

Table S1. The predicted probability of ASD based on TDAS score and age.

Age (months)	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability
12	0	-4.525	0.011						
	1	-4.346	0.013	21	-0.766	0.317	41	2.814	0.943
	2	-4.167	0.015	22	-0.587	0.357	42	2.993	0.952
	3	-3.988	0.018	23	-0.408	0.399	43	3.172	0.960
	4	-3.809	0.022	24	-0.229	0.443	44	3.351	0.966
	5	-3.630	0.026	25	-0.050	0.488	45	3.530	0.972
	6	-3.451	0.031	26	0.129	0.532	46	3.709	0.976
	7	-3.272	0.037	27	0.308	0.576	47	3.888	0.980
	8	-3.093	0.043	28	0.487	0.619	48	4.067	0.983
	9	-2.914	0.051	29	0.666	0.661	49	4.246	0.986
	10	-2.735	0.061	30	0.845	0.700	50	4.425	0.988
	11	-2.556	0.072	31	1.024	0.736	51	4.604	0.990
	12	-2.377	0.085	32	1.203	0.769	52	4.783	0.992
	13	-2.198	0.100	33	1.382	0.799	53	4.962	0.993
	14	-2.019	0.117	34	1.561	0.826	54	5.141	0.994
	15	-1.840	0.137	35	1.740	0.851	55	5.320	0.995
	16	-1.661	0.160	36	1.919	0.872	56	5.499	0.996
	17	-1.482	0.185	37	2.098	0.891	57	5.678	0.997
	18	-1.303	0.214	38	2.277	0.907	58	5.857	0.997
	19	-1.124	0.245	39	2.456	0.921	59	6.036	0.998
	20	-0.945	0.280	40	2.635	0.933	60	6.215	0.998
24	0	-3.709	0.024						
	1	-3.530	0.028	21	0.050	0.512	41	3.630	0.974
	2	-3.351	0.034	22	0.229	0.557	42	3.809	0.978
	3	-3.172	0.040	23	0.408	0.601	43	3.988	0.982
	4	-2.993	0.048	24	0.587	0.643	44	4.167	0.985

Age (months)	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability
	5	-2.814	0.057	25	0.766	0.683	45	4.346	0.987
	6	-2.635	0.067	26	0.945	0.720	46	4.525	0.989
	7	-2.456	0.079	27	1.124	0.755	47	4.704	0.991
	8	-2.277	0.093	28	1.303	0.786	48	4.883	0.992
	9	-2.098	0.109	29	1.482	0.815	49	5.062	0.994
	10	-1.919	0.128	30	1.661	0.840	50	5.241	0.995
	11	-1.740	0.149	31	1.840	0.863	51	5.420	0.996
	12	-1.561	0.174	32	2.019	0.883	52	5.599	0.996
	13	-1.382	0.201	33	2.198	0.900	53	5.778	0.997
	14	-1.203	0.231	34	2.377	0.915	54	5.957	0.997
	15	-1.024	0.264	35	2.556	0.928	55	6.136	0.998
	16	-0.845	0.300	36	2.735	0.939	56	6.315	0.998
	17	-0.666	0.339	37	2.914	0.949	57	6.494	0.998
	18	-0.487	0.381	38	3.093	0.957	58	6.673	0.999
	19	-0.308	0.424	39	3.272	0.963	59	6.852	0.999
	20	-0.129	0.468	40	3.451	0.969	60	7.031	0.999
36	0	-2.893	0.053						
	1	-2.714	0.062	21	0.866	0.704	41	4.446	0.988
	2	-2.535	0.073	22	1.045	0.740	42	4.625	0.990
	3	-2.356	0.087	23	1.224	0.773	43	4.804	0.992
	4	-2.177	0.102	24	1.403	0.803	44	4.983	0.993
	5	-1.998	0.119	25	1.582	0.829	45	5.162	0.994
	6	-1.819	0.140	26	1.761	0.853	46	5.341	0.995
	7	-1.640	0.162	27	1.940	0.874	47	5.520	0.996
	8	-1.461	0.188	28	2.119	0.893	48	5.699	0.997
	9	-1.282	0.217	29	2.298	0.909	49	5.878	0.997
	10	-1.103	0.249	30	2.477	0.923	50	6.057	0.998
	11	-0.924	0.284	31	2.656	0.934	51	6.236	0.998

Age (months)	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability
	12	-0.745	0.322	32	2.835	0.945	52	6.415	0.998
	13	-0.566	0.362	33	3.014	0.953	53	6.594	0.999
	14	-0.387	0.404	34	3.193	0.961	54	6.773	0.999
	15	-0.208	0.448	35	3.372	0.967	55	6.952	0.999
	16	-0.029	0.493	36	3.551	0.972	56	7.131	0.999
	17	0.150	0.537	37	3.730	0.977	57	7.310	0.999
	18	0.329	0.582	38	3.909	0.980	58	7.489	0.999
	19	0.508	0.624	39	4.088	0.984	59	7.668	1.000
	20	0.687	0.665	40	4.267	0.986	60	7.847	1.000
48	0	-2.077	0.111						
	1	-1.898	0.130	21	1.682	0.843	41	5.262	0.995
	2	-1.719	0.152	22	1.861	0.865	42	5.441	0.996
	3	-1.540	0.177	23	2.040	0.885	43	5.620	0.996
	4	-1.361	0.204	24	2.219	0.902	44	5.799	0.997
	5	-1.182	0.235	25	2.398	0.917	45	5.978	0.997
	6	-1.003	0.268	26	2.577	0.929	46	6.157	0.998
	7	-0.824	0.305	27	2.756	0.940	47	6.336	0.998
	8	-0.645	0.344	28	2.935	0.950	48	6.515	0.999
	9	-0.466	0.386	29	3.114	0.957	49	6.694	0.999
	10	-0.287	0.429	30	3.293	0.964	50	6.873	0.999
	11	-0.108	0.473	31	3.472	0.970	51	7.052	0.999
	12	0.071	0.518	32	3.651	0.975	52	7.231	0.999
	13	0.250	0.562	33	3.830	0.979	53	7.410	0.999
	14	0.429	0.606	34	4.009	0.982	54	7.589	0.999
	15	0.608	0.647	35	4.188	0.985	55	7.768	1.000
	16	0.787	0.687	36	4.367	0.987	56	7.947	1.000
	17	0.966	0.724	37	4.546	0.990	57	8.126	1.000
	18	1.145	0.759	38	4.725	0.991	58	8.305	1.000

Age (months)	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability	TDAS Score	Z	Predicted Probability
	19	1.324	0.790	39	4.904	0.993	59	8.484	1.000
	20	1.503	0.818	40	5.083	0.994	60	8.663	1.000

$$Z = -5.341 + 0.179(\text{TDAS}) + 0.068(\text{Age})$$

The formula to predict the probability of ASD based to these variables is defined as follows:

$$\text{Pr(ASD)} = e^z / (1 + e^z) = e^{-5.341 + 0.179(\text{TDAS}) + 0.068(\text{Age})} / (1 + e^{-5.341 + 0.179(\text{TDAS}) + 0.068(\text{Age})}),$$

where Pr(ASD) is the probability of ASD, TDAS is the TDAS score (ranged from 0–60), and Age is the age of the child suspected of having ASD (months).