# **RUMINATION, COGNITIVE-BEHAVIOURAL AVOIDANCE AND DEPRESSION IN AN AUSTRALIAN CLINICAL SAMPLE**

#### **ABSTRACT:**

The study re-investigated the factor structure of the Cognitive-Behavioural Avoidance Scale (Ottenbreit & Dobson, 2004). The study then investigated the relationship between avoidance, rumination and depression in terms of gender, age, life events and unique variance using the reinvestigated scale to measure cognitive-behavioural avoidance. Participants consisted of 158 severely depressed and anxious inpatients; there were 75 men (mean age of 44.6 years). Participants completed the Cognitive-Behavioural Avoidance Scale; the Depression, Anxiety and Stress Scale; Brief COPE; The Ways of Coping Questionnaire – Escape – Avoidance Scale and the Response Styles Questionnaire – Rumination Scale. The Cognitive-Behavioural Avoidance Scale was a valid instrument for measurement of avoidance in this sample but, after factor analysis, it differed in its' subscale structure from the original published version. Females had higher scores on all constructs; overall use of rumination decreases with age but there were different results for the three constructs when age by gender was examined; interpersonal life events were important for all participants and avoidance did contribute unique variance to the construct of depression.

*"When we ruminate, we become fruitlessly preoccupied"* with the fact that we are unhappy and with the causes, meanings, and consequences of our unhappiness." - Mark Williams, The Mindful Way through Depression: Freeing Yourself from Chronic **Unhappiness** 

#### Design

The study used a survey methodology with a selfreported questionnaire. All participants were volunteers.

### **Recruitment of Participants**

**Participants were recruited from inpatients and day** patients of a treatment clinic on the Gold Coast and from the private patients of the associated medical and allied health staff of the clinic.

Demographic Variables for Clinical Sample (N =

e (mean) (standard deviation) (range

(mean) (standard deviation) (range)

Anxiety disorder

Anti-depressant Anti-anxiety Anti-psychotic

Number of Life Events Reported

Type of Life Event Reported °

Health of others

Other

Relationship issues Work related Health of self

ote Missing data on age and months since diagnosis (r y Diagnostic and Statistical Manual for Mental Disorder gement Australia issue No. 3 2009; cas transcribed into o

Other Combination

Mood and anxiety Mood and co-morbid

Anxiety and co-morbid

Mood and anxiety and co-morbid

Medication<sup>b</sup> (86.2% overall reported being o

No medication or did not answe

Self-reported diagnosis<sup>a</sup> Mood disorder

#### **Measures:**

The Cognitive – Behavioural Avoidance Scale (CBAS: Ottenbreit & Dobson, 2004) The COPE Scale (Carver, Scheier & Weintraub, 1989)

The Ways of Coping Questionnaire – Escape – Avoidance Scale (WCQ: Folkman & Lazarus, 1985)

The Depression, Anxiety and Stress Scale (DASS-21 item; Loviband & Loviband, 1995)

