



Fluoride IQ Studies: # of participants

The following are two Tables that contain the number of participants in the fluoride IQ studies.

Table 1 contains the information from the 74 studies that found an association of fluoride exposure with the lowering of IQ. Participants included: 27,174 children and 689 adults.

Table 2 contains the information from the 8 studies that found no association of fluoride exposure and the lowering of IQ. Participants included 4,047 children and 1,037 adults (who were tested both as children and again at age 38).

TABLE 1: Number of participants in 74 studies reporting an association of fluoride exposure and the lowering of IQ

Year	IQ Study #	Lead Author	# of Children	Ages of Children	Sub-total CHILDREN	# and Ages of Adults	Sub-total ADULTS
2020	68	<u>Prabhakar</u>	120	8-10	27,174		
<i>Study available Jan 2022 on PubMed</i>							
2021	74	<u>Yani</u>	100	6 – 12	27,054		
2021	73	<u>Ren</u>				444 adults over 60 years of age	689
2021	72	<u>Wang</u>	709	6.7 – 13	26,954		
2021	71	<u>Cantoral</u>	103	12 -24 months	26,245		
2021	70	<u>Yu</u>	952	7-13	26,142		
2021	69	<u>Zhao</u>	567	6-11	25,190		

2020	67	<u>Xu</u>	633	7-13	24,623
2020	66	<u>Lou</u>	99	8-12	23,990
2019	65	<u>Till</u>	398	3 – 4	23,891
2019	64	<u>Wang</u>	571	7 – 13	23,493
2019	63	<u>Green</u>	512	3 – 4	22,922
2018	62	<u>Cui</u>	323	7 – 16	22,410
2018	61	<u>El Sehmawy</u>	1,000	4.6 – 11	22,087
2018	60	<u>Induswe</u>	269	13 – 15	21,087
2018	59	<u>Mustafa</u>	775	Primary school students	20,818
2018	58	<u>Pang</u>	268	8 – 12	20,043
2017	57	<u>Chang</u>	118	up to 12 months	19,775
2017	56	<u>Jin</u>	284	8 – 12	19,657
2017	54	<u>Razdan</u>	219	12 – 14	19,373
2018	54	<u>Yu</u>	2,886	7 – 13	19,154
2017	53	<u>Bashash</u>	299	4 and 6 – 12	16,268
2107	52	<u>Valdez Jiméñez</u>	65	3 – 15 months	15,969
2016	51	<u>Das</u>	149	6 – 18	15,904
2016	50	<u>Aravind</u>	288	10-12	15,755
2016	49	<u>Mondal</u>	40	10-14	15,467
2015	48	<u>Khan</u>	429	6 – 12	15,427
2015	47	<u>Sebastian</u>	405	10 – 12	14,998
2015	46	<u>Kundu</u>	200	8 – 12	14,593
2015	45	<u>Choi</u>	51	7.1 = Average age	14,393
2015	44	<u>Zhang</u>	180	11 = Average age	14,342

2014	43	<u>Bai</u>	303	8 – 12	14,162
2014	42	<u>Wei</u>	741	8 – 12	13,859
2013	41	<u>Nagarajappa</u>	100	8 – 10	13,118
2013	40	<u>Singh</u>	42	9 – 14	13,018
2014	39	<u>Karimzade</u>	39	9 – 12	12,976
2012	38	<u>Trivedi</u>	84	6th – 7th graders	12,937
2012	37	<u>Seraj</u>	293	6 – 11	12,853
2012	36	<u>Saxena</u>	173	5th – 6th graders	12,560
2011	35	<u>Ding</u>	331	7 – 14	12,387
2011	34	<u>Poureslami</u>	120	7 – 9	12,056
2011	33	<u>Eswar</u>	133	12 – 14	11,936
2011	32	<u>Shivaprakash</u>	160	7 – 11	11,803
2009	31	<u>Sudhir</u>	1,000	13 – 15	11,643
2009	30	<u>Li</u>	80	8 – 12	10,643
2007	29	<u>Rocha-Amador</u>	132	6 – 10	10,563
2007	28	<u>Wang</u>	720	8 – 12	10,431
2007	27	<u>Trivedi</u>	190	12 – 13	9,711
2007	26	<u>Fan</u>	79	7 – 14	9,521
2006	25	<u>Seraj</u>	126	“children” Ages not provided in English abstract	9,442
2005	24	<u>Wang</u>	226	7 – 12	9,316
2003	23	<u>Xiang</u>	512	8 – 13	9,090
2003	22	<u>Li</u>	936	6 – 13	8,578
2003	21	<u>Shao</u>			# 245 Adults: 88 Ages: 30 – 50

2001	20	<u>Wang</u>	513	8 – 12	7,642		
2001	19	<u>Hong</u>	205	8 – 14	7,129		
2000	18	<u>Lu</u>	118	10 – 12	6,924		
1998	17	<u>Zhang</u>	164	4 – 10	6,806		
1997	16	<u>Yao</u>	823	7 – 14	6,642		
1996	15	<u>Yao</u>	536	8 – 12	5,819		
1996	14	<u>Zhao</u>	320	7 – 14	5,283		
1996	13	<u>Wang</u>	230	4 – 7	4,963		
1995	12	<u>Duan</u>				#	157
						Adults:	
						157	
						Ages:	
						35 – 62	
1995	11	<u>Li</u>	907	8 – 13	4,733		
1994	10	<u>Xu</u>	330	9 – 14	3,496		
1994	9	<u>Li</u>	158	12 – 13	3,166		
1994	8	<u>Yang</u>	60	8 – 14	3,008		
1992	7	<u>An</u>	242	7 – 16	2,948		
1991	6	<u>Lin</u>	749	7 – 14	2,706		
1991	5	<u>Guo</u>	121	7 – 13	1,957		
1991	4	<u>Chen</u>	640	7 – 14	1,836		
1991	3	<u>Sun</u>	420	6.5 – 12	1,196		
1990	2	<u>Qin</u>	447	9 – 10.5	776		
1989	1	<u>Ren</u>	329	8 – 14	329		

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TABLE 2: Number of participants in 8 studies reporting NO association of fluoride exposure and the lowering of IQ

Year	IQ Study #	Lead Author	# of Children	Ages of Children	Sub-total CHILDREN	# and Ages of Adults
2019	#8	<u>Soto-Barreras</u>	161	9 – 10	4,047	

2015	#7	<u>Broadbent</u>	1,037	7 – 13	3,886	# 1,037 Age: 38
2011	#6	<u>Kang</u>	268	Not available	2,849	
2010	#5	<u>Li</u>	676	7 – 10	2,581	
2010	#4	<u>He</u>	200	8 – 12	1,905	
2000	#3	<u>Calderon</u>	61	6 – 8	1,705	
1998	#2	<u>Spittle</u>	1,265	8 – 9	1,644	
1989	#1	<u>Hu</u>	379	Not available	379	# and Ages are not available