         -0.3502543           TTLE         0F         PROGRAM         0.87130         0.76103         0.02213         0.1762425           TTLE         0F         PROGRAM         0.93292         0.81834         0.02878         -0.1762425           DID         BASIC         PROGRAM         0.74103         0.025199         -0.11130         -1.225277           DID         BASIC         PROGRAM         FFF         PREPARE         0.93292         0.88779         0.03496         -1.225277           DID         BASIC         PROGRAM         FFF         PROS         0.01344         -0.24849         -1.225277           VRS         NURSING         EXPREME         0.93122         0.887769         0.003940         0.2484792         -1.24666         -1.225577 </td <td>-</td> <td>TITLE OF POSITION AFTER</td> <td></td> <td></td> <td>0.17567</td> <td>· •</td> <td></td> <td>-1.40</td> <td>170</td>	-	TITLE OF POSITION AFTER			0.17567	· •		-1.40	170
G.P.A.       0.85960       0.73890       0.02482       0.31163       -0.3502543         TYPE       0F       PROGRAM       0.87237       0.76103       0.02133       1:334003         YRS       TO       COMPLETE       PROGRAM       0.88372       0.76103       0.02213       0.1762425         YRS       TO       COMPLETE       PROGRAM       0.98872       0.81834       0.01233       1:334003         YRS       TO       COMPLETE       PROGRAM       0.88372       0.78982       0.001233       1:324033         TITLE       OF       POSTITION BEFORE       0.93292       0.81834       0.025199       -0.1762425       -1.225277         DID       BASIC       PROGRAM       EFF       PREPARE       0.933222       0.817034       0.05199       -0.163940       0.162466       -1.225277         DID       BASIC       PROGRAM       EFF       PREPARE       0.933222       0.887034       0.00350       0.034471       -0.63847692       -0.130411       -0.24877696       -1.225277         AGE       NURSING       EXPREINGE       0.94713       0.887059       0.00350       0.04471       -0.64877696       -1.2487696       -1.246966       -1.246966       -1.246966       -1		MEAN R. N. SCORE	•		0.02488		0.2424918	0.64	812
ITPL BF PROGRAM       0.01233       0.01233       1:334003         VRS T0 COMPLETE PROGRAM       0.01233       0.01233       1:334003         VRS T0 COMPLETE PROGRAM       0.088872       0.78982       0.02878       -0.08598       -0.1762425         VRS T0 COMPLETE PROGRAM       FF       0.90462       0.81834       0.02852       -0.11130       -1.225277       -0.         DID BACCALAUREATE PROGRAM       FFF PROGRAM       FFF       0.93292       0.81834       0.00599       -0.1162425       -0.         DID BASIC PROGRAM       FFF FFT PREPARE       0.93292       0.818377       0.00599       -1.225277       -0.         DID BASIC PROGRAM       FFFECTIVELY PREPARE       0.933292       0.88377       0.00599       -0.48375096       -2.         DID BASIC PROGRAM       FFFECTIVELY PREPARE       0.933222       0.88377       0.00350       0.04471       -0.88276996F-01       -2.         AGE       0.94009       0.88377       0.001329       0.13041       -0.1437504       -4.         AGE       VRS ING EXPERIENCE       0.94713       0.89705       0.001329       0.13041       -1.245449         VR M. OF CHILDREN       0.99637       0.00312       -0.013266       -1.245449       -4.	•	G.P.A.	•	•	0.02482	0.31163	•	-0.48	223