**Response Styles Questionnaire – Rumina**tion Scale (RSQ; Nolen-Hoeksema & Morrow, 1991)

**Demographic items - gender, age .....** 

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Study 1 - Aim: To	o validate the new	v measuren	nent in-	uble 3	(SD) of succession		(		S	
•	oidance, the Cogn			eans and Standard Deviatio fferences	ons (SD) of question	nnaire measures by age	group jor total s	sample and by gender including test	oj age group	
	<i>,</i> 0			Measure	Age group	Mean (SD)	t-test, p	Cohen's d	<i>I</i>	
	e (CBAS) using a	cinical san		otal CBAS – Total	Younger Older	91.99 (21.62) 91.50 (23.16)	NS		S	
from a psychiat	ric hospital.			CBAS – BS CBAS – TA	Younger Older Younger	28.10 (7.87) 29.10 (8.63) 37.09 (9.86)	NS NS			
<b>I</b> V	ognitive Behaviou	ral Avoida	nco	CBAS – TA CBAS – CA	Younger Older Younger	37.03 (10.64) 29.45 (8.48)	NS		ŀ	
	0			DASS- Anxiety	Older Younger Older	28.36 (8.27) 10.61 (5.35) 9.29 (5.70)	NS		2	
Scale was found	to be a valid and	reliable m	easure	DASS- Depression	Younger Older	13.56 (5.90) 12.18 (6.66)	NS			
when used in th	e current clinical	sample. Th	e Be-	RSQ	Younger Older	64.41 (13.29) 61.33 (14.24)	NS			
		-	1410	ale CBAS - Total CBAS – BS	Younger Older Vounger	96.03 (19.99) 83.22 (20.28) 31.03 (7.91)	3.15** 3.24**	.72 .75	r	
	el of Depression su	00		CBAS – BS CBAS – TA	Younger Older Younger	25.57 (7.56) 37.81 (9.29)	2.54*	.75	f	
avoidant coping	strategies by dep	ressed pers	sons is	CBAS – CA	Older Younger Older	33.10 (9.58) 29.93 (7.86) 27.02 (7.70)	NS		1	
	r analysis could or			DASS- Anxiety	Younger Older	10.64 (5.16) 7.80 (5.10)	2.27*	.52	A	
	•			DASS- Depression RSQ	Younger Older Vounger	13.57 (6.42) 9.90 (6.31) 64.93 (11.83)	2.10* 3.55**	.48	t t	
terpret three fac	ctors which accou	nted for 48	<b>5.28%</b>	кзұ	Younger Older	55.52 (14.51)	5.55**	.02	L l	
an amount grea	ter than Ottenbre	it and Dob	son's	emale CBAS - Total CBAS – BS	Younger Older Vounger	88.69 (21.92) 99.77 (23.89) 28.25 (8.66)	NS		S	
U				CBAS – BS CBAS – TA	Younger Older Younger	28.35 (8.66) 30.86 (8.25) 36.09 (10.30)	-2.44*	.54		
(2004) solution v	where they accour	nted for 44.	.95%.	CBAS – CA	Older Younger	41.49 (10.18) 26.78 (7.67)	-2.30*	.51	I	
The new three f	actors are: Behav	ioural Soci	al. Task	DASS- Anxiety	Older Younger Older	31.06 (9.21) 10.53 (5.75) 10.72 (5.80)	NS		2	
	Cognitive Avoidar		ing insit	DASS- Depression RSQ	Younger Older Younger	13.51 (5.58) 14.40 (6.30) 63.60 (14.33)	NS NS			
	e				Older	67.32 (12.12)				
			No	ote. CBAS - Total = Cogniti	ive Behavioural Av	voidance Scale Total sco	ore, BS = Behavi	ioural Social, TA = Task Avoidance,	e, CA = Cogni-	
			tive	ote. CBAS - Total = Cogniti ve Avoidance, DASS = Depr ale: Younger $n = 40$ Older $n$	ression Anxiety an	nd Stress Scale, RSQ = R	esponse Style Q	Questionnaire. Total: Younger n = 81	e, CA = Cogni- 1 Older $n = 77$ ,	
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$\begin{array}{cccc} 49.9 & (13.8) & (19-87) & 44.6 & (13.1) & (18-67) \\ \\ 53.6 & (75.1) & (1-360) & 63.9 & (95.5) & (0-580) \\ \hline \\ Overall & (\%) & Male & (\%) & Female & (\%) \\ 51 & (32.1) & 26 & 25 \\ 13 & (8.2) & 7 & 6 \\ 39 & (24.5) & 11 & 28 \\ 20 & (12.6) & 10 & 10 \\ \hline \end{array}$	Factor loadings for Cognitive Behavioural Avoida         Items number and condensed description         Fat         Behavior         Social         Question No.         1. Avoid attending social activities         21. Make excuses to get out of social activities         14. Do not go to events when people do not know         15. Instead thinking, tell self prefer to be alone         17. Want to leave social gatherings         24. Remain to self