

Introduction

Little has been published regarding optimal methods to provide education about the International Classification of Functioning, Disability and Health¹ to Physical Medicine and Rehabilitation residents. Our goal was to increase knowledge of the ICF and encourage residents to use the ICF framework² (Fig. 1) to inform their clinical thinking through a case-based exercise. Based on feedback from residents after prior iterations of this assignment, we also hypothesized that completion of this project would increase residents' feelings of professional fulfillment.

Results

Self-reported understanding of the ICF among first year PM&R residents increased significantly. Pre-test 25% were familiar and 75% unfamiliar. Post-test 37.5% familiar with 62.5% very or extremely familiar. Clinical thinking influenced by the ICF was also increased. Self-reported Professional fulfillment scores were relatively unchanged.

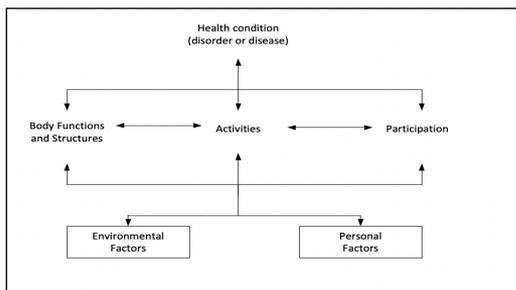


Figure 1

Design

First year PM&R Residents received a one-hour introductory lecture on the ICF. They were then split into groups and assigned a condition or disorder which corresponded to their clinical rotation schedule (SCI, TBI, amputation, medical debility). They were instructed to pick a patient, explore their case via the lens of the ICF, and develop an intervention based on this review. They were then asked to present these cases. We gathered data regarding their familiarity and use of the ICF before and after this assignment. Residents were asked to rate their familiarity with the ICF and how their understanding of the ICF shapes their clinical thinking. Responses were on a 5 point Likert scale. We also used the professional fulfillment portion of the Professional Fulfillment Index³ to measure self-reported professional fulfillment before and after the assignment was completed.

Discussion

Cased-based learning (CBL) allows learners to explore real world clinical situations and apply clinical reasoning and provide an engaging and motivating experience for learners and teachers.⁴ CBL has also been shown to be preferred to traditional didactic sessions.⁵ Here we describe a casebased learning version that focuses not only on the patient's illness and clinical presentation but on their function, personal factors, and environmental factors. In this experience residents utilized the International Classification of Functioning, Disability and Health to guide the experience

Conclusion

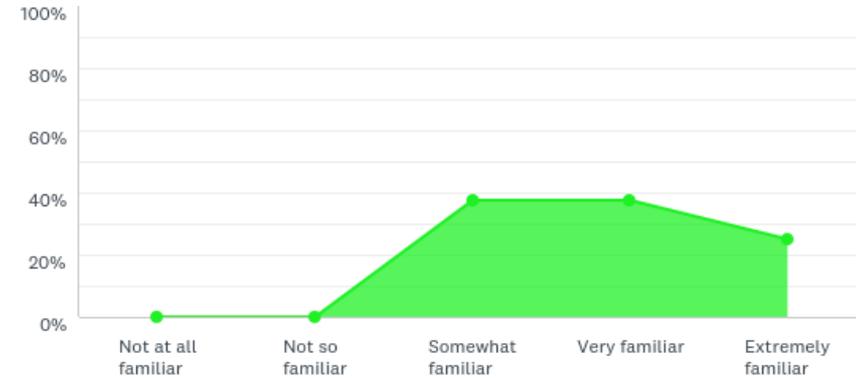
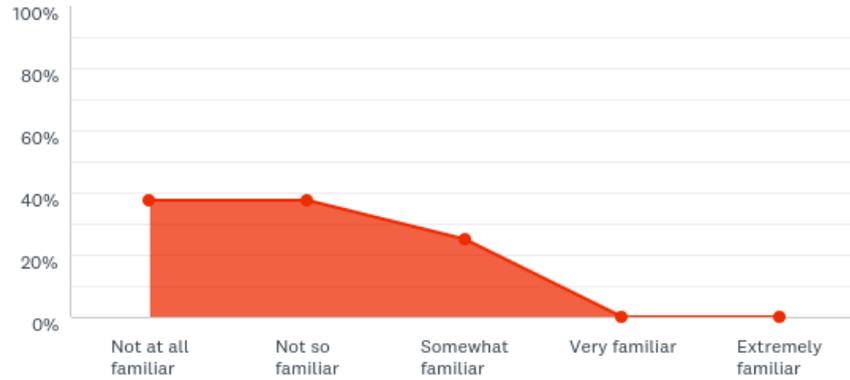
This approach showed that a combination of didactic lecture and a casebased approach is an effective method to increase new PM&R resident knowledge of the ICF. We believe this is a novel approach for ICF education. This activity did not increase self-reported professional fulfillment. Further study is needed to determine if increased knowledge and experience using tools and understanding conceptual frameworks, like the ICF, impacts professional fulfillment. Further study is also necessary to understand what drives professional fulfillment in PM&R trainees.

