







Mechanisms of change in group ACT for psychosis: the ACT for Recovery trial (ACTfR)

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Acknowledgements



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- Service User Co-facilitators
- Workshop Participants
- Study generously funded by: Maudsley Charity



Aims



1. Introduce the ACT for Recovery study

2. Present the main outcome findings of the study

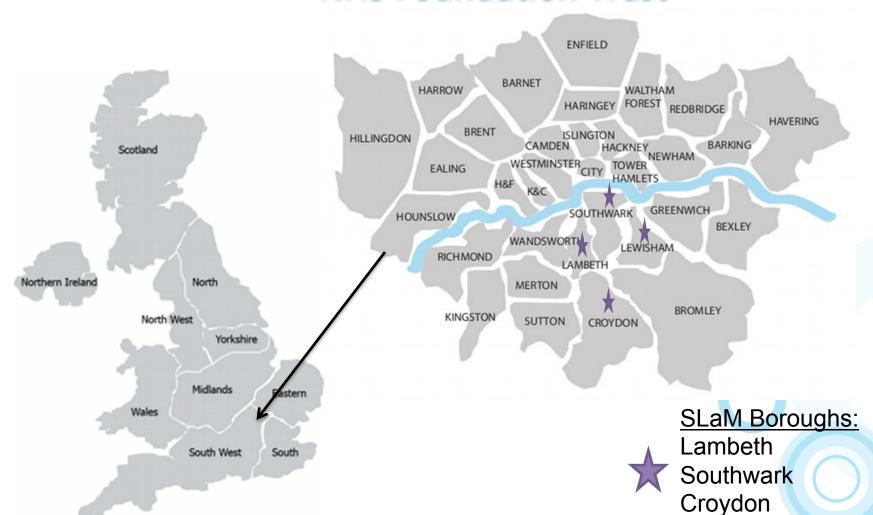
3. Present data on mechanisms of change

South London and Maudsley Miss



Lewisham

NHS Foundation Trust



ACT in South London

- We have been working on brief ACT that would "fit" for the folk in an inner-city, diverse borough (cultural, socioeconomic, ethnic)
- About providing choice and access. Co-led with peer facilitators (ACT for Recovery)
- ACT: seems a good fit for people from minority backgrounds (no implicit values beyond liberation from aversive control and response-ability).



Why ACT in Groups?

- Increasing access (delivery, training)
- Many ACT metaphors are interactive and benefit from more people
- Listening to reactions and responses of others can increase learning
- Making public commitments likely to strengthen action
- Observing others being present and willing can promote these processes in self
- Reduce stigma and increase self compassion

Why ACT for Caregivers?

- Informal caregivers play a key role in service user care and recovery
- Service users with carer support can experience fewer admissions, shorter inpatient stays, and improved quality of life
- Negative impact of the caregiving role on carer physical and mental wellbeing
- 80% of carers report feelings of burden and distress in their role
- 2014 NICE Guidelines for schizophrenia recommends that the needs of carers be addressed by services and that carers should be offer a carer-focused intervention

ACT for Life Project (Johns et al., submitted.)

N= 69 (early or established psychosis)

4 week ACT group; Measures pre, post, 3-month follow-up: within-subject design.

Participants found the intervention acceptable, with high satisfaction ratings

Outcome	Immediate Post -Group		3 months after group	
	Z	p value	Z	p value
Interference with Functioning	-1.75	.08	-2.9	.004
Mood	-2.9	.004	-3.5	.001
Experiential Avoidance	-4.1	<.001	-3.4	.001
Cognitive Fusion	-3.0	.003	-3.1	.002
Mindfulness	4.6	<.001	4.7	<.001

Overall - small effect size; group valued but possibly too brief; need for longer, controlled investigation