during social gatherings         28. Rather than getting out, sit home watch TV	ctor 1 -       Factor 2 -       Factor 3 -         ural       Task       Cognitive         Avoidance       Avoidance         .77       .25       .02         .75       .30       .17         .74       .09       .26         .60       .22       .29         .70       .20       .21         .55       .15       .38         .48       .33       .15	tive Ma Table 4 Mean/standard deviation measures including gend	ne Avoidance, DASS = Dep ale: Younger n = 40 Older n on (SD) and range (tota der differences	ression Anxiety an n = 35, Female: Yo	ad Stress Scale, RSQ = R bunger $n = 41$ Older $n = 41$ y gender) for the Cos Female	tesponse Style Q 42. *p<.05 *	Questionnaire. Total: Younger <i>n</i> = 81 ** <i>p</i> <.01	1 Older <i>n</i> = 77, <b>1</b> <b>t</b> <b>t</b>	
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$\begin{array}{c ccccc} 49.9 & (13.8) & (19-87) & 44.6 & (13.1) & (18-67) \\ \hline 53.6 & (75.1) & (1-360) & 63.9 & (95.5) & (0-580) \\ \hline \\ $	Factor loadings for Cognitive Behavioural Avoida         Items number and condensed description         Fa         Behavior         Social         Question No.         1. Avoid attending social activities         1. Avoid attending social activities         1. Avoid attending social activities         1. Make excuses to get out of social activities         1. Make excuses to get out of social activities         1. Make excuses to get out of social activities         14. Do not go to events when people do not know       15. Instead thinking, tell self prefer to be alone         17. Want to leave social gatherings       24. Remain to self during social gatherings         24. Remain to self during social gatherings       28. Rather than getting out, sit home watch TV         8. Do not answer phone in case social invitation       23. Turn down socializing with opposite sex         4. Fail to follow through with achievement goals       11. Think not able to complete challenging tasks         31. Avoid tasks that are really important       7. Turn down opportunities education/career         27. Decisions work, do not get down to it       9. Quit activities that challenge too much         13. Avoid trying activities potential for failure       25. Avoid making decisions about future	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Table 4 Mean/standard deviation measures including gend CBAS – Total CBAS – BS CBAS – TA CBAS – CA DASS – Anxiety DASS – Depression RSQ Note. CBAS – Total = C	re Avoidance, DASS = Deprale: Younger <i>n</i> = 40 Older <i>n</i> on (SD) and range (tota der differences Total Mean (SD) Range 91.74 (22.38) 28.88 (8.34) 37.06 (10.25) 28.62 (8.27) 9.91 (5.56) 12.84 (6.33) 62.79 (13.84)	ression Anxiety an n = 35, Female: Yo Male Mean/SD Ra 44 – 145 9 – 45 12 – 59 10 – 50 0 – 21 0 – 21 27 – 88 Another Scale	ad Stress Scale, RSQ = R punger $n = 41$ Older $n = 41$ Older $n = 41$ y gender) for the Cos Female mge Mean/SD 89.20 (21.02) 28.12 (8.14) 35.50 (9.68) 28.38 (7.86) 9.13 (5.29) 11.61 (6.58) 59.92 (13.89) Total Score, BS = E	Range 44 - 136 9 - 45 12 - 59 10 - 45 0 - 21 0 - 21 27 - 85 Behavioural S	Questionnaire. Total: Younger $n = 81$ ** $p < .01$ <i>vioural Avoidance Scales and c t</i> -test <i>t</i> 94.03 (23.43)       44 – 14         29.56 (8.51)       9 – 45         38.65 (10.55)       17 – 59         28.84 (8.67)       11 – 50         10.63 (5.74)       11 – 50         13.94 (5.92)       0 – 21         65.40 (13.36)       29 – 88	1 Older $n = 77$ ,       1         t       t	