TKS 10 CUMPLETE PROGRAM       0.88872       0.78982       0.02878       -0.01762425       -0.1762425         TITLE OF POSITION BEFORE       0.90462       0.81834       0.02852       -0.11130       -1.225277       -0.         DID BASIC PROGRAM EFF PREPARE       0.93292       0.81034       0.02852       -0.11130       -1.225277       -0.         DID BASIC PROGRAM EFF PREPARE       0.93292       0.87034       0.02852       -0.11130       -1.225277       -0.         DID BASIC PROGRAM EFF PREPARE       0.93292       0.88026       0.03340       0.884792       0.         AGE       0.93202       0.88026       0.00392       -0.0340       0.884792       0.         AGE       0.94009       0.88377       0.00392       0.03411       -0.8847921       -0.         AGE       0.94703       0.880755       0.00314       -0.88276996-01       -1.969967       -1.         YRS NURSING EXPERIENCE       0.94703       0.90637       0.00329       0.013241       -0.88276996-01       -1.         YRS NURSING EXPERIENCE       0.94703       0.90931       -0.07329       0.03411       -0.8837504       -1.         YR OF CHILDREN       0.95203       0.996377       0.90931       -0.031066       -1.245449	•	UF PRUGRAM			0.02213	0.01233	1 334003	1,08	477
DID         BACCALAUREATE         PREPARE         0.90462         0.81834         0.02852         -0.11130         -1.225277         -0.           DID         BACCALAUREATE         PROGRAM         EFF         PREPARE         0.93292         0.81034         0.05199         -0.46966         -3.386769         -2           DID         BASIC PROGRAM         EFF         PREPARE         0.93292         0.88026         0.00392         -0.03940         0.8847921         -2           DID         BASIC PROGRAM         EFFECTIVELY         PREPARE         0.938222         0.88026         0.00392         -0.03940         0.8847921         -2           AGE         0.94703         0.88075         0.00350         0.04471         -0.8847921         -0         -1           AGE         NR SING         EXPERIENCE         0.94703         0.88775         0.00314         -0.4837504         -1         -1           ARS         NURSING         FROM INITIAL         NURSING         PR0931         -0.03941         -1.24549         -1         -1           NR . OF         CHILDREN         0.99133         0.99637         0.90931         -0.031066         -1.245449         -4           NR . OF         CHILDREN <td< td=""><td></td><td>TO CUMPLETE PRUGRAM</td><td></td><td>•</td><td>0.02878</td><td>-0.08598</td><td></td><td>-0.25</td><td>606</td></td<>		TO CUMPLETE PRUGRAM		•	0.02878	-0.08598		-0.25	606