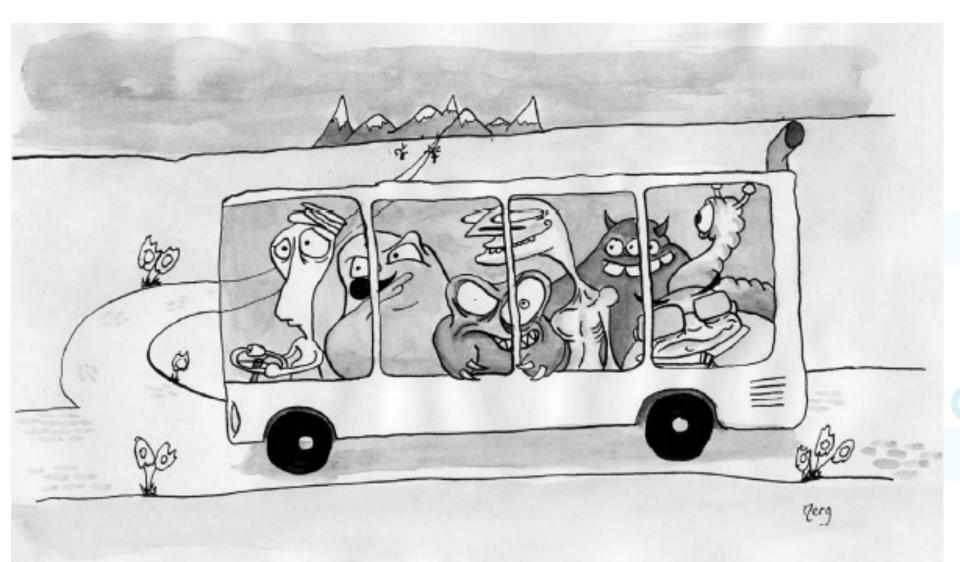
Group ACT for Psychosis

- Evaluation of group based ACT intervention for people with psychosis and their carers
 - Are the interventions acceptable/feasible?
 - Do the interventions promote recovery?
 - What processes mediate any change?
- ACT for Life: Pilot of ACT groups, clients with at-risk/prodromal, early and established psychosis (N=69)
- Measures at baseline and follow-up measures
 PI: Louise Johns

PI: Suzanne Jolley

- ACT for Recovery: RCT of ACT vs wait-list control, clients with established psychosis (N=51) & caregivers (N=52)
- Measures atpre-, post- and at follow-up

ACT for Recovery Study



ACT for Recovery

A little further down the road....

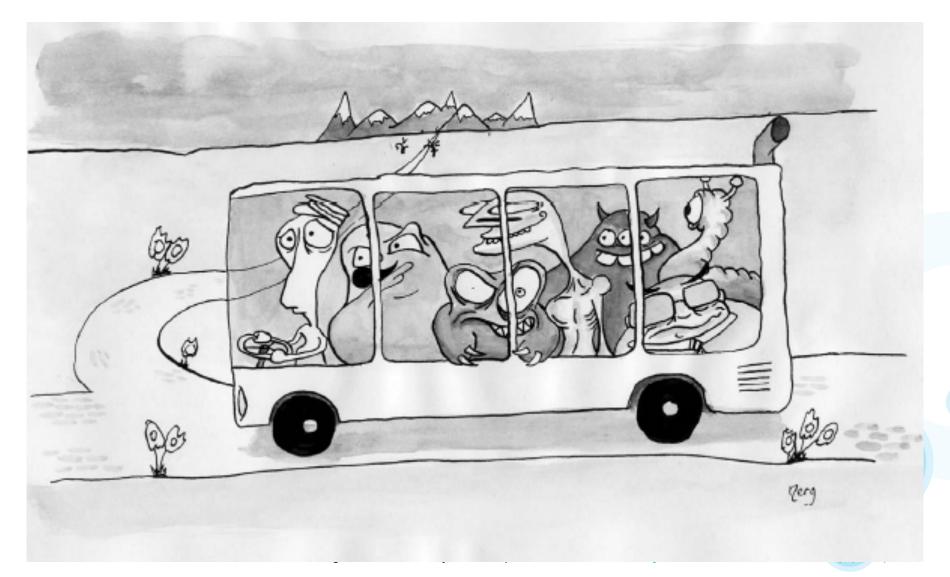
Acceptance and Commitment Therapy

- a model for all
- involve peer group facilitators
- help service users and carers
- have an "ice-breaker" intro to groups
- have 2 booster sessions

ACT4R: The wisdom of Peers

- Recovery orientated services emphasise 'expertise by experience' along with evidence based practice
- We wanted an additional perspective in the workshops
- Value in having peers model lived experience of engaging in willingness and mindfulness
- We wanted to create an atmosphere where people would feel comfortable sharing their experiences