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Total: Younger <math>n = 81</math>         **<math>p &lt; .01</math> <i>vioural Avoidance Scales and c t</i>-test         <i>t</i>         94.03 (23.43)       44 – 14         29.56 (8.51)       9 – 45         38.65 (10.55)       17 – 59         28.84 (8.67)       11 – 50         10.63 (5.74)       11 – 50         13.94 (5.92)       0 – 21         65.40 (13.36)       29 – 88</td><td>1 Older <math>n = 77</math>, 1 1 1 1 1 1 1 1 1 1 1 1 1</td></td>	<td>ctor 1 - Factor 2 - Factor 3 - Task Cognitive AvoidanceAvoidance Avoidance.77.25.02.75.30.17.74.09.26.60.22.29.70.20.21.55.15.38.48.33.15.49.3401.39.33.32.17.65.25.33.62.12.34.61.29.19.60.35.11.60.32.33.58.20.37.51.19.31.50.38.07.49.32.14.44.28.34.44.18.12.3808.11.14.76s.14.16.58fe.16.20.57.31.06.57.04.10.52ce.11.35.34.30.41.29.12.41.07.28.38</td> <td>Table 4 Mean/standard deviation measures including gend CBAS – Total CBAS – BS CBAS – TA CBAS – CA DASS – CA DASS – CA DASS – Depression RSQ Note. 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Total: Younger <math>n = 81</math>         **<math>p &lt; .01</math> <i>vioural Avoidance Scales and c t</i>-test         <i>t</i>         94.03 (23.43)       44 – 14         29.56 (8.51)       9 – 45         38.65 (10.55)       17 – 59         28.84 (8.67)       11 – 50         10.63 (5.74)       11 – 50         13.94 (5.92)       0 – 21         65.40 (13.36)       29 – 88</td> <td>1 Older <math>n = 77</math>, 1 1 1 1 1 1 1 1 1 1 1 1 1</td>	ctor 1 - Factor 2 - Factor 3 - Task Cognitive AvoidanceAvoidance Avoidance.77.25.02.75.30.17.74.09.26.60.22.29.70.20.21.55.15.38.48.33.15.49.3401.39.33.32.17.65.25.33.62.12.34.61.29.19.60.35.11.60.32.33.58.20.37.51.19.31.50.38.07.49.32.14.44.28.34.44.18.12.3808.11.14.76s.14.16.58fe.16.20.57.31.06.57.04.10.52ce.11.35.34.30.41.29.12.41.07.28.38	Table 4 Mean/standard deviation measures including gend CBAS – Total CBAS – BS CBAS – TA CBAS – CA DASS – CA DASS – CA DASS – Depression RSQ Note. 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Note. Items loading substantively on factors are presented in bold-face type.

Study 2 - Aim: An examination of the relationship between avoidance, as measured by the Cognitive-Behavioural **Avoidance Scale, and rumination in psychiatric patients** specifically focussing on depression. Hypothesis 1: That there will be gender differences in avoidance, rumination and depression. **Examination of the gender differences between the** measures for depression, avoidance and rumination showed females had higher scores than males on depression, Task Avoidance and rumination. The hypothesis, as predicted by the Cognitive Vulnerability – Transactional Stress Theory is supported.

Hypothesis 2- That there will be age differences in avoidance, rumination and depression.

Age is positively associated with months since diagnosis and anxiety but decreases the use of rumination. When examining gender, age has almost the opposite impact for each of the genders. For females there is only a significant correlation between age and CBAS-CA whilst for males this is the only relationship that is not significant. For males increasing age decreases the use of, or the association with, all variables except months since diagnosis. Hypothesis 3- That significant life events precede depres-10N.

Significant life events did not precede diagnosis in the present research. The mean time since diagnosis for participants was about five years. The hypothesis, which has its basis in Skinners Operant Conditioning, is not supported.

Hypothesis 4- That after controlling for anxiety and rumination, avoidance will contribute unique variance in the prediction of depression. This hypothesis is supported.

