Applying ACT in Sierra Leone: Examining the impact of ACT training on health professionals

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• commit + act: Who we are & what we do



- *commit* + *act*: Who we are & what we do
- Examining the impact of ACT training: Studies 1 & 2



- *commit* + *act*: Who we are & what we do
- Examining the impact of ACT training: Studies 1 & 2
- Future directions



Commit + act

Mission:

To bring psychotherapeutic support to people in areas of conflict & Low & Middle Income Countries (LMICs)

Goals:

To train local health care workers & NGO staff in evidencebased approaches (i.e., ACT)

To provide ongoing support & supervision

To increase access to psychotherapeutic for local people

Connecting Caring Creating

Sierra Leone

Income: Ş

Ranked 180th out of 187 in Human **Development Index** 60% live below poverty line (\$1.25 nor day)

wa 50,00 killed 10,000 child soldiers 70% yout Amputation & rape weapons of war

41% adult illitera

unemployed or underemployed

Gender inequalit Domestic & sexual violence **Female Genital Mutilation (FGM)**

Lack of access to clean water Poor infrastructure Maternal mortality HIV/AIDS

* Figures from United Nations Development Programme (2012) & United Nations Population Fund (2005)

Services

commit + *act* facilitate beginners & advanced training workshops in ACT for local health care workers & NGO staff in Freetown, Bo, & Makeni





The commit + act center, Bo, now provides a space for training, supervision, therapy for clients, & outreach to local communities

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Method:

Measures

- Acceptance & Action Questionnaire-II (AAQ-II; Bond et al., 2011) (e.g., "Emotions cause problems in my life")
- Satisfaction with Life Scale (SWLS; Diener et al., 1985) (e.g., "In most ways my life is close to my ideal")
- Valuing Questionnaire (VQ; Davies et al., 2011) (e.g., "I did things that brought me closer to what really matters to me in my life")
- **Cognitive Fusion Questionnaire** (CFQ; Gillanders et al., 2013)* (e.g., "I tend to react very strongly to my thoughts")
- **Primary Care PTSD screen** (Prins et al., 2003) (e.g., "Were constantly on guard, watchful, or easily startled?")
- Workshop Evaluation & Feedback Forms (e.g., "How valuable did you find the experiential part of the workshop?"; "I have used the following ACT exercises in my daily work:")

*Study 2 only

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- Participants who screen positive on the PC-PTSD screen would show greater inflexibility & fusion, & lower life satisfaction & valued living than those who did not

Data analyses

- All participants inc. in correlational analyses & calculation of internal reliability
- Only participants present at all 3 time points inc. in analyses of changes in scores over time & in relation to PC-PTSD screen
- Threshold for sig. for correlations & post hoc tests adjusted by Bonferroni correction

Study 1

Participants:

57 participants (26 males; 31 females; mean age=34yrs) attended a beginners workshop in either Bo (n=31) or Freetown (n=26)

Ethnicity: 52.6% were Mende; others were Temne, Kissi, Limba, Mandingo, Kono, Loko, Fula & Sherbro

37 participants (16 males; 21 females; mean age=34.7yrs) completed the measures at all 3 time points (baseline, post-workshop & follow-up)

