Monitoring the Delivery of Motivational Interviewing:

The UKATT Process Rating Scale (UKATTPRS) and the

Motivational Interviewing Treatment Integrity (MITI) Code

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Overview

- + Methods of rating motivational interviewing
 - More in depth look at the MITI
- + Study: Monitoring the Delivery of Motivational Interviewing with Alcohol Dependent Patients: The UKATT Process Rating Scale (UKATTPRS) and Motivational Interviewing Treatment Integrity (MITI) Code

Monitoring of MI

Why are rating scales required for psychosocial interventions?

- + How is the therapy delivered?
- + Structured psychosocial interventions are likely to deliver better client outcomes than no treatment
 - + Protocols may improve outcomes

+ Up to 10% clients may be harmed by psychosocial interventions (Moos, 2007)

Rating scales

- + Yale Adherence and Competency Scale (YACS), (Corvino, 2000)
- + Motivational Interviewing Skills Code (MISC), (Miller, 2000)

- United Kingdom Alcohol Treatment Trial Process Rating Scale (UKATT-PRS), (UKATT, 2002)
- + Motivational Interviewing Treatment Integrity Code (MITI), (Moyers, 2003)

UKATT-PRS

- + Valid and reliable scale (Tober, 2008) measure adherence, competence and discriminates between
 - Motivational enhancement therapy (MET)
 - + Social and behavioural network therapy (SBNT)

+ 28 Components of therapy are rated for quality and frequency (both on a o-4 scale)

Motivational Interviewing Treatment Integrity Code (MITI)

- More simple and less time consuming method of rating MI (Moyers, 2003)
 - + Reviewing 20 minute segment of video
- + CASAA Centre on Alcoholism, Substance Abuse and Addictions
 - + http://casaa.unm.edu/codinginst.html
- + MITI is available
 - http://casaa.unm.edu/download/MITI3_1.pdf
- + Training resources for the MITI

What does the MITI involve?

Global Scores

- + Evocation
- + Collaboration
- + Autonomy/Support
- + Direction
- + Empathy
- + Global MI Spirit

Behaviour Counts

- + Giving Information
- + Closed Question
- + Open Question
- + Simple Reflection
- + Complex Reflection
- + MI Adherent statement
- + MI Non-adherent statement

What does the MITI involve?

Global Scores

1 2 3 4 5

 Overall score on that dimension (e.g. empathy)

Behaviour Counts

- + Tally of the specific behaviours
- + Scores and then converted to summary scores
 - Percent Complex Reflections
 - Percent Open Questions
 - + Reflection-to-Question Ratio
 - Percent Motivational Interviewing Adherent

Recommended MITI proficiency and competence thresholds

Behaviour Count or Summary Score Threshold	Beginner Proficiency	Competency
Global Clinician Ratings (Empathy, Collaboration, Autonomy, Direction, Empathy & MI Spirit) – scored from 1-5	Average of 3.5	Average of 4
Reflection to Question Ratio (R:Q)	1:1	2:1
Percent Open Questions (%OQ)	50%	70%
Percent Complex Reflections (%CR)	40%	50%
Percent MI-Adherent (%MIA)	90%	100%

MITI Training material

+ Seven transcripts of therapists using motivational interviewing with a client with the aim of changing a specific behaviour.

- + Two versions
 - + Straight text that can be rated and scored
 - + Compared with a second script that has been coded or prescored by the MITI authors as a "gold standard".

MITI training material - coded segment

Bill (therapist): [So this wasn't an accident or problem or anything; this was just a random...] Complex Reflection (added meaning: not a problem, just random)

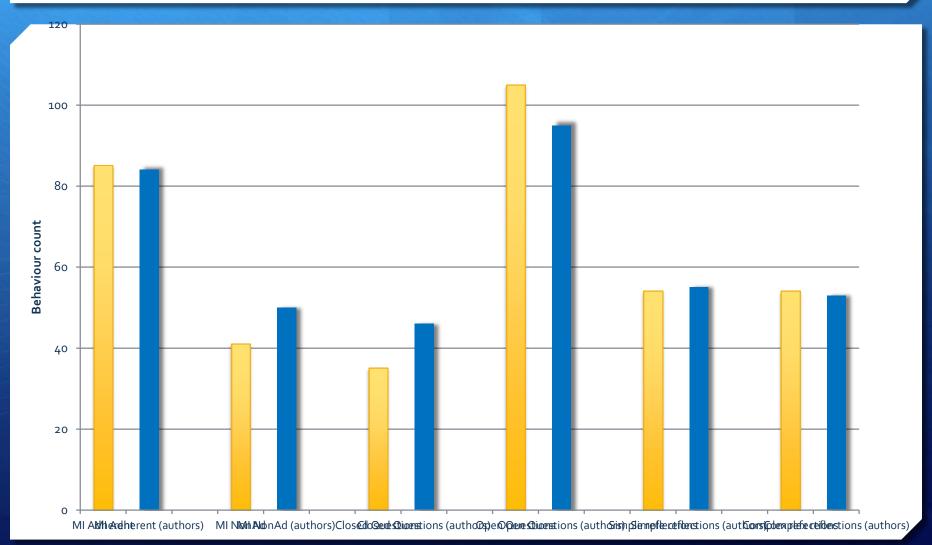
John: It was just one of those...