References

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3. Trockel M, Bohman B, Lesure E, et al. A Brief Instrument to Assess Both Burnout and Professional Fulfillment in Physicians: Reliability and Validity, Including Correlation with Self-Reported Medical Errors, in a Sample of Resident and Practicing Physicians. *Acad Psychiatry* 2018;42(1):11– 24.
4. Thistlethwaite JE, Davies D, Ekeocha S, et al. The effectiveness of case-based learning in health professional education. A BEME systematic review: BEME Guide No. 23. *Med Teach* 2012;34(6):e421–44.
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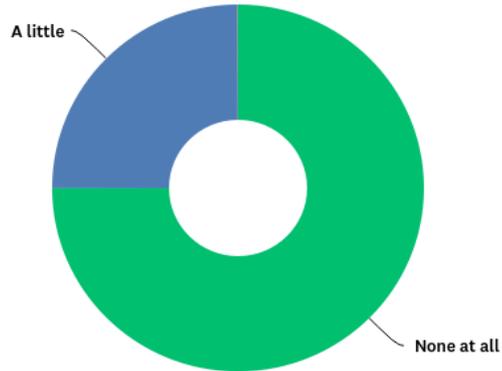
Q1: How would you rate your understanding of the WHO International Classification of Functioning, Disability and Health (ICF)



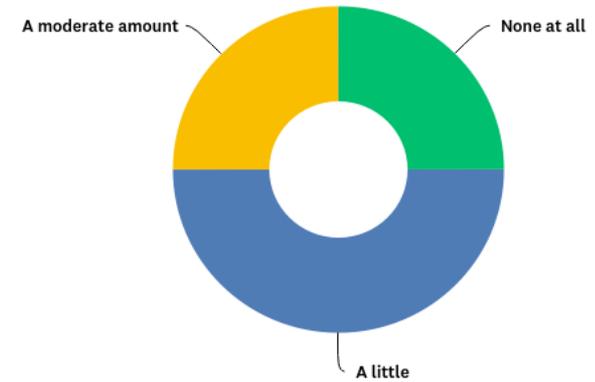
ANSWER CHOICES	RESPONSES	
Not at all familiar	37.50%	3
Not so familiar	37.50%	3
Somewhat familiar	25.00%	2
Very familiar	0.00%	0
Extremely familiar	0.00%	0
TOTAL		8

ANSWER CHOICES	RESPONSES	
Not at all familiar	0.00%	0
Not so familiar	0.00%	0
Somewhat familiar	37.50%	3
Very familiar	37.50%	3
Extremely familiar	25.00%	2
TOTAL		8

Q2: How much does your understanding of the ICF framework shape your clinical thinking?



ANSWER CHOICES	RESPONSES	
None at all	75.00%	6
A little	25.00%	2
A moderate amount	0.00%	0
A lot	0.00%	0
A great deal	0.00%	0
TOTAL		8



ANSWER CHOICES	RESPONSES	
None at all	25.00%	2
A little	50.00%	4
A moderate amount	25.00%	2
A lot	0.00%	0
A great deal	0.00%	0
TOTAL		8