

Table S1. Classification of mothers' country of birth by United Nation Human Development Index (HDI) quartiles and in the HDI variable used in the study.

Mothers' countries of birth	HDI quartiles	HDI variable used in the study
Italy (384)		Italy (384)
Belgium(1), France(1), Poland(3), San Marino(2), Spain(1), Hungary(1), Slovenia(2), Japan(1), Cuba(1), USA(4), Argentina(1), Chile(1)	Very High HDI (19)	
Albania(3), Bulgaria(1), Romania(31), Ukraine(2), Macedonia(1), Montenegro(1), Serbia(1), Kosovo(3), Sri Lanka(1), China(3), Iran(1), Thailand(1), Algeria(1), Tunisia(4), Costa Rica(1), Dominican Republic(1), Brazil(5), Colombia(2), Ecuador(4), Peru(1)	High HDI (68)	High HDI (87)
Moldova(7), Bangladesh(9), Philippines(5), Egypt(1), Morocco(10), Paraguay(2)	Medium HDI (34)	
Pakistan(10), Côte d'Ivoire(1), Cameroon(1), Ethiopia(4), Nigeria(6), Senegal(2), Eritrea(1)	Low HDI (25)	Low HDI (59)

Number of preterm infants is reported in brackets.

Table S2. Stata output of the mixed effects model on the GMDS-R general quotient.

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Multiple-imputation estimates      Imputations      =      10
Mixed-effects REML regression     Number of obs    =      2,728

Group variable: ID                Number of groups =      525
                                   Obs per group:
                                   min =      1
                                   avg =      5.2
                                   max =      6
                                   Average RVI      =      0.0031
                                   Largest FMI       =      0.1155
DF adjustment: Large sample       DF: min          =      704.37
                                   avg              =      5.11e+11
                                   max              =      1.15e+13
Model F test: Equal FMI           F( 59, 5.3e+07) =      27.03
                                   Prob > F         =      0.0000

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-
Interval]
-----+-----
-
      time |
      6 | -6.344738  1.071653  -5.92  0.000  -8.445139  -
4.244337
      9 | -8.541277  1.156979  -7.38  0.000  -10.80891  -
6.273639
     12 | -12.38089  1.167665 -10.60  0.000  -14.66947  -
10.09231
     18 | -20.48051  1.373612 -14.91  0.000  -23.17274  -
17.78828
     24 | -20.00076  1.632237 -12.25  0.000  -23.19988  -
16.80163
      |
      HDI |
      1 | -.7793688  2.505959  -0.31  0.756  -5.690963
4.132225
      2 | -.0028258  2.833575  -0.00  0.999  -5.556562
5.550911
      |
time#HDI |
      6 1 | -.4655794  2.440577  -0.19  0.849  -5.249022
4.317863
      6 2 | -5.276194  2.773062  -1.90  0.057  -
10.7113
      .158908
      9 1 |  2.912412  2.662663   1.09  0.274  -2.306311
8.131135
      9 2 | -4.060886  2.965167  -1.37  0.171  -9.872507
1.750734

