

Mindful Tech: RCT Comparing DMH Modalities

2025 APS Festival of Psychology



EM TUGES





SUBJECT: DALE ROWLAND

DCCUPATION: LECTURER/ PSYCHOLOGIST

255572CH INTE255TS:

DMH TRANSLATION

VR INTERVENTIONS

INDIGENOUS PSYCHOLOGY & SEWB

CLINICAL INTERESTS:

ATTACHMENT TRAUMA

EMOTIONAL DISORDERS

PERSONALITY DISORDERS

Virtual Reality











Why VR?





Interactive Novel Enjoyable



Immersive
Engaging
Embodiement



Flexibility
Convenience
Dynamic





Personalisation/ Customisation



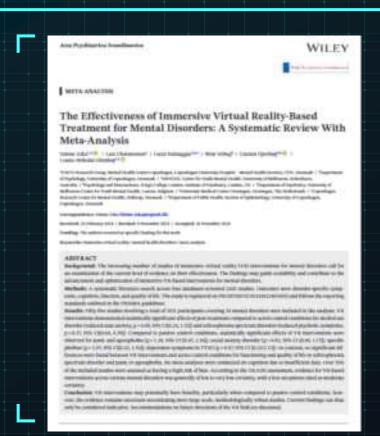
Virtual Reality

- VRI are a promising treatment modality
- Sub-optimal methodological reporting in previous research
- Significant translation issues

Rowland, D. P., Casey, L. M., Ganapathy, A., Cassimatis, M., & Clough, B. A. (2022). A decade in review: A systematic review of virtual reality interventions for emotional disorders.

Evidence-Base



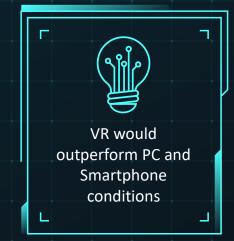




Aims & Predictions

The aim of the current study was to better understand how VR compares to PC and Smartphone DMH modalities via the delivery of a single-session, remote, mindfulness-based VRI to improve wellbeing among university students.











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- University students (N = 171)
- Mostly undergraduate students (97%), studying psychology (54%)
- Aged between 17 69 years old (M = 24.4, SD = 9.10)
- Sample was predominantly female (79%)
- More than half the sample had previously engaged services with a Mental Health Professional before (57%)

STUDY DESIGN

- Mixed factorial design (4x3)
- Participants randomly allocated to VR, PC, and Smartphone (between groups factor)
- Primary outcomes measured at three time points (within groups factor): pre-intervention (T1), post-intervention (T2), and one-month follow-up (T3)

Credibility

CEQ (Devilly & Borkovec, 2000)

Mindfulness

Toronto Mindfulness Scale (Lau et al., 2006)

Affect

Positive and Negative Affect Scales (Watson et al., 1988).

Psychological Distress

Kessler 6 (Kessler et al., 2002).



Mood

Brief Mood Introspection Scale (Mayer & Salovey, 1993)

Acceptance

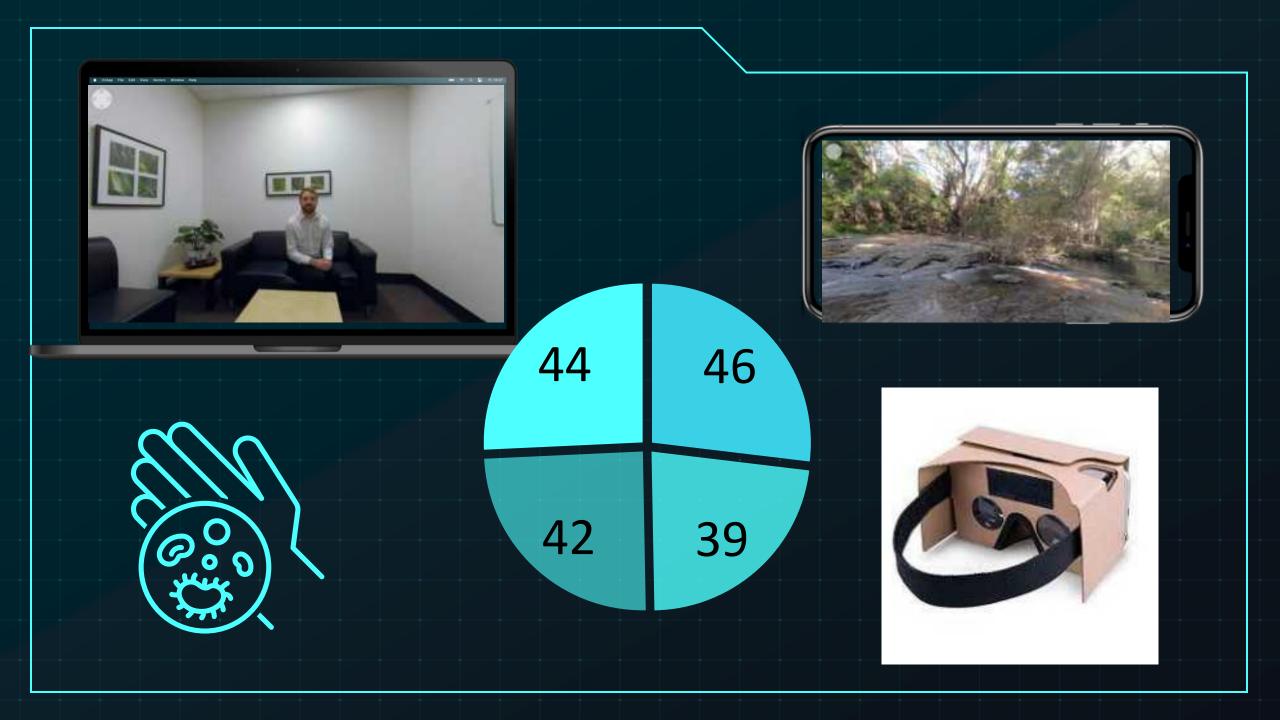
UTAUT-2 (Venkatesh et al., 2012)