ULU BALCALAUREATE PRUGRAM EFF PREPARE 0.93292 0.87034 0.05199 -0.46966 -3.386769 -2. DID BASIC PROGRAM EFFECTIVELY PREPARE 0.938222 0.88026 0.00992 -0.03940 0.8847921 0.0 AGE VRS NURSING EXPERIENCE 0.944009 0.88377 0.00350 0.04471 -0.8827699E-01 -0. YRS NURSING EXPERIENCE 0.94713 0.89705 0.00350 0.013041 -0.4837504 -1. GRADUATION FROM INITIAL NURSING PROGR 0.95203 # 0.90637 0.00331 -0.037066 -1.245449 -2. NR OF CHILDREN 0.99113 0.99205 0.00135 -0.00134 0.1422923 0.		E UP PUSITIUN BEFURE		•	0.02852	-0.11130	÷		153
UIU BASIC PRUGRAM EFFECTIVELY PREPARE 0.93822 0.88026 0.00992 -0.03940 0.8847921 0. AGE 0.94009 0.88377 0.00350 0.04471 -0.8827699E-01 -0. YRS NURSING EXPERIENCE 0.94713 0.89705 0.01329 0.13041 -0.4837504 -1 GRADUATION FROM INITIAL NURSING PROGR 0.95203 7 0.90637 0.00931 -0.02601 -1.969967 -4 NR.OF CHILDREN 1.245449 -2. NR.OF CHILDREN 0.9113 0.98235 0.00135 -0.0134 0.1422923 0.		BACCALAUREATE PROGRAM		· •	0.05199		-3.386769	•	5
AGE         0.04471         0.088377         0.00350         0.04471         -0.8827699E-01         -0.           YRS NURSING EXPERIENCE         0.94713         0.89705         0.01329         0.13041         -0.4837504         -1           YRS NURSING EXPERIENCE         0.94713         0.89705         0.01329         0.13041         -0.4837504         -1           RRADUATION FROM INITIAL NURSING PROGR         0.95203         0.90637         0.00931         -0.02601         -1.969967         -4           NR. OF CHILDREN         0.99045         0.986099         0.07463         -0.37066         -1.245449         -2           WERE COURSES CREDITED TOWARDS DEGREE         0.99113         0.98235         0.00134         0.1422923         0.		BASIC PROGRAM EFFECTIVELY			0.00992	-0.03940	0.8847921		8.15
VRS NURSING EXPERIENCE         0.94713         0.89705         0.01329         0.13041         -0.4837504         -1           GRADUATION FROM INITIAL NURSING PROGR         0.95203         0.90637         0.00931         -0.02601         -1.969967         -4           NR. OF CHILDREN         0.99045         0.98099         0.07463         -0.37066         -1.245449         -2           NR. OF CHILDREN         0.99113         0.98235         0.00134         0.1422923         -2		AGE			0.00350	0.04471	.8827699E		556
GRADUATION FROM INITIAL NURSING PROGR 0.95203 # 0.90637 0.00931 -0.02601 -1.969967 -4.1 NR. OF CHILDREN NR OF CHILDREN WERE COURSES CREDITED TOWARDS/DEGREE 0.99113 0.98235 0.00135 -0.00134 0.1422923 0.	,	YRS NURSING EXPERIENCE	0.94713	•	0.01329	0.13041	-0.4837504		881
NR. OF CHILDREN 0.99045 0.98099 0.07463 -0.37066 -1.245449 -2. WERE COURSES CREDITED TOWARDS DEGREE 0.99113 0.98235 0.00135 -0.00134 0.1422923 0.		GRADUATION FROM INITIAL NURSING PROGR	0.95203		0.00931	-0.02601	-1.969967	-4.63	356
WERE COURSES CREDITED TOWARDS/DEGREE 0.99113 0.98235 0.00135 -0.00134 0.1422923	Ċ	NR OF CHILDREN				-0.37066	-1.245449		424
	718	WERE COURSES CREDITED TOWARDS DEGREE	•		0.00135				675

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	DEPENDENT VARIABLE. F5 PLANNING-EVALU	UATION BEFORE		۰.	a t	REGRE	REGRESSION LIST
		SUM	SUMMARY TABLE	*	·	χ	
