

Supplementary information

Table S1. Summary of studies included with results.

Author (year)	Patient group	Setting	Sample size	Tool used	Results (incapacity rates in %)	Notes
Grisso (1997) ³⁵	Psychiatry	IP	40	MacCAT-T	33%	Matched with controls
Grisso (1995) ³⁴	Psychiatry	IP	SZ, 75; Dep, 92	MacCAT-T	SZ, 52%; Dep, 24%	
Hoffman (1992) ¹⁷	Psychiatry	IP	60	Semi-structured interview	65%	Voluntary/incapacity, 44%; detained/incapacity, 86%
Melamed (1997) ³⁹	Psychiatry	IP	113	Competency questionnaire	75%	
Fraguas (2007) ¹²	Psychiatry	IP	160	Competency questionnaire	43.8%	
Cairns (2005) ³²	Psychiatry	IP	112	MacCAT-T	43.8%	Detained/incapacity, 61%
Owen (2009) ¹⁵	Psychiatry	IP	200	MacCAT-T	58%	Voluntary patient incapacity, 24%
Kovnick (2003) ²¹	Psychiatry	IP	27	MacCAT-CR	67%	Matched with controls
Cohen (2004) ⁹	Psychiatry	IP	SZ, 21; Dep, 22	MacCAT-CR	SZ, 100%; Dep, 41%	Matched with controls
Bean (1996) ¹⁶	Psychiatry	IP	96	CIS competency	29%	Patients referred for electroconvulsive therapy
Beckett (2006) ¹⁰	Psychiatry	IP	50	Interview, 62	62%	Mania
Kitamura (1998) ¹⁹	Psychiatry	IP	25	SICIATRI	24%	
Morris (1993) ²⁵	Psychiatry	IP	Moderate LD, 15; mild LD, 15	Vignette	Moderate LD, 40%; mild LD, 6%	Matched with controls
Billick (1996) ¹¹	Psychiatry	IP	20	Interview	25%	
Wong (2005) ³⁸	Psychiatry	IP	81	MacCAT-T	66%	
Roth (1982) ³⁰	Psychiatry	IP	57	Questionnaire	29%	ECT
Paul (1999) ²⁸	Psychiatry	IP	40	Questionnaire	95%	
Appelbaum (1981) ⁵	Psychiatry	IP	50	Interview	62%	86% for clinical criterion
Bellhouse (2003) ⁸	Psychiatry	IP	Psychosis, 12; Dep, 14	Interview	Psychosis, 50%; Dep, 14%	
Appelbaum (1998) ⁶	Psychiatry	IP	100	Vignettes	47%	
Norko (1990) ²⁷	Psychiatry	IP	100	15-item questionnaire	30%	Combined legal and clinical, 50%
Palmer (2002) ⁷	Psychiatry	OP	16	MacCAT-T	25%	Adult and older people
Dunn (2002) ²²	Psychiatry	OP	102	20-item questionnaire	80%	Matched with controls
Wong (2000) ³⁷	Psychiatry	OP	SZ, 21; Dem, 21; LD, 20	Semi-structured interview	SZ, 10%; Dem, 67%; LD, 35%	Matched with controls
Moser (2002) ¹³	Psychiatry	IP/OP	25	MacCAT-T	20%	
Dunn (2007) ²³	Psychiatry	IP/OP	91	MacCAT-CR	57%	
Candilis (2008) ²⁹	Psychiatry	IP/OP	52	MacCAT-CR	31%	Matched with controls
Vollmann (2003) ³⁶	Psychiatry	IP/OP	Dem, 31; Dep, 35; SZ, 43	MacCAT-T	Dem, 67.7; Dep, 20; SZ, 53.5	

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Table S1. (Continued)

