

Summary of Autism Spectrum Disorder (ASD) Prevalence Studies

Author	Year published	Country	Time period studied	Age range studied	Number of children in population	Criteria used	Methodology used	ASD prevalence (CI)	IQ<70 (%)
Lotter	1966	England	1964	8 to 10	78,000	Kanner	Case enumeration and direct exam	0.45 (0.31-0.62)	84
Brask	1970	Denmark	1962	2 to 14	46,500	Kanner	Case enumeration	0.43 (0.26-0.66)	NR
Treffert	1970	USA	1962-1967	3 to 12	899,750	Kanner	Case enumeration	0.07-0.31 (0.0-1.0)	NR
Wing & Gould	1979	England	1970	0 to 14	35,000	Kanner	Case enumeration and direct exam	0.49 (0.29-0.78)	70
Hoshino et al. (1)	1982	Japan	1977	0 to 17	234,039	Kanner	Case enumeration and direct exam	0.23 (0.19-0.27)	NR
Ishii & Takahashi	1983	Japan	1981	6 to 12	35,000	Rutter	Case enumeration and direct exam	1.6 (1.2-2.8)	NR
Bohman et al.	1983	Sweden	1979	0 to 20	69,000	Rutter	Case enumeration and direct exam	0.3 (0.2-0.5)	NR
McCarthy et al.	1984	Ireland	1978	8 to 10	65,000	Kanner	Case enumeration and direct exam	0.43 (0.29-0.59)	NR
Gillberg	1984	Sweden	1980	4 to 18	128,584	DSM-III	Case enumeration and direct exam	0.20 (0.13-0.30)	80, 77
Steinhausen et al.	1986	Germany	1982	0 to 14	279,616	Rutter	Case enumeration and direct exam	0.19 (0.14-0.24)	44

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Steffenberg & Gillberg	1986	Sweden	1984	<10	78,413	DSM-III	Case enumeration and direct exam	0.45 (0.31-0.62)	NR
Matsuishi et al.	1987	Japan	1983	4 to 12	32,834	DSM-III	Case enumeration and direct exam	1.55 (1.16-1.64)	NR
Burd et al.	1987	USA	1985	2 to 18	180,986	DSM-III	Case enumeration and direct exam	0.12 (0.00-0.20)	NR
Bryson et al.	1988	Canada	1985	6 to 14	20,800	DSM-III	Case enumeration and direct exam	1.01 (0.62-1.54)	76
Tanoue et al.	1988	Japan	1977-1985	3 to 7	95,394	DSM-III	Case enumeration	1.38 (1.16-1.64)	NR
Ciadella & Mamelle	1989	France	1986	3 to 9	135,180	DSM-III	Case enumeration	0.51 (0.39-0.63)	NR
Sugiyama & Abe	1989	Japan	1979-1984	2 to 5	12,263	DSM-III	Population screen and direct exam	1.3 (0.7-2.1)	38
Ritvo et al.	1989	USA	1984-1988	8 to 12	184,822	DSM-III	Case enumeration and direct exam	0.40 (0.31-0.50)	NR
Gillberg et al.	1991	Sweden	1988	4 to 13	78,106	DSM-III-R	Case enumeration and direct exam	0.95 (0.74-1.95)	82, 80
Fombonne & Mazaubrun (1)	1992	France	1985	9 to 13	274,816	ICD-10	Case enumeration and direct exam	0.49 (0.47-0.65)	87
Honda et al.	1996	Japan	1994	1.5 to 6	8,537	ICD-10	Population screen and direct exam	2.11 (1.25-3.33)	50

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Fombonne et al.	1997	France	1992-1993	6 to 16	325,347	ICD-10	Case enumeration and direct exam	0.54 (0.46-0.62)	88
Arvidsson et al.	1997	Sweden	1994	3 to 16	1,941	ICD-10	Population screen and direct exam	3.10 (1.14-6.72)	100
Webb et al.	1997	Wales	1992	3 to 15	73,300	DSM-III-R	Case enumeration and direct exam	0.72 (0.54-0.95)	NR
Sponheim & Skjeldae	1998	Norway	1992	3 to 14	65,688	ICD-10	Case enumeration and direct exam	0.38 (0.25-0.56)	64
Kadesjo et al.	1999	Sweden	1992	6.7 to 7.7	826	ICD-10	Case enumeration and direct exam	6.0 (1.97-14.1)	60
Baird et al.	2000	England	1998	1.5 to 8	16,235	ICD-10	Population screen and direct exam	3.1 (2.29-4.06)	40
Powell et al.	2000	England	1995	1 to 4	29,200	DSM-III-R or DSM-IV	Case enumeration	0.96 (0.64-1.39)	NR
Kielinen et al.	2000	Finland	1996	5 to 18	152,732	DSM-IV	Case enumeration	1.22 (1.06-1.41)	50
Magnusson & Saemundsen	2000	Iceland	1997	5 to 14	43,153	ICD-10	Population screen and direct exam	0.86 (0.60-1.18)	49
Chakrabarti & Fombonne	2001	England	1998	2.5 to 6.5	15,500	DSM-IV	Population screen and direct exam	1.68 (1.1-2.46)	24
Fombonne et al. (2)	2001	UK	1999	5 to 15	12,529	DSM-IV	Population screen and direct exam	2.61 (1.81-3.70)	44.4