Results: Study 1

Correlations & internal reliability

	AAQ-II	SWLS	VQ
AAQ-II			
SWLS	053		
VQ	221	.501*	

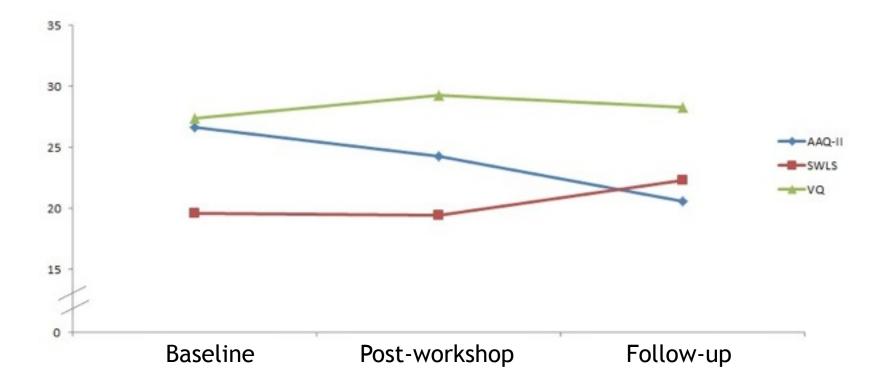
*p<.01

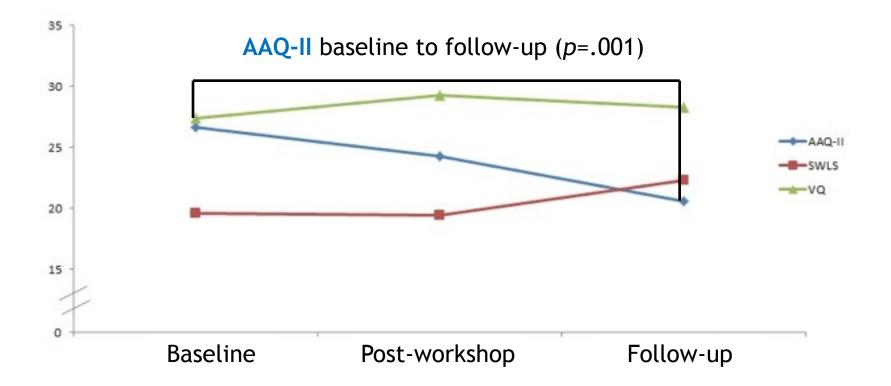
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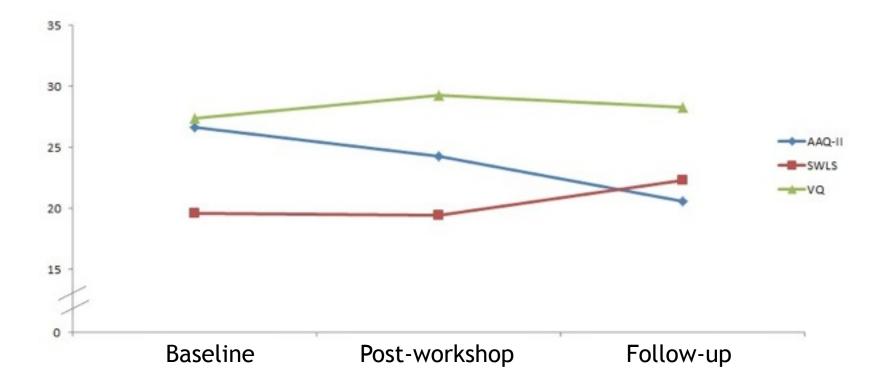
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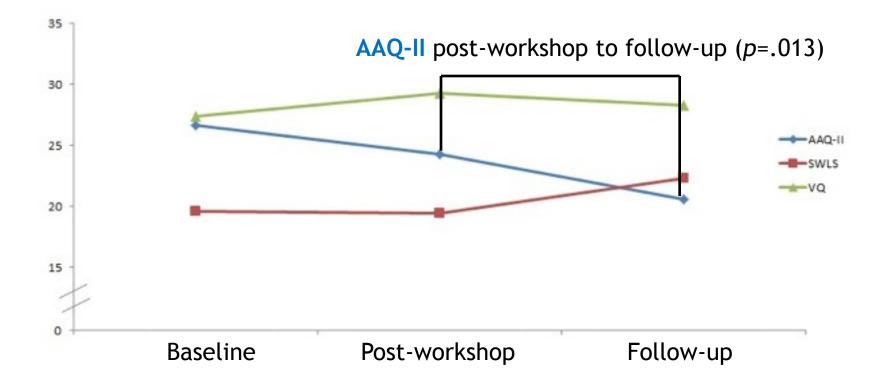
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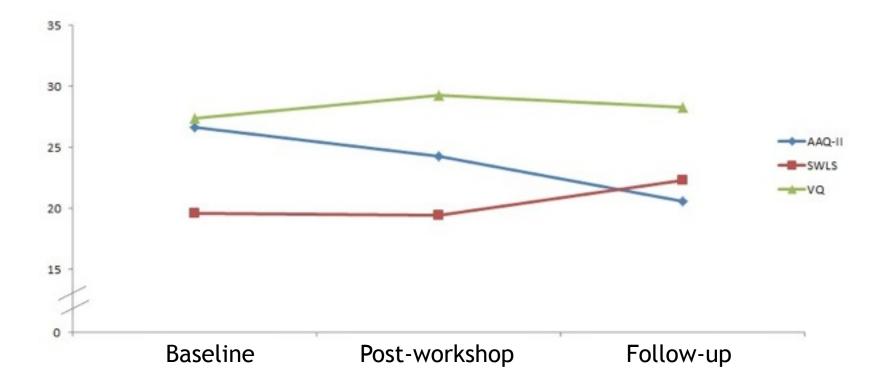
Measure	Cronbach's alpha
AAQ-II	a=.78
SWLS	a=.602
VQ	a=.395