Study Design



Participants

- Over 2013 we aimed to recruit
 - 48 service user participants with established psychosis
 - 48 caregiver participants

- Actual numbers recruited
 - 51 service users
 - 52 caregivers

Demographics

Service Users

- N = 51 (26 ACT vs 25 WL)
- 49% Female
- Mean age = 43 years
- Ethnicity
 - 61% BME
 - 39% Non BME
 - 0% Other

Carers

- N = 52 (29 ACT vs 23 WL)
- 90% Female
- Mean age = 54 years
- Ethnicity
 - 50% BME
 - 48% Non BME
 - 2% Other
- 50% parents of an adult child in services

Design

- Randomized Controlled Trial
 - Introduction/taster session
 - Opt into the study
 - ACT Intervention immediate vs Wait-list control
 - Wait-list cohort offered ACT intervention 4 months later
- Four measurement points
 - 1 0 weeks (baseline)
 - 2 4 weeks (post intervention)
 - 3 12 weeks (post booster sessions)
 - 4 36 weeks (extended follow-up) (*uncontrolled. To assess longevity of effect*)

Measures

Warwick-Edinburgh Wellbeing Scale (Tennant et al., 2007)

CORE-10 (Barkham et al., 2008)

Interference Measure (adapted from Sheehan, 1983)

Time Budget (Jolley et al., 2005; 2006)

Valuing Questionnaire (Smout et al., submitted)

Acceptance and Action Questionnaire-II (Bond et al., 2011)

Southampton Mindfulness Questionnaire (Chadwick et al., 2008)

EQ5D (EuroQuol group, 1990)

Satisfaction Questionnaire (adapted from Attkisson, & Zwick, 1982)

Subjective impact on service user recovery & caregiving relationship

Service user only measure

Questionnaire about Process of Recovery (Neil et al., 2009)

Adapted PSYRATS (including VAS-ratings of voice power; belief flexibility; Haddock et al., 1999)

Protocol

- Four, 2-hour weekly sessions
- 4-8 participants in each group, 2-3 facilitators
- Session content based around one metaphor (Passengers on the Bus)
- Use of actor-video to allow participants to approach content at their own pace
- Main components include:
 - Values clarification
 - Mindfulness / noticing exercises
 - Willingness
 - Defusion
 - Committed action out of session planning

Work/Education

Work, career, education, skills development.

Values Worksheet

What is important to you?

> VALUED DIRECTION

Leisure

How you play, relax or enjoy yourself.

Relationships

With your partner, family, friends, co-workers.

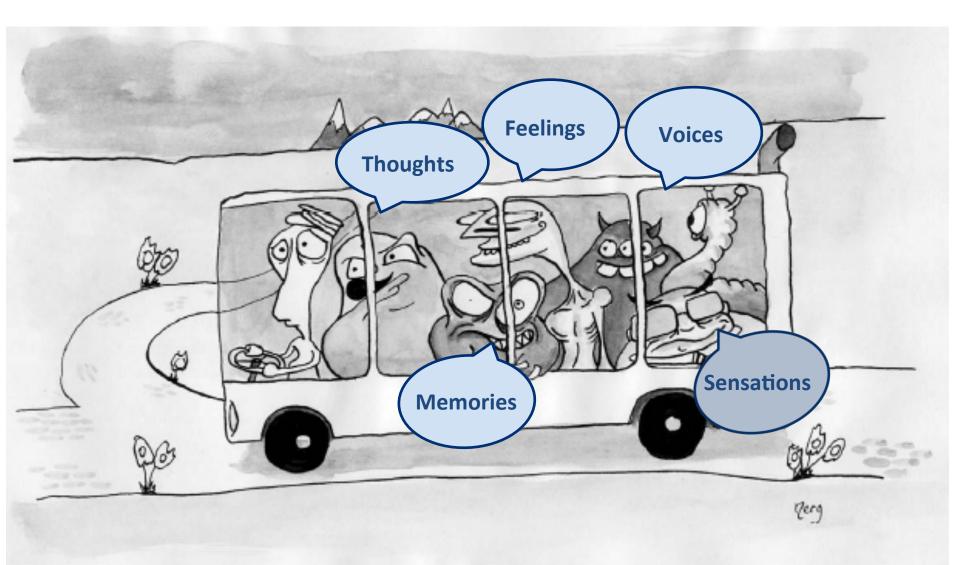
Other?