VARIABLE		MULTIPLE R	R SQUARE	RSO CHANGE	SIMPLE R	£	BETA
•	DID BASIC PROGRAM EFFECTIVELY PREPARE		0.01087	0.01087	-0.10428	-0.2131311E-01	-0.01795
ş.	GRADUATION FROM INITIAL NURSING PROGR		0.02350	0.01262	0.09613	1.038158	2-27097
V14	YRS NURSING EXPERIENCE	0.46325	0.21460	0.19111	0.09743	0.8736159	2.08210
•	NR OF CHILDREN	0.58806	0.34582	0.13122	-0.03307	0.4442778	0.71588
	TITLE OF POSITION BEFORE	•		0.04821	0.04858	0.2700378	0.17052
•	TYPE OF PROGRAM		0.41180	0.01777	0,03157	-0.4607410	-0.34968
•		• '	۰.	0.01721	-0.10423	-0.1898454	-0.41375
CONSTANT)	MEAN R.N. SCORE	0.66547	0.44285	0.01384	-0.02361	-0.5231520E-01	-0.1321
		•			-	-2.723412	•
		-					
ENDENT	DEPENDENT VARIABLE FG PLANNING-EVALU	UATION AFTER	,	: : :			к 1
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		SUN	SUMMARY TABLE		-		, F
VARIABLE		MULTIPLER	R. SOUARE	RSQ CHANGE	SIMPLE R	. <b>8</b>	BETA
V24	DID BACCALAUREATE PROGRAM EFF PREPARE	0.53922	0.29075	0.29075	-0.53922	-1.948577	-1 974RA
	NR OF CHILDREN	0.69875	0.48825	0.19750	-0.44860	-1.420734	-2.99908
•	MEAN R.N. SCORE	0.71784	•	0.02704	-0.17823	-0.4610356E-01	-0.14969
	IYPE OF PROGRAM	0.73030	•	0.01804	0.22010	1.187656	1.17319
	WERE PREREQUISITE COURSES REQUIRED	0.76171	· ·	. 0.04686	-0.17356	0.5516167E-01	0.05886
*	GRAUUATION FROM INITIAL NURSING PROGR	•	•	0.04089	0.33378	-2.436360	-6.96136
1412	TTT T OF DODIETON TTTT	0.81161	•			-0.7538663	-2.30731
,	VITLE UP POSITION BEFORE	•	•	0.02823	-0.18058	-1.416089	-0.98913
07.0	TKS IU CUMPLETE PROGRAM	0.84551	· •	· •	-0.18050	0.1482037	0.26460
	G. P. A.		1 e -	0.02488	0.24446	0.3710754	0.62062
	AGE	•	٠	•		-0.8207931	
	UBIAIN PUSITION AFTER DEGREE	•	0.85306		-0.30085	1.409663	•
81A	WERE COURSES CREDITED TOWARDS DEGREE	•	•		-002860	-0.5629370	-0.60915
V23	TITLE OF POSITION AFTER	· •	•	0.03198	0.39619	-2.219503	-1-83434
CZ/	FUNCTION AS EFFECTIVELY WITHOUT DEGREE	0.97082	0.94250	0.01099	0.33370	-0.4721754	-0.50379

DEPENDENT VARIABLE	VARIABLE. F7 IPR-COMMUNICATION BEFO	ION BEFORE	· ·	-	-		REGRESSION	IN LIST 1	
		SUM	SUMMARY TABLE			•	· · ·		
VARIABLE		MULTIPLE R	R SQUARE	RSQ CHANGE	SIMPLER		•	BETA	
RN	MEAN R.N. SCORE	0.50170	0 25171	0 25171	-0 50170	Cat 7001 0-			
V13	TITLE OF POSITION BEFORE		0.29693		-0.08231	-0.2788485	,	-0.12892	7
V5	TYPE OF PROGRAM	0.58954	0.34756	0.05063	-0.09319	-0 5153867		- P 5553 0-	
VG	GRADUATION FROM INITIAL NURSING PROGR	0.61663		- ° •	0.03266	0.4727433		1 49430	
V14	YRS NURSING EXPERIENCE	0.67925	0.46139	0.08116	0.05414	0.3168927			
<b>V4</b>	NR OF CHILDREN	0.70282	0.49395	0.03257	-0.08523	0.1364140		21764	
V15	DID BASIC PROGRAM EFFECTIVELY PREPARE	0.70952	0.50343	0.00947	-0.13807	0.9956206E-0		0 12114	
( CONSTANT)		) 						•	
		-		۰.	• •				
			•		• .	• • •	• •		
DEPENDENT VARIABLE	VARIABLE. FB IPR-COMMUNICATION AFTER	ION AFTER	•				```	• •	
				•				•	
,		SUM	SUMMARY TABLE	•	то И		•		
VARIABLE		MULTIPLE R	R SQUARE	RSO CHANGE	SIMPLER			RFTA	
V26	OBTAIN POSITION AFTER DECREE				, , , , ,	•			
V24	DID BACCALAUREATE PRICEAM FEF PDEPADE		•	0.26902	-0.51867,	0.4161465		0.32987	
