Women & Children's Health Research Institute



Supporting Research Excellence

May 2006 to June 2013









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WCHRI is a partnership between the University of Alberta and Alberta Health Services, with the generous support of the Stollery Children's Hospital Foundation and the Royal Alexandra Hospital Foundation. Also, the Faculty of Medicine & Dentistry provides operating and in-kind support.

The University of Alberta and the Faculty of Medicine & Dentistry

The University of Alberta strives to create and support an environment of research excellence across the university to fuel knowledge advancement, discovery and innovation; all of which provide significant contributions to society provincially, nationally and globally. It is through the continued support of the University of Alberta's Faculty of Medicine & Dentistry (FoMD), that WCHRI can house many of its core groups and its entire administrative staff. FoMD also provides partial funding for WCHRI's operating expenses, without which WCHRI would not be able to manage its many grants programs and research support initiatives.

Alberta Health Services

Alberta Health Services is a strong and active supporter of WCHRI and their guidance has been invaluable in ensuring that women's health and Alberta Health Services' standards in the delivery of clinical care, wellness and prevention in Alberta remain a focus of WCHRI's mandate.

The Stollery Children's Hospital Foundation

The Stollery Children's Hospital Foundation is dedicated to raising funds for specialized equipment, subspecialty medical education to train the best of the best, research to pave the way to the discovery of new treatments or cures for child health issues, and specialized programs that improve patient and family outcomes at the Stollery Children's Hospital.

The Royal Alexandra Hospital Foundation

The Royal Alexandra Hospital Foundation inspires community support for their healthcare facilities. The Foundation empowers compassionate, leading-edge patient care through education, research, technology and facility enhancements. They provide support for the Lois Hole Hospital for Women and a growing number of specialized centres of healthcare located at the Royal Alexandra Campus.





WCHRI: An Overview

Catalyze, Facilitate and ensure Accountability (Performance and Financial)

Power of Partnership: The best hospitals with the best care are the ones who invest in discovery. These are the innovators and leaders, shaping our health system for the future. The Women & Children's Health Research Institute (WCHRI) acts as the research arm for the Stollery Children's Hospital and the Lois Hole Hospital for Women and is the steward of their respective Foundations' investment in health research. The vision of WCHRI is to improve health outcomes for women and children through research; a vision that is shared by the University of Alberta (U of A) and Alberta Health Services (AHS).

With core funding from the Stollery Children's Hospital Foundation (SCHF) (focused on improving children's health) and the Royal Alexandra Hospital Foundation (RAHF) (focused on improving women's health), the vision of WCHRI can be realized. This unique structure creates a collaborative environment with a shared focus on maternal, fetal and newborn health and the families of these patients. The value of WCHRI is particularly important in Edmonton as the most complicated pregnancies are delivered at the Lois Hole Hospital for Women along with care of the newborns while the Stollery Children's Hospital cares for children from birth through adolescence.

Vision

Improved health outcomes for women and children through research

Mission

To effect meaningful health outcomes through cutting-edge transdisciplinary research

Goals

- To facilitate basic and applied health research activities focused on women and children's health
- To encourage collaborative and translational research within the university and outside (community, industry, national/international institutions)
- To promote training in health research with a focus on women and children
- To provide a unified team approach for facilitating communication and establishing representation to the public, granting agencies and authorities
- To ultimately translate this knowledge for the purpose of providing the best clinical health outcomes and clinical practice guidelines
- To impact locally, provincially, nationally as a catalyst for research and an advocate for women and children's health
- To provide a mechanism for performance accountability
- To be a vehicle for communication of research outcomes

WCHRI: An Overview

WCHRI supports research organized into these three broad themes:

- Perinatal Health
- Children's Health
- Women's Health

Many disorders of both women and children affect multiple organ systems and require complex care and collaborative research. The researchers and clinicians of WCHRI are focusing on more effective ways to improve the care and health of these patients. Moreover, research focused on women and children's health can lead to prevention and reduction of long-term health complications as adults. Research leading to healthier children creates a positive cycle of human development that includes pregnancy, birth, growth and development through childhood and adolescence to adulthood. Our researchers investigate fundamental aspects of this cycle and direct the translation of new information into clinical knowledge, improved health care and a healthier population in general.

WCHRI promotes the full spectrum of biomedical, clinical and translational research through the following resources:

1. Research Grants

Innovation operating grants, emerging team operating grants, bridge funding grants, graduate studentships, resident trainee research projects, trainee travel funds, summer studentships, scientific knowledge exchange programs (SKEP) and grant development assistance

2. Research Support

Endowed and Research Chairs, start-up funds, partnerships, educational programs and an annual Research Day

3. Core Services

Supports basic, clinical and community-based research activities, and includes:

- Clinical research informatics
- Clinical research coordination
- Biostatistics service
- Lois Hole clinical research unit
- Lipid and lipid metabolite analysis
- Genotyping services
- Community-based research consultation
- Qualitative research consultation
- Knowledge translation consultation

WCHRI: An Overview

2013 Summary

WCHRI will continue to support new initiatives in research leading to improved health outcomes. WCHRI is committed to the belief that research is integral to excellence in care. Members of WCHRI bring their great talents and skills in research and care to benefit all of our patients and the community. Discovery research in WCHRI continues to provide innovative and novel ideas, which form the foundation for advancement in policy and health care in our province and nationally.

One of our new initiatives is the 'Concept to Completion' approach, which is an idea/project-based workflow process that will allow WCHRI to maximize the value and impact of the services we provide. The concept will facilitate the development and implementation of a more comprehensive strategy for research priorities, and to plan and conduct health research. Targeted research projects will demonstrate the 'integrated research hospital/clinic' concept, thereby delivering on excellence in health care and research.

A second WCHRI initiative is to identify and facilitate team development to tackle important health issues in women and children's health. This initiative is designed to bring both infrastructure support and networking capacity to the development of programs, and to facilitate the establishment and growth of interdisciplinary teams to challenge larger, more complex research questions than can be addressed by individual research laboratories. As a first step towards this initiative, WCHRI has partnered with the Department of Pediatrics to facilitate a program termed 'Connecting through Research' as a mechanism to bring members of the WCHRI research community together to share expertise and resources.

WCHRI has embraced several provincial initiatives. For instance, WCHRI is playing a key role in the development of the research strategies and directions of the Strategic Clinical Networks (SCNs¹) focused on child and maternal health. A national initiative, the Strategy for Patient Oriented Research (SPOR) is being established to advance research in humans through the development of core infrastructure, with WCHRI as an integral partner. WCHRI is already a provincial and national leader in providing clinical research infrastructure and is poised to be a key support unit for women and children's health research in Alberta. We will continue to work strategically with our Faculty and our provincial and national partners in the health system for the success of these initiatives.

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¹ SCN's are an AHS initiative for province wide teams that bring together the experiences and expertise of health care professionals, researchers, government and communities, patients and families to address the delivery of health care to Albertans.

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Women & Children's Health Research Institute

The Women & Children's Health Research Institute (WCHRI) was created in 2006 with the mission of improving health outcomes for women and children through the creation of new knowledge and the translation of that new knowledge into practice. WCHRI promotes the full spectrum of biomedical, clinical and translational research through direct research support, competitive grant competitions, operational cores, physical infrastructure, professional development and training, networking opportunities, and financial support for summer and graduate students and medical resident trainees. Furthermore, WCHRI actively supports and encourages existing research centres, groups and individuals to collaborate thereby reducing duplication, enhancing transdisciplinary teamwork and leveraging limited resources.

Biomedical
To discover the causes of illness and disease

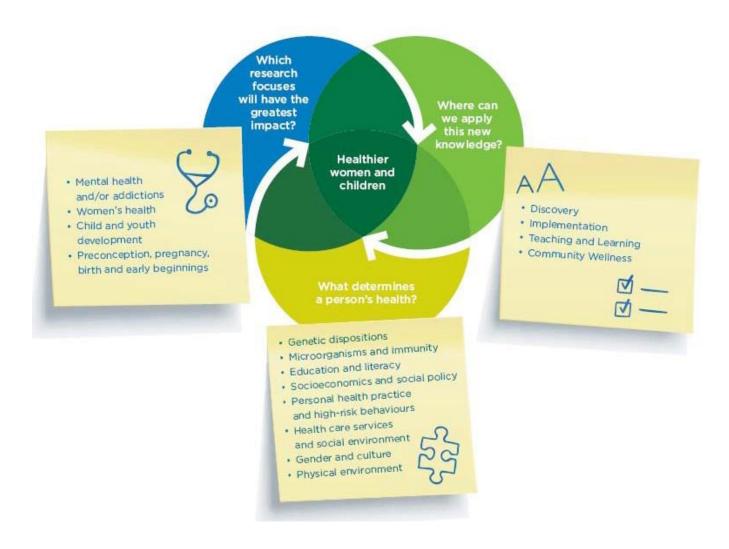
Clinical
Tests the
effectiveness of:
prevention,
diagnosis and
screening

Translational
To determine
practical
improvements
in health



Research Synergy

Historically, health research has been carried out in silos—often disease or organ-based. In contrast, WCHRI focuses on uniting a critical mass of scientists from across health disciplines, social sciences and the community, together with industry partners, policy makers and community stakeholders. This collection of diverse perspectives supports a view of the overall physical, mental and social health of women and children. This approach allows our researchers to tackle complex problems that would otherwise be difficult, if not impossible to address by single researchers.



For the last seven years WCHRI has acted as a point of convergence for over 300 academic members. Our members also include trainees (graduate, undergraduate and medical students, residents and subspecialty residents) and government and community partners. These members span fourteen U of A faculties, AHS and various government and community organizations. These groups work together, finding synergies and sharing resources, expertise and knowledge. WCHRI provides the foundation and the infrastructure across which diverse disciplines and departments can collaborate on health research issues that will ultimately lead to improved health outcomes for women and children locally, nationally and internationally.

Areas of Research Activity by Members of WCHRI

The members of the Women & Children's Health Research Institute (WCHRI) have the common vision of improving women and children's health through research and dissemination to broad audiences. Research in the following areas by WCHRI members is directed towards better diagnosis, treatments and/or interventions and improving health outcomes.

A converging area of women and children's research is:

<u>Perinatal Health</u> – Pregnancy complications, particularly preeclampsia and preterm birth, are leading causes for both maternal and neonatal illness and mortality. Research is being conducted in the prevention and/or treatment of pregnancy complications that will lead to improved maternal health and better outcomes for the newborn (neonatal research). Moreover, perinatal mental health and family/community research for healthy families are both areas of research by our members that traverse both women and children's health.

<u>Children's Health</u> - Improved pregnancy outcomes are only the beginning in improving children's health. Disorders of children often affect multiple organ systems. While many of these disorders may be individually rare, collectively they form the most common reason for families to seek care at the Stollery Children's Hospital. Thus child health research is supported by the SCHF.

- **Fetal Programming of Chronic Diseases** Pregnancy complications can have a long-term impact on offspring such as increased risk for obesity/diabetes, impacts on brain development/mental health and cardiovascular disease in later life. WCHRI members hold extensive expertise and research strengths in these areas;
- **Brain/Neurodevelopment/Mental Health** WCHRI researchers have wide expertise in neurosciences with specific research strengths in autism; cerebral palsy; stroke; brain tumors; fetal alcohol syndrome; adolescent mental health; breathing and sleep disorders of newborns and children, genetics and neurological development; neurocognitive outcomes after invasive therapies; pediatric pain management;
- **Lung Health** Our members have specific expertise in examining factors before birth and in the environment leading to asthma, lung damage and cystic fibrosis;
- Cardiovascular Disorders and Thrombosis With special expertise in newborn heart transplantation, cardiac congenital abnormalities and cardiovascular function (newborn and children), blood clotting disorders (thrombosis);
- **Disorders of the Gastrointestinal System** -Our member expertise includes research in disease conditions (e.g. eosinophilic esophagitis, inflammatory bowel disease, celiac disease, colitis, short gut syndrome) and complications of management as well as liver transplantation;
- **Disorders of the Kidney** Research of kidney disease that has specific impact on children; acute and chronic kidney injury (the latter from transplantation), and IgA nephropathy;
- **Childhood Obesity/Nutrition/Endocrinology** WCHRI researchers have expertise in developing effective treatment programs for children with severe obesity (which can lead to Type II Diabetes in the pediatric population) and also examine genetic and environmental factors that may predispose children to obesity;
- **Childhood Cancer and Blood Disorders** Research strengths lie in examining the molecular basis of certain cancers and related blood disorders, possible new treatment strategies and cancer surveillance;
- *Musculoskeletal System/Rehabilitation* Our members' expertise ranges from basic, clinical and community research to improve children's well being.

Areas of Research Activity by Members of WCHRI

<u>Women's Health</u> is supported by the RAHF, which has a priority to support the Lois Hole Hospital for Women. Our members of WCHRI have specific expertise in the following areas:

- **Women's Health** In addition to perinatal/maternal health as noted above, the impact of a complicated pregnancy on the mother can increase her risk for later life chronic diseases such as metabolic and cardiovascular diseases and diabetes; another important research area is focused on how stress affects women's health;
- *Mature Women's Health* Includes the successful recruitment of the Cavarzan Chair in Mature Women's Health with a targeted focus on urogynecological complications (urinary incontinence) as well as menopause. In addition, WCHRI researchers have expertise in women's cardiovascular health, which is at most risk for postmenopausal women;
- *Gynecological/Breast Cancer* Our researchers are focused on specific targeted research in ovarian cancer with the successful recruitment of an Ovarian Cancer Chair for Sept 2013.

Governance

Oversight Board

WCHRI's Oversight Board is comprised of leaders from U of A, AHS, SCHF and RAHF. The Board provides the convergence point for stakeholders where strategic directions and new initiatives may be forged. The Oversight Board meets quarterly with additional ad hoc communication throughout the year as needed. The Oversight Board is responsible for:

- Determining the direction and scientific mission of WCHRI
- Shaping the strategic vision for research programs and activities
- Ensuring the delivery of quality research
- Respecting relevant legal and regulatory requirements
- Reviewing activities and recommendations from WCHRI committees
- Approving the annual budget
- Monitoring overall performance

Please see Appendix A on page 47 for the membership of this Board.

Steering Committee

WCHRI's Steering Committee provides cross-organizational representation reflective of the WCHRI trans-disciplinary vision. The Committee relies on direction from the Oversight Board to determine appropriate and innovative operational plans and tactics. The Steering Committee is responsible for:

- Achieving the outcomes of the operations plan and annual budget
- Ensuring that the WCHRI scope aligns with the requirements of the stakeholder groups
- Guidance on operational and business issues
- Evaluation of project risk
- Reconciling differences of opinion and approaches

Please see Appendix B on page 47 for the membership of this Committee.

Scientific Advisory Committee

WCHRI's Scientific Advisory Committee provides cross-faculty representation and is responsible for advising the WCHRI Director on:

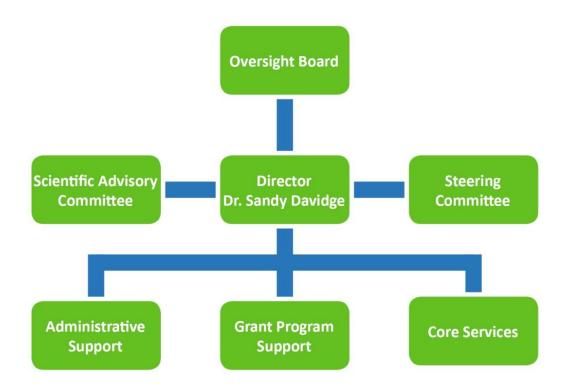
- Strategic opportunities for new research programs
- Prioritization of the activities of WCHRI research programs
- Environmental scanning for future strategic planning
- Methods for furtherance of WCHRI projects and studies
- Assessment and monitoring of potential or current conflict of interest
- Assisting in the dissemination to stakeholders of key WCHRI results and impacts

A complete list of the current Scientific Advisory Committee members is available as Appendix C on page 48.

Governance

Organizational Structure

The research activities, service cores and facilities of WCHRI are managed by an efficient administrative structure under the direction of Dr. Sandy Davidge. The team spans operational activities (finance, communications, grant administration, strategic planning and human resources) together with research core team management (team and academic leads).



Institute Development

Director - Dr. Sandy Davidge



Sandy Davidge

Dr. Sandy Davidge is an internationally recognized expert in women and children's health and is a strategic leader in the promotion of transdisciplinary research and education. Dr. Davidge is responsible for maintaining and advocating WCHRI's values of collaboration, integrity, teamwork, research excellence and community focus, and developing innovative programs to promote WCHRI and support its members. She also works to build and nurture partnerships with a variety of institutes, organizations and community-groups committed to women and children's health.

Dr. Davidge's research and leadership experience spans both women and children's health. She is a professor in the Department of Obstetrics and Gynecology with an adjunct appointment with Department of Physiology at U of A. She also holds a Tier

1 Canada Research Chair in Women's Cardiovascular Health and is an Alberta Innovates Health Solutions / Alberta Heritage Foundation for Medical Research Scientist.

Associate Director - Dr. Lawrence Richer

Dr. Lawrence Richer was appointed in 2013 to assist WCHRI in establishing and maintaining the goals and values of the Institute as articulated in our Memorandum of Understanding. Dr. Richer is an Associate Professor and Pediatric Neurologist, who has an active clinical practice and on-going research related to pediatric migraine therapy. He also has a strong interest in clinical and research informatics and has a leadership role in the Faculty of Medicine and Dentistry as Associate Dean, Health Informatics. Dr. Richer's clinical experience will complement Dr. Davidge's expertise in biomedical research.

Dr. Richer is leading a number of key projects, including:

- Implementing a "Concept to Completion" proposal by providing strategic direction in the integration of WCHRI's clinical core services and increasing value to our members, stakeholders and funders;
- Liaising with the Strategy for Patient Orient Research (SPOR) initiative in the domain of research informatics and data access;
- Determining and implementing a business plan for the use of ePRO and new research informatics tools in aid of WCHRI goals and values;
- Evaluating privacy issues related to clinical research and guiding preparation of a Privacy Impact Assessment for WCHRI's Clinical Research Informatics Core;



Lawrence Richer

- Providing input regarding Institute evaluation and benchmarking; and
- Serving as liaison with the national Maternal Infant Child & Youth Research Network (MICYRN) and the provincial Child Data Centre.

Institute Development

Administrative Team

WCHRI's administrative team manages the day-to-day administration of the financial, human resources and administration of the Institute. Under the direction of the Finance and Operations Officer, Louanne Campbell, the administrative team coordinates the functions of WCHRI including budget, financial reporting, membership, core services and billing. The team supports the development and documentation of efficient procedures, the longer term strategic direction, manpower planning and sustainable funding. Administrative Assistant Deb Key is responsible for all administrative and secretarial duties associated with the Institute



From left to right: Jackie Mechlaoui, Deb Key, Louanne Campbell

while Jackie Mechlaoui, Finance Assistant, provides research and general accounting services.

Grant and Research Support

The Grant and Research Support area monitors and administers the annual innovation, graduate and summer studentship competitions. Dr. Charlton also leads the 'Connecting through Research' initiative, created to support the grass-roots evolution and growth of networks or teams of WCHRI researchers to work together, sharing expertise and resources to tackle complex interdisciplinary health research issues.

Services may include:

- Facilitated research seminars and workshops leading to networking groups and potentially team creation
- Writing and editing assistance for grant applications
- Administrative support to ensure applications and forms are completed properly
- Grant workshops held throughout the year to give our applicants guidance in producing top-quality grant applications
- Operating grant and studentship competition administration and coordination
- Identification and development of appropriate grant review committees
- Educational programs (Lunch & Share workshops for WCHRI-funded students, Lunch & Learn educational seminars)



Michelle Bailleux & Lorin Charlton

Institute Development

Communications

WCHRI believes that timely, clear and accurate communication is an essential component of our interactions with our members, stakeholders, funders and partners.



Katie Buchanan

Our Communications Coordinator is tasked with generating appropriate and timely messaging, and collaborating with communications professionals from U of A, AHS and community foundations as required.

Communications activities include:

- Website development and maintenance;
- Posting news stories and developments;
- Weekly bulletin and email distribution of announcements;
- Quarterly newsletter;
- Annual Report; and
- Production of general WCHRI communication materials.

Special Project Lead – Patient-Oriented Research and Clinical Integration

Tanya Voth, in a role shared between the FoMD and WCHRI, will lead and coordinate efforts to facilitate patient-oriented research in WCHRI through the development of a project-based 'Concept to completion' workflow for clinical research. This workflow will help facilitate access to, maximize efficiency of, and facilitate collaboration among WCHRI's core resources.

Tanya will also assist with integrating women and children's health research into the priorities of the new Strategy for Patient-Oriented Research (SPOR) through the Canadian Institutes of Health Research (CIHR).