Author (year)	Patient group	Setting	Sample size	Tool used	Results (incapacity rates in %)	Notes
Skipworth (2012) ¹⁸	Forensic psychiatry	IP/OP	109	MacCAT-T	32 %	LD/delirium/cognitive impairment excluded
Kennedy (2009) ²⁴	Forensic psychiatry	IP	88	MacCAT-T	33 %	
Gilman (2003) ³¹	Forensic psychiatry	IP	13	MacCAT	92 %	
Moser (2004) ¹⁴	Forensic psychiatry	OP/ prison	30	MacCAT-CR	3.4 %	Matched with controls
Billick (1998) ³³	CAMHS	IP	25	CQ-chp	28 %	
Maxmin (2009) ²⁰	Old-age Psychiatry	IP	99	MacCAT-T	68 %	
Mukherjee (2001) ²⁶	Old-age psychiatry	IP	65	Interview	48 %	
Ranjith (2004) ⁴⁰	Medical-liaison psychiatry	IP	31	Interview by psychiatrists	35.5 %	
Raymont (2004) ⁴	Medical	IP	302	MacCAT-T	40 %	
Grisso (1995) ³⁴	Medical	IP	82	MacCAT-T	12 %	Angina
Billick (1997) ⁵⁴	Medical	IP	100	CQ-med	4 %	Adult and old age
Etchells (1999) ⁴⁵	Medical	IP	100	Aid to capacity	30 %	
Ripley (2008) ⁵²	Medical	IP	20	Interview	47 %	
Etchells (1997) ⁴⁴	Medical	IP	48	Interview by psychiatrists	18.7 %	Excluded coma
Fassassi (2009) ⁵³	Medical	IP	195	Specific Silberfeld questionnaire	26.7 %	
Fitten (1990) ⁴⁷	Medical	IP	25	Hypothetical vignette	28 %	Matched with controls
Kitamura (1998) ¹⁹	Medical	IP	23	SICIATRI	9 %	
Barton (1996) ⁴²	Medical	IP	44	Hopkins competency assessment	45 %	Nursing home
Fitten (1990) ⁴⁶	Medical	IP	51	Vignettes	67 %	Nursing home; physicians, 23 %
Martin (2008) ⁴⁹	Medical	IP	PD with Dem, 16; PD without Dem, 16	CCTI	PD with Dem, 81 %; PD without Dem, 31 %	
Vellinga (2004) ⁵⁷	Medical	OP	80	Vignette	24 %	Physician, 4 %; family member, 28 %
Karlawish (2005) ⁴⁸	Medical	OP	48	Interviews	60 %	Mild/moderate AD, matched with controls
Okonwo (2007) ⁵⁰	Medical	OP	Mild cognitive impairment, 60; mild AD, 31	CCTI	Mild cognitive impairment, 53 %; mild AD, 100 %	
Arcscott (1999) ⁴¹	Medical	OP	40	Vignette	87.5	Learning disability

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Table S1. (Continued)

Author (year)	Patient group	Setting	Sample size	Tool used	Results (incapacity rates in %)	Notes
Dymek (2001) ⁴³	Medical	OP	20	Capacity to consent to treatment instrument	80 %	PD, old age
Triebel (2009) ⁵⁶	Medical	OP	26	CCTI	53.8 %	Glioma, matched with controls
Moser (2002) ¹³	Medical	IP/OP	25	MacCAT-T	4 %	HIV patients
Candilis (2008) ²⁹	Medical	IP/OP	51	MacCAT-CR	2 %	
Rahman (2012) ⁵¹	Medical	IP/OP	PEG, 72; IP endoscopy, 68; OP endoscopy, 69	MacCAT-T	PEG, 74 %; IP endoscopy, 22 %; OP endoscopy, 3 %	
Billick (2001) ⁵⁵	Paediatric	OP	67	CQ-peds	2.9 %	

Owen 2008⁵⁸ was not included as it does not consistently use a validated tool. However, one subgroup from this study is included in Owen 2009.¹⁵ AD = Alzheimer's disease; CAMHS = child and adolescent mental health services; CCTI = capacity to consent to treatment instrument ; CQ-chp = competency questionnaire in child psychiatry; CQ-med = competency questionnaire for consent to hospitalisation in general hospital patients ; CQ-ped = competency questionnaire for pediatric patients; Dem = dementia; Dep = depression; IP = inpatient; LD = learning disability; MacCAT-CR = MacArthur Competence Assessment Tool for Clinical Research; MacCAT-T = MacArthur Competence Assessment Tool for Treatment; OP = outpatient; PD = Parkinson's disease; SICIATRI = structured interview for competency and incompetency assessment testing and ranking inventory; SZ = schizophrenia.