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7.378079	12 1		1.995152	2.746442	0.73	0.468	-3.387775	
10.85383	12 2		-4.927323	3.023782	-1.63	0.103	-	
4.104379	.9991802							
4.267423	18 1		-1.908322	3.067761	-0.62	0.534	-7.921023	
5.220022	18 2		-11.36322	3.62037	-3.14	0.002	-18.45901	-
9.461652	24 1		-2.146221	3.758357	-0.57	0.568	-9.512465	
4.031245	24 2		-18.53784	4.630796	-4.00	0.000	-27.61404	-
5.018917								
	diet1							
4.031245	human only		1.055811	1.518102	0.70	0.487	-1.919623	
5.018917	mixed		2.221134	1.427456	1.56	0.120	-.5766479	
	time#diet1							
1.635448	6#human only		-1.244334	1.469304	-0.85	0.397	-4.124117	
2.62541	6#mixed		-.0647102	1.372535	-0.05	0.962	-2.75483	
4.852037	9#human only		1.782018	1.566365	1.14	0.255	-1.288001	
3.540649	9#mixed		.6302739	1.484913	0.42	0.671	-2.280101	
4.754992	12#human only		1.616673	1.601212	1.01	0.313	-1.521646	
2.414889	12#mixed		-.5060022	1.490278	-0.34	0.734	-3.426893	
5.85004	18#human only		2.130728	1.897643	1.12	0.262	-1.588584	
4.306414	18#mixed		.86629	1.755198	0.49	0.622	-2.573834	
7.556664	24#human only		3.17308	2.236564	1.42	0.156	-1.210504	
3.473907	24#mixed		-.5942361	2.075621	-0.29	0.775	-4.662379	
	HDI#diet1							
4.818143	1#human only		-2.887416	3.931479	-0.73	0.463	-10.59298	
3.509149	1#mixed		-2.636768	3.135723	-0.84	0.400	-8.782685	
8.710604	2#human only		.4494644	4.214942	0.11	0.915	-7.811676	
6.437363	2#mixed		-.8150445	3.700253	-0.22	0.826	-8.067452	
	time#HDI#diet1							
9.892632	6#1#human only		2.419042	3.813126	0.63	0.526	-5.054548	
5.536251	6#1#mixed		-.4846477	3.071944	-0.16	0.875	-6.505547	
12.05715	6#2#human only		3.805156	4.210278	0.90	0.366	-4.446837	
9.526417	6#2#mixed		2.418798	3.626403	0.67	0.505	-4.68882	
10.41495	9#1#human only		2.27323	4.154013	0.55	0.584	-5.868486	
2.743737	9#1#mixed		-3.777473	3.327209	-1.14	0.256	-10.29868	
12.31391	9#2#human only		3.599026	4.446451	0.81	0.418	-5.115859	
14.91872	9#2#mixed		7.222481	3.926727	1.84	0.066	-.4737622	

12#1#human only		-2.799876	4.230407	-0.66	0.508	-11.09132	
5.49157							
12#1#mixed		-2.05318	3.428438	-0.60	0.549	-8.772795	
4.666435							
12#2#human only		3.702878	4.58873	0.81	0.420	-5.290867	
12.69662							
12#2#mixed		4.526052	3.990144	1.13	0.257	-3.294486	
12.34659							
18#1#human only		2.753109	4.873975	0.56	0.572	-6.799706	
12.30592							
18#1#mixed		-2.989632	3.893677	-0.77	0.443	-10.6211	
4.641835							
18#2#human only		3.822159	5.456894	0.70	0.484	-6.873157	
14.51747							
18#2#mixed		7.126522	4.710379	1.51	0.130	-2.105652	
16.3587							
24#1#human only		4.087615	5.880167	0.70	0.487	-7.437301	
15.61253							
24#1#mixed		.2018803	4.690501	0.04	0.966	-8.991333	
9.395093							
24#2#human only		7.676563	6.673235	1.15	0.250	-5.402737	
20.75586							
24#2#mixed		8.661622	5.820847	1.49	0.137	-2.747028	
20.07027							
smoker		-3.987292	1.268059	-3.14	0.002	-6.476921	-
1.497664							
IVH_PVL		-12.48822	1.597322	-7.82	0.000	-15.61892	-
9.357518							
MV		-2.626645	1.020449	-2.57	0.010	-4.626693	
-.626597							
BPD		-3.891083	1.093606	-3.56	0.000	-6.034512	-
1.747654							
sepsis		-4.090452	1.201381	-3.40	0.001	-6.445129	-
1.735774							
SGA_d		-2.104306	.878012	-2.40	0.017	-3.825264	
-.3833478							
_cons		117.2759	1.358554	86.32	0.000	114.6131	
119.9387							

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Random-effects Parameters		Estimate	Std. Err.	[95% Conf. Interval]	
ID: Unstructured					
sd(time)		.573622	.0304697	.516906	.6365611
sd(_cons)		8.316654	.4381604	7.500726	9.221339
corr(time,_cons)		-.3917204	.0590842	-.5009875	-.2701611
sd(Residual)		7.056268	.1238155	6.81772	7.303163

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Table S3A. Stata output of the mixed effects model on GMDS-R subscales. Locomotor Scale.