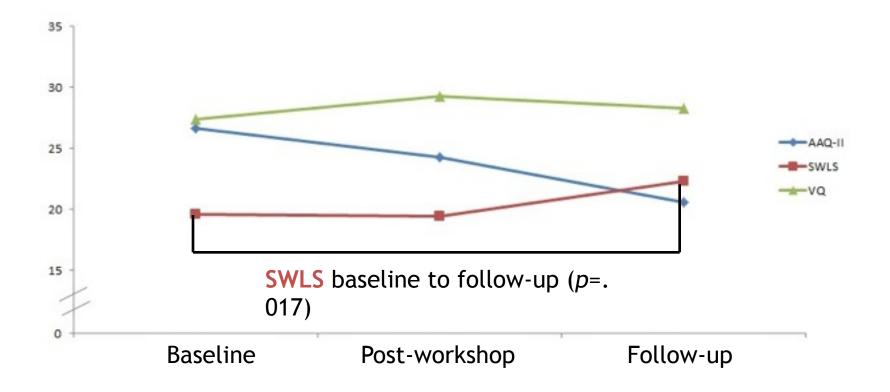


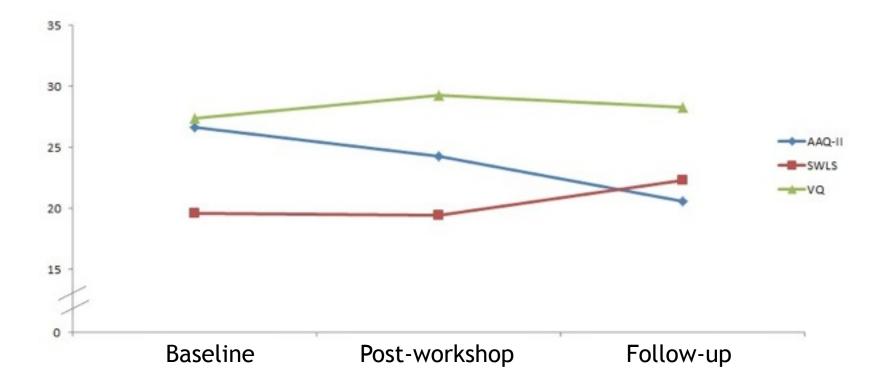


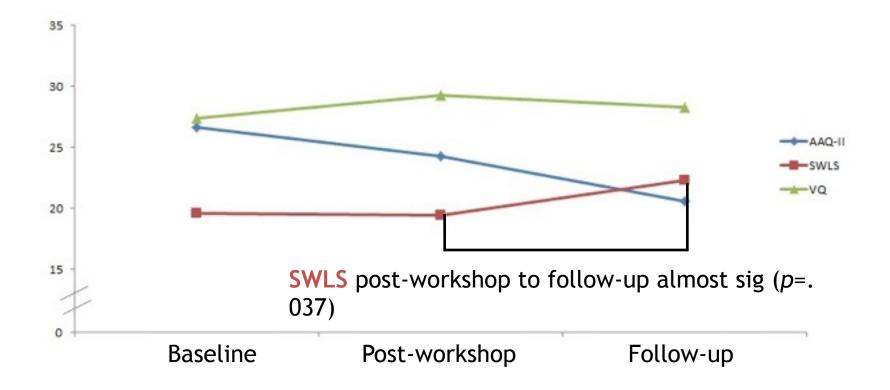


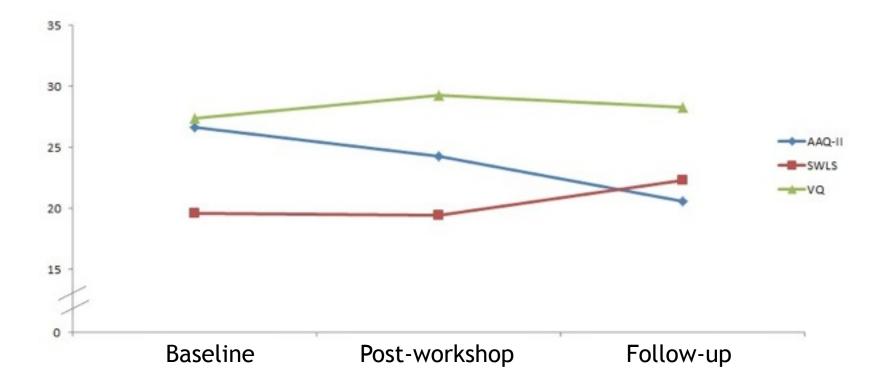


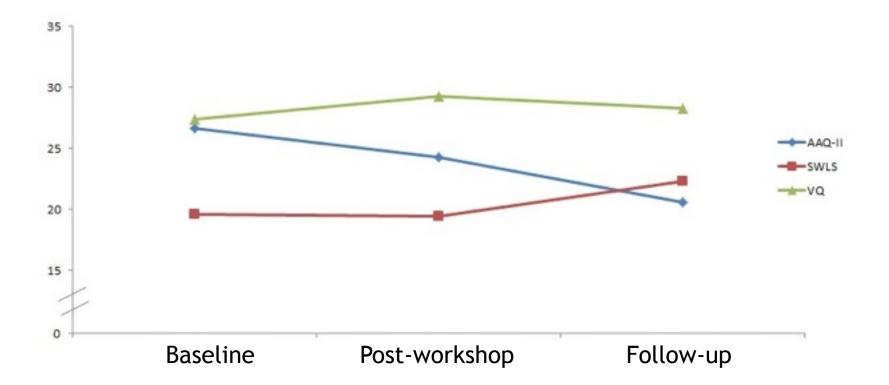












- Significant decreases in psychological inflexibility from baseline to follow-up & from post-workshop to follow-up
- Significant increases in life satisfaction from baseline to follow-up; increase from post-workshop to follow-up trending towards significance

PC-PTSD Screen

- 45.95% (*n*=17) of the 37 participants screened positive at baseline; 35.14% (*n*=13) screened positive at follow-up (non-sig.)
- No significant between-group differences on any measure

- Both participants who screened positive & those who didn't demonstrated sig. reductions in psychological inflexibility from baseline to follow-up (p=.001) & from post-workshop to follow-up (p=.008)
- Increases in life satisfaction for both groups also trended towards sig. from baseline to follow-up (p=.022) & from post-workshop to follow-up (p=.046)

Feedback

- Positive feedback on Evaluation Form & requests for further supervision in ACT
- At follow-up, participants reported using ACT techniques in their work :

Exercise	Percentage (%)
Life Line exercise	82.86
Mindfulness exercises	40
Passengers on a bus metaphor	20
The Matrix	14.29
Values exercises	14.29
70 th	11.43

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- Positive feedback; participants used techniques in their work with clients following training

Study 2

Participants:

57 participants (26 males; 31 females; mean age=36.12yrs) attended an advanced workshop in either Freetown (n=33) or Bo (n=24)

Ethnicity: 68.4% Mende, 10.5% Temne, Limba, Kono, Krio, Mandingo, Loko, & Liberian

27 participants (14 males; 13 females; mean age=36.28 yrs) completed measures at all three time points

Results: Study 2

Correlations

	AAQ-II	CFQ	SWLS	VQ
AAQ-II				
CFQ	.576**			
SWLS	307*	246		
VQ	473**	541**	.450**	

*p<.05 **p<.01

Sig. negative correlations between: AAQ-II & VQ CFQ & VQ *AAQ-II & SWLS approaching sig.