Anything else that is important to you.

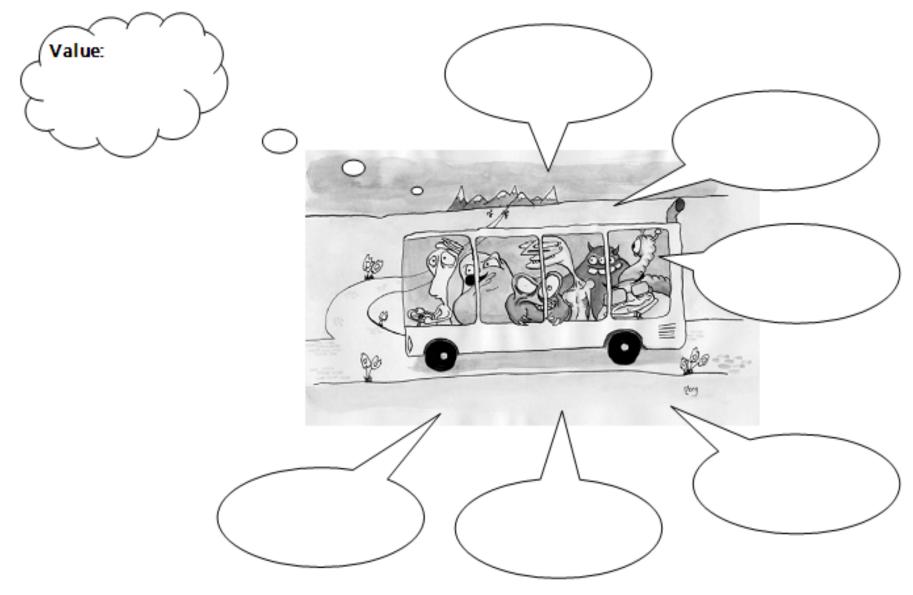
Personal growth/health

May include religion, spirituality, creativity, physical health.

Passengers on the Bus



Passengers on the Bus Worksheet



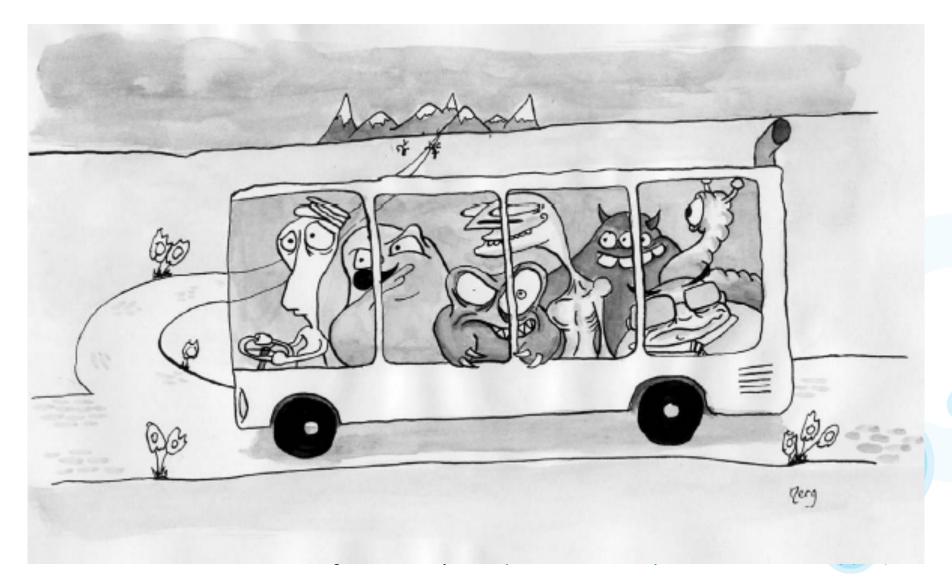
Out of Session planning Worksheet

My goal is to (be specific):						
My values guiding this goal:						
My action for this week to move me closer to my goals:						



Passengers that might show up as I work towards my goal.						
yvai.						