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Multiple-imputation estimates          Imputations          =          10
Mixed-effects REML regression        Number of obs        =          2,744

Group variable: ID                   Number of groups     =          529
                                      Obs per group:
                                      min =              1
                                      avg =              5.2
                                      max =              6
                                      Average RVI         =          0.0001
                                      Largest FMI         =          0.0027
DF adjustment:   Large sample        DF:   min           = 1263375.43
                                      avg           = 3.43e+16
                                      max           = 4.18e+17
Model F test:      Equal FMI         F( 57, 1.3e+11)     = 13.99
                                      Prob > F        = 0.0000
  
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-
Interval] LOC |      Coef.  Std. Err.   t    P>|t|    [95% Conf.
-----+-----
-
      time |
      6 | -7.139282  1.774355   -4.02  0.000   -10.61695  -
3.66161
      9 | -8.290264  1.905872   -4.35  0.000   -12.02571  -
4.554823
     12 | -13.86294  1.909692   -7.26  0.000   -17.60587  -
10.12001
     18 | -19.57883  2.211935   -8.85  0.000   -23.91414  -
15.24352
     24 | -12.14775  2.593789   -4.68  0.000   -17.23148  -
7.064019
      |
      HDI |
      1 |  .3462021  3.825609    0.09  0.928   -7.151853
7.844257
      2 |  -.858729  4.206073   -0.20  0.838   -9.102481
7.385023
      |
      time#HDI |
      6 1 |  3.911392  4.049143    0.97  0.334   -4.024782
11.84757
      6 2 | -3.207714  4.490205   -0.71  0.475   -12.00835
5.592927
      9 1 |  8.32548  4.406245    1.89  0.059   -.3106022
16.96156
      9 2 | -3.379668  4.774353   -0.71  0.479   -12.73723
5.977893
     12 1 |  1.851501  4.510261    0.41  0.681   -6.988447
10.69145
     12 2 |  .7158968  4.89376    0.15  0.884   -8.875696
10.30749
     18 1 |  .6857454  4.956212    0.14  0.890   -9.028253
10.39974
     18 2 |  1.457727  5.694912    0.26  0.798   -9.704095
12.61955
     24 1 |  -.3551598  6.006054   -0.06  0.953   -12.12681
11.41649
     24 2 |  -4.91378  7.171848   -0.69  0.493   -18.97034
9.142783
      |
      diet1 |
      human only |  3.47794  2.281353    1.52  0.127   -.9934303
7.949309
      mixed |  6.298741  2.149196    2.93  0.003    2.086394
10.51109
  
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time#diet1						
6#human only		-3.243259	2.436406	-1.33	0.183	-8.018527
1.532008						
6#mixed		-2.584794	2.27375	-1.14	0.256	-7.041262
1.871674						
9#human only		-2.927263	2.579997	-1.13	0.257	-7.983965
2.129439						
9#mixed		-1.935489	2.449283	-0.79	0.429	-6.735995
2.865016						
12#human only		-1.034866	2.621722	-0.39	0.693	-6.173348
4.103615						
12#mixed		-3.487032	2.439121	-1.43	0.153	-8.267621
1.293557						
18#human only		3.106451	3.059653	1.02	0.310	-2.890358
9.10326						
18#mixed		-3.84435	2.829924	-1.36	0.174	-9.390899
1.702199						
24#human only		1.708397	3.558246	0.48	0.631	-5.265637
8.682432						
24#mixed		-.5692853	3.303158	-0.17	0.863	-7.043357
5.904786						
HDI#diet1						
1#human only		-6.777543	5.898324	-1.15	0.251	-18.33805
4.78296						
1#mixed		-5.25821	4.77708	-1.10	0.271	-14.62112
4.104695						
2#human only		5.793859	6.368265	0.91	0.363	-6.68771
18.27543						
2#mixed		-4.386158	5.548537	-0.79	0.429	-15.26109
6.488775						
time#HDI#diet1						
6#1#human only		3.553614	6.284598	0.57	0.572	-8.763972
15.8712						
6#1#mixed		-1.870887	5.09694	-0.37	0.714	-11.86071
8.118932						
6#2#human only		4.879258	6.916061	0.71	0.481	-8.675973
18.43449						
6#2#mixed		7.066862	5.936764	1.19	0.234	-4.568982
18.70271						
9#1#human only		5.827908	6.818164	0.85	0.393	-7.535447
19.19126						
9#1#mixed		-9.900993	5.506724	-1.80	0.072	-
20.69397	.8919889					
9#2#human only		4.769839	7.269244	0.66	0.512	-9.477618
19.0173						
9#2#mixed		8.919631	6.399384	1.39	0.163	-3.622931
21.46219						
12#1#human only		5.107753	6.824999	0.75	0.454	-8.268999
18.48451						
12#1#mixed		-2.426686	5.628144	-0.43	0.666	-13.45765
8.604273						
12#2#human only		-.2769439	7.486873	-0.04	0.970	-14.95095
14.39706						
12#2#mixed		6.442035	6.503285	0.99	0.322	-6.304169
19.18824						
18#1#human only		2.26292	7.795521	0.29	0.772	-13.01602
17.54186						
18#1#mixed		-2.316496	6.293707	-0.37	0.713	-14.65194
10.01894						
18#2#human only		-7.141149	8.720925	-0.82	0.413	-24.23385
9.951551						
18#2#mixed		-.036194	7.508445	-0.00	0.996	-14.75247
14.68009						
24#1#human only		.8305805	9.147917	0.09	0.928	-17.09901
18.76017						

