

**Supplementary Table S2** Summary statistics for meta-analysis of DAT1 3'-UTR VNTR Long-repeat allele as risk allele versus Short-repeat allele, in all ADHD samples as well as stratified by age or ethnicity. Including heterogeneity statistics, literature bias analysis followed by Trimm and Fill corrections.

ID included	Total no. Studies included	Definition	Heterogeneity statistics (I <sup>2</sup> )				Synthesis model		Synthesis details							Begg's test					Egger's regression test (intercept)						Trim and fill correction		
			Estimate	CI-	CI+	p-value	Fixed	Random	N	OR	ci-	ci+	z	p	tau b	k	S (P-Q)	ties	z	p	coef	se	ci-	ci+	z	p	OR	ci-	ci+
1-71	71	all ADHD	54.167%	40.029%	64.972%	0	Yes	40681	1.1046	1.0309	1.1837	2.8217	0.0048	0.2016	71	502	4	2.4868	0.0129	0.8085	0.3583	0.1062	1.5107	2.2565	0.0240	1.0614	1.0186	1.1060	
28, 31, 35, 38, 46-49, 54, 56, 58, 64	12	Adult ADHD	0%	0%	58.316%	0.66306	Yes	9224	0.9618	0.8907	1.0387	-0.9920	0.3212	-0.0152	12	0	0	-0.0686	0.9453	-0.0782	0.9275	-1.8961	1.7397	-0.0843	0.9328				
28, 31, 35, 46-49, 54, 56, 58, 64	11	Adult ADHD (Excl. Gizer)	0%	0%	60.229%	0.60818	Yes	8218	0.9551	0.8813	1.0351	-1.1202	0.2627	-0.0919	0.96	-1.9697	1.79	-0.0959	0.9236	0	11	-1	0	0	1				
28, 31, 35, 46-48, 54, 58, 64	9	Adult ADHD-EU	0%	0%	64.798%	0.67386	Yes	6574	0.9227	0.8413	1.0121	-1.7050	0.0882	-0.0278	9	-2	0	-0.1043	0.9170	0.06691	1.03432	-1.96032	2.09414	0.06469	0.94842				
49, 56	2	Adult ADHD-Brazil	0%	#NV	#NV	0.61602	Yes	1644	1.0635	0.9032	1.2522	0.7386	0.4601	#NV	#NV	#NV	#NV	#NV	#NV	#NV	#NV	#NV	#NV	#NV					
1-27, 29-30, 32-34, 36-37, 39-45, 50, 53, 55, 57, 59-63, 65-71	59	Children & Adolescent ADHD	56.286%	41.498%	67.335%	0	Yes	31457	1.1602	1.0657	1.2631	3.4261	0.0006	0.2075	59	356	4	2.3215	0.0203	0.7188	0.3901	-0.0458	1.4833	1.8427	0.0654	1.1053	1.0528	1.1605	
1-2, 4-9, 11-15, 17, 19, 21-22, 24, 27, 34, 36-37, 39, 41-45, 50, 59, 62-63, 69-71	35	Children & Adolescent ADHD- Caucasian	58.517%	39.736%	71.445%	0.00001	Yes	23765	1.1310	1.0282	1.2441	2.5309	0.0114	0.1210	35	73	0	1.0225	0.3065	0.46622	0.56504	-0.64123	1.57367	0.82511	0.40931				
1-2, 4-5, 7-9, 11, 14-15, 50, 69	12	Children & Adolescent ADHD- North America	55.107%	14.073%	76.546%	0.01077	Yes	6037	1.1146	0.8995	1.3811	0.9919	0.3213	0.2273	12	16	0	1.0286	0.3037	0.95126	1.08017	-1.16584	3.06835	0.88066	0.3785				
13, 17, 19, 21-22, 24, 27, 34, 36-37, 39, 41-45, 59, 62-63, 70, 71	21	Children & Adolescent ADHD- Europe	62.116%	39.264%	76.37%	0.00009	Yes	17191	1.1661	1.0448	1.3015	2.7417	0.0061	0.1381	21	30	0	0.8757	0.3812	0.97244	0.80716	-0.60957	2.55445	1.20477	0.22829				
6, 12, 18, 33, 53	5	Children & Adolescent ADHD- Middle East	59.255%	0%	84.794%	0.04362	Yes	1249	1.0742	0.7856	1.4689	0.4486	0.6538	-0.1000	5	-2	0	-0.2450	0.8065	-2.36579	4.34956	-10.8908	6.15918	-0.54392	0.5865				
10, 30, 40, 55, 60-61, 65	7	Children & Adolescent ADHD- South America	0%	0%	70.809%	0.6861	Yes	2252	1.0573	0.8744	1.2785	0.5748	0.5654	0.1905	7	5	0	0.6008	0.5480	0.52479	0.82614	-1.09442	2.144	0.63523	0.52528				
3, 16, 20, 23, 25-26, 29, 32, 51-52, 57, 66, 68	14	Children & Adolescent ADHD- Asia	66.817%	41.829%	81.071%	0.00019	Yes	4728	1.4266	1.0211	1.9932	2.0823	0.0373	0.4176	14	39	0	2.0803	0.0375	2.57856	1.26416	0.10086	5.05627	2.03975	0.04138	1.0991	0.9240	1.3074	
3, 16, 20, 23, 25-26, 29, 32, 57, 68	10	Children & Adolescent ADHD- Chinese	66.662%	35.004%	82.9%	0.0014	Yes	3973	1.3376	0.8819	2.0290	1.3685	0.1712	0.4444	10	21	0	1.7889	0.0736	2.03517	1.51111	-0.92655	4.9969	1.34681	0.17804				
51-52, 66-67	4	Children & Adolescent ADHD- Indo-Asia	74.05%	27.469%	90.715%	0.00905	Yes	755	1.6863	0.8809	3.2281	1.5773	0.1147	0.8333	4	6	0	1.6984	0.0894	5.55301	2.19083	1.25906	9.84697	2.53466	0.01126	1.0803	0.8184	1.4261	