Table DS1 Jumping to conclusions

Search Terms: "Jump to conclusions" + "delusions" (ISI and Pubmed)/ "Jump to conclusions" + "Schizophrenia" (ISI and Pubmed)/ "Jump to conclusions" + "Psychosis" (ISI and Pubmed)/ "Jump to conclusions" + "paranoia" (ISI and Pubmed)
Review Articles: Garety and Freeman (1999)/ Freeman (2007)/Dudley & Over (2003)/Bentall & Taylor (2006)/Fine et al (2007)
Early View articles: Schizophrenia Bulletin; Schizophrenia Review; British Journal of Clinical Psychology; Behaviour Research and Therapy; Journal of Behavioural Research and Experimental Psychiatry; Psychological Medicine; Journal of Abnormal Psychology

Table DS1a Clinical Studies of JTC using beads task or variants

Study	Participant Groups	Task	Jumping to Conclusions associated with delusions/ psychosis
1. Brankovic & Paunovic (1999)	29 Paranoid schiz. (currently deluded) 16 Schiz in remission 31 Anxious controls 35 Non-clinical controls	75:25 beads ratio	
2. Conway et al (2002)	10 Delusional disorder 10 Non-clinical controls	85:15 Beads ratio	✓
3. Freeman, Garety, Fowler, Kuipers, Bebbington & Dunn (2004)	48 Delusions (No alternative explanation) 17 Delusions (Alternative explanation)	85:15 Beads ratio 60:40 Beads ratio 60:40 Emotionally salient	✓
4. Garety et al (2005)	100 Delusion patients	85:15, Beads ratio 60:40 Beads ratio 60:40 emotionally salient	✓
5. Moritz & Woodward (2005)	17 Schiz. with delusions 14 Schiz.- no current delusions 28 Psychiatric controls 17 Non-Clinical controls	90:10 Beads ratio (prob. est. And DTD variant) 80:20 beads ratio (disconf. bias variant)	✓
6. Fraser, Morrison & Wells (2006)	15 Persecutory delusions 15 Panic disorder	60:40 neutral 60:40 emotionally salient 60:40 panic words	X

	15 Non-clinical controls		
7. Menon, Pomarol-Clotet, McKenna, McCarthy (2006)	**Study 1** 18 Deluded schiz. 15 Non-deluded schiz. 18 Non-clinical control **Study 2** 16 Deluded schiz. 15 Non-deluded schiz. 16 Non-clinical control	85:15 beads ratio 60:40 beads ratio 60:40 neutral words 60:40 emotionally salient words	 X ✓
8. Moore & Sellen (2006)	Computer simulated performance model	85:15 beads ratio 60:40 beads ratio	
9. Peters & Garety (2006)	23 Delusions 22 Psychiatric controls 36 Non-clinical controls	85:15 Beads ratio	✓
10. Van Dael et al (2006)	40 Schiz 40 1st degree relatives 41 Non-clinical with Psychotic experiences 53 Non-clinical controls	85:15 Beads ratio	✓
11. McKay, Langdon & Coltheart (2007)	11 Persecutory delusion patients 11 Persecutory delusions in remission 19 Non-clinical controls	85:15 beads ratio	X
12. Moritz, Woodward & Lambert (2007)	37 Schiz. Patients (22 paranoid delusion) 37 Non-clinical controls	80:20 beads ratio 90:10 beads ratio	 ✓
13. Warman, Lysaker, Martin, Davis, Haudenschield (2007)	38 Schiz. patients with delusions 30 Delusion prone non-clinical	60:40 beads ratio 60:40 emotionally salient words	✓

	30 Non-clinical controls		
14. Brakoulias, Langdon, Sloss, Coltheart, Meares & Harris (2008)	16 Delusional patients	5:1 beads ratio	X
15. Corcoran, Rowse, Moore, Blackwood, Kinderman, Howard, Cummins & Bentall (2008)	39 Schiz. spectrum, current persecutory delusions 29 Schiz. Spectrum, remitted persecutory delusions 20 Major depression with persecutory delusions 27 Major depression controls 33 Non-clinical controls	60:40 beads 60:40 emotionally salient	✓
16. Ellett, Freeman & Garety (2008)	30 Persecutory delusions 15 Urban exposure 15 Mindfulness task 30 Non-clinical controls	60:40 beads ratio	✓
17. Menon, Mizrahi & Kapur (2008)	19 Schiz. Spectrum first episode with delusions	60:40 beads 60:40 emotionally salient stimuli	
18. Peters, Thortnton, Siksou, Linney & MacCabe (2008)	21 Patients with psychosis diagnosis and delusions 16 Non-deluded patients with psychosis	85:15 beads ratio Wason's 2-4-6 Task	✓
19. So, Freeman & Garety (2008)	30 First episode psychosis with delusion 15 Anxiety induction 15 Anxiety reduction 30 Non-clinical controls 15 Anxiety induction 15 Anxiety reduction	85:15 beads ratio 60:40 beads ratio	✓