24#1#mixed		2.249879	7.507141	0.30	0.764	-12.46385	
16.9636							
24#2#human only		-1.852988	10.50519	-0.18	0.860	-22.44278	
18.7368							
24#2#mixed		-1.024116	9.15989	-0.11	0.911	-18.97717	
16.92894							
11.71242	IVH_PVL		-15.96289	2.168648	-7.36	0.000	-20.21336 -
1.412458	MV		-4.172142	1.408028	-2.96	0.003	-6.931825 -
3.348291	BPD		-6.293048	1.502455	-4.19	0.000	-9.237805 -
11.71242	SGA_d		-3.057648	1.209028	-2.53	0.011	-5.427302
114.6869	_cons		110.8231	1.971368	56.22	0.000	106.9593

Random-effects Parameters		Estimate	Std. Err.	[95% Conf. Interval]	
ID: Unstructured					
	sd(time)		.8846789	.0487554	.7941001 .9855895
	sd(_cons)		11.89451	.6725826	10.64669 13.28857
	corr(time,_cons)		-.4923195	.0549062	-.5922726 -.3774435
	sd(Residual)		11.77377	.2033695	11.38184 12.17919

Table S3B. Stata output of the mixed effects model on GMDS-R subscales. Personal-Social Scale.

Multiple-imputation estimates		Imputations	=	10
Mixed-effects REML regression		Number of obs	=	2,728
Group variable: ID		Number of groups	=	524
		Obs per group:		
		min	=	1
		avg	=	5.2
		max	=	6
		Average RVI	=	0.0044
		Largest FMI	=	0.1909
DF adjustment: Large sample		DF: min	=	263.69
		avg	=	2.20e+11
		max	=	2.72e+12
Model F test: Equal FMI		F(59, 2.6e+07)	=	20.39
		Prob > F	=	0.0000

PS	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
time						
6		-6.523389	1.591315	-4.10	0.000	-9.64231 -
3.404468						
9		-8.314557	1.699285	-4.89	0.000	-11.64509 -
4.984021						
12		-15.51657	1.676277	-9.26	0.000	-18.80201 -
12.23113						
18		-21.87697	1.884812	-11.61	0.000	-25.57113 -
18.18281						
24		-20.45363	2.149559	-9.52	0.000	-24.66668 -
16.24057						
HDI						