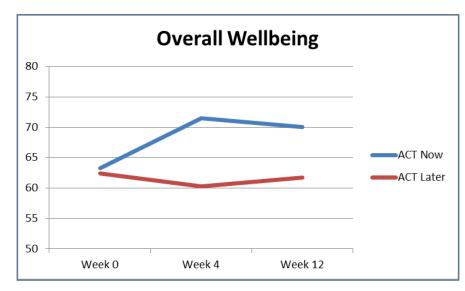
Study Results



Main Outcome - Overall Wellbeing

- Wellbeing (Warwick-Edinburgh Mental Wellbeing Scale, WEMWBS, Tennant et al., 2007)
- Distress (Clinical Outcomes in Routine Evaluation measure, CORE-10, Barkham et al., 2013)
- To create a single primary outcome index and increase power, WEMWBS and CORE-10 scores were combined to create an Overall Wellbeing (OW) score

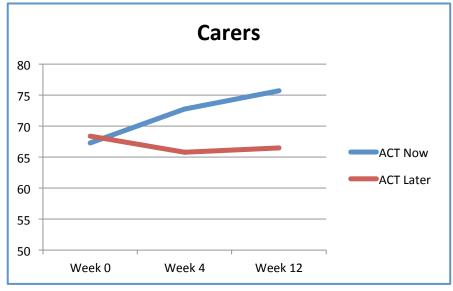
Main Outcome - Wellbeing

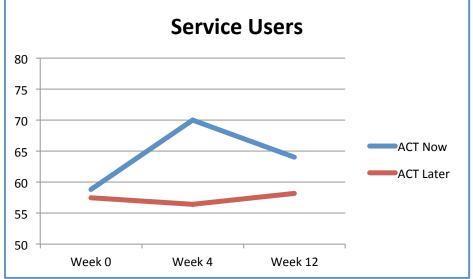


Findings:

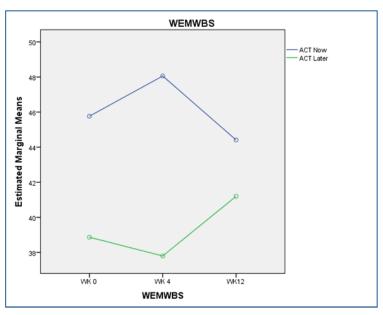
- Significant treatment effect
- Coeff=8.0, p<0.001, 95% CI 3.8-12.3
- Between groups ES=0.6 at 4 weeks
- ES=0.4 at 12-week follow-up

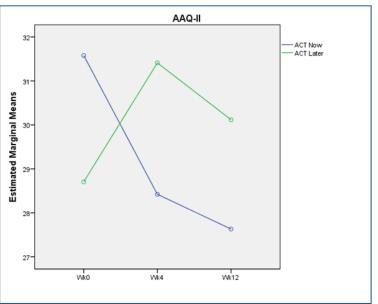
(Jolley, Johns, O'Donoghue, ACTfR group and Morris., in prep)