	(Chinese sample)		
20. Startup, Freeman & Garety (2008)	28 Patients with psychosis and persecutory delusions 30 Non-clinical controls	60:40 beads	✓
21. Bentall, Rowse, Shryane, Kinderman, Howard, Blackwood, Moore & Corcoran (2009)	39 Schiz spectrum paranoid delusions 29 Late onset psychosis >65yr with paranoid delusions 29 Schiz spectrum remitted 20 Comorbid depression and psychosis with paranoid delusions 27 Early onset <65yr depressed 29 Late onset >65yr depressed 33 <65 Healthy control 31 >65 Healthy control	60:40 beads 60:40 emotionally salient stimuli	✓
22. Roiser, Stephan, den Ouden, Barnes, Friston & Joyce (2009)	20 first episode patients with schiz spectrum 13 Delusional 17 Non-clinical controls	60:40 Beads task	X
23. Woodward, Mizrahi, Menon & Christensen (2009)	46 Schizophrenic patients	60:40 beads ratio 60:40 emotionally salient stimuli (survey)	
24. Woodward, Muntz, LeClerc & Lecomte (2009)	19 Delusions	60:40 Fish in lake ratio	✓
25. Colbert, Peters & Garety (2010)	17 1st/2nd episode of psychosis and current delusions	85:15 beads ratio 60:40 emotionally salient stimuli	X

	17 1st/2nd episode of psychosis and remitted delusions 35 Non-clinical controls		
26. Freeman, Pugh, Vorontsova, Antley & Slater (2010)	30 Non-clinical (Low paranoia) 30 Non-clinical (High paranoia) 30 Schiz spectrum with persecutory delusions	60:40 beads ratio	✓
27. Langdon, Ward & Coltheart (2010)	35 Schiz. Spectrum Patients 30 current delusions 5 history of delusions 34 Healthy controls	85:15 beads ratio	✓
28. Lincoln, Ziegler, Mehl & Rief (2010)	71 Schiz. spectrum 44 Acute delusions 27 Delusion history 68 Non-clinical controls	80:20 Beads ratio 60:40 Beads ratio Gambling condition (60:40 ratio) After-Feedback condition (60:40)	✓
29. Moritz, Veckenstedt, Hottenrott, Woodward, Randjbar & Lincoln (2010)	56 Schiz. Spectrum patients (current/history of delusions)	80:20 Fish ratio	
30. Speechley, Whitman & Woodward (2010)	5 Schiz spectrum with delusions 25 Schiz. Spectrum - nondelusional 37 Bipolar Disorder 35 Non-clinical controls	Fishing task – Ratios varied during task	
31. Dudley, Shaftoe, Cavanagh, Spencer, Ormrod, Turkington & Freeston (2011)	74 First episode psychosis 25 Current delusions 49 No current	85:15 beads ratio 60:40 beads ratio	X

	delusions		
32. Falcone et al (2011)	130 First episode psychosis 105 Non-clinical controls	85:15 beads ratio 60:40 beads ratio	✓
33. Menon, Addington & Remington (2011)	18 Schiz. Spectrum Patients with delusions of reference) 17 Non-clinical controls	60:40 Beads ratio 60:40 Emotionally salient	X
34. Ross, Freeman, Dunn & Garety (2011)	34 Schiz. spectrum – currently delusions 17 Reasoning training 17 Attention control 34 Non-clinical controls	60:40 beads ratio 85:15 beads ratio	✓
35. Waller, Freeman, Jolley, Dunn & Garety (2011)	13 psychosis patients (delusional)	60:40 beads ratio +Maudsley Review Training Programme	
36. Jacobsen, Freeman & Salkovskis (2012)	32 OCD patients 16 High conviction 16 Low conviction 16 Schiz spectrum with delusions 16 Non-clinical controls	85:15 beads ratio 60:40 beads ratio 60:40 words ratio (neutral/carelessness/social evaluation)	✓
37. So, Freeman, Dunn, Kapur, Kuipers, Bebbington, Fowler & Garety (2012)	273 Delusion patients (12 month longitudinal)	85:15 beads ratio 60:40 beads ratio 60:40 emotionally salient	
38. Jolley, Garety, Bebbington, Dunn, Freeman, Kuipers, Fowler & Hemsley (in press)	60 Psychosis patients	85:15 beads ratio 60:40 beads ratio 60:40 Emotionally salient (survey)	✓

Note: Cells left blank where the study did not report investigating an association of JTC data gathering with delusions/psychosis.