4.411313	1		-1.686026	3.110943	-0.54	0.588	-7.783365	
8.182858	2		1.333447	3.494656	0.38	0.703	-5.515964	
	time#HDI							
7.600732	6 1		.5210669	3.61214	0.14	0.885	-6.558598	
2.023594	6 2		-6.064314	4.12656	-1.47	0.142	-14.15222	
10.92621	9 1		3.245358	3.918872	0.83	0.408	-4.435489	
1.374723	9 2		-9.92819	4.364094	-2.27	0.023	-18.48166	-
5.434915	12 1		-2.305711	3.949371	-0.58	0.559	-10.04634	
1.099734	12 2		-9.590649	4.332179	-2.21	0.027	-18.08156	-
2.925217	18 1		-5.299456	4.196339	-1.26	0.207	-13.52413	
9.394359	18 2		-19.11891	4.961597	-3.85	0.000	-28.84346	-
6.741089	24 1		-2.969285	4.954364	-0.60	0.549	-12.67966	
12.75808	24 2		-24.86857	6.178939	-4.02	0.000	-36.97907	-
	diet1							
5.116755	human only		1.425511	1.883321	0.76	0.449	-2.265732	
6.497951	mixed		3.026296	1.771278	1.71	0.088	-.4453592	
	time#diet1							
4.491469	6#human only		.2077452	2.185614	0.10	0.924	-4.075979	
4.2794	6#mixed		.287854	2.036541	0.14	0.888	-3.703692	
8.89224	9#human only		4.383349	2.300496	1.91	0.057	-.1255409	
6.561371	9#mixed		2.289723	2.179452	1.05	0.293	-1.981924	
7.315705	12#human only		2.809775	2.298986	1.22	0.222	-1.696154	
2.537644	12#mixed		-1.650678	2.136938	-0.77	0.440	-5.839	
8.630814	18#human only		3.530278	2.602362	1.36	0.175	-1.570258	
7.232283	18#mixed		2.515355	2.40664	1.05	0.296	-2.201572	
8.280082	24#human only		2.519921	2.938912	0.86	0.391	-3.24024	
3.456111	24#mixed		-1.895397	2.730412	-0.69	0.488	-7.246906	
	HDI#diet1							
7.802156	1#human only		-1.747983	4.872609	-0.36	0.720	-11.29812	
6.320454	1#mixed		-1.307176	3.891714	-0.34	0.737	-8.934806	
6.901883	2#human only		-3.355127	5.233264	-0.64	0.521	-13.61214	
3.955383	2#mixed		-5.010261	4.574383	-1.10	0.273	-13.9759	
	time#HDI#diet1							
13.70697	6#1#human only		2.617497	5.658	0.46	0.644	-8.471979	

6#1#mixed		-1.750733	4.545634	-0.39	0.700	-10.66001	
7.158546							
6#2#human only		7.898503	6.247673	1.26	0.206	-4.346712	
20.14372							
6#2#mixed		5.751487	5.391027	1.07	0.286	-4.814731	
16.31771							
9#1#human only		8.066167	6.1045	1.32	0.186	-3.898433	
20.03077							
9#1#mixed		-7.738351	4.894882	-1.58	0.114	-17.33214	
1.855441							
9#2#human only		.8017342	6.535125	0.12	0.902	-12.00688	
13.61034							
9#2#mixed		11.66202	5.772965	2.02	0.043	.3472124	
22.97682							
12#1#human only		-.0979095	6.074539	-0.02	0.987	-12.00379	
11.80797							
12#1#mixed		2.244936	4.923718	0.46	0.648	-7.405373	
11.89525							
12#2#human only		7.716577	6.581265	1.17	0.241	-5.182465	
20.61562							
12#2#mixed		10.33765	5.727759	1.80	0.071	-.8885497	
21.56385							
18#1#human only		7.326048	6.676339	1.10	0.273	-5.759336	
20.41143							
18#1#mixed		-5.924937	5.334076	-1.11	0.267	-16.37953	
4.52966							
18#2#human only		10.19782	7.490839	1.36	0.173	-4.483959	
24.87959							
18#2#mixed		11.02858	6.470472	1.70	0.088	-1.653309	
23.71047							
24#1#human only		8.795949	7.670875	1.15	0.252	-6.23869	
23.83059							
24#1#mixed		1.662176	6.190905	0.27	0.788	-10.47177	
13.79613							
24#2#human only		9.656661	8.852423	1.09	0.275	-7.693769	
27.00709							
24#2#mixed		18.59837	7.76276	2.40	0.017	3.383643	
33.8131							
smoker		-3.470137	1.468933	-2.36	0.019	-6.362467	
-.5778071							
IVH_PVL		-9.679991	1.752659	-5.52	0.000	-13.11514	-
6.244839							
BPD		-3.52203	1.093494	-3.22	0.001	-5.665239	-
1.37882							
sepsis		-4.255378	1.303534	-3.26	0.001	-6.810263	-
1.700494							
SGA_d		-2.428062	.9678946	-2.51	0.012	-4.325121	
-.5310028							
quinq		-3.15177	.937131	-3.36	0.001	-4.988527	-
1.315013							
_cons		119.8464	1.687755	71.01	0.000	116.5384	
123.1544							