Tanya Voth

Research Programs

The overarching goal of WCHRI is to support excellence in research leading to improved health outcomes for women and children. This includes incorporating sustainability strategies such as leveraging resources and cost-recovery mechanisms, which are discussed later in this document. With respect to research grants and core services, we provide our members with a range of interrelated funding and support opportunities such as:

- Innovative grant funding, to support new, cutting-edge research ideas
- Emerging team grants, which support inter-disciplinary and collaborative research
- Resident/clinical fellow trainee research awards which allow clinical practitioners to undertake research projects during the course of their clinical training
- Graduate and summer studentships designed to build capacity and train and support the next generation of researchers in women and children's health
- Travel awards which partially support the cost of WCHRI Trainee attendance at national and international conferences where they present their original research results
- Scientific knowledge exchange programs to offset the costs of holding conferences or inviting renowned speakers to give presentations widely relevant to our membership
- Research Chairs, which support the recruitment of internationally recognized researchers
- Identification, recruitment and retention of distinguished researchers with expertise and knowledge that aligns with the WCHRI vision
- Start-up funding for new researchers to allow for laboratory set-up and ongoing salary support for technicians and research associates
- Core services to provide infrastructure and expert assistance for clinical research coordination, clinical research informatics and data management, biostatistical analysis, community-based and qualitative research support, and knowledge translation and dissemination

Each of these programs is discussed in further detail under the following headings: Capacity Building (including competitive grant competitions and education and mentoring programs), Research Support and Core Services.

One of the key ways that WCHRI supports research excellence is through competitive grant funding. Our programs include: operating (Innovation and emerging team) grants, bridge funding; graduate, summer and science shop studentships; start-up grants; endowed chairs; and recruitment and retention grants. These programs are competitive with only excellent research proposals receiving funding. Our competitive grant programs and partnership strategies facilitate the use of our resources in a way that maximizes impact and leverages funds from other partners and agencies.

Innovation Grant Competitions

While some of the WCHRI Innovation grants support projects that have the potential to relatively quickly target a challenging clinical health problem, others generate preliminary data for applications to larger funding institutions.

The innovation grants offer up to \$50,000 to support research excellence for projects directly related to women and children's health promotion, prevention of disease and treatment. Grants are awarded for a two-year time period with an option for a one-year extension. In 2013, the decision was made to split the Innovation program into two streams, one focusing on projects and one on community/patient health. The successful Innovation awards and their project titles are listed in Appendix D on page 49.

Emerging Research Team Grant Competition

In 2009, FoMD and AHS announced the second competition of an Emerging Research Team Grant Program. The competition reflected the increasing emphasis that has been placed on multi- and transdisciplinary health research, which allows researchers to target complex health issues that cannot easily be addressed by researchers working in isolation.

This funding is for the creation and development of new collaborative research teams with the potential to address important health issues. It is accompanied by the expectation that these teams will become successful in future multidisciplinary competitions for infrastructure and/or operating funds. Projects were funded at up to \$100,000/year for a maximum of three years.

For the 2009 competition, five grants were awarded for a total of nearly \$1,500,000. Applications were evaluated by a committee of 15 researchers and clinician scientists, spanning the health science faculties at U of A. See Appendix E on page 53 for a complete list.

Studentship Programs

WCHRI has numerous trainee members, who have been supported by competitive funding and educational programs, as well as the benefits of being part of the WCHRI community. See the following Education and Mentoring Programs section for more details. These trainees include undergraduate and graduate students, postdoctoral fellows and residents, many of whom have completed their training and are now working in academic and other roles supporting women and children's research around the world.

WCHRI provides a range of funding opportunities designed to build capacity and train and support the next generation of researchers in women and children's health. These programs include:

- Graduate and summer studentships
- Scientific knowledge exchange programs
- Research education programs

Graduate Student Research Support

WCHRI offers competitively funded grants of \$24,000 per year for a maximum of two years for students (Master's or PhD) in a full-time, thesis- based graduate program at U of A pursuing studies related to women and children's health. Payments are provided in the form of monthly stipends which may be cost-shared depending on the academic level of the supervisor. A top-up stipend of \$3,000 is awarded to candidates who are successful in achieving external funding. In this way, we are able to leverage our studentship budget and offer more awards to students who may not otherwise qualify for external funding (although all WCHRI grants are offered only to those whose scholastic achievement and research projects are deemed as excellent by our committee). Students from all disciplines and departments are eligible and are encouraged to apply. Successful applicants participate in several WCHRI-sponsored activities during the funding cycle. As part of the criteria for the funding, students prepare and deliver a community presentation based on their research. All WCHRI-funded students also present their research at our annual Research Day, held every November.

Appendix F on page 54 provides a full listing of graduate awardees along with their project titles from our 2009 to 2013 competitions.

Summer Student Research Support

WCHRI Summer Studentship awards provide academically gifted young students the opportunity to participate in research related to women and children's health during the summer months. Students work on specific projects under the supervision and mentorship of WCHRI researchers. The program helps to foster a new generation of researchers who may choose to pursue careers in women and children's health.

The WCHRI Summer Student award, valued at \$1,300 per month is offered for the summer months of May to August. Incentive awards (of \$250 per month) are available for those who have been successful in obtaining both the WCHRI Summer Student award as well as another competitive summer studentship award.

See Appendix G on page 57 for a listing of all summer students funded since 2009.

Science Shop Student Research Support

The WCHRI Science Shop Program offers similar summer studentships for projects with a Community-Based Research (CBR) component. This is a granting opportunity that offers students from all departments and disciplines the opportunity to become involved in a community-based research project during the summer months. This program is intended to foster the applicant's interest and skills in community-based research relevant to women and/or children's health and the applicants often have a previous interest and commitment to CBR. The program is a training opportunity that brings together U of A students and community organizations in pursuing summer research projects that are mutually beneficial.

See Appendix H on page 61 for a listing of all science shop students funded since 2009.

Lunch & Learn Seminar Series

2012 saw the launch of our WCHRI Lunch & Learn Series. The purpose of the series is to provide our members with a useful, practical and timely exposure to a range of topics important to their research.

Some of the workshops are tailored for trainees (Graduate students, postdoctoral fellows, and residents), while others are more suitable for our junior and senior faculty. Attendance at the Lunch & Learns has been very high and it is evident from the feedback and attendance that these very practical courses are of great benefit to our members. The presentations are available to our members on our website along with links to key resources.

The schedule of Lunch & Learns that we have presented is shown in Appendix I on page 62.

SPSS and Biostatistics Workshops

Early in 2013, WCHRI sent a question out to our members: would you find a workshop on biostatistics useful? The response was overwhelmingly yes. We went on to develop a four hour workshop to provide a basic introduction to a very popular program called SPSS (Statistical Product and Service Solutions). The course is delivered by the Team Lead of the WCHRI Biostatistics Core, Hitesh Bhatt. Over fifty of our trainees and researchers have since taken this course. We are now in the process of developing handson workshops, where those who have taken the introductory course can actually work on their own data analysis. Once again, the feedback from our members has been extremely positive.

Scientific Knowledge Exchange Program

WCHRI is pleased to provide two Scientific Knowledge Exchange grants. These competitively funded awards help to support scientific knowledge exchange for the following:

- 1. Visiting lecturers to U of A, and
- 2. Conferences, symposia and workshops hosted by WCHRI members

This very successful program has allowed our members to sponsor world-class speakers to present their research at the U of A, as well as to host various symposia at the U of A and elsewhere in Alberta. For a complete list of SKEP awardees please see Appendix J on page 63.

Education and mentoring for Students and Resident trainees

Our trainees represent a significant investment of time as well as money. This investment is fundamental to our belief that research is integral to excellence in care. Discovery research in WCHRI will continue to provide innovative and novel ideas, forming the basis for advancement in care in our province only as long as our more junior researchers are guided and supported in their training. That is why WCHRI has developed numerous mechanisms by which to help our trainees throughout their programs and beyond. Some of these mechanisms are described below.

Lunch & Share Workshops

The students who are awarded studentship stipends (both graduate and summer students) attend a yearly Lunch & Share session, hosted and facilitated by WCHRI staff. The purpose of the sessions is to introduce the students to each other and to give them the opportunity to share their research programs with their peers. At these sessions, WCHRI staff also provides guidance on our program requirements, other WCHRI educational opportunities, and provides support for any issues that may arise for the students. The first of these Lunch & Shares was held in the summer of 2012 - it was very well attended and the feedback was encouraging. We have augmented the sessions this year to include more support and information to our students.

Community presentations

All WCHRI supported graduate students are required to complete a Community presentation after their first year of funding. This process is supported by Dr. Renee Polziehn, who is the Professional Development & Outreach Director in the Faculty of Graduate Studies & Research. Dr. Polziehn arranges with local junior high and high schools for the trainees to present their research to a wide range of young students in Edmonton. A representative of WCHRI attends these presentations whenever possible, and we provide guidance and support in developing their presentations.

Trainee Travel Grants

WCHRI provides modest (\$1000) travel grants to our trainees to present their original research findings at national and international meetings. This gives our students the opportunity to network with their peers and other researchers working in the same field at local, national and international meetings. In this way, trainees learn to collaborate with other researchers while contributing to knowledge translation within the research community. Appendix K on page 64 provides the student names, abstract titles and conferences that have been funded.

Workshops for Trainees

WCHRI has developed and hosted numerous workshops for our trainees on topics ranging from: how to complete a WCHRI grant application; how to prepare a PowerPoint presentation; how to carry out a systematic review; overviews of ethics requirements; how to write a research protocol, how to prepare a knowledge translation plan; and more. These workshops provide very practical, immediate solutions for some of the daunting issues that our students face during their tenure. We continue to develop these workshops according to feedback from our trainees as well as any other identified need.

Resident Trainee Research Grants

The intent of this competition is to encourage more medical residents to discover and pursue research programs of their own. The grant (which is mandatory for pediatric residents) provides them with an opportunity to experience the process of applying for research funding (to learn how to write a research proposal, put together a project budget and follow competition guidelines) as well as to allow them to carry-out a small research project. WCHRI offers up to \$2,000 plus \$500 for biostatistical analysis to trainees at the Resident, Subspecialty Resident and Clinical Fellow levels in various U of A departments. Every year, about 12 residents enter the program and they are provided with all of the same supports that we offer to our graduate and summer students. In addition, WCHRI monitors the preceptor/trainee relationship and provides assistance as required. See appendix L on page 69 for a listing of all previously funded trainees.

Research Day

WCHRI's annual Research Day is our time to celebrate our successes and achievements. It brings our membership together to share common interests and research outputs on women and children's health, and is a great venue for our trainees to communicate their recent work, discuss their research and network with colleagues. All of our trainees are expected to present their research at Research Day and every WCHRI funded trainee prepares either a poster or oral presentation for judging by panels of WCHRI researchers.

Progress and Final Reporting

Our funded graduate students are also required to submit a progress report after their first year of funding, and both graduate and summer students are required to submit a final report after the funding period. In this way, WCHRI is able to capture publications, presentations, research results and other outcomes from our programs. This information is used both to evaluate the effectiveness of our programs as well as to highlight the successes of our students.

Research Support

Research Chairs

The SCHF and RAHF funded research chairs act as an attractor for new talent and provided a stable source of multi-year research support. SCHF funds research chairs in Maternal-Child Health and the Environment, and Autism Research. The RAHF has committed to supporting three chairs in women's health. These include Ovarian Cancer Research, Lois Hole Hospital Chair and the Cavarzan Chair in Mature Women's Health Research. Four of our WCHRI-supported chairs have been filled to date. These include:

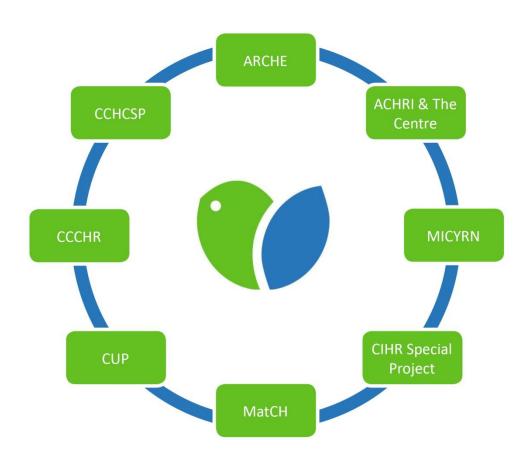
- WCHRI Chair in Maternal Child Health and the Environment Dr. Anita Kozyrskyj
- Stollery Children's Hospital Foundation's Chair in Autism Research Dr. Lonnie Zwaigenbaum
- Cavarzan Chair in Mature Women's Health Research & Innovation Dr. Sue Ross
- Sawin-Baldwin Chair in Ovarian Cancer Dr. Lynne Postovit (September 2013)

Recruitment and Retention and Start-Up Support

It is important to identify, recruit and retain new U of A researchers working in women and children's health. WCHRI funds are made available through funded chairs, or other forms of support for senior investigators with expertise in research related to WCHRI's vision. WCHRI also provides start-up and operational funding for new U of A research recruits working in women and children's health. The funds complement those provided by AHS and/or U of A faculties, departments and institutes to recruit and retain renowned researchers and clinician-scientists. The funds aid in establishment of their laboratory and/or research program. This commitment often begins the year that the researcher is recruited and continues for three to five years. All researchers are active WCHRI members, participating in programs and serving on committees. All are monitored for progress regarding publications and research outcomes to support our benchmarking and assessment activities.

Please see Appendix M on page 71 for entire list of researchers who have received WCHRI Recruitment & Retention and Start-Up support.

WCHRI collaborates with many other institutes and organizations that share our vision and commitment to improving the health outcomes of women and children through research excellence. We also partner with these institutions to provide our members with access to a growing variety of research services and support. In terms of financial support, many of these collaborations represent leveraging of our resources to provide shared resources to our members. Please see the next page for a description of each of these partnerships.



Alberta Research Centre for Health Evidence

The Alberta Research Centre for Health Evidence (ARCHE) was established in 2000 to serve as a resource to individuals and groups interested in evidence synthesis and conducting systematic reviews. WCHRI entered into a formal partnership with ARCHE in 2012 to provide our members with specific proposal development services and help in conducting systematic reviews on a cost recovery basis.

These are some of the services ARCHE is able to provide:

- Provide assistance with funding applications. ARCHE can work with investigators to assist with
 drafting technical sections of funding proposals, conducting preliminary literature searches to
 strengthen proposals, or providing letters of support stating the availability of technical services
 pending funding.
- Provide technical support for focused systematic reviews that are necessary to strengthen applications for other funding.
- Provide personnel and technical support to those conducting systematic reviews that are funded.

Alberta Children's Hospital Research Institute for Child and Maternal Health & Alberta Centre for Child, Family and Community Research

WCHRI has a Memorandum of Understanding (MOU) with the Alberta Children's Hospital Research Institute for Child and Maternal Health (<u>ACHRI</u>) and the Alberta Centre for Child, Family and Community Research (<u>The Centre</u>). This MOU is a natural fit for us as its values greatly mirror our own. These values include:

- Fostering a culture of inquiry
- Creating a collaboration based on respect and accountability
- Building and sustaining excellence in collaborative endeavors
- Encouraging active participation and support in the development of the Child Data Centre (CDC)
- Shared responsibility for the positive relationship between all partners

As stated above, one main goal of the MOU is the development of the CDC. This facility will house academic research sets in one central location and increase access of this data to all researchers. WCHRI members are encouraged to both utilize and contribute to this service.

Canadian Child Health Clinician Scientist Program

The Canadian Child Health Clinician Scientist Program (CCHCSP) is a transdisciplinary training program for the next generation of clinician-scientists in child and youth health research in Canada. The CCHCSP is the first national network of 13 Canadian Child and Youth Health Research Centres dedicated to this training. The CCHCSP recruits, trains and provides financial support for researchers and clinician-scientists who have an interest in child and youth health. A core curriculum delivers a common multidisciplinary language of research, while imparting professional skills and values. It provides opportunity for education and collaborative experiences with institutions and researchers across the CCHCSP. Research training is supervised by a research mentor and advisory committee and is structured to facilitate excellence in research with an interdisciplinary focus. Since our inception, WCHRI has partnered with CCHCSP in supporting these programs.

Council of Canadian Child Health Research

The Council of Canadian Child Health Research (CCCHR) was formally created in November 2004 and represents all Canadian academic health research centres across Canada with a focus on child and youth health. The CCCHR and its members support child health research in Canada, helping to ensure that all children and youth enjoy the benefits of improved health through the application of research findings. The Council promotes networking, collaborations and sharing of resources between each of the 17 hospitals/institutes in Canada which support child and youth health research. WCHRI is an active member of the CCCHR.

Community-University Partnership for the Study of Children, Youth, and Families

The Community-University Partnership for the Study of Children, Youth, and Families (CUP) is a unique collaboration between the U of A Faculty of Extension, community agencies, and organizations in and around Edmonton and across Alberta. CUP works to develop opportunities for researchers, service providers, and policy-makers to collaborate on research projects that advance knowledge, improve policies and practices and facilitate sharing information about child and family development.

Graduate Program in Maternal and Child Health

In 2012, the Departments of Pediatrics, Medical Genetics, and Obstetrics and Gynecology, in partnership with WCHRI were the recipients of a new U of A interdisciplinary graduate student training program in Maternal and Child Health (MatCH). This multidisciplinary program represents a novel approach to the training of graduate students, as participating departments are uniquely positioned to provide cross pollination between key areas in the rapidly evolving bench to bedside, personalized medicine and knowledge translation focus of research in Alberta and Canada. The presence of WCHRI at the U of A was integral to the successful awarding of this program, as the Institute's vision and mission is seen as integral to the program's success.

Maternal Infant Child and Youth Research Network

The Maternal Infant Child and Youth Research Network (MICYRN) was founded in 2006 as a collaborative national initiative to build capacity for high quality clinical research in Canada. MICYRN links 17 participating academic health centres and hundreds of investigation teams across the country. The overarching goal of MICYRN is to empower the health research community to develop and implement solutions to issues affecting maternal, infant, child and youth health and health services.

MICYRN is focusing on improving data management standards and is encouraging the adoption of REDCap by its member institutes. Since WCHRI was the first organization in Canada to adopt REDCap we have significant experience in this area. In addition, WCHRI's Clinical Research Informatics Core (CRIC) is in the process of creating a version of REDCap for MICYRN members conducting regulated clinical trials. CRIC also provides REDCap data management administration, support and training to MICYRN members. One major project is the National Cerebral Palsy Registry.

Leveraging-Bridge Funding: The University of Alberta's Faculty of Medicine & Dentistry (FoMD) Canadian Institutes of Health Research (CIHR) Special Project

The CIHR Special Project provides support for researchers and trainees at U of A who are submitting applications for funding to CIHR. The goal of the initiative is to enhance the preparedness and quality of applications submitted to CIHR. Support includes delivery of feedback processes, bridge funding, workshops, resources, editing and general support. The Project is supported by the Office of the Vice-President (Research) and FoMD.

In support of this initiative, WCHRI contributes bridge funding for CIHR applications with a primary focus on women and/or children's health and will be used to leverage additional funding from AIHS or other institutes and Faculties. For more information on the CIHR Special Project, visit FoMD's webpage at: http://www.med.ualberta.ca/Home/Research/cihr project.cfm.

See Appendix N on page 73 for the list of awardees and their projects.

Norlien Foundation

Created in 1997, the Norlien Foundation is a proactive private foundation with offices in Calgary and Edmonton, Alberta. The Foundation is active in knowledge translation and mobilization, professional development and training, applied research, evaluation, and networking. It has established partnerships with numerous national and international organizations working in the areas of childhood development, addiction, and mental health. The Foundation initiates strategic projects to enhance the quality of life for all Canadians, particularly those living in Alberta.

The University, the <u>Norlien Foundation</u> and WCHRI have partnered for the purpose of encouraging applied research, knowledge transfer, and/or demonstration projects related to early childhood development, family wellness, and/or addictions.

Matching Funds for Networks of Centres of Excellence

Translating Emergency Knowledge for Kids

WCHRI provides matching funds for several important research initiatives. One of these is a new Network of Centres of Excellence (NCE) called TREKK (Translating Emergency Knowledge for Kids). TREKK, co-led by WCHRI researchers Dr. Shannon Scott and Dr. Lisa Hartling, was awarded \$1.6 million in funding from the NCE program, and WCHRI provided a smaller amount of matching funds. TREKK has established a strong network of emergency care providers across the country and the team has been very successful in producing high quality research in the realms of both clinical science and knowledge translation. Further, the network has fostered research collaborations, mentored junior investigators and developed a strong platform for knowledge translation activities. The work proposed through TREKK is a natural progression for this group. A unique strength of the TREKK work is the partnering of 36 community hospitals from across the country with the 13 pediatric tertiary care centers. This unique model will allow the team to identify the needs of front-line practitioners working in the community, and respond to those needs through knowledge synthesis activities. This is a highly relevant proposal with significant potential impact in terms of improvements to children's health outcomes, and enhanced health systems.

NeuroDevNet

NeuroDevNet, a Canadian Networks of Centres of Excellence (NCE), is a national initiative focusing on childhood brain development from both basic research and clinical perspectives. The Network, also supported by WCHRI and CIHR, is initially researching the impact of genes and/or the environment on three important developmental disabilities in children. NeuroDevNet works with its partners in academia, the community, not-for-profit sector, industry, and government, and across traditional disciplinary boundaries and sectors, to ensure generated knowledge is translated into tangible diagnostic, preventative, therapeutic, social, economic, and health benefits for all.

These partnerships, collaborations and networking relationships are integral to the philosophy that pooling and sharing limited resources and infrastructure benefits all of our researchers and is fundamental to our vision and commitment to improving the health outcomes of women and children through research excellence.

Impact on Policy

Over the last year, WCHRI has embraced several provincial, national and international initiatives becoming increasingly active with organizations directly impacting policy in Alberta. WCHRI is a key player within these organizations, which will lead to improved policy decisions with regard to research and health outcomes affecting women and children's health. Some of these are detailed below.