Bill: event that you got caught up in. (not coded again, because it is a fragment of previous reflection)

John: Out of the clear blue-sky kind of things.

Bill: [Did you know they were doing these, or was this kind of a surprise to you?] **Closed Question**

Display of behaviour counts from training to use the MITI. The rater's score (yellow) is compared with the gold-standard authors score (blue) from seven MI transcripts



Monitoring the Delivery of Motivational Interviewing with Alcohol Dependent Patients: The UKATT Process Rating Scale (UKATTPRS) and Motivational Interviewing Treatment Integrity (MITI) Code

Authors: Roger Lakin, Gillian Tober & Simon Adamson

United Kingdom Alcohol Treatment Trial

(UKATT, 2005a and 2005b)

- Multisite RCT two forms of brief psychotherapy for alcohol dependence
 - + Motivational Enhancement Therapy (MET)
 - Social and Behavioural Network Therapy (SBNT)
- + Substantial reductions in alcohol consumption and dependence in both groups

Method

+ Sample

Sixty video recordings of therapists delivering MET in the UKATT were selected form one of the centres. All had been rated using the UKATT-PRS

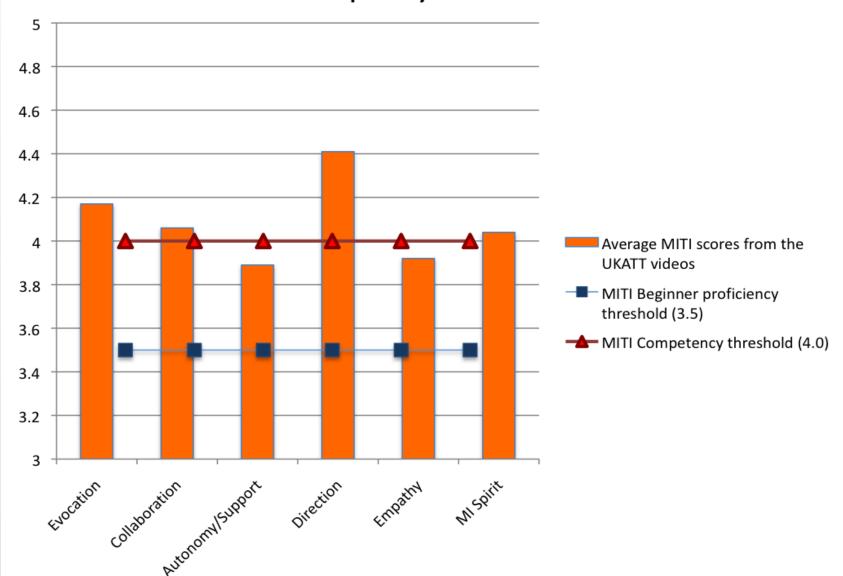
Random 20 minute section was rated by the first author (RL) using the MITI

Inter-rater calibration was done on 10 video recordings by GT and SA

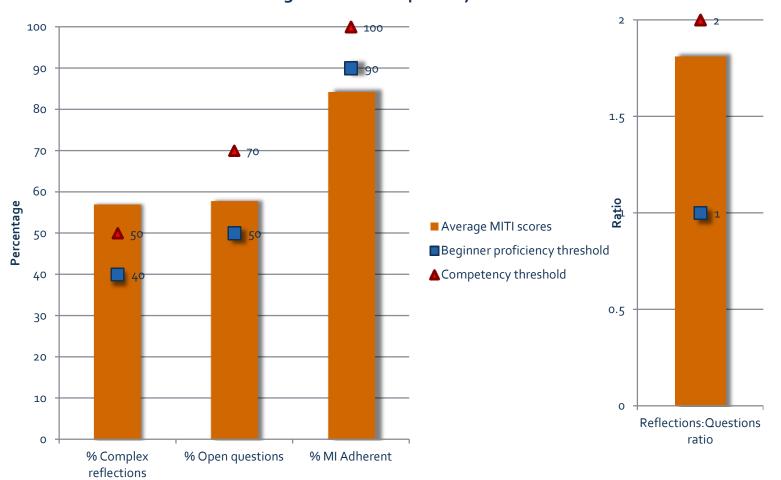
+ Analysis

- + MITI global scores and behaviour counts
- + Concurrent validity
- + Discriminant validity
- Predictive validity