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
ID: Unstructured				
sd(time)	.6622323	.0433473	.5824972	.7528819
sd(_cons)	7.736549	.6399676	6.578633	9.098272
corr(time,_cons)	-.3492937	.0845689	-.503082	-.1740636
sd(Residual)	10.60765	.184657	10.25183	10.97581

Table S3C. Stata output of the mixed effects model on GMD5-R subscales. Eye-Hand Coordination Scale.

```

Multiple-imputation estimates          Imputations          =          10
Mixed-effects REML regression        Number of obs         =         2,541

Group variable: ID                    Number of groups     =          475
                                      Obs per group:
                                      min =              1
                                      avg =              5.3
                                      max =              6
                                      Average RVI         =          0.0055
                                      Largest FMI         =          0.2188
DF adjustment:   Large sample         DF:   min           =          201.90
                                      avg           =         6.33e+11
                                      max           =         1.10e+13
Model F test:       Equal FMI         F( 62, 1.9e+07)     =          12.41
                                      Prob > F         =          0.0000

```

```

-----
-
      EH |      Coef.  Std. Err.   t    P>|t|    [95% Conf.
Interval]-----+-----
-
      time |
      6 | -5.510339  1.738407   -3.17  0.002   -8.917554  -
2.103123
      9 | -4.26504   1.786647   -2.39  0.017   -7.766803
-.7632774
      12 | -6.972004  1.754693   -3.97  0.000  -10.41114  -
3.53287
      18 | -9.594176  1.826629   -5.25  0.000  -13.1743  -
6.014049
      24 | -14.33587  1.910672   -7.50  0.000  -18.08072  -
10.59102
      |
      HDI |
      1 |  1.155547  3.492995    0.33  0.741   -5.690604
8.001697
      2 |  4.050215  3.880017    1.04  0.297   -3.554495
11.65492
      |
      time#HDI |
      6 1 | -5.988614  3.939305   -1.52  0.128  -13.70951
1.732283
      6 2 | -14.76383  4.424542   -3.34  0.001  -23.43577  -
6.091889
      9 1 |  -.8021518  4.08086   -0.20  0.844   -8.80049
7.196186
      9 2 | -14.49355  4.53906   -3.19  0.001  -23.38995  -
5.59716
      12 1 | -4.152214  4.093963   -1.01  0.310  -12.17623
3.871806
      12 2 | -8.298451  4.432905   -1.87  0.061  -
16.98678
      .389883
      18 1 |  -6.64392  4.060082   -1.64  0.102  -14.60153
1.313694
      18 2 | -17.80444  4.717945   -3.77  0.000  -27.05144  -
8.557437
      24 1 | -3.565788  4.323227   -0.82  0.409  -12.03916
4.907581
      24 2 | -17.8318   5.54517   -3.22  0.001  -28.70013  -
6.963463
      |
      diet1 |

