



# Justifying mental health OT practice: Analysis of routine outcome measurement data

### **Background**

The need for Occupational Therapy (OT) to demonstrate the effectiveness of services is now more important than ever. (1,2)



COT PRIORITIES FOR OT

RESEARCH (POTTER) 3

· Effectiveness of OT for

people with MH problems.

· Developing new valid &

reliable OM's for use in

OT'(p15)

The College of Occupational Therapists (COT) are fully aware of the need for OT's in mental health (MH) practice to provide efficacy of services. The COT also acknowledge a need to develop new outcome measures in order for this to be achieved. (3)

This poster presents the findings, to date, of an MSc Advanced Occupational Therapy degree research project 1DoH(2008) High Quality Care For All: NHS Next Stage eview final report, London: The Stationery Office

2DoH (2012) Health & Social Care Act, London:
The Stationery Office an, K. et al (2008) Priorities for OT Research in the UK

xecutive Summary of the POTTER Project, *BJOT*, 71(1), 13-16

Du Toit, V. (2004) Patient volition & action in occupational therany (3rd ed.). Pretoria: Vona & Marie du Toit Foundation y Gid ea.), Frecoria. Volla & Maile du foit Foundation steleijn, J.M.F. (2010) Development of an outcome ure for occupational therapists in mental health care settings, PhD thesis, University of Pretoria: Pretoria.

### Sample

population consiste of 1058 admissions both sites during 2012. 334 (31.6%) c the population had at least 1 completed APOM.

Total (with Baseline & F	inal APOM):	194 (18.3%)	48% male
	Age:	20-78yrs	M = 43yrs
Length o	f Admission:	5 – 344 days	M = 66.5days
F30-39	group): sychotic dis.) O (Mood dis.) eurotic & PD)	94 in-pt's 55 33	M = 75 days M = 58 M = 64
OT Rx's:	Group 1:1	0 – 131 sessions 0 - 54	M = 22 M = 9
Table 2.			

Table 2 shows demographic information for the final research sample (n=194, 18.3% of the population). This convenience sample included 18 different ICD-10 diagnoses, the 3 main ICD-10 groups are discussed.

### Methodology

This quantitative piece of descriptive research provides a retrospective MH OT service during 2012. The study aims to identify and report, via statistical analyses, correlations, associations and trends that arise from

MH Beds per ward:	Site A	Site B
PICU (Intensive Care)	0	7
Admission & Assessment	10	10
Treatment (male)	15	17
Treatment (female)	15	18
Total Beds	40	53

in the East Midlands area (see Table 1).

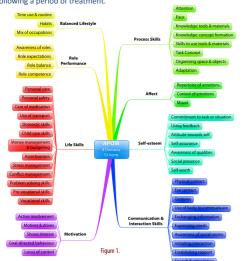
analysis of routine outcome measurement data collected by an inpatient

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The service operates across two Adult Acute In-patient MH NHS Hospitals

### **Creative Ability & The Activity Participation Outcome Measure**

The service implements the Vona du Toit Model of Creative Ability (VdT MoCA)(4) and the Activity Participation Outcome Measure (APOM) (5) as it's chosen OT practise model and associated outcome measure. The APOM (see Figure 1) is an 8 domain, 53 item OT measure based on the levels of Creative Ability as described by Vona du  $\operatorname{Toit}^{(4)}$ . The APOM is administered by an OT following initial assessment and re-administered following a period of treatment

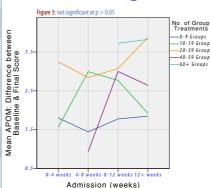


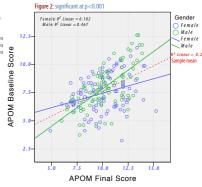
Further information on the VdT MoCA and the validity & reliability of the APOM can be sourced from the following websites:

http://upetd.up.ac.za/thesis/available/etd-02102011-143303/ https://secure.apomtherapist.com/

www.modelofcreativeability.com

## **Research Findings**



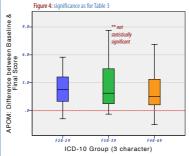


#### 24% 25.2% 25.2% 24.3% 24% 52 2.9% 31.5%

APOM Overall 191 25.1% 26.7% 25% 25.5% 25.1% 24.5% Table 3: 2 tailed all signif

### **Kev Findings**:

- Tests confirmed the data were normally distributed.
- Significant differences between mean scores for Baseline & Final APOM's were established (t (193) = 17.497, p <0.001 (two-tailed), 95% CI 2.1 > 2.7).
- The mean overall difference between Baseline & Final APOM's was 2.41 (3.0 = 1 level of Creative Ability), with outcomes scores ranging from -1.5 to +9.38 after treatment. A large effect size was measured across all 8 domains (d = 1.2617 overall).



- Figure 2 shows the sample distribution by gender (females = n101). Male Baseline APOM scores were higher (m = 7.98) than females (m = 7.47), but females showed the greatest difference between Baseline and Final Ax (m = 2.58, SD = 2.19, males: m = 2.22, SD = 1.55).
- •Figure 3 results are only applicable to the research sample, but show an interesting trend when viewing length of admission by group Rx's received. Those attending 0-9 group Rx's showed least improvement overall. Those attending 20-39 groups showed a strong positive change across all lengths of admission.
- Figure 4 shows how scores are distributed across the 3 key diagnostic groups. F30-39 shows the greatest range but results were not deemed statistically significant. ICD-10 groups F20-29 & F40-69 were significant. Partial correlations in Table 3 showed that total OT Rx's received had the biggest impact on shared variance when compared to any other independent variable being measured. Suggesting OT Rx is responsible for the biggest change in correlations between Baseline & Final APOM's.

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### Summary

This ongoing research study provides statistical evidence that proves most MH in-patients occupational performance, or creative ability, improves over the course of an admission.

This study can not infer causality as there is not control group. What it does do is identify trends and relationships in OT outcome measurement data that recognise, with statistically significant evidence, a difference between patient's outcomes based on the OT intervention they receive Many other variables (such as medication, a safe and supportive environment, structure, reduced stress etc.) arguably have a greater influence on an in-patient's mental health recovery. However, this study, despite being of relatively small scale, provides evidence to suggest the VdT MoCA is an effective OT practise model in an in-patient MH setting and the APOM is a tool that is sensitive to detect this change