Global MITI scores compared with beginner proficiency and competency thresholds



Average percentage scores for summary scores of behaviour counts with beginner and competency thresholds



Results: Concurrent Validity

PRS scale	MITI scale	Spearman's rho	p value
Empathy (quality score)	Empathy	.322	.015
Consistency of Problem Focus (quality score)	Direction	.344	.007
Reflective Listening(frequency score)	Total reflections	.342	.007
PRS quality mean	Spirit	.217	.116

Results: Discriminant validity

Predictor	Mean rating (SD)	N	t	p-value
	MITI Spirit			
Low working alliance ¹	4.00 (0.60)	22	0.355	0.725
High working alliance	4.07 (0.62)	20		
	PRS _{MET} Spirit			
Low working alliance	2.48 (0.55)	18	2.103	0.043
High working alliance	2.83 (0.41)	18		

Results: Predictive validity

- + Attending MET sessions
 - + Predicted by MITI (p = .007)
 - + Not predicted by UKATT-PRS (p = .527)
- + Neither summary score was able to predict drinking outcome at 3 or 6 months

Results summary

- + Global MITI scores for UKATT therapists rate around the competence threshold set by MITI authors
- + Empathy, Direction and Total number of reflections (but not Global Spirit of MI score) showed concurrent validity
- + UKATT-PRS mean quality score able to predict high or low working alliance (WAI)
- + MITI MI Spirit predicted attendance at all MET sessions

Conclusions....

- + Motivational interviewing, with its emphasis on principles and spirit, as well as specific behaviours, provides a challenge to the measurement of quality
- + The MITI is an easy to use reliable and valid method of rating the quality of delivery of MI
- + MITI rates MI, UKATT-PRS rates MI plus social based treatment
- + The MITI and the UKATT-PRS ratings of UKATT therapists have areas of concurrent and discrimnant validity
- + Studies such as this of different therapist populations provide quality of practice data on which to base MI practice norms. These may then be used as alternative methods to expert opinion in rating MI quality.

Thank you

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References and further information

- + Treasure J. (2004) Motivational Interviewing. Advances in Psychiatric Treatment. Vol 10, 331-337
- + Miller, W. R. & Rollnick, S. (2002) Motivational interviewing, preparing people to change addictive behaviour. New York; The Guilford Press.
- + Tober, G & Raistrick, D. (2007) Motivational Dialogue. Routledge, an imprint of Taylor & Francis Books Ltd.
- + Miller, W. R. (1983) Motivational Interviewing with problem drinkers. *Behavioural Psychotherpy*. 11, p147-172.
- Burke, B., Arkowitz, H. et al. (2003) The efficacy of Motivational Interviewing: A meta-analysis of controlled clinical trials. *Journal of Consulting and Clinical Psychology*. 71, p843-861.
- Cicchetti, D. V. (1994). Guidelines, criteria, and rules of thumb for evaluating normed and standardized assessment instruments in psychology. Psychological Assessment, 6(4), 284-290.
- + Moyers T, Martin T. et al. 2005. Assessing competence in the use of motivational interviewing. *Journal of Substance Abuse Treatment*. 28; p19-26.
- + Moyers T, Martin T, Manuel JK, Miller WR, Ernst D. Revised Global Scales: Motivational Interviewing Treatment Integrity 3.0 (MITI 3.0).
- + Tracey TJ, Kokotovic AM: Factor structure of the Working Alliance Inventory. Psychological Assessment: A Journal of Consulting and Clinical Psychology 1989; 1:207–210
- Tober, G, Clyne W, Finnegan O, Farrin A & Russell I. Validation of a Scale for Rating the Delivery of Psycho-Social Treatments for Alcohol Dependence and Misuse: The UKATT Process Rating Scale (PRS). Alcohol and Alcoholism vol 43 (6) p 675-682
- + UKATT Research Team, (2005). Effectiveness of treatment for alcohol problems: findings of the randomised UK alcohol treatment trial (UKATT). *BMJ* 331: 541