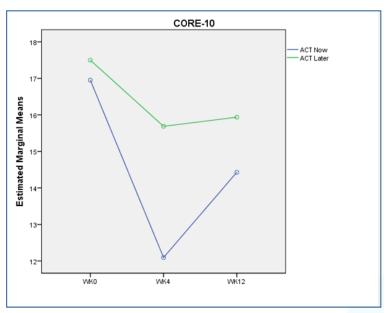


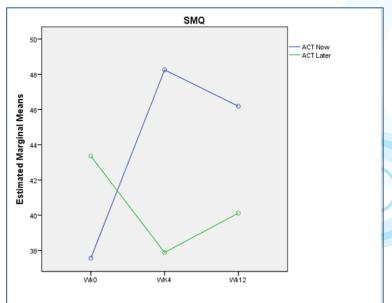


Service User Means

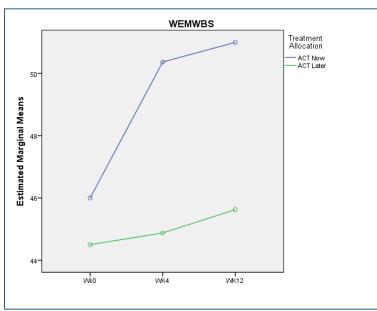


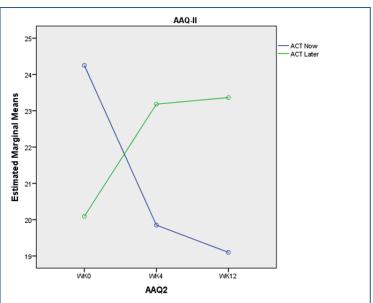


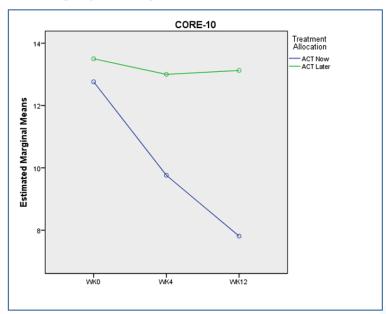


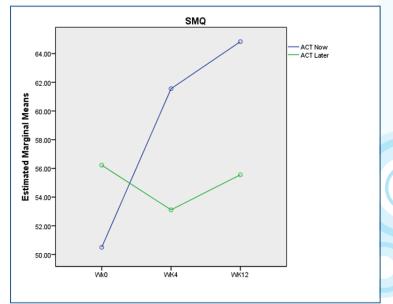


Carer Means

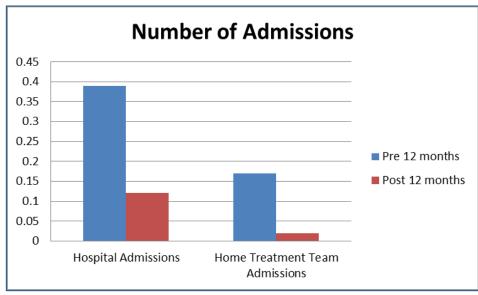


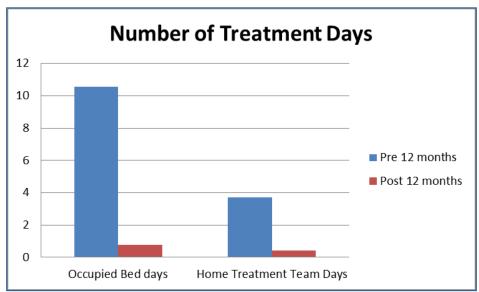






Service Use





Uncontrolled Service Use was recorded 12 months prior to the intervention and 12 months following the booster sessions.

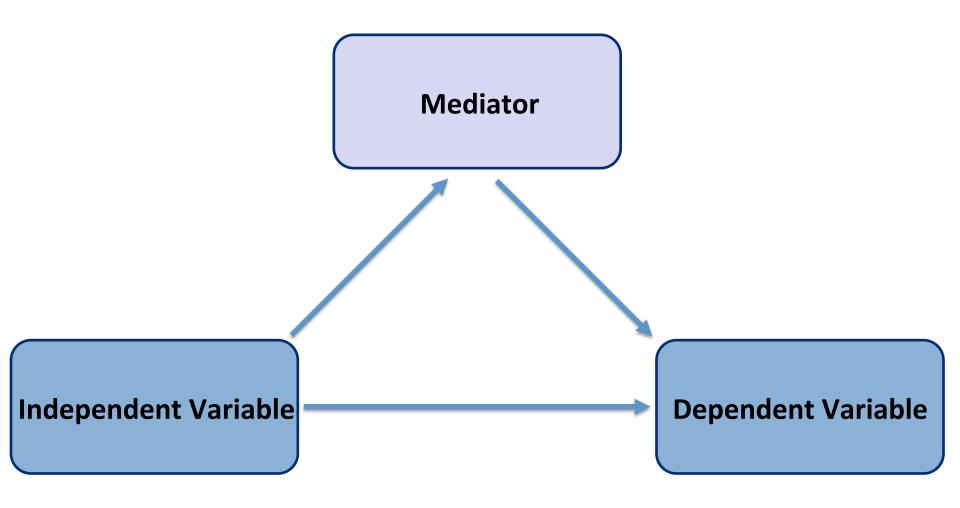
Findings:

- Significant reductions in number of admissions to Hospital and Home Treatment Admissions (*p < 0.5)
- Significant reductions in Occupied Bed Days and Home Treatment Team Days (*p < 0.5)

Mechanisms of Change



Mediation Analysis



Mediation Analysis - Bootstrap

Is **change** in Wellbeing **mediated** by a change in an ACT process? (Baseline - 12 wk f/u change)

Mindfulness

SMQ

Sig. Indirect Effect = 4.89, 95% BCa CI (1.86, 9.79) accounting for 21% variance

a = 13.01*

b = 0.38**

Group Allocation ACTNow, ACTLater

n.s.