Canadian Institutes for Health Research - Strategy for Patient Oriented Research

The vision of the Strategy for Patient-Oriented Research (SPOR) is to demonstrably improve health outcomes and enhance patients' health care experience through integration of evidence at all levels in the health care system.

The goals to achieve this vision are to:

- create a collaborative, pan-Canadian process for identifying, establishing and addressing patient-oriented research priorities;
- establish an integrated, leading-edge pan-Canadian clinical research infrastructure along the full continuum of patient-oriented research;
- grow Canada's capacity to attract, train and mentor health-care professionals and health researchers, as well as to create sustainable career paths in patient-oriented research;
- strengthen organizational, regulatory and financial support for clinical studies in Canada and enhance patient and clinician engagement in these studies; and
- improve processes for the early identification of best practices, expedite their development and harmonization into guidelines for patient care and support their adoption by clinicians, caregivers and patients.

Patient-oriented research, the cornerstone of evidence-informed health care, refers to a continuum of research, from initial studies in humans to comparative effectiveness and outcomes research, and the integration of this research into the health care system and clinical practice. The goal of patient-oriented research is to better ensure the translation of innovative diagnostic and therapeutic approaches to the point-of-care, as well as to help the provinces and territories meet the challenge of delivering high quality, cost-effective health care. It involves ensuring that the right patient receives the right clinical intervention at the right time, ultimately leading to better health outcomes.

Ultimately, this nation initiative is being established to advance research in humans through the development of core infrastructure. WCHRI is already a provincial and national leader in providing clinical research infrastructure and is poised to be a key support unit for women and children's health research in Alberta. We will continue to work strategically with our Faculty and our provincial and national partners in the health system for the success of this initiative.

Impact on Policy

Strategic Clinical Networks

SCN's are an Alberta Health Services (AHS) initiative for province wide teams that bring together the experiences and expertise of health care professionals, researchers, government and communities and patients and families to address the delivery of health care to Albertans. The SCNs are working to reshape health care in different areas of health to help AHS and its zones provide a patient-focused, quality health system that is accessible and sustainable for all Albertans. To help reshape health care each network will work towards:

- Improving the patient experience
- Ensuring care is available when it's needed
- Putting strategies in place to keep Albertan's healthy
- Providing Albertans with the best health care for generations to come

WCHRI is playing a key role in the development of the research strategies and directions of the SCN focused on child and maternal health.

Frontiers of Innovation

Launched by the Center on the Developing Child at Harvard University in May 2011 through a convening of 65 researchers, practitioners, policymakers, philanthropists, and experts in systems change, the Frontiers of Innovation (FOI) community now includes more than 400 members from across North America. Its goal is to catalyze substantially greater impacts on the lives of young children whose needs are not being fully met by existing policies and programs. Its strategy is to galvanize the field by stimulating creativity, supporting experimentation, and learning from failure. Its work draws on advances in the biological, behavioral, and social sciences to: (1) identify causal mechanisms that influence developmental trajectories; (2) formulate theories of change about how to produce better outcomes; and (3) design and test new intervention approaches and measure their effectiveness in reducing barriers to learning and strengthening the foundations of lifelong physical and mental health. Stated simply, the FOI community views current best practices as a promising starting point not a final destination. WCHRI has been involved with FOI for over a year and is participating in networking and planning meetings along with policy interactions with different levels of the Alberta Government.

Child Health and the Environment

Children, their health and its relationship with the environment, are an identified priority for the Alberta Government and other agencies. The Child Health and the Environment initiative (ChEHC) at the U of A gathers intersectoral multi-stakeholder input to identify and prioritize local, relevant researchable issues or questions for a research program that links the environment and child health. ChEHC hosted two forums to engage various stakeholders and facilitate discussion on these important topics. The team identified four priority themes related to children's health and the environment:

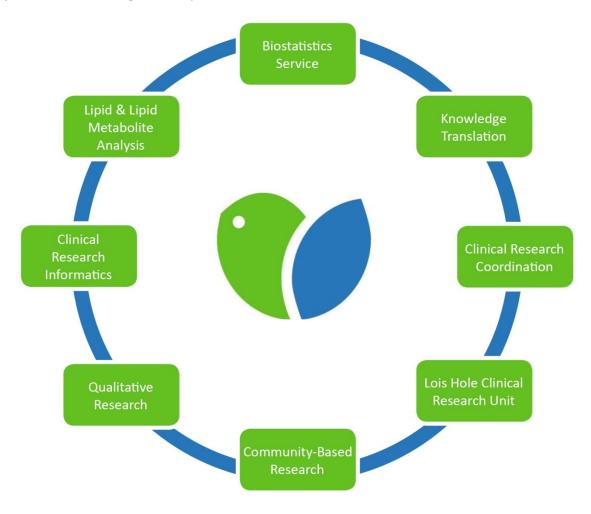
- 1) Improve Knowledge Translation: improved awareness and understanding of environmental exposures and their impact on children's health;
- 2) Adopt the concept of Healthy Environments, focusing on vulnerable populations;
- 3) Study Exposures; and
- 4) Work around concerns unique to Alberta.

WCHRI continues to contribute to this group in an advisory and participatory capacity.

Core Services

The capacity to support larger thru small scale projects is a key strength in both WCHRI and the local research community. So often research projects demand the talents of highly qualified personnel however projects are frequently allocated funding for only part-time and/or short-term positions. That model is difficult to hire within and time delays can create further complications. Thus, research projects are frequently deemed not feasible.

WCHRI has developed a broad range of Core Resources on a partial cost-recovery basis to address this need. The Core Resources work in cooperation to facilitate research for all WCHRI researchers to help develop high quality, competitive funding applications, produce high-quality research results and staff projects with trained, high-caliber personnel.



Core Services

Clinical Research Informatics

The Clinical Research Informatics Core (CRIC) offers expertise in advanced Electronic Data Capture (EDC) and survey solutions to ensure researchers obtain high-quality, statistically sound and verifiable data. The data collection software and data management services meet the highest industry standards of quality, and comply with provincial and federal privacy legislation and with International Good Clinical Practice (GPC) regulatory standards, as well as U.S. Food and Drug Administration (FDA) study requirements.

CRIC plays a key role in helping investigators minimize costs by training and supporting research assistants and graduate students in the use of the software. Studies that in the past would have required significant software development and support have been undertaken by undergraduates and graduate students after just a few hours of training.

CRIC supports WCHRI members in their research through the provision of information technology based services. This is primarily completed through the provision of core software products with custom application development and support where required. CRIC encourages investigators to adopt common practices and standards as an aid to data quality.

CRIC's core services include:

- Design of data collection tools
- Study implementation
- Data management planning
- Data coding

- Data entry, cleaning and query management
- SAS data management
- Data reporting

CRIC's core services are hosted on multiple servers located within FoMD's MEDIT's secure data centre. The applications run on multiple redundant systems, complete with off-site backup in accordance with Faculty policy.

In addition to supporting local investigators, CRIC, in collaboration with MICYRN, has been instrumental in driving the adoption of the REDCap remote data collection software in paediatric and women's health research centres across Canada.

Core Services



Left to right, back row: Rick Watts, Lawrence Richer, Stephen Walsh Front row: Amanda Mullins, Pam Marples

Clinical Research Informatics Team

- Lawrence Richer, Academic Lead
- Rick Watts, Team Lead
- Pam Marples, Medical Informatics Specialist
- Stephen Walsh, Database Developer
- Amanda Mullins, Data Entry and Quality Assurance

Clinical Research Informatics Core Utilized Tools

Please see Appendix O on page 74 for a list of the tools and software currently utilized by CRIC.

Projects

For a list of Clinical Research Informatics Core supported projects, please see Appendix P on page 75.

Clinical Research Coordination

WCHRI offers a pool of research staff to meet investigators' needs for skilled, versatile research personnel on a part-time and/or temporary full-time basis. The team collaborates extensively with AHS and Covenant to offer services at U of A/Stollery Children's Hospital, Royal Alexandra Hospital/Lois Hole Hospital for Women, Grey Nuns Community Hospital and Misericordia Community Hospital. Research Coordinators are bound by regulations relating to ethical conduct of clinical research, including the International Congress on Harmonization Good Clinical Practice Guidelines (ICH GCP). Customized services can include:

- Study set-up (including budget review/negotiation with sponsors, contract submission, ethics submission, operational approval request submission, regulatory documentation preparation, etc.)
- Recruiting, obtaining informed consents and interviewing study participants
- Study participant scheduling
- Chart reviews
- Collecting data and biological samples
- Regulatory document maintenance
- Liaising with labs, pharmacies, x-ray and imaging facilities, other medical facilities, clinical investigation unit, Health Research Ethic's Board, etc.
- Liaising with external partners such as pharmaceutical companies, contract research organizations, central coordinating sites, etc.
- Close-out and archiving preparation

Clinical Research Coordination Team

- Joanna MacLean, Academic Lead
- Dory Sample, Team Lead
- Ronda Danchak
- Mohamed El-Kalla
- Cheri Robert
- Debra Lieberman

- Germaine McInnes
- Charlene Cars
- Faye Murdoch
- Heather Rylance
- Shirley Beauchamp
- Marilyn Thompson



Left to right, top row: Faye Murdoch, Mohamed El-Kalla, Ronda Danchak, Heather Rylance, Dory Sample Bottom row: Charlene Cars, Sudeshna Bhattacharya, Debra Lieberman, Cheri Robert Not pictured: Joanna MacLean, Germaine McInnes, Shirley Beauchamp, Marilyn Thompson

Clinical Research Coordination Projects

For a list of Clinical Research Coordination supported projects, please see Appendix Q on page 79.

Biostatistics Service

The Biostatistics Service Core works with researchers to produce high quality research based on sound research methods. Staff are typically involved in planning of a study and data work that occurs once the data has been collected and is ready for analysis.

High quality research requires the use of appropriate statistical principles and techniques. Staff focus on key statistical aspects such as: study design, sample size and power calculations, data analysis, interpretation of results and statistical sections of funding applications and manuscripts. In addition, staff provide advice on: research methodologies,

have methodological rigour and will meet the standards set by peer-reviewed journals.

data collection forms, database requirements, and statistical software. This ensures research studies

Statistical thinking provides valuable contributions throughout different stages of the research process: study design, grant proposal development, data analysis, results interpretation and manuscript preparation.

Assistance can be accessed for:

- Statistical methods to answer research questions
- Sample size and power calculations
- Randomization schedules
- Data cleaning
- Data analysis

- Interpretation of results
- Tables and graphs for presentation
- Checking statistical sections of funding applications and manuscripts
- Statistical software advice

Biostatistics Service

• Hitesh Bhatt, Biostatistician

Projects

For a list of Biostatistics Service supported projects, please see Appendix R on page 83.

Lois Hole Clinical Research Unit

Previously known as the Umbilical Cord Blood and Tissue Collection Core, we have recently renamed this unit to better embrace our diversity of services in this area.

The Lois Hole Hospital for Women clinical research program is located in the Robbins Pavilion on the Royal Alexandra Hospital campus. This WCHRI core service provides support to clinical research that occurs on site and is a collaboration with the Faculty of Medicine & Dentistry's Department of Obstetrics and Gynecology.



Lois Hole Hospital for Women Robbins Pavilion Royal Alexandra Hospital

Lois Hole Clinical Research Unit Team

- Selikke Janes-Kelley, Academic Lead
- Donna Dawson
- Cheryl Lux
- Winnie Savard
- Gloria Harrison
- Lara Ragnarsdottir
- Lisa Gray

Projects

For a list of Lois Hole Clinical Research Unit supported projects, please see Appendix S on page 87.

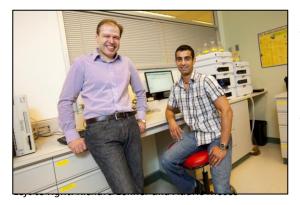
Lipid & Lipid Metabolite Analysis

The Lipid & Lipid Metabolite Analysis Core is a pay-per-use facility developed to assist basic and clinical researchers at U of A and affiliated institutions in measuring lipid-related compounds from a variety of sources. Lipids are of particular importance in some of today's most prevalent health issues: obesity, diabetes, nutrition, neuroscience, and cardiovascular disease. This core is a project initiated and supported by the Group on the Molecular and Cell Biology of Lipids and the Women and Children's Health Research Institute, with major support from FoMD.

Core services include:

- Quantitative analyses
 - Separation and measurement of fatty acids and total lipid classes by gas-liquid chromatography (GC)
 - Separation and measurement of bile acids, phospholipids, and total lipid classes by highperformance liquid chromatography (HPLC)
- Non-quantitative analyses
 - Lipoprotein profiling (of VLDL, LDL, and HDL) from plasma, cultured cell medium, and other sources by fast-protein liquid chromatography (FPLC)
 - Non-destructive separation and collection of lipoprotein classes (VLDL/LDL/HDL)
- New for 2013
 - High-resolution mass spectrometry-based lipid analysis (qualitative and quantitative) by LC-MS; as this is a new service, please inquire about availability for your analytes of interest
- Available on request
 - Customized analysis of other molecules by HPLC, GC, or mass spectrometry

Lipids currently measured include cholesterol, triglycerides, phospholipids, fatty acids and cholesteryl esters. Addition of the mass spectrometer will allow measurement of many other lipids, with much lower detection limits than previously possible.



Lipid & Lipid Metabolite Analysis Team

- Richard Lehner, Academic Lead
- Audric Moses, Operations Manager

Lipid Analysis Core Users

For a list of Lipid & Lipid Metabolite Analysis Core supported projects, please see Appendix T on page 89.

Lipid Analysis Core Equipment

For a list of the Lipid Analysis Equipment used by this core, please see Appendix U on page 90.

Genotyping Services

Researchers in numerous groups utilize transgenic mouse models for their experiments and these models are vital for carrying out their research goals. The Genotyping Services provides a skilled animal technician who ensures that animals in the associated research labs are cared for in a manner aligned with associated research protocols and genotyping.

Services provided by the Genotyping Services include:

- Genotyping
- Colony maintenance and breeding (e.g. timed pregnancy)
- Procedures (e.g. tail bleeds, terminal bleeds, immunization)
- Fetal and neonatal manipulations (e.g. injections, intravital microscopy)
- Harvesting tissues
- Retrieve mice for experiments from animal facility

Specialized Animal Services Team

- Lori West, Academic Lead
- Bruce Motyka, Academic Lead

- Jody Bennett, Animal Technician
- Thuraya Marshall, Animal Technician



From left to right: Thuraya Marshall, Jody Bennett, Bruce Motyka Not pictured: Lori West

Genotyping Services Users

For a list of Genotyping Services users, please see Appendix V on page 91.

Community-Based Research / Qualitative Research / Knowledge Translation

WCHRI has partnered with the Community-University Partnership for the Study of Children Youth and Families, at the Faculty of Extension, to augment the capacity of WCHRI members to engage in Community-Based Research (CBR) and Qualitative Research. Under the academic leadership of Dr. Maria Mayan, this resource offers researchers training and support to successfully undertake studies using these approaches. Recently, consultation and support in developing knowledge translation plans have been added to the core activities.



Community-Based Research

CBR is gaining popularity in the health sciences. CBR is a collaborative approach to research that begins with an issue of importance to the community with the aim of combining knowledge and action for social change to improve health and well-being of the community members. CBR often involves unconventional research designs and novel knowledge dissemination and translational strategies.

Services include:

- Community partnership brokering
- **Grant preparation**
- CBR design (including budgeting and ethics protocol)
- Data collection and analysis
- **CBR Student Summer Science Shop**

Qualitative Research

Qualitative research is essential for understanding the social determinants of health. WCHRI members may access assistance in planning a rigorous qualitative or mixed-methods study.

Services include:

- Grant preparation
- Research design (including budgeting and ethics protocol)
- Data collection and analysis
- Manuscript preparation

Knowledge Translation

Tatjana Alvadj-Korenic

Knowledge translation (KT) is a growing field that is becoming an integral part of research protocols and an essential requirement of research grant applications. WCHRI recognizes the need for support in developing KT plans and is offering a new core resource for its members—one-on-one KT consultation. Individual consultations include:

- Introduction to knowledge translation plan development and resources
- Support in developing project specific knowledge translation plans

- Manuscript preparation

Community-Based Research, Qualitative Research and Knowledge Translation Team

- Maria Mayan, Academic Lead
- Tatjana Alvadj-Korenic, Research Coordinator

Community-Based Research, Qualitative Research and Knowledge Translation Core Users

For a list of CBR, Qualitative and KT Core users, please see Appendix W on page 92.

Space

WCHRI has embraced a truly integrated approach in its use of facilities. By uniting multiple sites under a single organizational umbrella, WCHRI is able to embed itself in numerous sites across U of A campus and the city of Edmonton. This maintains proximity to the relevant scientists, subjects and core services while avoiding duplication of infrastructure. The success of integrated facilities and dedicated support personnel enables world-class multidisciplinary scientific teams in critical areas of women and children's health to collaborate with clinicians and community partners. This collaborative team-based approach will also be invaluable in the training of the next generation of health-care professionals, for whom the traditional stereotypical model is obsolete.

Edmonton Clinic Health Academy (ECHA)

The Edmonton Clinic Health Academy (ECHA) is home to a community of researchers, educators and students from across all faculties and outside academe, working to improve health outcomes for all



Canadians. Building on U of A's history of success in world-class research, education and patient care, faculties and stakeholders work side by side, sharing space, ideas and innovations. Many WCHRI groups have call ECHA home including WCHRI Administration and the Grant Support, Clinical Research Coordination, Biostatistics and Clinical Research Informatics Cores.

Katz Group-Rexall Centre for Pharmacy and Health Research

WCHRI's new biomedical research laboratories are located in the Katz Group-Rexall Centre for Pharmacy and Health Research Building. The facility incorporates lab space for electrophysiology, molecular biology, stem cell research and physiological measurement together with shared equipment and animal facilities, primarily transgenic mouse facilities, which are used for studies of pathology and disease. "The days of the lone investigator working on his own research interests in a corner somewhere" are gone, says John Greer, Alberta Heritage Foundation for Medical Research (AHFMR) scientist who occupies the new lab.



Lois Hole Hospital for Women - Women's Clinical Research Unit

The Women's Clinical Research Unit at the Lois Hole Hospital for Women will house a clinical and patient-related research facility that focuses on women's and neonate's health research. The unit will be home to diverse clinical research studies and the Lois Hole Clinical Research Unit.



Stollery Children's Hospital Clinical Investigation Unit



To be located on the second floor (2E) of the Stollery Children's Hospital, the Stollery Children's Hospital Clinical Investigation Unit will be part of the new Stollery Children's Ambulatory Care, Education and Clinical Research Centre. This centre will be a consolidated, integrated interdisciplinary, family centered facility dedicated to excellence in clinical care.

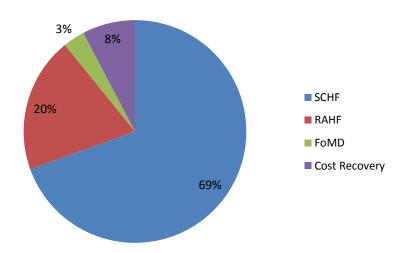
Financials

Summary of Budget for 2013/14

Revenue	
SCHF	\$4,028,300
RAHF	\$1,140,900
FoMD	\$182,476
Cost Recovery	\$445,450
TOTAL REVENUE	<u>\$5,797,126</u>
Expenditures	
Research Grants	\$1,521,500
Research Support	\$2,161,000
Investigative Core Resources	\$1,572,450
Administrative Support	\$542,176
TOTAL EXPENDITURES	\$5,797,12 6

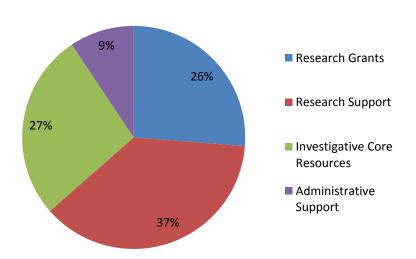
Financials

2013/14 Budgeted Revenue %



The revenue percentages reflect the ratio of researchers who align with child health compared to women's health which is approximately 4:1.

2013/14 Budgeted Expenditure %



Appendices

We have made every effort to ensure the following lists are complete and accurate. Please notify us of any inconsistencies or omissions.

