## What are the Experiences of Rehabilitation Interventions such as Motivational Interviewing or Therapeutic Alliance?

#### Doug Gross, PhD, PT



Pursuing your best

Department of Physical Therapy

# Olivia

#### Pills and imaging

Rest and avoid activity

Stop yoga and power walks

Fear and uncertainty about work

PT/Chiro – passive care and 'warnings'

THE BODY

# Forget Pills and Surgery for Back Pain

Many physicians are advocating a simpler approach to treating lower back pain: exercise

By Daisy Yuhas on October 1, 2017

# SCIENTIFIC AMERICAN



#### **Biopsychosocial** rehab reduces work disability





#### Body – Standardized evidence-based models of care and rehab reduce work disability

- Timely assessment and reassurance
- Acute stage pain coping strategies to promote staying active
- 'Goldilocks' functional restoration
- Integrated workplace interventions

SPINE Volume 32, Number 25, pp 2898–2904 ©2007, Lippincott Williams & Wilkins, Inc.

The Influence of a Continuum of Care Model on the Rehabilitation of Compensation Claimants With Soft Tissue Disorders BMJ

#### Multidisciplinary biopsychosocial rehabilitation for chronic low back pain: Cochrane systematic review and meta-analysis

OPEN ACCESS

Steven J Kamper senior research fellow<sup>1,2</sup>, A T Apeldoorn research fellow<sup>2</sup>, A Chiarotto research assistant<sup>2</sup>, R J E M Smeets professor of rehabilitation medicine<sup>3</sup>, R W J G Ostelo professor of evidence-based physiotherapy<sup>2,4</sup>, J Guzman clinical assistant professor of medicine<sup>5</sup>, M W van Tulder professor of health technology assessment<sup>4</sup>

- Increased odds of RTW compared with patients receiving physical treatment
- Patients gain small, long term benefits in pain and disability compared with usual care or physical treatments

How do we optimize rehabilitation's effectiveness?

#### Mind – Integrate 'Psych-Informed' Strategies

- Client-centered counseling approach for resolving ambivalence (conflicting opinions)
- Goal is to increase intrinsic motivation to change from *within* instead of being forced from *without*
- More sustainable RTW up to 1 year later

Motivational Interviewing administered by OTs and Kins

1-2 sessions of MI (~1 hour)

ELSEVIER

Archives of Physical Medicine and Rehabilitation Available online 21 June 2017 In Press, Accepted Manuscript

Motivational Interviewing Improves Sustainable Return to Work in Injured Workers After Rehabilitation: A Cluster Randomized Controlled Trial

# **Confirmed RTW at Discharge**

	MI	Control
Unemployed	21.6%	9.5%
MI-Adherent	33.3%	
MI with RTW goal	47.4%	

Odds ratio = **2.64** (95% CI 1.09 – 6.41, p<0.05)

Employed97.1%94.1%*MI-Adherent***100%** 

#### **Compensation Outcomes 1 yr Later** Control Μ Employed Any benefit recurrence 4.5% 9.1% Unemployed **Days receiving Partial Benefits** 8.2 0.2 (i.e. return to modified duties)

Statistically significant difference (p<0.05) between groups.

# Social - Context of care can be as important as the treatment itself





#### Enhanced Therapeutic Alliance

Attentive listening Bond Connections



Enhanced Therapeutic Alliance Modulates Pain Intensity and Muscle Pain Sensitivity in Patients With Chronic Low Back Pain: An Experimental Controlled Study

Jorge Fuentes, Susan Armijo-Olivo, Martha Funabashi, Maxi Miciak, Bruce Dick, Sharon Warren, Saifee Rashiq, David J. Magee and Douglas P. Gross *PHYS THER*. 2014; 94:477-489. Originally published online December 5, 2013 doi: 10.2522/ptj.20130118



## **Limited Therapeutic Alliance**



#### **Enhanced Therapeutic Alliance**

## **Changes in Pain Intensity**



#### Changes in Muscle Pain Sensitivity (PPT)



Research Paper

#### PAIN

#### OPEN

#### **Open-label placebo treatment in chronic low back** pain: a randomized controlled trial

Cláudia Carvalho<sup>a,\*</sup>, Joaquim Machado Caetano<sup>b</sup>, Lidia Cunha<sup>c</sup>, Paula Rebouta<sup>c</sup>, Ted J. Kaptchuk<sup>d</sup>, Irving Kirsch<sup>d</sup>



Figure 2. Outcomes by treatment group at 21-day endpoint. (A) Mean adjusted change scores on the composite pain measure. (B) Mean adjusted change scores on the 24-item Roland–Morris Disability Questionnaire. Error bars represent standard errors of the mean.

# Recommendations for Olivia:

**Biopsychosocial** rehab including:

- Functional restoration/graded activity Emphasize importance of activity despite pain
- Integrated workplace interventions Re-integrate at the nursery school asap

Promising strategies to incorporate:

- Motivational interviewing
- Actively build therapeutic alliance

#### Collaborators

#### Graduate Students

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