Sig. positive correlations between: AAQ-II & CFQ VQ & SWLS

Internal Reliability

Measure	Cronbach's alpha
AAQ-II	a=. 823
SWLS	a=.786
CFQ	a=.671
VQ	a=.69

- Higher internal reliability compared to Study 1
- Improved reliability for VQ may reflect better understanding on ACT conceptualisation of values & of term "auto-pilot" for advanced workshop compared to beginners

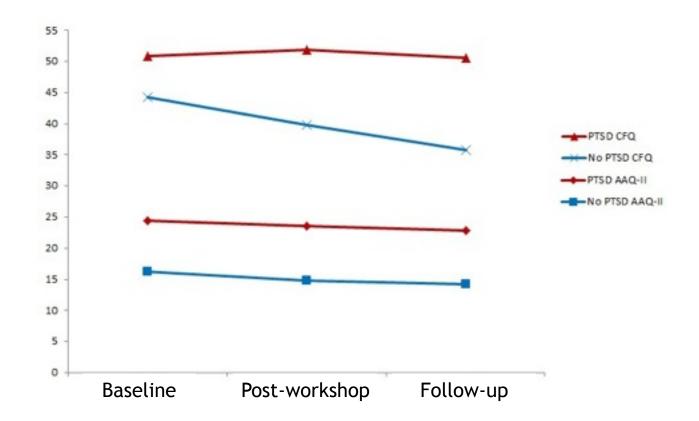
Changes over time

- No significant changes on any measure over time in Study
 2
- However, baseline AAQ-II scores in the advanced workshop (*M*=21.44; *SD*=7.66) were much lower than those in the beginners workshop in Study 1 (*M*=26.69; *SD*=7.93)

PC-PTSD Screen

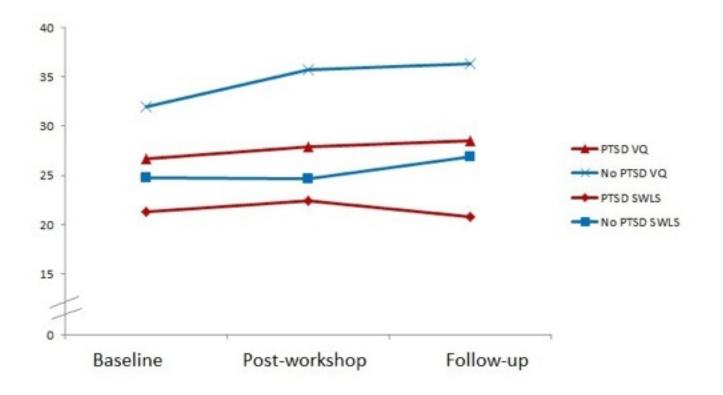
- 63% (n=17) of the 27 participants screened positive on PC-PTSD screen at baseline ; 33.3% (n=9) did so at follow-up
- McNemar's test revealed that the reduction was statistically significant (p=.021)
- Mixed factorial ANOVAs revealed significant differences between those who screened positive & those who didn't on all measures (but no changes in scores over time)

PC-PTSD Screen



- Significant between groups effects for AAQ-II (p=.003) and CFQ (p=. 000)
- Participants who screened positive on PC-PTSD screen demonstrated higher psychological inflexibility & cognitive fusion at each time point

PC-PTSD Screen



- Significant between groups effects for SWLS (p=.015) and VQ (p=.003)
- Participants who screened positive on PC-PTSD screen demonstrated lower life satisfaction & valued living at each time point

Feedback

- Participants gave positive feedback & expressed interest in pursuing future ACT training & supervision
- At follow-up, participants reporting using ACT techniques in the work following training:

Exercise	Percentage (%)
Life Line exercise	70.83
The Matrix	70.83
Mindfulness exercises	50
"Eyes On"	33.33
Defusion	25

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- Participants who screened positive demonstrated greater inflexibility & fusion, & lower life satisfaction & valued living at each time point
- Positive feedback & participants continued to use ACT techniques in their work with clients

Conclusions

- This research is an important first step in investigating the impact of *commit* + *act's* work & the acceptability of ACT in Sierra Leone
- Findings provide evidence for acceptability & effectiveness of ACT in this population

(reductions in psychological inflexibility & increases in life satisfaction)

• Preliminary evidence for reliability & validity of AAQ-II





• The next step: examining the impact of ACT interventions on clients across a range of issues



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- *"Idioms of distress"*: Cross-cultural differences in conceptualisation of mental health difficulties (e.g., PTSD)
 - Implications for how this is measured



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