Appendix A – Oversight Board Membership (as of May 31, 2013)

Sandra Davidge Institute Director (non-voting)

Jane Drummond Health Sciences Council Representative, U of A (Delegate)

Richard Fedorak Vice-President (Research), U of A (Delegate)

Murray Gray Provost & Vice-President (Academic), U of A (Designate)

Mike House President/CEO, SCHF

Tracy MacDonald Executive Director, Stollery Children's Hospital, AHS

Marek Michalak Vice-Dean of Research, FoMD, U of A

D. Douglas Miller Dean, FoMD, U of A Andrew Otway President/CEO, RAHF

Joanna Pawlyshyn Vice-President, Royal Alexandra Hospital, AHS

Kathryn Todd Senior Vice-President Research, AHS

Michael Walter Head of School, Human Development, U of A

Dale Sheard Board Representative, RAHF

Zahra Somani Chair of the Board of Trustees, SCHF

Appendix B – Steering Committee Membership (as of May 31, 2013)

Sandra Davidge Institute Director (non-voting) and Research Lead, Human Development, U of A

Karen Faulkner Vice-President, SCHF

Richard Fedorak Associate Vice-President (Research) U of A Susan Gilmour Department Chair, Pediatrics, U of A

Tom Hobman Vice-Dean of Research, FoMD, U of A (Designate)

Selikke Janes-Kelley Executive Director, Women's Health, Royal Alexandra Hospital, AHS

Brian Rowe Associate Dean, Clinical Research, FoMD, U of A

Sharlene Rutherford Vice-President, RAHF

Margaret Sagle Department Chair, Obstetrics and Gynecology, U of A

Christine Westerlund Director, Critical Care and Operative Services, Stollery Children's Hospital, AHS

Appendix C – Scientific Advisory Committee Membership (as of May 31, 2013)

Sandra Davidge Institute Director

David Eisenstat Division Director, Pediatric Hematology/Oncology/Palliative Care

John Greer Professor, Physiology Kathleen Hegadoren Professor, Nursing

Kaysi Kushner Associate Dean/Associate Professor, Nursing Gary Lopaschuk Professor, Pediatrics and Pharmacology

Maria Mayan Assistant Director, Community-University Partnership Linda McCargar Professor, Agriculture, Food & Nutritional Science

Lawrence Richer Institute Associate Director, Associate Professor, Pediatric Neurology

Sue Ross Cavarzan Chair, Professor, Obstetrics & Gynecology

Investigator	Project Title / Description of Support	Date
Project Stream		
Klaus Ballanyi	Synaptic processes in inspiratory center inhibition by apnea-related anoxia and opioids	2013
David Brindley	Novel targets for overcoming resistance to chemotherapy and radiotherapy in breast cancer	2013
Thomas Churchill	Developing a prophylactic treatment for Necrotizing Enterocolitis in premature infants	2013
Gregory Funk	Characterizating Dbx1 XII inspiratory premotoneurons	2013
John Greer	Ampakine therapy to alleviate apnea of prematurity	2013
Lisa Hornberger	Mapping Congenital Heart Disease and the emission of developmental toxicants in Alberta, Canada: A geographic information systems (GIS) based framework for supporting interdisciplinary research and surveillance monitoring	2013
Rachel Khadaroo	Establishing clinically relevant biomarkers for the early diagnosis of Necrotizing Enterocolitis	2013
Alan Underhill	PAX3 target gene networks in birth defects and pediatric Cancer	2013
Larry Unsworth	Engineering bioactive and bioresponsive nanoscaffolds for enhancing neuronal survival in an animal model of perinatal brain injury	2013
Rachel Wevrick	The dopamine reward system in a mouse model of Prader-Willi Syndrome	2013
Toshifumi Yokota	Multi-exon skipping therapy for Duchenne Muscular Dystrophy	2013
Community / Pat	ient Stream	
Kim Adams	Using robots to assess skills and access play and problem solving for children with severe disabilities	2013
Deryk Beal	Genetic contributions to developmental stuttering	2013
Oana Caluseriu	Investigating the cause of rare disorders in children: a pilot study for a personalized practice for families in pediatric genetics	2013
Sarah Curtis	A systematic review of screening instruments for children at risk of Posttraumatic Stress Disorder	2013
Lesley Mitchell	Can we reduce central venous catheter (CVC) replacements in children with Cancer? A prospective cohort study of non-invasive screening for Venous Thrombosis in pediatric Oncology patients with CVC Dysfunction	2013
Jacqueline Pei	Working memory training impacts on FASD and preterm children	2013
Nicole Pitre	Mothering in the light of past interpersonal violence	2013
Craig Steinback	Mechanisms of sympathetic hyperactivity in hypertensive pregnancies	2013
Michael van Manen	Exploring young and adolescent children's experiences of living with a ventricular assist device	2013

Awardees prior to 2013 program update

Investigator	Project Title / Description of Support	Date
Joanna	Longitudinal cardio-respiratory function in the SAD mouse model of Sickle Cell Disease	2012
MacLean		
Joanna	Cardio-respiratory patterns in early life and their relationship to cardio-respiratory	2012
MacLean -	variability in later life	
Clinical Care		
Katerina	Understanding the role of remnant lipoproteins in the development of childhood obesity	2012
Maximova	and pathogenesis of subclinical atherosclerosis	
Sujata Persad	Nitrofen, a novel treatment strategy to reduce breast cancer invasiveness: A preclinical	2012
	pilot study	
Gonzalo Garcia	Pediatric remote ischemic pre-conditioning prior to complex cardiac surgery: the PREP	2012
Guerra	pilot trial	

Investigator	Project Title / Description of Support	Date
Catherine	Preoperative and intraoperative renal oxygen saturation as predictors of AKI in children	2012
Morgan	undergoing cardiopulmonary bypass	
Gwen Rempel	School-age children with moderate to severe congenital heart disease: A qualitative study to elicit stories about everyday life from the child with congenital heart disease and their school-age siblings	2012
Dawn Kingston	Barriers and facilitators of psychosocial assessment in pregnant and postpartum women and their health-care providers	2012
Ellen Toth	An assessment of prevalence and clinical care of Type 2 Diabetes in Albertan children	2012
Edmond Lou	Ultrasound imaging to quantify the severity of scoliosis without exposure to harmful radiation	2012
Joanne Lemieux	Insight into colonization mechanism of Neisseriales from study of pili proteases	2012
Gregory Tyrrell	A plasminogen binding peptide as a group B streptococcal vaccine candidate	2012
Heather McDermid	The role of the gene Arhgap 19 in neurological development	2012
Ordan Lehmann	A pathway to therapy for congenital eye disease	2012
Shairaz Baksh	Analysis of the Expression of the Pro-apoptotic Protein, MOAP-1, in Pediatric Leukemias	2011
Monica Gorassini	Intensive Motor Training after Perinatal Stroke to Enhance Walking	2011
Denise Hemmings	Novel mechanisms of estrogen-induced vascular adaptation during pregnancy	2011
Sarah Hughes	The Role of the Merlin Tumour Suppressor in Post-Transcriptional Regulation	2011
Roger Leng	Role of UBE4B in Medulloblastoma	2011
Rhonda Rosychuk	Sex differences in Emergency Department Visits for Atrial Fibrillation/Flutter: Do women and men differ in their access to care	2011
Richard Thompson	Novel Characterization of Ventricular Mechanics and Tissue Properties determined Non- Invasively in Patients with Repaired Tetralogy of Fallot	2011
Michael Walter	Examination of Effectiveness of EGFR and VEGF Inhibition on FOXC1 Activity in Breast Cancer	2011
Rachel Wevrick	The Prader-Willi Syndrome Protein Magel2 in Childhood Obesity	2011
Eytan Wine	Intestinal Epithelial Cell Extrusion in Pediatric IBD: A Key to Unraveling Disease Prognosis and Pathogenesis	2011
Todd Alexander	Delineating the Molecular Mechanism Mediating Hypercalciuria	2010
Francois Bolduc	Drosophila Model for Understanding the Genetic Basis and Treatment of Angelman Syndrome	2010
Bryan Dicken	The Use Vasopressin in the Resuscitation of Neonates with Hypoxia-Reoxygenation Injury: a Randomized Blind Controlled Trial in the Swine Model of Neonatal Hyposiz- Reoxygenation	2010
YangXin Fu	Expression and Functional Role of GUCY1B3 in Ovarian Cancer	2010
Gregory Funk	Reducing the Respiratory Depressant Actions of Opioids by Targeted Inhabition of Opioid-Induced Glial Activation	2010
Ing Swie Goping	Predictive Markers for Taxane Responsiveness in Breast Cancer	2010
Andrea Haqq	Dietary Macronutrient Regulation of Active Ghrelin Levels in Children with Prader-Willi Syndrome (PWS)	2010
Lisa Hartling	Qualifying Bias in Randomized Controlled Trials and Systematic Reviews of Key Neonatal Interventions	2010
Marilyn Langevin	Relationship between Cerebral Oxygenation and Reading Fluency in Stuttering and Non- Stuttering School-Age Children: A Near Infra-red Spectoscopy Pilot Study	2010
Andrew Mackie	Novel Clinic-based Transition Intervention for Youth with Congenital Heart Disease	2010
Bryan Mitchell	Studies of the Mechanisms Leading to Term and Preterm Parturition	2010
Lindsay Ryerson	Prophylactic Peritoneal Dialysis Decreases Time to Achieve a Negative Fluid Balance After the Norwood Procedure—A Randomized Controlled Trial	2010

Investigator	Project Title / Description of Support	Date
Lisa Hornberger	Anatomical and Functional Predictors of Fetal Lung Hypoplasia	2010
Lisa Hornberger	The Evolving Role of First Trimester Fetal Echocardiography	2009
Sandra Davidge & Jason Dyck	The impact of intrauterine growth restriction on the early development of cardiovascular and metabolic dysfunction during diet-induced obesity	2009
Sukhdeep Dulai	The effect of liposomal lidocaine on perceived pain in children durng percutaneous interosseous pin removal in the outpatient setting: A triple blinded, randomized placebocontrolled clinical trial	2009
Tarek El-Bialy	Effect of non-viral vector loaded basic fibroblast growth Factor (bFGF) gene therapy and therapeutic ultrasound on mandibular growth modification for treatment of obstructive sleep apnea in children	2009
Catherine Field	Assessing folate status early in pregnancy; a pilot project of APrON	2009
Manjula Gowrishankar	The Utility of serum cystatin C measurement in the assessment of renal function in children with Solid organ transplantation	2009
Jia Li	The effects of dopamine and in combination of a beta3-adrenoceptor antagonist SR 59230A on systemic and regional (myocardial, cerebral and splanchnic) oxygen transport in newborn lambs after cardiopulmonary bypassA pilot from beside t o bench and back to bedside	2009
Andrew Mackie	Risk factors for loss to follow-up among children and young adults with congenital heart disease: A Mixed methods approach	2009
Heather	A mouse model for testing Arhgap 19 as a candidate susceptibility gene for neural tube	2009
McDermid	defects	
Eric Parent	Full Torso Surface Topography Measurements for the Management of Scoliosis: Reliability, responsiveness and correlations with radiographic measures of cure severity	2009
Lawrence Richer	Single-blind, placebo-challenge study of intravenous fluid hydration in the management of pediatric migraine in the Emergency Department	2009
Edythe Tham	Novel imaging techniques to determine the late effects of anthracycline toxicity on myocardial function in cancer survivors	2009
Bernard	Therapeutic potential of Anfiotensin Converting Enzyme 2 (ACE2) in experimental	2009
Thebaud	chronic lung disease of prematurity	
Justine Turner	Exogenous Glucagon-Like Peptide 2 to Promote Intestinal Adaptation in Neonates with Short Bowel Syndrome: Preliminary Investigations in Piglets	2009
Andrew Waskiewicz	An integrative approach to identifying genetic causes of congenital Strabismus	2009
Lori West	An Evaluation of an Online Support Network for Parents of Children with Heart Transplants	2009
Jeffrey Smallhorn	Influence of Preterm Delivery and Bronchopulmonary Dysplasia on Normal maturational Changes in Myocardial Function - Immediate and Short Term Differences measured by Tissue Doppler Echocardiography	2009
Tarek El-Bialy	Effects of Ultrasound and Local Growth Hormone Injections on Lower Jaw Growth in Rats	2008
Cara Dosman	Effect of Oral Iron Supplementation on Sleep in Children with Restless Legs Syndrome: A Randomized Placebo-Controlled Trial	2008
Po-Yin Cheung	The Effect of Milrinone on Regional Blood Flows in Neonates with Congenital Heart Defects prior to Cardiac Surgery	2008
Emmanuelle	Cellular Characterization of a New Band 3 Mutation causing Distal Renal Tubular Acidosis	2008
Cordat	and Hereditary Spehrocytosis	
Sarah Curtis	The VISION Study: Variation in Success of Intravenous Placement with Observation using New Techniques	2008
Jeff Fuller	Quantification of Human Papillomavirus Oncogene mRNA Expression as a Predictor of Cervical Cancer Progression	2008
Geoff Ball	One Size Does Not Fit All: Partnering with Parents and Clinicians to 'Set the Agenda' for Pediatric Weight Management	2008
Thierry Lacaze	Transcutaneous Bilirubinometers in the Community and the Reduction of Morbidity associated with Jaundice: A Clustered Randomized Controlled Trial	2008

Investigator	Project Title / Description of Support	Date
Hien Huynh	Prevalence of Celiac Disease in Children with Inflammatory Bowel Disease	2008
Lisa Hartling	Music to Reduce Pain and Anxiety in the Pediatric Emergency Department: A randomized Controlled Trial of Children 3-6 years undergoing Intravenous Placement	2008
Denise Hemmings	The Placenta as a Viral Reservoir: Increased Potential for Congenital Cytomegalovirus Infection	2008
Chloe Joynt	A Pilot Study to Determine if Teaching Crisis Resource Managment Skills Improves Resuscitation Performance and Retention in Pediatric Residents	2008
Sujata Persad	Molecular and Structural Alternations of the Oesophageal Epithelia in Pediatric Eosinophilic Oesophagitis	2008
Roger Leng	Regulation of TAp73 by Pirh2 in Medulloblastoma	2008
Catherine Morgan	The Role of Inflammatory Mediators in Acute Kidney Injury following Cardiopulmonary Bypass in Children	2008
Rabin Persad	Prevalence of Gastroesophageal Reflux Symptoms in Pediatric and Adult Patients with Cystic Fibrosis at Stollery Children's and the University of Alberta Hospitals 2008-2009	2008
Carmen Rasmussen	Diffusion Tensor Magnetic Imaging in Children with Tourette Syndrome	2008
Gregory Korbutt	Repopulation of Decellularized Human Aortic Valves with Umbilical Cord derived Endothelial Cells	2008
Shannon Scott	Understanding Storytelling as a Knowledge Transfer Technique for Parents	2008
Gina Rayat	Co-culture of Newborn Pig Islets with Bone Marrow and Sertoli Cells to Promote Long- term Islet Function with Immunosuppressive Drugs	2008
Bernard Thebaud	Isolation, characterization and Therapeutic Potential of Lung Alveolar Progenitior Cells	2008
Suzanne Tough	Examining the Effects of Breastfeeding Difficulties on Postpartum Depression: Healthy Mothers, Healthy Families	2008
Sunita Vohra	Active surveillance of Serious Adverse Events Associated with Pediatric Complementary and Alternative Medicine	2008
Edward Tredget	Signalling Cross-talk between Vitamin D and TGF-beta has Therapeutic Potential in Paediatric Burn Wound Healing	2008
Lori West	Molecular Genetic Analysis of Human B Lymphocytes Repertoire Specific to ABO Blood Group Antigen	2008

Appendix E – Emerging Research Team Grants Awarded

Investigator	Project Title / Description of Support	Date
Rhonda Bell	Sweet Moms Study	2009
Sunita Vohra	Mindfulness based stress reduction: a non-pharmacological approach	2009
	to support youth with mental health concerns	
Geoff Ball	Pediatric Weight Management: Advancing the Evidence in Family-	2009
	Centred Care	
Darryl Adamko	Improved Diagnosis and Management of Pediatric Respiratory	2009
	Diseases using Metabolomic Anaysis of Urine	
Gina	Exploring the maternity experiences of immigrant women	2009
Higginbottom		

Appendix F – Graduate Students Funded

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Avis, Jillian	Ball, Geoff	The Resource Information Program for Parents on Lifestyle and Education (RIPPLE)	2013
Kowal, Stephanie	Jardine, Cindy	Risk communication and vaccination uptake by recent immigrant mothers of Edmonton	2013
Krishnan, Devishree	Alexander, Todd	Delineating the mechanism linking sodium ingestion to urinary calcium excretion	2013
Lee, Joshua	Yokota, Toshifumi	Cocktail antisense-mediated exons 45-55 multi-exon-skipping for Duchenne Muscular Dystrophy	2013
Luck Gibson, Chloe	Wevrick, Rachel	Feeding pathways in mouse models of Prader-Willi Syndrome	2013
Perez, Arnaldo	Ball, Geoff	Understanding family engagement in tertiary pediatric weight management care	2013
Roberts, Erica	Storey, Kate	Exploring the role of the APPLE School Administrator in affecting organizational change and knowledge brokering	2013
Saltaji, Humam	Flores Mir, Carlos	What is the association between methodological characteristics and treatment effect estimates in clinical trials in pediatric dentistry and orthodontics?	2013
Stach, Tara R.	Lehmann, Ordan	The genetics of Ocular Fissure Closure	2013
Treit, Sarah	Beaulieu, Christian	MRI of brain development in Fetal Alcohol Spectrum disorders	2013
Yang, Ning	Goping, Ing Swie	The role of the Bcl-2 protein Bad in mammary gland development and carcinogenesis	2013
Zhang, Yong	Funk, Gregory	Shining light on the role of astrocytes and ATP in the ventilatory response to low oxygen	2013
Alicia Pawlowski	Anita Kozyrskyj	Maternal early life trauma and wheeze in young children: Could there be a connection?	2012
Anra Lee	Gwen Rempel	Investigating risk versus protective influences in the lives of adolescents diagnosed with cancer: A mixed methods study	2012
D. Eric Chalmers	Edmond Lou	An Artificial Intelligent System to Optimize the Brace Treatment for Scoliosis.	2012
Erin D. Lewis	Catherine Field	The role of maternal dietary choline intake during suckling on immune system development and function in the offspring.	2012
Ganesh Venkatraman	David Brindley	Role of lysophospholipids in breast cancer chemo-resistance, progression and metastasis.	2012
Jamie L. Zagozewski	David Eisenstat	The Role of DIx homeobox genes in retinal cell differentiation	2012
Jane W. Ng	David Olson	The role of epigenetics in linking maternal-fetal health to child outcomes.	2012
Joseph J.P. Pagano	Richard Thompson	Non-invasive measurement of myocardial function and tissue properties in patients with repaired tetralogy of Fallot.	2012
Katherine R. Wyper	Jacqueline Pei	The Neuropsychological Profile of High Risk Youth with FASD	2012
Katrina V. Kully-Martens	Carmen Rasmussen	Cognitive Habilitation Using Math Intervention for Children with Fetal Alcohol Spectrum Disorder	2012
Kimberly M. Derkatz	Lori West	The Role of CD22 Signaling in the Induction of B-cell Tolerance after ABO-Incompatible Infant Heart Transplant	2012
Nubia I Zepeda	YangXin Fu	Understanding the role of Notch signaling in ovarian cancer stem cells.	2012
Raie T. Bekele	David N. Brindley	Understanding the mechanism of tamoxifen resistance in breast cancer	2012

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Sahin Basak		Development of a New Viral Delivery System for siDNA in	2012
Salilli Basak	Hasan Uludag	Development of a Non-Viral Delivery System for siRNA in Treatment of Childhood Leukemias	2012
Satvinder Kaur	Joromo Vagor	Evaluation of Health Related Quality of Life and Its Determinants in	2012
Ghotra	Jerome Yager	Survivors of Pediatric Stroke	2012
Christelle	Joanne	Structural Study of Rhomboid Peptidases	2011
Lazareno-Saez	Lemieux	Structural Study of Kilofilbolu Peptidases	2011
Ensaf	Emmanuelle	Molecular Mechanisms Causing Distal Renal Tubular Acidosis	2011
Almomani	Cordat	Wolecular Mechanisms Causing Distal Relial Tubular Acidosis	2011
Julia Devos	Rachel	The Role of Magel 2 in Childhood Obesity	2011
Julia Devos	Wevrick	The Role of Mager 2 in Childhood Obesity	2011
Mandy	Shannon Scott	The Use of Narratives and Arts-based Methods as KT Tools	2011
Archibald	Shaillon Scott	The ose of Natratives and Arts-based Methods as Kr Tools	2011
Meghan	Sandra	The Role of the Stroma in the Pathogenesis of IUGR	2011
Riddell	Davidge	The Role of the Stroma in the Pathogenesis of fook	2011
Rami Abou	Fiona	Role of Pirh2 in the Regulation of TAp73 in Brain Tumors	2011
Zeinab	Bamforth	Note of Pilliz in the Regulation of TAP73 in Brain Tumors	2011
Ali Abdalvandi	Sandra	The Effect of Oxidative Stress on MMPs and ET-1 on Vascular	2010
Ali Abuaivariui	Davidge	Dysfunction in Preeclampsia	2010
Breanne		Polymeric siRNA Delivery System for Treatment of Childhood	2010
Landry	Hasan Uludag	Leukemias	2010
Carley Piatt	Joanne Volden	Development of Mathematical Cognition in Children with Autism	2010
Carley Platt	Joanne voluen	Spectrum Disorder	2010
Christopher	Darryl Adamko	The Role of CD4+ Memory T Cells in Zvireus Induced Airway	2010
Skappak	Darryi Adamko	Hyperreactivity (AHR)	2010
Dana Olstad	Kim Raine	'Catalyzing Adoption of the Alberta Nutrition Guidelines for	2010
Dalla Oistau	KIIII Kaiile	Children and Youth (ANGCY) in Recreational Facilities'	2010
Elise Watkins	Eric Parent	'Evaluating Methods of Recruiting Community Pregnant Women	2010
Elise Walkilis	LIIC Paleiit	for Community-based Epidemiological Research'	2010
Naheed Hosan	Wendy	Children's Peer Group Characteristics: Implications for Childhood	2010
Naneeu nosan	Hoglund	Depression and Anxiety	2010
Rajesh	Bernard	'Experimental Therapies to Prevent Pulmonary Hypertension and	2010
Stanislaus	Thebaud	Promote Lunch Vascular Growth in Congenital Diaphragmatic	2010
Alphonse	THEDaud	Hernia'	
Robertino	Ordan	Determining the cause of Ocular Anomalies in First Nations	2010
Mateo	Lehmann	Families	2010
Anthuvan	Bernard	Experimental therapies to prevent pulmonary hypertension and	2009
Rajesh	Thebaud	promote lung vascular growth in congenital diaphragmatic hernia	2003
Stanislaus	THEBaud	promote rung vascular growth in congenital diaphragmatic herma	
Alphonse			
Carley Piatt	Joanne Volden	Development of mathematical cognition in children with Autism	2009
Carley Flatt	Journal Voluett	Spectrum Disorder	2003
Constance	Ian Colman	The Relationship between Early Cognitive Development and	2009
Rebecca North	.a.r comian	Depression in Adolescence	
Debra	Shannon Scott	Individual determinants shaping nurses' management of children's	2009
Olmstead	2.10.11.1011 30011	procedural pain	
Erin Archibald	Carol Boliek	Respiratory, laryngeal and articulatory adjustments to changes in	2009
Z. III / II CIII Daid	Caron Bolick	vocal loudness in typically developing children and children with	2005
		spastic-type cerebral palsy	
		apasta type ociestat paray	