```

5.375935	human only		1.202736	2.129214	0.56	0.572	-2.970463
6.668723	mixed		2.685745	2.03215	1.32	0.186	-1.297232
8.937685	time#diet1						
3.333584	6#human only		-4.317686	2.357185	-1.83	0.067	-
5.605222	6#mixed		-1.023223	2.222901	-0.46	0.645	-5.380029
3.467048	9#human only		.8901944	2.40567	0.37	0.711	-3.824833
5.077568	9#mixed		-1.017061	2.287853	-0.44	0.657	-5.50117
6.174668	12#human only		1.535703	2.366862	0.65	0.516	-3.103261
4.608254	12#mixed		.2326007	2.232517	0.10	0.917	-4.143052
6.637111	18#human only		.2105572	2.483214	0.08	0.932	-4.656453
2.208807	18#mixed		-.2999956	2.330451	-0.13	0.898	-4.867595
	24#human only		1.609329	2.565242	0.63	0.530	-3.418453
	24#mixed		-2.544755	2.425331	-1.05	0.294	-7.298317
9.088481	HDI#diet1						
8.409161	1#human only		-1.495292	5.399983	-0.28	0.782	-12.07906
6.383081	1#mixed		-.1980436	4.391507	-0.05	0.964	-8.805248
6.279718	2#human only		-5.263405	5.942193	-0.89	0.376	-16.90989
	2#mixed		-3.915471	5.201717	-0.75	0.452	-14.11066
18.41994	time#HDI#diet1						
13.70748	6#1#human only		6.557565	6.052344	1.08	0.279	-5.304811
26.04365	6#1#mixed		3.91632	4.995582	0.78	0.433	-5.874841
22.87404	6#2#human only		12.58583	6.866361	1.83	0.067	-.8719909
14.81393	6#2#mixed		11.24913	5.931187	1.90	0.058	-.3757842
8.315669	9#1#human only		2.376435	6.345778	0.37	0.708	-10.06106
32.1012	9#1#mixed		-1.704345	5.112346	-0.33	0.739	-11.72436
29.67898	9#2#human only		18.67029	6.852628	2.72	0.006	5.23939
9.998444	9#2#mixed		17.77656	6.072776	2.93	0.003	5.874139
12.94135	12#1#human only		-2.137225	6.191782	-0.35	0.730	-14.2729
12.94135	12#1#mixed		2.819651	5.164227	0.55	0.585	-7.302048
24.93006	12#2#human only		11.58123	6.810752	1.70	0.089	-1.7676
17.06209	12#2#mixed		5.296936	6.00274	0.88	0.378	-6.468217
18.80647	18#1#human only		6.401122	6.329376	1.01	0.312	-6.004227
11.04107	18#1#mixed		.7561749	5.24749	0.14	0.885	-9.528717
25.48799	18#2#human only		11.10995	7.335867	1.51	0.130	-3.268084

18#2#mixed		16.54904	6.28993	2.63	0.009	4.221003	
28.87708							
24#1#human only		2.286053	6.622283	0.35	0.730	-10.69338	
15.26549							
24#1#mixed		-1.012216	5.476767	-0.18	0.853	-11.74648	
9.72205							
24#2#human only		11.92382	8.035198	1.48	0.138	-3.824878	
27.67252							
24#2#mixed		12.63379	7.063265	1.79	0.074	-1.209951	
26.47754							
smoker		-4.328528	1.888435	-2.29	0.023	-8.052112	
-.604944							
GA_cl							
<28 w		.1259958	1.423254	0.09	0.929	-2.663539	
2.91553							
32-35 w		3.34164	1.678774	1.99	0.047	.0512915	
6.631988							
IVH_PVL		-19.2095	2.090923	-9.19	0.000	-23.30769	-
15.11131							
MV		-3.477572	1.30439	-2.67	0.008	-6.034131	
-.9210126							
BPD		-3.774626	1.539352	-2.45	0.014	-6.791703	
-.757548							
sepsis		-3.270811	1.487854	-2.20	0.028	-6.186966	
-.3546568							
SGA_b		-3.063516	1.383196	-2.21	0.027	-5.774597	
-.3524355							
quinq		2.974948	1.021697	2.91	0.004	.9724371	
4.977458							
_cons		112.1159	1.759868	63.71	0.000	108.6665	
115.5653							

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
ID: Unstructured				
sd(time)	.3139868	.0653715	.2087818	.4722046
sd(_cons)	8.908586	.6779664	7.674114	10.34164
corr(time,_cons)	-.2917493	.1505491	-.5532148	.0220441
sd(Residual)	11.26764	.200991	10.88051	11.66854

Table S3D. Stata output of the mixed effects model on GMDS-R subscales. Hearing-Language Scale.