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Bertrand et al.	2001	USA	1998	3 to 10	8,996	DSM-IV	Case enumeration and direct exam	4.0 (2.8-5.5)	49
Croen et al. Yeargin-Allsopp et al. (2)	2001 2003	USA	1987-1999 1996	0 to 21 3 to 10	4,600,000 290,000	DSM-III-R or DSM-IV DSM-IV	Case enumeration Case enumeration	1.1 (1.06-1.14) 3.4 (3.2-3.6)	NR 62
Gurney et al. (2)	2003	USA	1981-1982, 2001-2002	6 to 17		DSM-IV	Case enumeration	4.4 (4.3-4.5)	NR
Lingam et al.	2003	UK	2000	5 to 14	186,206	ICD-10	Case enumeration	1.5 (1.3-1.7)	NR
Icasiano et al.	2004	Australia	2002	2 to 17	45,153	DSM-IV	Case enumeration	3.9 (3.3-4.5)	47
Lauritsen et al.	2004	Denmark	2001	0 to 9	682,397	ICD-10	Case enumeration	1.2 (1.1-1.3)	NR
Fombonne et al.	2006	Canada	1987-1998	5 to 21	27,749	DSM-IV	Case enumeration	2.16 (1.65-2.78)	NR
Baird et al.	2006	UK	1990-1991	9 to 10	56,946	ICD-10	Case enumeration, screen, and direct exam	3.89 (3.39-4.43)	56
CDC ADDM Network (1)	2007	USA	2000	8	187,761	DSM-IV	Case enumeration and record review	6.7 (6.3-7.0)	36-61
CDC ADDM Network (1)	2007	USA	2002	8	444,050	DSM-IV	Case enumeration and record review	6.6 (6.3-6.8)	45

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Oullette-Kuntz et al.	2007	Canada	1996-2004	4 to 9	2,240,537	Special education classification	Case enumeration from special education classification	1.2 (1996), 4.3 (2004)	NR
Wong et al. (1)	2008	Hong Kong	1986-2005	0 to 14	4,247,206	DSM-IV	Case enumeration	1.6 (0.8-1.0)	NR
Williams et al.	2008	Australia	2003-2004	6 to 12	5,459	DSM-IV	Questionnaires	1.0 to 4.1 (3.8-4.4)	NR
Montiel-Nava et al.	2008	Venezuela	2005-2006	3 to 9	254,905	DSM-IV	Case enumeration	1.7 (1.3-2.0)	NR
Baron-Cohen et al.	2009	UK	2003-2004	5 to 9	5,484	Needs register	Case enumeration from direct survey and exam	15.7 (9.9-24.6)	NR
CDC ADDM Network (1)	2009	USA	2004	8	172,335	DSM-IV	Case enumeration and record review	8.0 (7.6-8.4)	44
CDC ADDM Network (1)	2009	USA	2006	8	308,038	DSM-IV	Case enumeration and record review	9.0 (8.6-9.3)	41
Al-Farsi et al.	2010	Oman	2009	0 to 14	798,913	DSM-IV	Case enumeration	0.1 (0.1-0.2)	NR
Parner et al.	2011	Denmark	1994-1999		404,816	DSM-IV	Case enumeration	6.9 (6.5-7.2)	NR
Parner et al.	2011	Western Australia	1994-1999		152,060	DSM-IV	Case enumeration	5.1 (4.7-5.5)	NR
Chien et al.	2011	Taiwan	1996-2005	0 to 18	372,642	ICD-9	Case enumeration	2.9	NR

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Windham et al.	2011	USA	1994, 1996	0 to 8	82,153 (1994), 80,249 (1996)	DSM-IV	Case enumeration	4.7 (4.2-5.1) (1994); 4.7 (4.2-5.2) (1996)	NR
Kim et al.	2011	South Korea	2005-2009	7 to 12	55,266 (2002); 26,213 (2006); 29,494 (2006); 33,757 (2008)	DSM-IV ICD-9 and special education classification	Case enumeration from survey and direct exam	26.4 (19.1-33.7)	59
Zimmerman et al.	2012	USA	2002, 2006, 2008	8	7122 (2002), 7128 (2009)	DSM-IV, ICD-10	Screening and direct exam Case enumeration and record review	6.5 (2002), 10.2 (2006), 13.0 (2008)	NR
Kocovska et al.	2012	Faroe Islands	2002, 2009	7-16 (2002), 15-24 (2009)	7128 (2009)	DSM-IV, ICD-10	Screening and direct exam Case enumeration and record review	5.6 (2002), 9.4 (2009)	NR
CDC ADDM Network (1)	2012	USA	2008	8	337,093	DSM-IV	Screening and direct exam Case enumeration and record review	11.3 (11.0-11.7)	38

(1) The prevalence reported represents the average.

(2) The prevalence study provided overall rate only`