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Jennifer	Greg Funk	Role of Gila in Modulation of preBotC Inspiratory Rhythm	2009
Zwicker		Generating Networks	
Michele	Terry Klassen	Knowledge translation in reducing the risk of bias in child health	2009
Hamm		trials	
Ming Ye	Α	Prevalence and risk factors for asthma in young aboriginal children	2009
	SenthilSelvan		
Naheed Hosan	Wendy	Children's peer group characteristics: implications for childhood	2009
	Hoglund	depression and anxiety	
Randi Gombos	Denise	Cytomegalovirus Infection, Pregnancy and Vascular Dysfunction	2009
	Hemmings		
Salma	Geoff Ball	Does Chronic Stress Predict the Development of Asthma in	2009
Bahreinian		Children?	
Tyler Pittman	Anita Kozyrskyj	The association between neighborhood stressors and asthma	2009
		prevalence of school children in Winnipeg	
Vinitha Paul	Gwen Rempel	Post hospitalization parenting/caregiving processes for families in	2009
Ravindran		India with children who have sustained burns	

Appendix G – Summer Students Funded

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Arnold, Kirsten	Hughes, Sarah	Merlin regulation of proliferation via post-transcriptional regulation	2013
Ballantyne, Ross	Mackie, Andrew	Adults helping children: descriptive study of quality of life for adults with CHD to inform care of children with CHD	2013
Bronson, Heather	Olson, David	Leukocyte recruitment to the uterus at parturition	2013
Chu, Nathan	Funk, Gregory	Defining the signaling pathways through which ATP stimulates breathing	2013
Cojocaru, Alexandru	Churchill, Thomas	Developing a continuous perfusion system for clinical intestinal preservation	2013
Faily, Viane	Mager, Diana	How do parents and child's perceptions of quality of life affect dietary adherence to the gluten free diet and nutrition	2013
Hjartarson, Emma	Davidge, Sandra	Mechanisms for impaired cardiovascular adaptations to pregnancy at an advanced maternal age	2013
Kim, Joshua	Yokota, Toshifumi	Exons 45-55 multi-exon-skipping for Duchenne muscular dystrophy	2013
Klinger, Christen	Dacks, Joel	Characterization of AP5 in apicomplexan parasites	2013
McCutcheon, Andrew	Higginbottom, Gina	Immigrant women's experiences in maternity care services in Canada: training in narrative synthesis	2013
Mian, Qaasim	Cheung, Po-Yin Co-Supervisor: Schmolzer, Georg	Does positive pressure ventilation in preterm babies ventilated at birth cause brain injury?	2013
Novak, Christopher	Zwaigenbaum, Lonnie	Prospective analysis of parent concern in infant siblings with and without ASD	2013
Odenbach, Jeffrey	Curtis, Sarah	Systematic review of post-traumatic stress disorder screening in the pediatric emergency department	2013
Ou, Zhiyuan (Joe)	Baksh, Shairaz	Targeted inhibition of breast cancer metastasis	2013
Radostits, Todd	Mitchell, Lesley	Identifying genetic markers for risk of thrombosis in pediatric cancer patients: multicentre Canadian study	2013
Rahman, Fahim Hafizur	West, Lori	Inducing tolerance to T-independent antigens in neonatal mice using nanoparticles	2013
Rodger, lan	Wine, Eytan	Microbes in pediatric inflammatory bowel diseases (IBD): a key to unravelling disease pathogenesis	2013
Tsang, Conrad I.	Newton, Amanda (Mandi)	Suicide-related behaviours in children and youth: tracking emergency department visits in Alberta	2013
Ure, Megan	Alexander, Todd	Deciphering the role of claudin-14 in the pathophysiology of kidney stone formation	2013
Christen Klinger	Joel Dacks	Comparative Genomic Analysis of Multimeric Tethering Complexes in the Apicomplexan Parasites	2012
Dana MacIntyre	Linda Casey	Growth patterns, body composition and growth factors in pre-term infants after hospital discharge: A pilot study	2012
Daniel Zimmerman	Eytan Wine	Intestinal epithelial cell extrusion in pediatric inflammatory bowel disease (IBD)	2012

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Danielle Arseneau	Shannon Scott	Research Nurses' experiences of using iPads for data collection in a Pan-Canadian study	2012
Diya Shi	Sandra Wiebe	Neural correlates of self-regulation: The transition from early to middle childhood	2012
Grayson Beecher	Francois Bolduc	Pharmacotherapy of impaired social interaction in Autism Spectrum Disorder	2012
Hai Chuan Yu	YangXin Fu	Down-regulation of GUCY1B3 by carboplatin and its implication in chemoresistance of ovarian cancer cells	2012
Jennifer Stanfel	Denise Hemmings	Novel mechanisms of estrogen-induced vascular adaptation during pregnancy	2012
Jeremy Fife	Hasan Uludag	Designing Biomaterials to Delivery siRNA in Leukemia Treatment	2012
Lesley Thomas	Gary Lopaschuk	Maturation of fatty acid oxidation in the newborn heart	2012
Matthew Benson	Ordan Lehmann	Defining the molecular basis of pediatric glaucoma	2012
Michelle Casey	David Eisenstat	Role of DXL genes in forebrain development and relevance to autism spectrum disorders	2012
Michelle Chornell	Sandra Davidge	Mechanisms of long-term vascular effects in an animal model of preeclampsia	2012
Moses Fung	Bernard Thebaud	Isolation and characterization of lung endothelial progenitor cells in health and disease	2012
Nathan Chu	Greg Funk	Metabotropic glutamate receptors in the excitation of inspiratory networks by astrocytes	2012
Nicole Dahl	Gwen Rempel	Relationship of child adaptive skills to family management and parenting stress in families of children with complex CHD	2012
Ori Scott	Jerry Yager	Safety of broccoli sprouts in humans - a phase 1 clinical trial	2012
Orysya Svystun	Shairaz Baksh	Post-translational modification of the pro-apoptotic protein MOAP- 1 in pediatric leukemias	2012
Sarah Aziz	Jason Dyck	Pre-clinical testing of prenatal resveratrol administration in rats to prevent fetal programming of hypertension	2012
Todd Radostits	Lesley Mitchell	Identifying genetic markers for predicting children at risk for venous thrombosis in the pediatric oncology population	2012
Viane Faily	Catherine Field	Estimated Choline intake in a cohort of pregnant women in Alberta	2012
Ying Ling	Simon Urschel	Human regulatory B cells: phenotypes and maturation of interleukin 10 producing B cells in children	2012
Danielle Arseneau	Shannon Scott	Preparing Multidisciplinary Teams for Clinical Practice Change: A Qualitative Project	2011
Erin Boschee	Lindsay Ryerson	Risk Factors, Indicators and Mortality in Children Receiving Renal Replacement Therapy in Pediatric Intensive Care	2011
Laura A Vogels	Lori West	B Cell Tolerance in a Mouse Model of ABO-incompatible Infant Heart Transplantation	2011
Moses Fung	Bernard Thebaud	Isolation and Characterization of Lung Endothelial Progenitor Cells in Health and Disease	2011
Nanki Longowal	YangXin Fu	Role of GUCY1B3 in Epithelial Ovarian Cancer	2011
Ori Scott	Jerome Yager	Willingness of Expectant Mothers to Consume Broccoli Sprouts: Preventing Fetal Brain Injury	2011
Shaomeng Wang	Denise Hemmings	Mechanisms of Cytomegalovirus-induced Endothelial Permeability	2011

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Ying Ling	Simon Urshel	Regulatory Capacity of CD5+-CD1d+B Cells (B-10 Cells) in Healthy	2011
		Children and Following Heart Transplantation	
Alyssa Lau	Todd Alexander	Evaluation of Candidate Genes in the Causation of Hypercalciuria, Nephrolithiasis and Osteopenia	2010
Ashraf Kharrat	Samina Ali	Caregiver Satisfaction with Pediatric Pain Management in the Emergency Department	2010
Caitlyn	Denise	Regulation of Placental Artery Vasodilation by Sphingosine 1-	2010
Schleppe Carmen Chan	Hemmings	phosphate, a Bioactive Lipid	2010
	Sandra Davidge	Role of Neuronal Nitric Oxide Synthase in Endothelial Inflammation	2010
Helen Chung	Ordan Lehmann	Characterization of a Novel Bone Morphogenetic Protein Antagonist in Ocular Disease	2010
Leigh Beamish	Eytan Wine	Osteopontin Involvement in the Formation of Attaching/Effacing Lesions	2010
Peter Iglinski	Catherine Field	Establishing the Essentiality of Dietary Choline during Lactation	2010
Prabhjot Mahal	Lesley Mitchell	Relationship of Prothrombotic Markers to Thrombosis in Survivors of Childhood Cancer	2010
Ryan Alexander	Francois Bolduc	From Flies to Human and Back: the Role of Forkhead on Cognitive Development	2010
Solomia Tsisar	Gary Lopaschuk	Role of the Expression of HIF1-a in mediating the Decrease in Myocardial Glycolysis during the Neonatal Period	2010
Tami Wong	Shannon Scott	Developing and Testing Knowledge Translation Narratives for Parents with a Child with Asthma: Phase I	2010
Kevin Zuo	Andrew Mackie	Determining the Effectiveness of Prenatal Screening for Congenital Heart Disease in the Province of Alberta	2010
Aamir Bharmal	Ioana Bratu	Predictors of gastrocutaneous fistula in the pediatric patient	2009
Adam Hall	Bernard Thebaud	Enhancing the healing capacity of surfactant with stem cells	2009
Andrea	Sarah Forgie	Recovery of viruses from stethoscopes by culture and nucleic acid	2009
Berendt	A see a se de	amplification, and efficacy of ultraviolet disinfection	2000
Andrea Yu	Amanda Newton	Examining trends in clinical severity in pediatric mental health presentations to the emergency department	2009
Anna Matejki	Carmen	Diffusion tensor magnetic resonance imaging in children with	2009
Aillia Watejki	Rasmussen	tourette syndrome	2003
Brandon Tanner	Gary Lopaschuk	Changes in energy metabolism in the hypertrophic newborn heart	2009
Casey	Rhonda Bell	Methods to record infant feeding behaviours and contributions to	2009
Berglund	Tillorida Bell	maternal weight loss	2003
Catriona	Gwen Rempel	Application of the family management style framework to families	2009
Richmond		of pre-school children who have hypolastic left heart syndrome	
Christopher	Sandra Davidge	The effect of hyperglycemia on the estrogen regulation of vascular	2009
Cheung		nitric oxide synthases	
Jillian Popel	Wael El-Matary	Removal of esophageal foreign bodies in children: Rigid versus flexible esophagoscopy	2009
Lauren	Denise	The placenta as a viral reservoir for human cytomegalovirus	2009
Eastman	Hemmings		
Lauren Ryan	Lori West	Functional in vitro capacity and potential regulatory mechanisms of B-cells in ABO-incompatible infant heart transplant	2009
Lilliam Lim	Linda Chui	Detection of shiga toxin-producing e.coli in patients experiencing diarrhea in both hospital and community settings	2009

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Serge Goekjian	Gina Rayat		2009
Simon Bow	Terry Klassen	Developing a register of child-relevant systematic reviews: an evidence base for decision-making	2009

Appendix H – Science Shop Students Funded

Student	Supervisor /	Project Title / Description of Support	Date
	Mentor		
Batal,	Raine, Kim D/	Protecting children from the harmful effects of marketing	2013
Kareema	Reed, Shandy	unhealthy food and beverages: Engaging parents in charge	
Halayko,	Magill-Evans,	Teaching two-wheeled cycling to children with a mild cognitive	2013
Janine	Joyce	disability	
Kowal,	Jardine, Cindy	Risk communication and vaccination uptake by recent immigrant	2013
Stephanie	G/ Bubela, Tania	mothers of Edmonton	
Lefebvre,	Mayan, Maria	Adherence amongst chaos: a community-based research study to	2013
Megan		explore HIV-positive women's adherence to HIV medication	
Robinson, Tristan	Gokiert, Rebecca	Outcomes-based service assessment for at-risk Aboriginal families	2013
Saby, Colin	Chapman, Sherry-Ann	The AACL inclusive recreation community-based research project	2013
Angela	Tara-Leigh	Creating a Critical Hours Sports-Based Program with Aboriginal	2012
Coppola	McHugh	Adolescents: Establishing Cultural Relevance	
Melissa	Geoff Ball	Using Community-based research principles to develop a	2012
Daniels		knowledge translation plan for a pediatric obesity project	
Nicole	Rebecca Gokiert	Early childhood development in a multicultural context	2012
Nosworthy		7	
Rouzbeh	Ernest Khalema	Audism: The Hidden Problem	2012
Ghahreman			
Tracy Durksen	Laura	Exploring social determinants of health in Edmonton's low-income	2012
11,	Templeton	urban Aboriginal community	
Ekaterina	Rebecca Gokiert	Community - based Evaluation of a 'Caring Community	2011
Chudnovskaya		Collaborations' Pilot Project	
Julie Hudson	Laurie Schnierer	Early Childhood Development in Low Income Families: Community - driven Inquiries	2011
Mahsa Jessri	Anna Farmer	Barriers to Compliance with Infant Feeding Recommendations	2011
		among Diverse Etho-cultural Groups in Edmonton	
Eun Jung Shim	Maryam Sharifzadeh- Amin	Oral Health of Young Aboriginal Children in Urban Communities	2010
Holly Stack	Rauno Parrila	Exploring System Barriers and Enablers in Recruiting Low-income	2010
Cutler		Populations	
Kyley Alderson	Fay Fletcher	Examination of a Parent Education Program Designed to Support Child Language Development	2010
Marguerite	Maryam	Dental Health of Young Aboriginal Children in Urban Communities	2010
Tiangco	Sharifzadeh- Amin		
Stephanie	Veronica Smith	Examination of a Parent Education Program Designed to Support	2010
Patterson		Child Language Development	

Appendix I – Lunch & Learn Seminar Series

Title	Presented by	Date
Developing Resources for Pediatric & Women's Genetics	Dr. John Greer	June 2012
Putting your Research Findings to Work: An Introductory	Dr. Shannon Scott	November 2012
Workshop on Knowledge Translation		
Privacy and Data Security in Clinical Research	Dr. Lawrence Richer	January 2013
Developing Knowledge Translation Plans: Tools and Resources	Tatjana Alvadj	February 2013
Systematic Reviews: Everything You Wanted to Know but	Dr. Lisa Hartling	March 2013
Were Afraid to Ask		
Human Ethics and the Move to REMO	Kim Kordov	May 2013

Appendix J – Scientific Knowledge and Exchange Program Awardees

Awardee	Project Title / Description of Support	Date
Rhonda Rosychuk	Statistical Society of Canada annual scientific meeting	2013
Doug Hill	Brian Greenhill Lecturer in Orthopaedic Surgery Day	2012
Eytan Wine	Autography in health and disease: eating our way to a healthy future - Pediatric Grand Rounds	2012
Carol Boliek	The use of three-dimensional optical motion capture to measure non-speech and speech movements in children with speech disorders	2012
David Olson	LOI - Genome Canada research program (GAPPS/Gates graphics work)	2012
Denise Hemmings	No Name Conference	2012
Gary Lopaschuk	33rd International Society for Heart Research North American Section Meeting	2012
Ian Adatia	Hypoplastic left heart Symposium hosted by the Edmonton Congenital Cardiac Program at the 6th World Congress of Pediatric Cardiology	2012
Jeffrey Bisanz	Biennial Meeting of the International Society for the Study of Behavioural Development	2012
Jerry Yager	CP in Motion: A Conference and Workshop Focusing on Recent Advances in Applied Therapies for Children with Cerebral Palsy	2012
Lisa Hornberger	Fetal Perinatal and Neonatal Cardiology: State of the Art and New Frontiers International Symposium	2012
Rhonda Bell	Iron Status and Bone Metabolism: Impacts on Maternal and Child Health	2012
Samina Ali	Towards Optimizing the Treatment of Children's Pain in the Emergency Department	2011

Appendix K – Trainee Travel Grants Funded

Trainee	Supervisor / Mentor	Project Title / Description of Support	Date
Katrina Kully- Martins	Jacqueline Pei	International Conference on Fetal Alcohol Spectrum Disorder 27-Feb to 2-Mar, 2013 Vancouver, BC	2013
Stefanie Seitz	Simon Urschel	2013 Canadian Society of Transplantation Annual Scientific Conference March 13-16, 2013 Lake Louise, AB	2013
Bader Alsaikhan	Peter Metcalfe	Society of Pediatric Urology/American Urological Association Meeting 2-6 May, 2013 San Diego, CA	2013
Lesley Brennan	Sandra Davidge	Society for Gynecologic Investigation 19-23 March, 2013 Orlando, FL	2013
Tomohito Ishiguro	David Olson	Society for Gynecologic Investigation Annual Scientific Meeting 19-25 Mar, 2013 Orlando, FL	2013
Laura Marcela Reyes	Sandra Davidge	Society for Gynecology Investigation Annual Meeting 20-24 April, 2013 Orlando, FL	2013
Amber Savage	David McConnell	NNDR Conference in Disability Research 29-May to 1-June, 2013 Turku, Finland	2013
Laura Weingarten	Samina Ali	Canadian Association of Emergency Physicians 1-5 Jun, 2013 Vancouver, BC	2013
Jillian Avis	Geoff Ball	Canadian Obesity Summit 1-4 May, 2013 Vancouver, BC	2013
Satvinder Kaur Ghotra	Jerome Yager	Pediatric Academic Societies Annual Meeting 3-7 May, 2013 Washington, DC	2013
Eun-Young Lee	John Spence	Canadian Obesity Summit 1-4 May, 2013 Vancouver, BC	2013
Erin Lewis	Catherine Field	Experimental Biology 18-24 April, 2013 Boston, MA	2013
Katherine Pohlman	Sunita Vohra	International Congress of Complementary Medicine Research 9-14 April, 2013 London, UK	2013
Georg Schmolzer	Po-Yin Cheung	Pediatric Academic Society Annual Meeting 30-Apr to 07- May, 2013 Washington, DC	2013
Mordechai Slae	Hien Huynh	Digestive Disease Week 17-22 May, 2013 Orlando, FL	2013
Dongming Zhou	Christian Beaulieu	Conference of Human Brain Mapping Organization 16-20 June, 2013 Seattle, WA	2013
Rami Abou Zeinab	Roger Leng	American Association of Clinical Oncology 31-May to 4-Jun- 13 Chicago, IL	2013
Fatheema Begum Subhan	Catherine Field	Experimental Biology 19-24 April, 2013 Boston, MA	2013
Shyambabu Chaurasiya	Mary Hitt	American Society for Gene and Cell Therapy Annual Meeting 14-18 May, 2013 Salt Lake City, UT	2013
Rebecca Georgis	Rebecca Gokiert	American Educational Research Association 28-Apr to 1- May, 2013 San Francisco, CA	2013
Marilyn Gordon	Shairaz Baksh	Hippo Tumor Suppressor Network - From Organ Size Control to Stem Cells and Cancer 15-24 May, 2013 Monterey, CA	2013
Lyndsey Hahn	David McConnell	Nordic Network on Disability Research Conference 27-May to 4-Jun-13 Turku, Finland	2013
Mariam Hanna	Chloe Joynt	Neonatal Advanced Nursing Forum 29-31 May, 2013 Washington, DC	2013
Jane Ng	David Olson	Annual Infinium HumanMethylation450 Array Workshop 13-20 Apr, 2013 London, UK	2013
Kim-Cuong Nguyen	Lawrence Le	European Symposium on Ultrasonic Characterization of Bone 5-11 May, 2013 Granada, Spain	2013