Overall Wellbeing 12 week follow-up

Mediation Analysis - Bootstrap

Is **change** in Wellbeing **mediated** by a change in an ACT process? (Baseline - 12 wk f/u change)

Psych Flex

AAQ-II

Sig. Indirect Effect = 3.51, 95% BCa CI (0.17, 8.31) accounting for 17% variance

a = 5.97*

b = 0.59*

Group Allocation ACTNow, ACTLater

n.s.

Overall Wellbeing 12 week follow-up

Mediation Analysis - Bootstrap

Is **change** in Wellbeing **mediated** by a change in an ACT process? (Baseline - 12 wk f/u change)

Psych Flex

AAQ-II & SMQ

Sig. Indirect Effect = 5.29, 95% BCa CI (1.86, 10.16) accounting for 23% variance

a = 5.12*

b = AAQ - 0.32

b = SMQ 0.28*

Group Allocation ACTNow, ACTLater

n.s.

Overall Wellbeing 12 week follow-up

Themes – Qualitative Analysis (Service Users)

- 1. Preferred exercises (PoB Metaphor, willingness, values/goals clarification, committed action, focus on recovery)
- Qualitative changes (More mindful/present, accepting, values/goals, increased self-awareness etc.)
- 3. Responding to 'Passengers' (Identification, externalising passengers, responding differently to passengers)
- 4. Group Processes (Shared understanding/experiences)
- Difficulties with the model (Understanding PoB metaphor, Identifying values/goals)

Themes – Qualitative Analysis (Carers)

- 1. Qualitative changes (Mood and wellbeing, increased self-awareness etc.)
- 2. Preferred exercises (Mindfulness, values clarification, committed action)
- 3. How people relate to difficulties (More mindful, accepting)
- 4. Positive impact on the caring role
- 5. Group Processes (Shared understanding, space to be heard)

Summary

Results show:

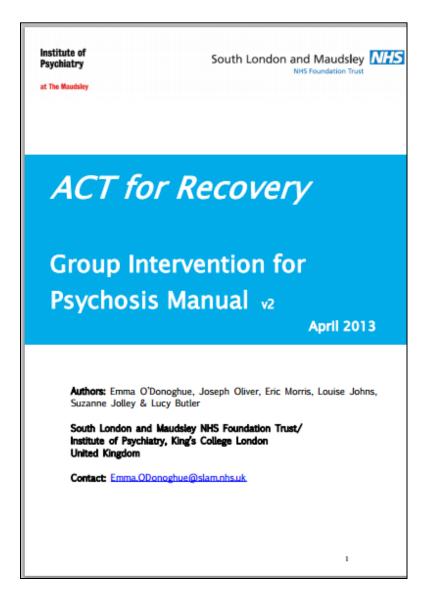
- Wellbeing and psychological distress improved after workshops and was consistent over the follow-up period
 - 4 sessions of ACT is sufficient for carers
 - May need to increase number of sessions for service users to maintain improvement
- Eight point difference in overall wellbeing between the ACTnow and ACTlater groups
- Between group effect sizes comparable to those reported for longer, individual therapies, in the UK NICE guidance
- Psychological Flexibility and Mindfulness increased and were found to mediate the relationship between group allocation and wellbeing

Next Steps...

- 6 months follow-up assessments
 - Assess for long-term treatment effect

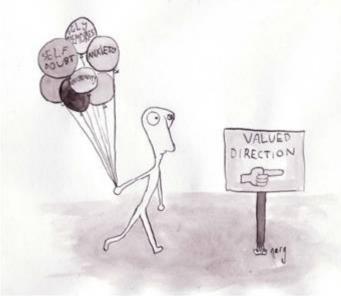
Cost effectiveness of ACTfR Intervention

Coming soon!



 The ACT for Recovery manual will be published by New Harbinger Publications in autumn 2016

Contact Details



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