RN		0.53544			-0.46994	-3.132399	X	-2.96773	
V23	TITLE OF POSITION KETED	0.14468		0.08336	-0, 50338	0.1070635E-01		0.03334	
V14	YRS NURSING EXDEDIENCE		0.62213	•	0.05890	-2.730543		-2.16444	
V4				0.06039	-0.06670	-0.6433118		- 1 ARA44	
V6	GRADUATION FORM INITIAL MUDITUC SOCO	0.86451	0.74738		-0.24499	-1.164061		-2.35680	2
V13	TITLE OF DOCITION DEFORT	0.88196		0.03047	0.09157	-1.950086		-5 34413	
V20	VPS TO COMPLETE BOOCDAM			0.03900	-0.21527	-1.150106			
2.2	TVDE OF DDOADAM	0.93615	•	0.05952	-0.04970	-0.9258869E-01		-0 15855	
205	CLEATION AS FFERONTIAL ALLESS	0.95449	٠		-0.02648			I GACAN	,
V17	WEDE DDEDEMILSTE CONNECT DISCHARE	0.97787	•		0.41422	-0.8819956		-0 90758	
2.45	DID BALL PRODAM TITLE COURSES REGUIRED	0.98212	0.96457	0.00833	-0.26933	0.2087204			
	UTU DADIU PRUGRAM EFFELIIVELY PREPARE	0.98861	•	0.01278	-0.13067	0.3897579			
	L.	0.99172	0.98351	0.00616	-0.06436	-0.1065124			
( CONSTANT)	WERE CUURSES CREDITED TOWARDS DEGREE	0.99238	0.98481	0.00131	0.09796	0.1096830			
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•		SUM	SUMMARY TABLE				, e		
VARIABLE		WILTIPLE R	R SQUARE	RSQ CHANGE	SIMPLE R	. 80		BETA	*
Z	MEAN R. N. SCORE	0.15954	0.02545	0.02545	-0.15854	-0, 7003273£-01	<b>.</b>	-0. 19396	
<b>~</b> 5	TYPE OF PROGRAM	0.21608		•	-0.12818	-0.2571530	•	-0.21404	
V14	YRS NURSING EXPERIENCE	0.23489	0.05517	0.00848				0. 13497	
44	NR OF CHILDREN	0.25032	0.06266	0.00749	0.09082			0.24149	
<b>V6</b>	GRADUATION FROM INITIAL NURSING PROGR	0.28237	0:07973	0.01707	-0.04116	•••	•	0.69641	
	AGE	0.29048	•	0.00464	0.05776			0.31100	¥A
012	UIU'BASIC PROGRAM EFFECTIVELY PREPARE	0. 29880	. •	0.00491	-0.12669	Ξ.	•	-0.12862	
	IIILE UP PUSIFION BEFORE	0.30486	0.09294	0.00366	0.06824	0.1115262	,	0.07724	ġ.
						1 977809		•	4
		4 4	; ;						
EPENDENT	DEPENDENT VARIABLE. F10 PROFESSIONAL DEVELOPM	EVELOPMENT AFT	TER	•					
									. •
•		v	SUMMARY TABLE	( e*) V		ю			
VARIABLE		WILTIPLE R	R SQUARE	RSO CHANGE	SIMPLE R	80		BETA	
V24	DID BACCALAUREATE PROGRAM EFF PRFPARF	0.41810	1 1 1 1 1	50, 10, 10,			, 8		
V26		0 51734	0 25754	0.1/481	-0.41810	-2.413642	•	•	•
V15	DID BASIC PROGRAM EFFECTIVELY PREPARE	0.57399	0 32946	•	01125.0-	-0.1/33567	•	-0.15183	
<b>V</b> 5	TYPE OF PROGRAM	0.63256	0.40013	•	-0.0020	0.8467633		0.98646	
V17	WERE PREREQUISITE COURSES REQUIRED	0.67587	0.45679	0.05667	-0.08611			0.66364	
07.0	YRS TO COMPLETE PROGRAM	0.70123	0.49172	0.03493	0.09687	0.3683660	۰,		
01.A	WERE COURSES CREDITED TOWARDS DEGREE	0.72287	0.52254	0.03082	0.00473	0.310830			
	VDC ANDUNITION THOM INTIAL NUKSING PROGR	•		•	-0.04340	-2,580839	•		
	C D A	0.77250				-0.9035628	'	-2.93054	
V25	EINDTION AT FEEDATIVELY WITHOUT PROPER	0.79678	٠		•	0.5283994		0.93649	
V4 N	ND OF CHINDEN	0.82523		•	0.38815	-1.113720	•	-1.25923	
V13	TITLE OF DACITION BEENDE	5.6	•	•	-0.11372	-1.200168	'	-2.68470	
V23	OF POSITION	0.92278		0.08411	-0.00163	-1.264519	1	-0.93598	
			8/508.0	0.05426	•	-2.209718	•		
(CONSTANT)		00000 10	•	18580.0	0.03429	-0.6180027	•	-1,85247	
						22 NREEDE		Í	

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