Trainee	Supervisor / Mentor	Project Title / Description of Support	Date
Jessica Nicoll	Po-Yin Cheung	Pediatric Academic Societies Annual Meeting 3-7 May, 2013	2013
		Washington, DC	
Megan O'Reilly	Bernard Thebaud	Pediatric Academic Societies 30-Apr to 7-May-13	2013
		Washington, DC	
Alan Richter	Eric Parent	Society on Scoliosis Orthopedic Rehabilitation Treatment 8-	2013
		12 May, 2013 Chicago, IL	
Tho N.H.T. Tran	Lawrence Le	European Symposium on Ultrasonic Characterization of	2013
		Bone 5-11 May, 2013 Granada, Spain	
Rhonda	Venu Jain	International Conference on Prenatal Diagnosis and Therapy	2013
Zwingerman		31-May to 7-June, 2013 Lisbon, Portugal	
Kacey Neely	Nicholas Holt	Biennial Childhood Obesity Conference 17-23 June, 2013	2013
		Long Beach, CA	
Katrina Kully-	Jacqueline Pei	International Conference on Fetal Alcohol Spectrum	2013
Martins		Disorder 27-Feb to 2-Mar, 2013 Vancouver, BC	
Stefanie Seitz	Simon Urschel	2013 Canadian Society of Transplantation Annual Scientific	2013
		Conference March 13-16, 2013 Lake Louise, AB	
Bader Alsaikhan	Peter Metcalfe	Society of Pediatric Urology/American Urological	2013
		Association Meeting 2-6 May, 2013 San Diego, CA	
Samana Ali	Manoj Kumar	4th Congress of European Academic Paediatric Society	2012
		(EAPS) 1-6 Oct, 2012 Istanbul, Turkey	
Sarah McKillop	Sunil Desai	SOIP 44th Congress of the Society of Pediatric Oncology	2012
		London, UK October 5-8, 2012	
Antoinette	Jerome Yager	Society for Neuroscience 2012 12-18 Oct-12 New Orleans,	2012
Nguyen		LA	
Akiko Hirose	Lisa Hornberger	23rd Annual Scientific Sessions of American Society of	2012
		Echocardiography 29-Jun to 5-Jul, 2012 National Harbor,	
		MD	
Angela Mcbrien	Lisa Hornberger	23rd Annual Scientific Sessions of American Society of	2012
		Echocardiography 29June to 3July, 2012 National Harbor,	
		MD	
Candace Necyk	Sunita Vohra	International Research Congress on Integrative Medicine	2012
		and Health 15-19 May, 2012 Portland, OR	
Carrie Slatter	Dawn Hartfield	Pediatric Academic Societies Annual Conference 27-Apr-12	2012
		to 2-May-12 Boston, MA	
Christelle	Joanne Lemieux	GTBIO 2012 Francophone Conference 3-6 Apr, 2012	2012
Lazareno-Saez		Montpellier, France	
D. Eric Chalmers	Edmond Lou	Prosthetics & Orthotics Scientific Meeting 2012 Hong Kong	2012
		Oct 4-11, 2012	
Dana Olstad	Kim Raine	International Conference on Diet and Activity Methods 12-	2012
		18 May, 2012 Rome, Italy	
Emmi Driedger	Samina Ali	Canadian Association of Emergency Physicians Conference	2012
		1-6 June, 2012 Niagara Falls, ON	
Fatheema	Rhonda Bell	Experimental Biology 2012 - 20-27 Apr-12 San Diego, CA	2012
Begum			
Ganesh	David Brindley	Lipid Signaling Pathways in Cancer - FASEB Science Research	2012
Venkatraman		Conference 22-27 July, 2012 Steamboat Springs, CO	
Jamil Jivraj	Lonnie	International Meeting for Autism Research 16-19 May, 2012	2012
•	Zwaigenbaum	Toronto, ON	

Trainee	Supervisor / Mentor	Project Title / Description of Support	Date
Jessica Foulds	Rose Girgis	Canadian Pediatric Society Annual Conference 5-10 June, 2012 London, ON	2012
Jocelyn Graham	Rhonda Bell	Experimental Biology 2012 20-26 Apr, 2012 San Diego, CA	2012
Juliana VanderPluym	Hanna Kolski	Child Neurology Society 41st Annual Meeting 31-Oct to 4- Nov-12 Huntington Beach, CA	2012
Kennedy Denys	Carmen Rasmussen	Research Society on Alcoholism/FASDSG Annual Conference 22-27 Jun, 2012 San Francisco, CA	2012
Laura Forbes	Rhonda Bell	International Congress for Diet and Activity Methods 8 13- 17 May, 2012 Rome, Italy	2012
Mahsa Jessri	Anna Farmer	Canadian Nutrition Society Annual Meeting 2012 23-26-May 2012 Vancouver, BC	2012
Mostafa Shahin	Afsaneh Lavasanifar	2012 AAPS Annual Meeting and Exposition Chicago, IL 14-18 Oct-12	2012
Mostafa Shahin	Afsaneh Lavasanifar	CSPS 2012 Annual Symposium - Modern Therapeutics 2012 12-15 June, 2012 Toronto, ON	2012
Neelam Mabood	Mandi Newton	Canadian Academy of Child and Adolescent Psychiatry 32nd Annual Conference Sep 29-Oct 3, 2012 Montreal, PQ	2012
Raie Bekele	David Brindley	Lipid Signaling Pathways in Cancer - FASEB Science Research Conference 22-27 Jul-12 Steamboat Springs, CO	2012
Sandra Hodgetts	Lonnie Zwaigenbaum	Canadian Association of Occupational Therapists National Conference 6-10 Jun, 2012 Quebec City, PQ	2012
Sarah Treit	Christian Beaulieu	18th Annual Meeting of the Organization for Human Brain Mapping 10-14 June, 2012 Beijing, China	2012
Stephanie Kowal	Cindy Jardine	Advancing Excellence in Gender, Sex, and Health Research Conference 29-31 Oct-12 Montreal, PQ	2012
Valsan Verghese	Sarah Forgie	AMMI Canada - CACMID Annual Conference 1-7 May, 2012 Vancouver, BC	2012
Ahmed Abou- Setta	Donna Dryden	19th Cochrane Colloquim	2011
Daniel Kerage	Denise Hemmings	2012 SGI 59th Annual Scientific Meeting	2011
Francois Jacob	Jerome Yager	American Academy of Neurology	2011
Jaskiran Sidhu	Sujata Persad	American Association of Cancer Research Annual Meeting 2011	2011
Jean-Francois Turcotte	Hien Huynh	NAPRGHAN Annual Conference	2011
Jeanelle	Nestor	American Congress of Obstetricians & Gynecologists Annual	2011
Sabourin	Demianczuk	District Meeting	
Jennifer Zwicker	Greg Funk	Society of Neuroscience	2011
Ketan Kulkarni	Bev Wilson	SIOP 43rd International Society of Pediatric Oncology	2011
Luis Altamirano- Diaz	Lori West	ACC American College of Cardiology	2011
Meghan Riddell	Sandra Davidge	Keystone Symposium: Angiogenesis: Advances in Basic Science and Therapeutic Applications	2011
Paul Brooks	Lisa Hornberger	American Society of Echocardiography 22nd annual	2011
Rajesh Alphonse	Bernard Thebaud	American Thoracic Society (ATS)	2011
Rebecca Mercer	Rachel Wevrick	12th International Conference on Human Genetics	2011

Trainee	Supervisor / Mentor	Project Title / Description of Support	Date
Santokh Dhillon	Holger Buchholz	International Society for Heart & Lung Transplantation	2011
		(ISHLT) Meeting	
Stephane Bourque	Sandra Davidge	Keystone Symposium on Molecular and Cellular Biology	2011
Susan Armijo- Olivo	Lisa Hartling	19th Cochrane Colloquim	2011
Timothy Colen	Nee Khoo	Int'l Conference on Neonatal and Childhood Pulmonary Vascular Disease	2011
Vadivel Arul	Bernard Thebaud	American Thoracic Society (ATS)	2011
Yuka Yamamoto	Lisa Hornberger	International Society of Ultrasound in Obstetrics and Gynecology	2011
Zheng Hua	Justine Turner	Environmental Biology 2011	2011
Biagina-Carla Farnesi	Geoff Ball	Ottawa - June 2010 - Canadian Obesity Network 2nd Student Meeting	2010
Charissa Pockett	Holger Buchholz	Canadian Society of Transplantation - Annual Scientific Meeting 2011	2010
Gregory Hansen	Geoff Ball	Conference	2010
Heidi Angeles	Manisha Witmans	Canadian Pediatric Society 87th Annual Conference	2010
I.Esme Dijke	Lori West	American Society of Transplantation Annual Scientific Exchange	2010
Jiang-Qin Liu	Po-Yin Cheung	Annual Meeting of Pediatric Academic Societies	2010
Michele Hamm	Terry Klassen	2010 Pediatric Academic Societies' Annual Meeting	2010
Mylvaganam Jeyakanthan	Lori West	International Society for Heart & Lung Transplantation Meeting	2010
Yuanyuan Xie	Hien Huynh	Sixth Annual International Pediatric Intestinal Failure and Rehabilitation Symposium	2010
Aisha Bruce	Patricia Massicotte	Development of a Pediatric Quality of Life Inventory for Children Requiring Long-term Anticoagulation	2009
Alena Tse	Joan Robinson	Poster presentation - Infections in Children on extracorporeal membrane oxygenation (ECMO)	2009
Arul Vadivel	Bernard Thebaud	Poster presentation - The axonal guidance cue Ephrin promotes alveolar development	2009
		2008 PAS Annual Meeting	2009
Christina VanderPluym	Joan Rolrnsem	Pediatric Academic Societies Annual Conference	2009
Jacqueline Ha	Laszlo Bajzar	Poster Presentation - The Profibrinolyic effect of thrombin formation during fibrinolysis	2009
Jutta van den Boom	Lisa Hornberger	Oral and poster presentation. Influence of Preterm Delivery and Bronchopulmonary Dysplasia on normal maturational changes in myocardial function - immediate and short term differences measure by Doppler Echocardiography	2009
Lavinia Colton	Bernard Thebaud	CCCHR Trainee Symposium - trainee presentation	2009
Omar Abu-Sa'da	Jerome Yager	Poster - Effect of Caffeine on the developing rat brain	2009
Rajesh Alphonse	Bernard Thebaud	Akt activation protects lung alveoli from oxidant-induced injury	2009
Simon Urschel	Lori West	Oral Presentation - Is HLA Sensitization after Pediatric Thoracic Transplantation Age Dependent	2009

Trainee	Supervisor / Mentor	Project Title / Description of Support	Date
Thea Chibuk	Dawn Hartfield	Pediatric Complicated Pneumonia	2009
Alena Tse	Joan Robinson	Present Poster as Research Day winner	2008
Catherine Burton	Sarah Forgie	Poster presentation	2008
Catherine Burton	Sarah Forgie	Presenting Abstract - Development of a Pediatric Quality of Life Inventory for Children Requiring Long-term Anticoagulation	2008
Denise Adams	Sunita Vohra	CARE Trainee	2008
Erika Persson	Mia Lang	Pediatric Academic Societies Annual Conference	2008
		Research Day Winner presenting in Winnipeg competition	2008
Gloria Perez	Edythe Tham	Detection of subclinical myocardial dysfunction in patients undergoing anthracycline therapy	2008
Jiaqgin Liu	Po-Yin Cheung	Pediatric Academic Societies Annual Conference	2008
Juliana Rey-Parra	Bernard Thebaud	American Pediatric Society for Pediatric Research	2008
Khalfan Alsenaidi	Helen Coe	Poster & Oral - Percutaneous pulmonary valve replacement	2008
Mark Belletrutti	Dawn Davies	Attitudes and opinions of pediatric physicians regarding decisions to withdraw or withhold medically provided hydration or nutrition	2008
Michael Bowman	Kent Stobart	Oral Presentation at SIOP International Conference	2008
Mohamed El- Kalla	Shairaz Baksh	Poster presentation - Molecular mechanisms of RASSF1a directed inflammation	2008
Scott Pharis	Andrew Mackie	Oral Presentation-The impact of new SBE prophylaxis guidelines on the practice of pediatric and adult congenital cardiologist.	2008
Ava Kalyca Chow	Richard Schulz	Poster presentation - Caveolin- 1 regulation of matrix metalloproteinase - 2 in the heart	2007
Gordon Mack	Mary Massicotte	Oral Presentation - Complementary Alternative Medicines and Warfarin: Development and Validation of a Child Focused Education Tool in Children with congenital Heart Disease	2007
Mark Belletrutti	Dawn Davies	Research Poster - Attitudes and opinions of pediatric physicians regarding decisions to withdraw or withhold medically provided hydration or nutrition	2007

Appendix L – Resident/Clinical Fellow Research Awardees

Student	Supervisor / Mentor	Project Title / Description of Support	Date
Andrea Chambers	Troy Turner	Pre-hospital and Emergency Room Management of Pediatric Anaphylaxis at a Canadian Pediatric Centre	2013
Fareeha Nasir	Joan Robinson	Awareness of and adherence to clinical practice guidelines among pediatric physicians in Canada	2013
Tamar Rubin	Sunita Vohra	Systematic review of outcome measures in randomised controlled trials of pediatric eosinophilic esophagitis (EoE) treatment	2013
Jessica Nicoll	Po-Yin Cheung	Exhaled carbon dioxide and its relationship to neonatal breathing patterns in preterm infants immediately after birth	2013
Dawn Danielson	Fiona Bamforth	A survey of primary care providers level of comfort and understanding of newborn metabolic screening in Alberta	2012
Gary Galante	Andrew Mackie	Pericardial effusion following open heart surgery in children: Incidence, risk factors, and outcomes, and utility of routine post- operative surveillance with echocardiography	2012
Jean-Sebastien Pelletier	Po-Yin Cheung	Receptor analysis of low-dose vasopressin in a swine model of hypoxia-reoxygenation	2012
Joseph LaBossiere	Po-Yin Cheung	The cardioprotective effects of matrix metalloproteinase-2 inhibition in neonatal asphyxia	2012
Jung Lee	Samina Ali	High fidelity simulation in pediatric emergency medicine: A survey of facilitator comfort and practice	2012
Lannae Strueby	Bernard Thebaud	Paracrine effect of mesenchymal stem cells on ventilation induced lung injury	2012
Mordechai Slae	Hien Huynh	Role of environmental factors in children with Eosinophilic Esophagitis	2012
Sadia Nakhuda	Mia Lang	Family-centered care in general pediatric clinical teaching units	2012
Timothy Colen	Jeffrey Smallhorn	Sub-valve and valvar abnormalities are associated with post- operative valve failure in children with primum AVSD	2012
Allison Hobbs	Bryan Dicken	Applying fibroscan elastography to the prediction of hepatic fibrosis in pediatric patients with intestinal failure	2011
Angie Wing Sum Ip	Lonnie Zwaigenbaum	Factors influencing ASD screening by community pediatricians: A mixed methods study	2011
Chelsey Grimbly	Sarah Curtis	Parenteral antibiotic duration in the treatment of pediatric osteomyelitis: A systemic review	2011
Daina Thomas	Samina Ali	Pediatric Pain Management in the Emergency Department: The Triage Nurses' Perspective	2011
Eileen Estrabillo	Linda Casey	Predictors of typical versus atypical feeding behaviors in children	2011
Jean-Francois Turcotte	Justine Turner	Comparison of the treatment of iron deficiency anemia in inflammatory bowel disease in children using oral iron fumarate vs. oral heme iron.	2011
Julia Drager	Justine Turner	Application of 2006 WHO Growth Standards to Young Children Referred to Sub-specialty Clinics for Failure to Thrive	2011
Laura Forbes	Rhonda Bell	Promoting healthy weight gain in pregnancy through dietary behavior change interventions	2011
Laura Weingarten	Samina Ali	A Child's Perspective on Pain Management in the Emergency Department	2011
Mariam Hanna	Chloe Joynt	Internet Use for Obtaining Medical Information by Parents in a Neonatal Intensive Care Unit	2011

Student	Supervisor /	Project Title / Description of Support	Date
	Mentor		
Samana Ali	Lisa Hartling	A descriptive study of randomized controlled trials examining nutritional interventions for the neonatal population	2011
Santokh Dhillon	Edythe Tham	Cardiac Magnetic resonance (CMR) evaluation in the surgical management planning of borderline ventricles	2011
Sneha Suresh	Joan Robinson	Oral valganciclovir for CMV treatment in pediatric solid organ transplant patients	2011
Aysel Auer	Justine Turner	The Role of Intralipid Monitoring in Pediatric Parenatal Nutrition Support	2010
Carrie Slatter	Dawn Hartfield	Characteristics and Treatment of Children Admitted to Hospital for Severe Iron Deficiency Anemia	2010
Devika Dixit	Sarah Forgie	Attitudes/Feelings about Personal Protective Equipment (PPE) and Hand Hygiene among Residents	2010
Emmi Driedger	Samina Ali	What are kids getting into these days? Trending substance use presenting to the Stollery Children's Hospital Emergency Department	2010
Jessica Wylie	Seth Marks	Health Care Costs for Children with New Onset Type 1 Diabetes in Edmonton & Northern Alberta	2010
John Neilson	Lawrence Richer	Orthostatic Intolerance as a Marker of Altered Cerebral Perfusion and Trigger for Migraine Progression - A Pilot Study	2010
Ketan Kulkarni	Mary Patricia Massicotte	Outcomes of Antithrombotic Therapy in Pediatric Liver Transplant	2010
Michael van Manen	Michael Narvey	The use and outcome of paralysis for management of gastroschisis with silo	2010
Natalie	Mia Lang	Educating Minor Hockey Coaches about Concussion	2010
Neelam Mabood	Mandi Newton	Caring for Adolescents Who Visit the Emergency Department for Alcohol Use: A Phenomenological Study of Health Care Providers' Attitudes and Beliefs	2010
Rebeka Stevenson	James Coe	Utility of serial N-terminal natrituretic peptide (NT-proBNP) levels in pediatric heart failure	2010
Yuka Yamamoto	Lisa Hornberger	Anatomical and Functional Predictors of Fetal Lung Hypoplasia	2010
Christina Vanderpluym	Manjula Gowrishankar	Can the measurement of Cystatin C be utilized to determine renal function in children with solid organ transplantation?	2009
Paul Enarson	Terry Klassen	Clinical Markers of Early Septic Shock in the Pediatric Emergency Department	2009
Fawaz Al- Rafaee	Justine Turner	The Relationship between Antitissue Transglutaminase Antibody Level and Histological Findings in Children Referred for a Diagnosis of Celiac Disease	2008
Michael van Manen	Leonora Hendson	Eighteen-Month Neurodevelopmental Outcomes of Children Born with Gastroschisis from Northern and Central Alberta	2008
Steven Johnson	Geoff Ball	Measuring Waist Circumference in Children and Youth: Developing a Standard Protocol Based on Cardiometabolic Risk	2007

Appendix M – Recruitment, Retention and Other Awards

Lisa Hartling / Shannon Scott Helen Steed CCI Robotic Endometrial Trial 2012 Sandra Davidge preeclampsia, fetal programming 2012 Siva Pagliardini breathing, control of breathing, physiology, rhythms 2012 Sue Ross mature women's health, pelvic floor disorders, health care systems, clinical trials Suzanne Tough Maternal History of Early Adversity 2012 David Eisenstat neuro-oncology, cancer development, stem cells 2011 Francois Jacob neurology, copper metabolism disorder 2011 PrangXin Fu notch signalling, ovarian cancer, molecular mechanisms 2011 Christian Beaulieu imaging, fMRI, imaging technology 2010 Jerome Yager cerebral palsy, neurological development 2010 John Andersen cerebral palsy, neurological development, prevention 2010 Sunita Vohra complementary/alternative therapies, clinical trials 2010 Lisa Hornberger The Evolving Role of First Trimester Fetal Echocardiography 2009 David McConnell child welfare, cognitive impairment 2009 Emmanuelle Cordat kidney disease, membrane proteins 2009 Eytan Wine gut, host-microbial interactions 2009 Johnana MacLean Funding for research assistant 2009 Janna MacLean Funding for research assis	Investigator	Area of Research Interest	Date
Helen Steed CCI Robotic Endometrial Trial 2012		Translating Emergency Knowledge for Kids (TREKK)	2012
Sandra Davidge preeclampsia, fetal programming 2012 Dawn Kingston Maternal Psychosocial Assessment to Care Trial (IMPACT): Intervening Early to Improve Maternal and Family Well-being 2012 Silvia Pagliardini Dreathing, control of breathing, physiology, rhythms 2012 Sue Ross mature women's health, pelvic floor disorders, health care systems, clinical trials 2012 Suzanne Tough Maternal History of Early Adversity 2012 David Eisenstat neuro-oncology, cancer development, stem cells 2011 Francois Jacob neurology, copper metabolism disorder 2011 YangXin Fu ontch signalling, ovarian cancer, molecular mechanisms 2011 Christian Beaulieu imaging, fMRI, imaging technology 2010 Jerome Yager cerebral palsy, neurological development 2010 John Andersen cerebral palsy, neurological development, prevention 2010 Sunita Yohra complementary/alternative therapies, clinical trials 2010 Usa Hornberger The Evolving Role of First Trimester Fetal Echocardiography 2009 David McConnell child welfare, cognitive impairment 2009 Eytan Wine gut			
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Jane Schulz mature women's health, pelvic floor disorders, incontinence 2008	Geoff Ball	nutrition, pediatric weight management, parent/child/clinician	2008
	lan Adatia	critical care, pulmonary hypertension, cardiology	2008
Jia Li mass spectrometry, cardiology, rhythms 2008	Jane Schulz	mature women's health, pelvic floor disorders, incontinence	2008
	Jia Li	mass spectrometry, cardiology, rhythms	2008