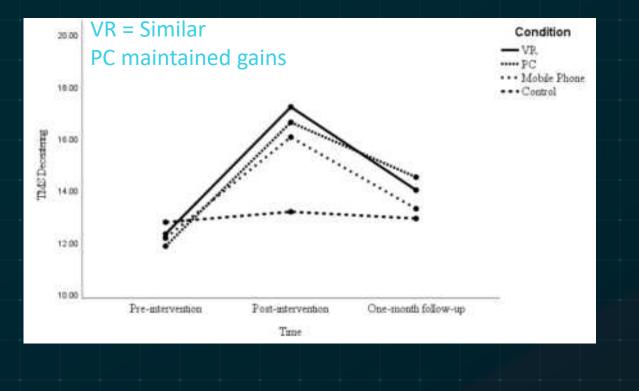
Engagement

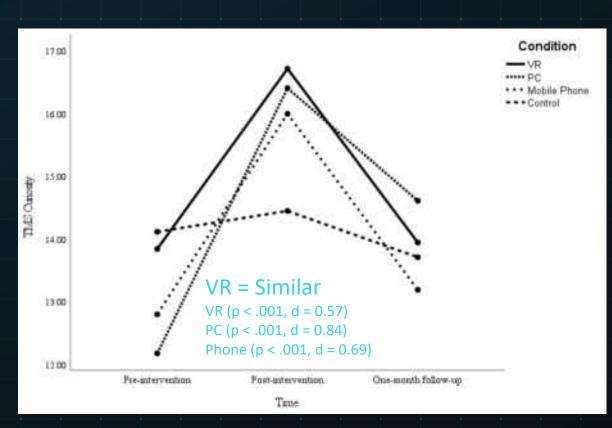
eTAP (Clough et al., 2019)

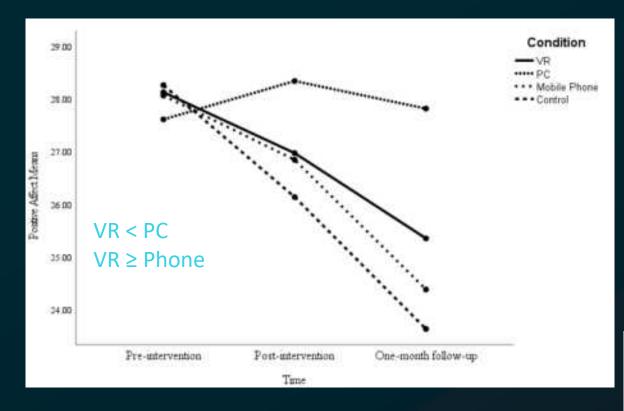
Satisfaction

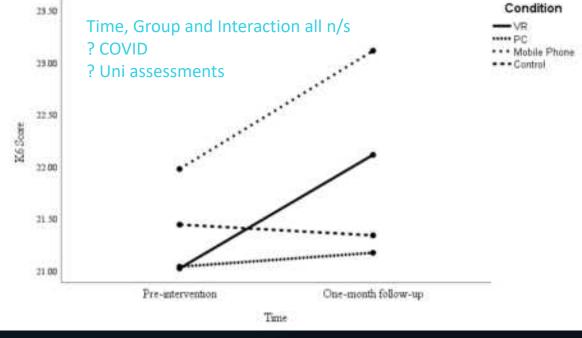
Client Satisfaction Questionnaire (Larsen et al., 1979)