Table DS1b Non-Clinical Studies of JTC using beads task or variants

Study	Participant Groups	Task	Association of Jumping to Conclusions with delusional ideation Draws to decision
39. Colbert & Peters (2002)	17 Non-clinical (High in delusional ideation) 17 Non-clinical (Low in delusional ideation)	85:15 Beads ratio	✓
40. Freeman, Garety, Bebbington et al, 2005, (2008)	30 Non-clinical	85:15 Beads ratio	**x**
41. McKay, Langdon & Coltheart (2006)	58 Non-clinical undergraduates	85:15 beads ratio	✓
42. Warman & Martin (2006)	200 Non-Clinical undergraduates	85:15 beads ratio 85:15 emotionally salient words	✓
43. Broome, Johns, Valli, Woolley, Tabraham, Brett, Valmaggia, Peters, Garety & MacGuire (2007)	35 High risk of psychosis 23 Non-clinical controls	85:15 beads ratio 60:40 beads ratio 44:28:28 beads ratio	✓
44. Freeman, Pugh & Garety (2008)	200 Non-clinical participants	60:40 beads ratio	✓
45. Warman (2008)	35 Non-clinical (delusion prone) 35 Non-Clinical (non-delusions prone)	60:40 beads ratio 60:40 Emotionally salient	X
46. Ziegler, Rief, Werner, Mehl & Lincoln (2008)	85 Non-clinical undergraduates	80:20 beads ratio Word task – hints to guess a word Letter task – shown portions of a letter until sure Weight task –	(✓)

		compare until 2 weights the same	
47. White & Mansell (2009)	17 Delusion prone undergraduates 22 Non-clinical control undergraduates	85:15 beads ratio 60:40 beads ratio 44:28:28 beads ratio 90G:10B/50G:50B/ 90B:10G/90Y:10B beads ratio	✓
48. Bensi, Giusberti, Nori & Gambetti (2010)	140 Non-clinical	80:20 Beads ratio 60:40 Beads ratio	✓
49. Lincoln, Lange, Burau, Exner & Moritz (2010)	90 Non-clinical 45 Anxiety induction 45 No anxiety induction	80:20 Fish ratio	✓
50. Keefe & Warman (2011)	133 Non-clinical undergraduates	60:40 beads ratio Stress induction	(✓)
51. Lee, Barrowclough & Lobban (2011)	189 Non-clinical 93 Positive mood induction 96 Neutral Mood	80:20 emotionally salient stimuli Positive mood induction	✓
52. Lincoln, Salzmann, Ziegler & Westermann (2011)	92 Non-clinical (High/medium/low paranoia)	Social reasoning task (gather pieces of information about situation to make a decision)	✓
53. Rodier, Prevost, Renoult, Lionnet, Kwann, Dionne-Dostie, Chapleu & Debruille (in press)	80 Non-clinical participants	85:15 Beads ratio	✓

Table DS1c Other Probabilistic Reasoning Tasks

Study	Participant Groups	Task	Association of reasoning/ Jumping to Conclusions-type bias with delusions/ psychosis	Comments
54. Moritz & Woodward (2004)	29 Schiz. Patients (21 High delusions) 28 Non-clinical controls	Thematic Apperception Task		Patients rate both likely and unlikely explanations as high probability compared to controls
55. Merrin, Kinderman & Bentall (2007)	24 Persecutory delusions 24 Depressed patients 24 Non-clinical controls	20 Questions task	✓	Persecutory delusions < depressed < controls
56. Glockner & Moritz (2009)	37 Schizophrenic 30 Non-clinical controls	Oranges/Suspects choices – Pick 1/3 choices based on varying certainty	X, ✓	Data gathering bias not observed Bias was observed in "absolutely certain" ratings of answers. Evidence of a negative correlation between information gathering and PANSS delusion subscale
57. Moritz, Veckenstedt, Randjbar, Hottenrott, Woodward, Eckstaedt, Schmidt, Jelinek & Lincoln (2009)	27 Schiz. Patients 32 Non-clinical controls	Paintings + real/lure names + anxiety evoking music	(✓)	Patients (esp. with delusions) more likely to make decisions and judge names as more plausible. Also made more decisions when exposed to anxiety evoking music.
58. Aghotor, Pfueller, Moritz,	30 Schiz. Patients	BADE procedure		Metacognitive training

Weisbrod & Roesch-Ely (2010)	15 MCT 15 No treatment	(use of ambiguous pieces of information about a situation)		reduced both delusional symptoms and JTC at trend level
59. Galbraith, Manktelow & Morris (2010)	35 Low delusion-prone (Non-clinical) 35 High delusion-prone (Non-clinical)	Inductive reasoning task (aggressive/ nonaggressizve versions): Sample size 1 Sample size 3 Sample size 20		Delusion prone participants less likely to take sample size into account when judging likelihood of heterogeneity of new information.
60. Moritz, Schilling, Wingenfeld, Kother, Wittekind, Terfehr & Spitzer (2011)	20 Borderline personality disorder 20 Non-clinical controls	Cognitive Biases Questionnaire for psychosis (CBQp)	✓	No delusional data for patient group.
61. Veckenstedt, Randjbar, Vizthum, Hottenrott, Woodward & Moritz (2011)	55 Schiz. (32 current delusions) 20 OCD 30 Non-clinical control	BADE procedure (judgements based on sentences disambiguating a situation)	(✓)	Significant differences between schiz. and control groups – but no significant differences in reasoning between deluded and non deluded patients.

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Jumping to Conclusions – Other Probabilistic Reasoning Tasks

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