Investigator	Area of Research Interest	Date
Lonnie	neurological development, autism spectrum disorder, network/cohort	2008
Zwaigenbaum		
Piush Mandhane	child development, environmental factors/influence, asthma	2008
Todd Alexander	kidneys, calcium, molecular disorders, treatment	2008
Yangxin Fu	ovarian cancer, tumorigenesis, Notch signaling	2008
Amanda Newton	Pilot study of a Computer-Based Brief Intervention for Adolescent Alcohol	2008
	Misuse in the Emergency Department	
Mary Jetha	child/ youth, lipid disorders, diabetes, obesity	2007
Amanda Newton	child/youth, mental health, emergency services	2007
Catherine Morgan	inflammatory mediators, kidney injury, cardiopulmonary bypass	2007
Denise Hemmings	congenital cytomegalovirus infection, placenta	2007
Peter Metcalfe	intra-vesical pressures, molecular pathway characterization, therapy	2007
	development	
Rabin Persad	gastroesophageal reflux, child	2007
Sarah Curtis	child/youth, emergency health services	2007
Sujata Persad	oncology, inflammation, molecular biology, intercellular signaling	2007

Appendix N – Bridge Funding Awarded

Investigator	Project Title / Description of Support	Date
Rachel Wevrick	Genetic and functional analysis of a mouse model of pediatric obesity	2013
Jaynie Yang	Intensive Motor Training After Perinatal Stroke to Enhance Walking	2012
Kathy Hegadoren	The impact of violence experiences on the relationship between oxytocin levels and trust	2012
Lisa Hornberger	Fetal Cardiovascular Programming in Maternal Diabetes: Longitudinal Investigation from the Fetal Stage to Early Childhood	2012
Lori West	Exploiting the immunologic immaturity of infancy: pathways to transplant tolerance	2012
Po-Yin Cheung	The cardiovascular support in newborns with hypoxia-reoxygenation injury	2012
Andrea Haqq	Is Prader-Willi Syndrome (PWS) a Unique Model of Childhood Obesity? Evaluation of Automatic Nervous System Function, Body Fat Distribution and Metabolic Profile in Children with PWS	2011
Denise Hemmings	Regulation of Vascular Tone by Sphingosine 1-Phosphate in Pregnancy	2011
Lisa Hartling	Optimizing the Validity, Utility and Transfer of Evidence for Pediatric Health-care practitioners	2011

Appendix O – Clinical Research Informatics Core Utilized Tools

Program / Tool	Description
REDCap (Research Electronic	REDCap is a secure, web-based application designed exclusively to
Data Capture)	support data capture for research studies. While REDCap lacks support
	for Health Canada regulated studies it has a straightforward user
	interface and strong export capabilities that should allow it to be used
	by WCHRI's research teams with little or no end user support.
	OpenClinica remains our preferred tool for randomized clinical trials
	and all studies performed under a Health Canada CTA.
CheckBox	CheckBox software allows investigators, with CRIC support, to invite
	study subjects to participate in web-based surveys.
ePRO (Electronic Patient	ePRO manages longitudinal data collection directly from study
Reported Outcomes)	subjects. Interfacing directly to Checkbox Survey Server, it issues
	assessment invitations and reminders according to predefined study
	schedules while also tracking participant responses.
OpenClinica	OpenClinica allows rapid study implementation within an environment
	that conforms to regulatory (TPD and FDA) standards. This service
	improves data quality and removes the need for study specific
	database development, saving money and avoiding the risks that are
	often associated with software development. CRIC's services are
	tailored to meet each study's requirements and budget including
	training and support, full data collection and management, or any
	combination in between. For regulatory studies CRIC can instigate a
	data management process appropriate for Health Canada.

Appendix P – Clinical Research Informatics Core Users

Investigator	Project Name
Alberta Heart Institute	Alberta Heart Final Report
Alicia Chan	Fabry
Andrea Hagg	ANS Function in PWS
••	Clinical Characteristics of PWS
Andrew Mackie	Chapter II
	Discharge Study
	CHD and HTx Transition Readiness Study (RA: KR)
	Lost to Follow-up
	Marfan Review (Trainee - Varsha Thakur)
	Novel Transition Interventions
	Pericardial Effusion
	Prenatal Detection of CHD (Trainee Jean Trines)
	Ready or Not
	Chapter Study (RA Kathryn Rankin)
Anita Kozyrskyj	Maternal Distress and Childhood Asthma
	Maternal Distress and Childhood Asthma-Lottery
	Symbiota
Ari Joffe	Alberta Sepsis Network: Pediatrics
	Baby Survey
	Brain Death Neurologists Survey
	EEG in severe traumatic brain injury
Arya M. Sharma	5As Tool Study
Bernard Thebaud (Joanna	The New Breath Study
MacLean)	'
Bonnie Islam	NECC Survey
Bonnie Kaplan	APRoN Support
Brian Rowe	Interventions in Acute Asthma
	Migraine Practice Guidelines Survey
	UHF Grant survey
Bruce Ritchie	PSVT
Bryan Dicken	Heterotaxy Syndrome: Is a prophylactic ladd procedure necessary in
	asymptomatic patients?
C17	Data collection platform
	N2 Equipment Maintenance and Calibration
	Stakeholder Feedback Survey
Centre of Genomics and Policy	Direct-to-Consumer Genetic Testing
CHEO	CHEO REDCap Support
CPGDS Consortium	CPGDS Web Site
David Nicholas	Transitioning Institutionalized Adults with Mental Illness to the Community
	(Davies-Musselwhite/Rogan)
	Vocational Resources Alberta
	Vocational Resources Canada
Dawn Davies	Pediatric Hanging Injuries
	Pediatric Palliative Care
Dawn Kingston	Barriers & Facilitators
Denise Avard	DTC Survey
Denise Thomson	Safety Attitudes: Frontline Perspectives

Investigator	Project Name
Department of Pediatrics	Anonymous Staff Survey
	DoP Division of Research Member Survey
	EPSC Survey 2010
	Grand Rounds
	Support Staff/Financial In-Service Training Survey
Edythe Tham	Single Ventricle echocardiographic evaluation
El-Matary	IBD Transition
Epicore	Epicore REDCap Project
Eric Bedard	HRQOL after VATS lung resection for Ca.
Eric Parent	BPET (Tr Flavio Bonnet)
	Lokomat Evaluation (Richter/Hill)
	Low Back Pain
	the SETS study (Tr. Elise and Sanja)
Faculty of Medicine &	Provision of REDCap to Faculty
Dentistry	Trovision of Nebeap to Faculty
François Bolduc	Fly gene array matching
Geoff Ball	Day Patient Intervention
Geon Ban	PCWH - Baseline
	Should I Stay or Should I Go
	The PAC Study
	Working with parents to prevent childhood obesity
Gerald Geisbrecht	APRON
Graham Thompson	Appy Practice Variation
Granam mompson	Fluid Resuscitation in Pediatric Severe Sepsis
Gwen Rempel	Dorfman Systematic Review
Gwell Kempel	Family Resilience Study
	Patient Navigator
	Safeguarding Survival (Louisa Fricker)
Hien Huynh	Child Smoking
men nayını	GO IBD Research Database
	Possible RCT
Ian Adatia	
ian Auatia	Acoustic analysis Chest Closure
	Coaptation after Glenn
	Determination of Pediatric Oxygen Consumption
	Oxygen Consumption Methods
	Single Vs Two CAVSD
	Vasoactive Mediators
Jeff Pugh	Hydrocephalus Registry
Jerome Yager	Health related quality of life after pediatric stroke
Johanna Darrah	AIMS
Jonathan Duff	Hemodynamic Collapse Post-Norwood
Jonathan Gaudet	Sepsis in Canadian Emergency Departments
Justine Turner	Attitudes to the use of Human Breast Milk in NICU
	Celiac Patient Satisfaction Survey
Kathleen Hegadoren	Trauma in Pregnancy (TIPS)
Khalid Aziz	The Golden Hour

Project Name
Efficacy of combination therapy with intravenous ketorolac and
metoclopramide for pediatric migraine therapy in the Emergency Department
Acute Migraine Systematic Review
Chronic Migraine Clinical Care Gap
IIH Registry
IV Fluid Study
Pediatric Headache Research Registry
PROMIC Study
Safety and Performance of Ethanol Lock in Home Parenteral Nutrition Patients
BROAD Capsule Study
AICCP
Evaluation of a Parent to Parent Support Program
Prophylactic Peritoneal Dialysis
Barriers and Facilitators (Tr. Michele Hamm)
Communication Tools For Croup
Cardiac Function (TDE)
Connecting the Dots (PD Sandra Hodgetts)
Online Support Network for Parents of Children with a Heart of Liver Transplant
Safety Surveillance Development
Safety Surveillance Support
PROBE
Cystatin C AKI
Cystatin-C
Epidural analgesia in labour
Cerebral Palsy Registry - Evaluation
Knowledge Translation database
MICYRN General
Cerebral Palsy Registry
NeuroDevNet System Support
PCC Workforce Survey
OSA + NE
Azithromycin
CHILD Study Visit Organizer
REDCap Data Propagation Tool
REDCap to REDCap Data Tool
Refer a Friend
WCHRI Recruitment
MICYRN Biobank Survey
,
STOPP
High Fidelity Simulation in Pediatric Emergency Medicine
Acute Pediatric Musculoskelatal Pain
Patient Satisfaction with Pain Management
r delett Sadsidetton with r din management
Safety in Children With Traumatic Injury
Safety in Children With Traumatic Injury The Genomics Study
The Genomics Study

Investigator	Project Name
Sarah Curtis	PPP Study
	Practice Variation Pain Survey (PEM)
	VISION
Shannon MacDonald	Parents' Views and Experience with Immunization-data entry
Stephanie Atkinson	Weight gain during pregnancy
Stephen Caron	SPARC satisfaction survey
Sunita Vohra	ASRLS
	N of 1
	Patient Safety Attitude Survey
	PRISMA Harms Extension
	Rhodiola rosea
Thierry Lacaze	CHEO Support
	LPT
	PPROM
	TcB RCT
Trina Uwiera	Nocturnal Enuresis
Veronica Smith	Perceptions on early intervention for children with autism
Winnie Sia	Effectiveness of Postpartum Nutrition and Lifestyle Counseling Interventions on
	Cardiovascular Risk Reduction in the RAH Postpartum Preeclampsia Clinic

Appendix Q – Clinical Research Coordination Core Users

Investigator	Project Name
Abraham Peliowski	Efficacy and Safety of Targeting Lower Arterial Oxygen Saturations to Reduce Oxygen
	Toxicity and Oxidative Stress in Very Preterm Infants
Alicia Chan	A Phase 3b Open-Label Study to Evaluate the Effect of Kuvan® on Neurocognitive
	Function, Maintenance of Blood Phenylalanine Concentrations, Safety, and Population
	Pharmacokinetics in Young Children with Phenylketonuria
	A Phase 3b double-blind, placebo-controlled, randomized study to evaluate the safety
	and therapeutic effects of saproterin dihydrochloride on neuropschiatric symptoms in
	subjects with phenylletonuria
Andrea Haqq	GeNeSIS - The genetics and neuroendocrinology of short stature international study
Bernard Thebaud	Identification and isolation of endothelial progenitor cells (EPCs) from placenta and
	umbilical cord blood of premature and term infants
Carina Majaesic	CARESS: Canadian RSV Evaluation Study of Synagis®
David Olson	Single Nucleotide Polymorphisms and Stress in the Etiology of Spontaneous Preterm
Davia Olson	Birth
Dawn Davies	Develop and Pilot a Parent-Delivered Massage Program in Pediatric Oncology
Dawn Hartfield	A Study of the Epidemiogy of Adverse Events in Children Hospitalized in Canada: The
Diana Manan	Canadian Pediatric Adverse Events Study
Diana Mager	Effect of branched chain amino acid supplementation on neurodevelopmental
	outcomes in infants with cholestatic liver disease awaiting liver transplantation
Edmond Ryan	Metformin in women with type 2 diabetes in pregnancy trial
Elizabeth Roselowsky	Genesis (The Genetics and Neuroendocrinology of Short Stature; International Study)
Eytan Wine	Azithromycin Based Therapy for Induction of Remission in Active Pediatric Crohn's
	Disease
Helly Goez	Charting the Territory: Determining and Documenting Trajectories for Families Where a
	Child Has a Life-Threatening Condition
Hien Huynh	Develop (A Multicenter, Prospective, Long-term, Observational Registry of Pediatric
	Patients with Inflammatory Bowel)
	A Randomized, Double-blind, Parallel-group Study to Assess the Safety and Efficacy of
	Asacol (1.2 to 4.8g/day) 400 mg Delayed-release Tablets Given Twice Daily for 26 weeks
	to Children and Adolescents for the Maintenance of Remission of Ulcerative Colitis
	A phase 3, randomized, open-label, parallel-group, multicenter trial to evaluate the
	safety and efficacy of infliximab (REMICADE) in Pediatric subjects with moderately to
	severely active ulcerative colitis
	Nurture: A Phase 2, open-label, multicenter study to assess the safety and efficacy of
	certolizumab pegol in children and adolescents with active Crohn's disease (CD)
	Molecular and structural alterations of the oesophageal epithelia in pediatric
	eosinophilic oesophagitis (EE)
	A Multidisciplinary Human Study on the Genetic, Environmental and Microbial
	Interactions that Cause Inflammatory Bowel Disease
	Nuture Extension: An Open-label, Multi-center Study to Assess the Safety of
	Certolizumab Pegol in Children and Adolescents with Active Crohn's Disease who
	completed C87035
	A Multicenter International Study of the Long-term Safety of Infliximab (REMICADE®) in
	Ulcerative Colitis RESULTS UC: REMICADE Safety Under Long-term Study in Ulcerative
	Colitis
Ioana Bratu	Canadian Pediatric Surgery Network (CAPSNet): establishing best perinatal practices for
(previously Gordon	gastroschisis and conagenital diaphragmatic hernia using a Canadian dataset
Lees)	5000 0000000 and contagenital diaphilaginatic nernia asing a canadian autaset
LCC3/	

Investigator	Project Name
Janet Ellsworth	Biologically-based Outcome Predictors in Juvenile Idiopathic Arthritis (BBOP)
	Determinants of Risk and Outcome in Inflammatory Arthritis
	LEAP: CIHR Team in Linking Exercise, Physical Activity and Pathophysiology in Childhood
	Arthritis: A Canadian Collaborative Team
	ReachOut: New onset juvenile idipathic arthritis A Canadian Multicentre Collaborative
	Outcomes Study
	Teens taking charge: an internet-based self-management program for adolescents with
	arthritis: a randomized controlled trial
Joanna MacLean	Indicators, results and outcomes of infant sleep studies: a 10 year review
Joanna MacLean	Improving Metabolic Outcomes with PAP for Obstructive Sleep apnea in children and
	Teens with Obesity: IMPACT Obesity
Johanna Darrah	Canadian Infants' Motor Abilities: A validation of the Alberta Infant Motor Scale
Johanna Barran	Normative Data
Kahlid Aziz	Canadian NeoNatal Network Database
Karina Aziz Karen Benzies	
Karen Benzies	Effects of an Educational Intervention on Father's Interactions with Infants born
Voth. Honodone	between 34 and 36 weeks gestation
Kathy Hegadoren	TIPS (A Prospective Matched Cohort Regional Study of Maternal and Child Outcomes after Trauma during Pregnancy)
	Impact of Partner Violence on Women's Health
	Exploring the Relationship between Trust and Plasma levels of Oxytocin in
Lawrence Richer	Premenopausal Women: a Pilot Study
Lawrence Richer	A Worldwide, Randomized, Double-blind, Placebo-controlled, Parallel Group Clinical
	Trial to Evaluate the Safety and Efficacy of Rizatriptan for the Acute Treatment of Migraine in Children and Adolescents
Leo Dieleman	Capsule Endoscopy for the assessment of abnormal intestinal permeability in Crohn's
Leo Dieleman	Disease relatives
	Use of an Orally Administered Antibody to Gluten to Prevent the Recurrence of
	Symptoms and Laboratory Parameters in Persons with Celiac Disease (Gluten Sensitive
	Enteropathy)
Lesley Mitchell	The influence of age on the regulation of thrombin; Relevance to the development of
Lesicy Witterien	Thromboembolic disease and its treatment
	Biomarkers for cardiovascular disease in childhood obesity
	Relationship of prothrombotic markers to thrombosis in survivors of childhood cancer
Manjula Gowrishankar	Serum Cystatin-C Determination of Renal Function in Pediatric Solid Organ
Wanjala Cownshankar	Tranplanation
	North American Pediatric Renal Transplant Cooperative Study
	Cystantin-C for Prediction of AKI in children who undergo cardiac surgery
Manoj Kumar	Epidural: Is epidural analgesia in labour associated with respiratory distress in term and
Than of Hama	near-term neonates?
	Epidural 2: Is epidural analgesia in labour associated with respiratory distress in late
	preterm infants? – a retrospective cohort study
Mark Belletrutti	Multiple dose Study to Evaluate the Pharmacodynamics, Safety, and Tolerability of
	Apixaban in Pediatric Subjects with an Indwelling Central Venous Catheter
	Pilot Study for Standardization of Diagnostic Techniques for Central Venous Catheters -
	Venous Thromboembolism Study
Nancy Dower	Open-label safety and tolerability study of dabigatran etexilate given for 3 days at the
,	end of standard anticoagulant therapy in children aged 12 years to less than 18 years
	Open-label safety and tolerability of dabigatran etexilate mesilate given for 3 days at
	the end of standard anticoagulant therapy in successive groups of children aged 2 years
	to less than 12 years, and 1 year to less than 2 years

Investigator	Project Name
Piush Mandhane	The Canadian Healthy Infant Longitudinal Development (CHILD) study
Rabin Persad	Evaluation of the safe use and tolerance of 09532RF in a pediatric population
	Prevalence of gastroesophageal reflux symptoms in pediatric and adult patients with
	cystic fibrosis at Stollery Children's Hospital
Richard Fedorak	A randomized, double-blind, active comparator-controlled study to assess the efficacy
	and the safety of orally administered Pearlium®/EffectiCal® in postmenopausal women
Richard Tang-Wai	A Multicenter, Randomized, Controlled, Open-label Study to Evaluate the Cognitive
	Development Effects and Safety, and Pharmacokinetics of Adjunctive Rufinamide
	Treatment in Pediatric Subjects 1 to less than 4 years of age with Inadequately
	Controlled Lennox-Gastaut Syndrome
Robert Couch	Ancillary Study to the Canadian STOPP Research Program: The Genetic Susceptibility to
	Steroid Induced Osteoporosis in the Pediatric Population
	TrialNet: Oral Insulin for Prevention of Diabetes in Relatives at Risk for Type 1 Diabetes
	Steroid-Induced osteoporosis in the pediatric population - Canadian Incidence study
	(STOPP-CIS)
	Natural History Study of the Development of Type 1 Diabetes
	A multicenter, randomized, double-blind, placebo controlled efficacy and safety trial of
	intravenous zolendronic acid twice yearly compared to placebo in osteoporotic children
	treated with glucocorticoids for chronic inflammatory conditions
Rose Girgis	A Canadian, multi-centre, observational registry to study adherence and long term
	outcomes of therapy in pediatric subjects using SAIZEN via easypod auto-injector for
	growth hormone treatment
	TRIGR: trial to reduce IDDM in the Genetically at risk
Shairaz Baksh	The role of RASSF1A in Inflammatory Bowel Disease
Stu Carr	An Open-label safety and Efficacy Study of Reslizumab (CTx55700) for the Treatment of
	Pediatric Subjectswith Eosinophilic Esophagitis who Completed Study Res 5 0002
	"Canada Specific" Protocol
	Safety of Seasonal Influenza Vaccination in Egg-Allergic Patients
	An Efficacy and Safety Study of Reslizumab (CTx55700) in the Treatment of Eosinophilic
	Esophagitis in Subjects Aged 12 to 18 Years
Sunita Vohra	Rhodiola rosea for mental and physical fatigue in nurses on shift work
	Faces, 2 & 3: Is integrating CAM therapies with conventional care cost-effective in
	reducing pain, nausea/vomiting, and/or anxiety in pediatric inpatients? (multi-stage
	project)
Susan Gilmour	Functional Outcomes of Pediatric Liver Transplantation (Quality of Life)
	Development and Validation of a Disease-Specific Health-Related Quality of Life
	Questionnaire for Children After Liver Transplantation
	Studies in Pediatric Liver Transplantation (Pediatric Liver Transplant Database)
Thierry Lacaze	Impact of hospital Readmission on breast feeding and maternal well being: part of a
	bigger grant " Clinical Outcomes and Health Care Utilization of Near term and Term
	Infants Born in Alberta
	Transcutaneous Bilirubinometers in the Community and the Reduction of Morbidity
	Associated with Jaundice: A clustered randomized controlled trial
	A prospective Regional Matched cohort Study of Child Outcome After Trauma During Pregnancy
	The impact on total duration of respiratory support of CPAP vs. mechanical ventilation
	in infants born 28 to 32 weeks gestation with Respiratory Distress Syndrome: A multi-
	centre randomized trial
	Effects of intentional delivery after preterm and prelabour rupture of membranes
	(PPROM) between 32 and 36 weeks of gestation
	-