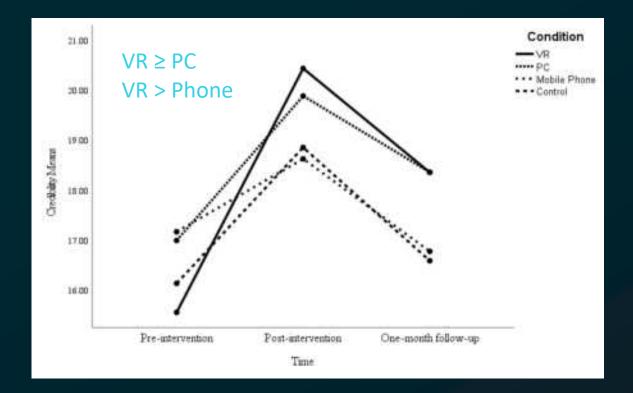


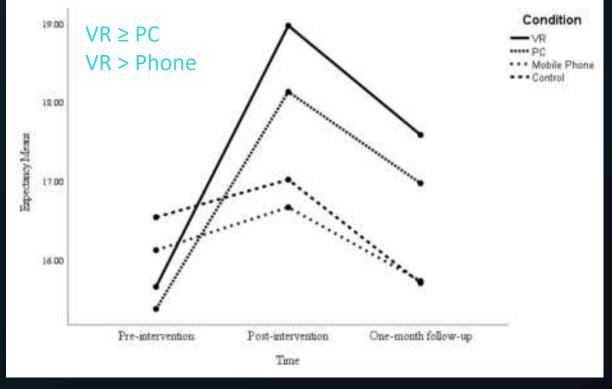


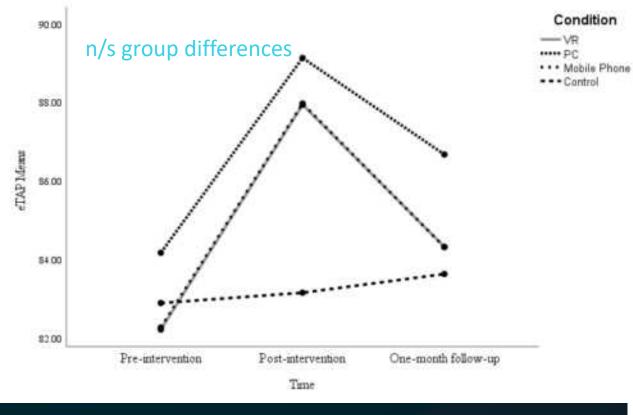






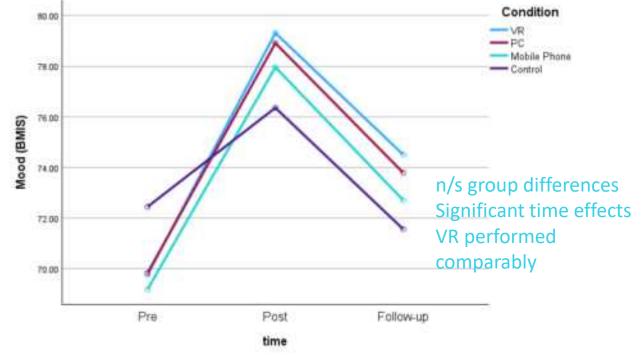


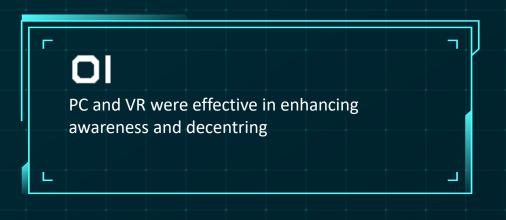


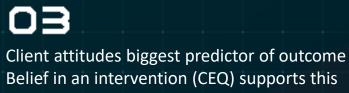


Satisfaction:

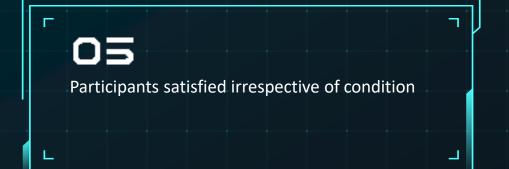
There were no significant differences in treatment satisfaction between conditions (F(3, 163) = .560, p = .642, n2 = .010, 95% CIs = [22.42, 23.73]), with no significant differences observed between groups (ps > .05).

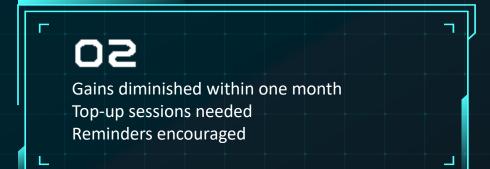




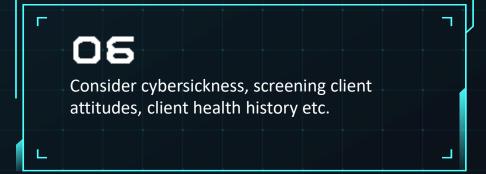


Frame DMH interventions as evidence based and check for quality and professionalism of programs___





VR likely more appealing to younger, tech literate individuals.
Ubiquity of computers likely strikes balance between effectiveness and accessibiliyu



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