Investigator	Project Name
Verna Yiu	International Network and Registry for Thrombotic Microangiopathy (TMA): Storage of
	Samples in Biorepository for Future Research
Wendy Vaudry	Pharmacokinetics and safety of valganciclovir in pediatric heart transplant recipients < 4
	months of age

Investigator	Project Name
Academic Members	
Amanda Newton	Pediatric Mental Illness and Addiction
	Chart Review of Clinical Practice in the Emergency Department
	Indicators of Pediatric Emergency Mental Health Service Utilization
	A Multi-Centre Study (SCH, ACH) for Capacity in Children's Mental Health
	Brief Intervention in the Emergency Department for Enhancing Substance Use Care and
	Outcomes in Youth
	Pathways to Pediatric Mental Health Care: A Distance Support Program for Parents Following Pediatric Emergency
Amanda Newton	Examining Trends in Clinical Severity in Pediatric Mental Health Presentation to the
and Andrea Yu	Emergency Department
(summer student)	
Andrew Mackie	RCT of Transition Program for Youth with Heart Disease
	Ready or Not: Optimizing the Transition to Adult Care for Youth with Complex Cardiac Conditions
	Evaluation of Novel Transition Interventions for Youth with Congenital Heart Disease
Carla Angelski	A 4 Week Longitudinal Simulation Curriculum in the Pediatric Emergency Department
Carmen Rasmussen	Neurobehavioural Outcomes of Children with Fetal Alcohol Spectrum Disorder
Claire LeBlanc	Healthy Buddies WECA Community Project
Daina Thomas	Opioid Regulation, Parental Bereavement and Associated Risks
(Mentor: D. Davies)	
Dawn Davies	Outcomes of Pediatric Hanging Injuries Requiring CPR
	Prolonged Hospitalization of Infants and Children
Edythe Tham	Cardiac MRI in the Evaluation and Management of Children with Hypertropic Cardiomyopathy
Edythe Tham (Gloria	Novel Imaging Techniques to Determine the Late Effects of Anthracycline Toxicity on
Perez)	Myocardial Function in Cancer Survivors
Geoff Ball	The HIP Study
	Exploring Differences in Dietary Assessment Techniques in Overweight Children and
	Adolescents
Geoff Ball, Donna	Polycystic Ovary Syndrome (PCOS) in Overweight Adolescent Girls
Vine	
Gragasin Ferante	Propofol increases vascular relaxtion in aging rats chronically treated with ACE inhibitor
(Sandy Davidge)	Captropil
Ian Adatia	The Role of Vasoactive Mediators and Angiogenic Regulators in the Development of
	Pulmonary Arteriovenous Malformations
	Instantaneous and Non-invasive Measurement of Pulmonary Artery Pressure Through
	Acoustic Analysis
	Randomised Controlled Trial to Investigate the Effect of Parental Presence at Intensive
	Care Unit to Ward Transfer Bedside Rounds on Children's Safety and Parental Anxiety
Ioana Bratu	Pediatric Trauma and Awareness Amongst Medical Students
Jane Schulz	A Review of Midurethral Sling Procedures Done With and Without Prolapse Surgery
	A Retrospective Review of Patients Seen in a Multidisciplinary Pelvic Floor Clinic
	The Prevalence of Anal Incontinence Following Obstetrical and Sphincter Injury
	A Study of the Prevalence of Incontinence and Pelvic Floor Symptoms in Breast Cancer Patients
	The Prevalence of Bowel Symptoms in a Tertiary Care Urogynecology Population

Investigator	Project Name
Jane Schulz	Standards and Practice Patterns of Urogynecologic Surgeries
	Pelvic Floor Disorders and Sexual Dysfunction in Obese Women Undergoing Bariatric
	Surgery: Impact on Quality of Life
	Vaginal Pessary Erosions in Women with Pelvic Organ Prolapse: Prevalence, Risk Factors
	and Management
	Prevalence of Bacteriuria and Urinary Tract Infections in the Urogynecology Population in
	a Tertiary Care Centre
Jason Dyck	CD36 Expression Contributes to Age-induced Cardiomyopathy in Mice
Jaynie Yang	Intensive Motor Training After Perinatal Stroke to Enhance Walking
	Multi-centre Trial-Intensive Motor Training After Perinatal Stroke to Enhance Walking
Jia Li	Early Enhanced Energy and Protein Supply and Glucose Control with Insulin in Neonates
	after Cardiac Surgery
Joanna MacLean	Sleep, Breathing and Heart Health
Kyla Hildebrand, Tim	Outcomes: Oral Food Challenges in Outpatient Setting
Vander Leek	
Lawrence Richer	Ketorolac Pediatric migrain study (Randomization schedule)
Leonora Hendson	New Breath: Cardio-respiratory Function, School Age Abilities and Quality of Life in
	Extremely Low Birth Weight Infants
Lindsay Ryerson	Prophylactic Periotoneal Dialysis Decreases Time to Achieve a Negative Fluid Balance
, , , , , , , , , , , , , , , , , , , ,	After the Norwood Procedure
Lisa Hornberger	Anatomical and Functional Predictors of Fetal Lung Hypoplasia
	Fetal Cardiovascular Programming in Maternal Diabetes: Role of Fetal Hypoxia
Lola Baydala	Life Skills Training (LSTc) Substance Abuse Prevention
	Evaluating Success: Mother Earth's Children's Charter School
	Evaluation of Maskwacis Life Skills Training program
Lori West	ABO-Incompatible Cardiac Transplantation in Infants and Children
Manisha Witmans	Use of Telehealth for Delivery of Sleep Services
Michael van Manen	The Use and Outcome of Paralysis for Management of Gastroschisis with Silo
Nestor Demianczuk	Impact of Amniotic Fluid Volume on Outcome in Patients
Paul Grundy	Traumatic Lumbar Puncture in Acute Lymphoblastic Leukemia Patients
Peter Metcalfe	The Association between Bedwetting and Sleep Apnea in Children
Rabin Persad	Bones & Crohn's: Bone Density in Children with Inflammatory Bowel
Rhonda Bell	Sugar Mommies: The Effects of Dietary Fructose on Pregnancy and Infant Outcomes
Richard Lehner	Triacylglycerol Metabolism
Samina Ali	Internet Use for Obtaining Medical Information by Parents in a NICU
Janima / iii	SNAP Study
	An Assessment of Patient and Caregiver Perceptions of Treatment
	Patient Satisfaction with Pain Management in the Pediatric Emergency Department.
	Pediatric Pain Management in the Emergency Department: The Triage Nurses' Perspective
	The Changing Face of Children's Pain Management: Using Genomics to Inform Safe &
	Effective Prescription
Sarah Curtis	Croup ED Presentations & Management
Januari Cartiff	Pediatric ED Pain Practices
Shairaz Baksh	The Role of Tumor Suppressor Protein, RASSF1A, in the Pathogenesis of Inflammatory
Shanaz Daksii	Bowel Disease (IBD)
Sujata Persad	Molecular and Structural Alterations of the Esophageal Epithelia
Jujutu i Ci Juu	The Role of O-GlcNAc Post-translational Modification of B-catenin in Prostate Cancer
	Progression
	110510000

Investigator	Project Name	
Sunita Vohra	Detecting NHP-drug Interactions and NHP Adverse Events (SONAR)	
	Adverse Events Associated with Spinal Manipulations	
	Safety of Pediatric CAM - A Global Health Imperative	
	Mindfulness Based Stress Reduction: A Non-pharmacological Approach to Support	
	Children and Youth with Depression and Anxiety	
	PIM Inpatient RCT	
	Hospital Specialty SONAR (Study Of Natural health product Adverse Reactions)	
	PAFS Validation Study	
Thierry Lacaze	Transcutaneous Bilirubinometer Randomized Control Trial	
(Amelie Du Pont-	Transcataneous biii abinometer namaomizea control Trial	
Thibodeau)		
Troy Turner	Prehospital Care of Emergency Department Patients with Anaphylaxis	
Winnie Sia	Effectiveness of a Postpartum Nutrition and Lifestyle Counseling Intervention on a	
Willing Sia	Cardiovascular Risk Reduction in the RAH Postpartum Preeclampsia Clinic	
	Cardiovascular Kisk Reduction in the KAH Postpartum Preeclampsia Clinic	
Trainee Members		
Caroline Xu	Microbiology of Pediatric Acute Mastoiditis in Alberta: A Comparison of Causative	
	Organisms in Aboriginal and Non-Aboriginal Children	
Dawn Danielson	Assessing the Knowledge, Understanding and Comfort Level of Primary Care Providers as	
	Relates to the Newborn Metabolic Screening in Alberta	
Desiree Machado	Morbidity and Mortality of Infants Requiring Heart Transplantation in Western Canada:	
	Waiting for an Answer	
Emmi Driedger	What Are Kids Getting Into These Days? Trending Substance Use Presenting to the Stollery	
0-	Children's Emergency Department	
	Fetal Cardiovascular Programming in Maternal Diabetes: Role of Fetal Hypoxia	
Gary Galante	Pericardial Effusion following Open Heart Surgery in Children: Incidence, Risk Factors, and	
can, canante	Outcomes	
Graeme Brassard,	The Effectiveness of the SOS Bakri Balloon in Controlling Post Partum Hemorrhage	
(Thomas Corbett)	Unresponsive to Medical Therapy in a Community Hospital in Edmonton, Alberta	
Joseph MacLellan	Experience and Attitudes of Pediatric Emergency Physicians toward Analgesic use in	
Joseph MacLellan	Patients with Infectious Throat or Mouth Pain	
lung Loo		
Jung Lee	High Fidelity Simulation in Pediatric Emergency Medicine: A Survey of Facilitator Comfort and Practice	
Jutta Van Der Boom	Cardiac Function in Premature Infants Measured by Tissue Doppler Echocardiography	
Katharine Kellock	A Tertiary Care Experience in the Diagnosis of Biliary Atresia and a Systematic Review of Risk Factors and Outcomes.	
Katherine Peters	The Newborn Individualized Development Care and Assessment Program (NIDCAP)	
Katherine Peters	· · · · · · · · · · · · · · · · · · ·	
Katharina Dahlman	Improves Short and Long-Term Outcomes for Very Low Birth Weight Infants	
Katherine Pohlman	Active vs. passive surveillence (M.Sc. Thesis Methodology)	
Kiran Talwar	A Retrospective Review of Health Issues in Internationally Adopted Children Upon	
	Assessment in Canada	
Liliane Zorzela	Urinary Tract Infection at PICU. A New Target for Quality	
Mark Belletrutti	A Survey of Physician Attitudes Regarding Withdrawal of Nutrition	
	Use of Telehealth for Delivery of Sleep Services	
Mary Bauman	Retrospective Chart Audit of Children Receiving Antithrombin Concentrate	
Nasir Fareeha	Awareness Of and Adherence to Clinical Practice Guidelines	
Natalie Forbes	Educating Minor Hockey Coaches on Concussion	
Paul Enarson	Early Clinical Markers of Septic Shock in the Pediatric Emergency Department	
Rebeka Stevenson	Utility of Serial N-terminal pro Brain Natrituretic Peptide (NT-proBNP) Levels in Pediatric	
	Heart Failure	

Investigator	Project Name		
Ruth Vilayil	Technicity Rate for Edmonton: A Restrospective Chart Review of Method of Hysterectomy		
	at the Royal Alexandra Hospital, comparing 2000-2001 and 2010-2011.		
Santokh Dhillon	To Compare the Echocardiographic Parameters with Cardiac MRI Parameters to Evaluate		
	the Size of Each Cardiac Ventricle in Patients with Borderline Unbalanced Ventricles		
Wael El-Matary	Laparoscopic-assisted Percutaneous Endoscopic Gastrostomy vs a Traditional		
	Percutaneous Endoscopic Gastrostomy in Children: A Randomized Controlled Trial		
	Transition of Children with Inflammatory Bowel Disease to Adult Care		
	Prevalence of Celiac Disease in Children with Inflammatory Bowel Disease (IBD)		

Investigator	Project Name
David Olson	Comparison of the leukoctye activation markers on the infiltrating leukocytes in the choriodecidua, the fetal membranes, and the placental and peripheral blood during term
David W. Kinnih	and preterm human labor
David W. Kinniburg & Po-Yin Cheung	Biomonitoring of Environmental Contaminants in the Serum of Pregnant Women and Children living in Alberta
Edmond Ryan	
	MiTY Study (Metformin in Women with Type 2 Diabetes in Pregnancy Trial)
Edythe Tham	Prenatally diagnosed Tetralogy of Fallot: fetal echocardiographic predictors of optimal outcome
Gina Higginbottom	Aboriginal and Immigrant Women's food choices and practice
	Optimizing food choices and practices in the perinatal period for immigrant women
Jane Schultz	PROcedure-specific MOdular Training and Evaluation for surgical gynecology: The PROMOTE Trial
	A 14 week randomized parallel group placebo-controlled double-blind multicentre study of fesoterod overactive bladder patients with sub-optimal response to tolterodine 4mgt er
	Prevalence of bacteriuria and urinary tract infections in the urogynecology population in a tertiary care centre
	Surgical Management of Stress Incontinence in Women: A Randomized Trial of TVT Secur vs TVT
Lisa Hornberger	Fetal Predictors of Clinical Presentation and Outcome in Tetralogy of Fallot with Absent Pulmonary Valve
	Digital three dimensional reconstruction of the early fetal heart
	Functional Neonatal Echocardiography Program Evaluation and Tool Validation
	Impact of Fetal Heart Disease on Fetal Cerebral and Placenta Blood Flow
	Impact of Perinatal Transition on Cardiovascular Function in the Health Neonate and in Critical Neonatal Heart Disease
	Influence of Preterm Delivery and Broncopulmonary Dysplais on Normal Maturational Changes in Myocardial Function: Immediate and Short-term differences measured by tissue doppler Echocardiography
	Utility of novel echocardiographic techniques for assessment of fetal cardiac function in congenital heart disease
Nan Schuurmans	Botilinum toxin A and bupivicaine trigger point injections as treatments for chronic pelvic pain: a prospective pilot study on patient outcomes
	Chronic Pelvic Pain Study Botulinum toxin A trigger point injections as a treatment for chronic pelvic pain: a prospective cohort study
Nestor Demianczuk	CHIPS - Child Study
	CHIPS - Control of Hypertension in Pregnancy
	CPN – BILBO-birth under 29 weeks: improving outcomes for mothers & babies
	Perinatal Morbidity Study
	Prevention of Severe Maternal Morbidity
Radha Chari	The Predictive Value of the Second Trimester Maternal Serum Screen for Pregnancy
	Outcome in the High Risk Pregnancy - MSS
Rhonda Bell	Sugar Mommies: Exploring the Effects of Sugar in Pregnancy

Investigator	Project Name
Rshmi Khurana	PROSPER Trial (Postpartum PrOphylaxiS for PE Randomized Control Trial) Pilot: A Pilot study assessing feasibility of a randomized, placebo-controlled trial of low-molecular-weight-heparin for postpartum prophylaxis in women at risk of developing venous thromboembolism TIPPS - Thrombophilia in Pregnancy Prophylaxis Study
Sandy Davidge	Endothelial dysfunction in preeclampsia Uterine Growth Restriction (The balance between Placenta Cell Death and Tissue Remodeling in Intrauterine Growth Restriction)
Tarek Motan	Predictors of IVF Outcomes Retrospective Chart Review of the Effect: of Luteal Progesterone in women undergoing superovulation with gonadotropins
Peggy Sagle	Evaluations of Clinical Outcome and costs of a transferrable interdisciplinary lifestyle intervention, pre- and per- pregnancy, in obese infertile women
Venu Jain	Accuracy of Pulmonary Artery Diameter and Pulmonary Blood flow Parameters without & with Maternal Hyperoxia Challenge in the Prenatal Prediction of Severity of Fetal Lung Hypoplasia
	Does the use of fetal scalp electrode increase the risk of early-onset neonatal sepsis in term pregnancies?
	The Evolving Role of First Trimester Fetal Echocardiography The Role of Fetal Hypoxia in Fetal Myocardial Changes and Long-term Cardiovascular Programming
Denise Hemmings	Cytomegalovirus, inflammation and sphingosine 1- phosphate in preeclampsia
Bernard Thebaud	Identification and isolation of endothelial cells from placentas and umbilical cord blood of premature and term infants
Peter Mitchell	Intrauterine hormones and the initiation of labour

Appendix T – Lipid Analysis Core Users

Investigator	Project Name or Focus	
Karen Madsen	Mechanisms by which intestinal bacteria affect development of inflammatory bowel diseases	
Dennis Vance	The role of phosphatidylcholine in liver failure, bone development, atherosclerosis, obesity, and diabetes	
Richard Lehner	The roles of triglyceride and cholesterol metabolism in obesity, insulin resistance, diabetes, cardiovascular disease, and fatty liver diseases	
Jean Vance	Phospholipid and cholesterol metabolism in Alzheimer's and Niemann-Pick Disease	
Jason Dyck	Cardiac and intrauterine energy metabolism in cardiovascular disease, obesity, and diabetes	
Sandra Davidge	Maternal stress and lipid levels in offspring	
Dawei Zhang	Cholesterol transport and vascular disease	
Rene Jacobs	The role of micronutrients in development of obesity and insulin resistance, and the importance of phospholipid metabolism in lipoprotein secretion and	
	cardiovascular disease	
Arya Sharma	Obesity / Lipid metabolism after bariatric surgery	
Andrea Haqq	Roles of ghrelin and lipids in Prader-Willi Syndrome (childhood obesity)	
Denise Hemmings	Cytomegalovirus and cardiovascular disease	
Roger Leng	p53 and regulation of tumour cell growth	
Marek Michalak	Lipid metabolism in calnexin deficiency	

Currently being used	Agilent 1100 HPLC with:	 quaternary pump temperature-controlled autosampler and column compartment Alltech ELSD 2000 evaporative light- scattering detector UV/visible detector Thermo Scientific Corona Ultra RS charged-aerosol detector (new for 2013)
55	Agilent 1200 HPLC with:	 quaternary pump temperature-controlled autosampler and column compartment multi-wavelength detector HPLC- and FPLC-ready
	Agilent 6890 GC with:	 flame-ionization detector autosampler
New for 2013	Thermo Scientific Q- Exactive LC-MS/MS mass spectrometer with:	 Orbitrap technology ultra-high 140,000 resolution shotgun, nano-HPLC, or UPLC capabilities

Appendix V – Genotyping Services Users

Investigator	Project or Research Focus
David Brindley	Control of cell signaling and hepatic metabolism by lipins
Ing Swie Goping	Deciphering the pro-growth roll of the bad gene in breast cancer
John Greer	Neuroscience - neuromuscular control of respiration
Lori West	Cardiac Transplantation research
Rachel Wevrick	Genes and development, obesity, psychiatric disorders; mouse models for Prader-Willi syndrome; molecular basis of human genetic disorders.
Denise Hemmings	Regulation of vascular tone in pregnancy Human cytomegalovirus (HCMV) in cardiovascular disease such as preeclampsia
Bernard Thebaud	Normal and impaired lung development and normal and impaired adaptation of the pulmonary circulation at birth
Shairaz Baksh	Molecular understanding of both cancer initiation and progression
Philip Baker / Sandra Davidge	Umbilical artery blood flow in fetuses
Todd Alexander	Defective proteins may hold the answer to hypertension and osteoporosis; how the kidneys regulate sodium & calcium

Appendix W – Community-Based Research, Qualitative Research and Knowledge Translation Core Users

Investigator	Study	Area
Deryk Beal	Genetic contribution to developmental stuttering	Knowledge
		Translation
Jane Springett	The long term impact of quality Participatory Action Research (PAR) on	Knowledge
	population health: strengthening the evidence base to inform integrated knowledge translation	Translation
Yoshi Iwasaki	Building on youth engagement PAR to conduct youth-oriented knowledge	Knowledge
	translation project	Translation
Rebecca Gokiert	Multicultural early child development in Alberta	Knowledge
		Translation
Vijaya Krishnan	Early child development outcomes and community contexts: the interplay of	Knowledge
	behavioral and societal influences	Translation
Claire Leblanc	Healthy Buddies WECA Project	CBR
	Alberta Coalition for Healthy School Communities	Qualitative
Dawn Davies	Long Hospitalizations of Infants: Parents Perspective	Qualitative
Jaynie Yang	Motor training after perinatal stroke to enhance walking	Knowledge
		Translation
Jerome Yager	Willingness of expectant mothers to consume broccoli sprouts	Qualitative
Kathryn Dong /	Establishment of an Institute for Inner City Health Research at the RAH	CBR
Ryan Cooper		
Maria Mayan	Community Practice as a Knowledge Exchange Tool	CBR
	CBR Science Shop	CBR
	Bureaucrazy: Navigating Health and Social Services in Alberta	CBR
Piush Mandhane	Sleep-E Child Project	CBR
Rhonda Bell	Sweet Moms: Maternal intake of fructose during pregnancy and implications for mother & child	Qualitative
Rhonda Bell /	Improving Student Self-Efficacy in Research in Human Nutrition Through	Qualitative
Catherine Field	Collaboration	
Rhonda Bell and	Promoting healthy maternal body weights in pregnancy and postpartum	Qualitative and
colleagues		Knowledge
		Translation
Sherry Ann	Training for residents (workshops)	CBR
Chapman	Integrated Community Clerkship Program (workshops)	CBR
Stephanie Kowal	Risk communication and vaccination uptake by recent immigrant mothers	Qualitative