Multiple-imputation estimates	Imputations	=	10
Mixed-effects REML regression	Number of obs	=	2,558
Group variable: ID	Number of groups	=	480
	Obs per group:		
	min =		1
	avg =		5.3
	max =		6
	Average RVI	=	0.0000
	Largest FMI	=	0.0000
DF adjustment: Large sample	DF: min	=	.
	avg	=	.
	max	=	.
Model F test: Equal FMI	F(56, .)	=	27.59
	Prob > F	=	0.0000

	HL	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]

	time					
7.032364	6	4.248814	1.420205	2.99	0.003	1.465264
5.093729	9	-8.040048	1.503252	-5.35	0.000	-10.98637 -
7.769528	12	-10.81666	1.554688	-6.96	0.000	-13.86379 -
18.05225	18	-21.63306	1.826979	-11.84	0.000	-25.21387 -
20.6003	24	-24.85102	2.168775	-11.46	0.000	-29.10174 -

	HDI					
1.448673	1	-4.015628	2.78796	-1.44	0.150	-9.479929
3.406045	2	-2.529788	3.028542	-0.84	0.404	-8.465621

	time#HDI					
5.370203	6 1	-.9727701	3.23627	-0.30	0.764	-7.315744
7.309048	6 2	.3733377	3.538693	0.11	0.916	-6.562372
10.11773	9 1	3.339935	3.458124	0.97	0.334	-3.437864
11.21538	9 2	3.883563	3.74079	1.04	0.299	-3.448251
4.380596	12 1	-2.76902	3.647831	-0.76	0.448	-9.918637
7.91632	12 2	.2570937	3.90784	0.07	0.948	-7.402132
5.319447	18 1	-2.795511	4.140361	-0.68	0.500	-10.91047
1.246422	18 2	-10.334	4.636604	-2.23	0.026	-19.42158 -
8.107407	24 1	-1.688582	4.998045	-0.34	0.735	-11.48457
8.938727	24 2	-20.62066	5.960279	-3.46	0.001	-32.30259 -

	diet1					
4.18508	human only	.9201198	1.665827	0.55	0.581	-2.34484
3.437222	mixed	.3369695	1.58179	0.21	0.831	-2.763283

	time#diet1					
3.049085	6#human only	-.7340741	1.930219	-0.38	0.704	-4.517234
4.390588	6#mixed	.8220175	1.820733	0.45	0.652	-2.746553
7.070302	9#human only	3.094412	2.028553	1.53	0.127	-.8814779
5.600448	9#mixed	1.816778	1.930479	0.94	0.347	-1.966891
4.920087	12#human only	.7917713	2.106322	0.38	0.707	-3.336544
4.167551	12#mixed	.2764081	1.985313	0.14	0.889	-3.614735
7.207971	18#human only	2.317272	2.4953	0.93	0.353	-2.573427
5.901322	18#mixed	1.313215	2.340914	0.56	0.575	-3.274893

24#human only		6.186739	2.939017	2.11	0.035	.4263717	
11.94711							
24#mixed		2.647344	2.768938	0.96	0.339	-2.779674	
8.074362							
HDI#diet1							
1#human only		3.656363	4.261031	0.86	0.391	-4.695106	
12.00783							
1#mixed		.6471544	3.506144	0.18	0.854	-6.224762	
7.519071							
2#human only		3.973743	4.703432	0.84	0.398	-5.244814	
13.1923							
2#mixed		2.60469	4.109476	0.63	0.526	-5.449735	
10.65912							
time#HDI#diet1							
6#1#human only		-7.670601	4.942482	-1.55	0.121	-17.35769	
2.016486							
6#1#mixed		-.9969368	4.105731	-0.24	0.808	-9.044021	
7.050147							
6#2#human only		-4.536308	5.585462	-0.81	0.417	-15.48361	
6.410997							
6#2#mixed		-.2952312	4.807961	-0.06	0.951	-9.718662	
9.1282							
9#1#human only		-6.549845	5.332651	-1.23	0.219	-17.00165	
3.90196							
9#1#mixed		-.3371317	4.3365	-0.08	0.938	-8.836517	
8.162253							
9#2#human only		-8.068493	5.747518	-1.40	0.160	-19.33342	
3.196435							
9#2#mixed		1.787887	5.071442	0.35	0.724	-8.151957	
11.72773							
12#1#human only		-6.633601	5.436062	-1.22	0.222	-17.28809	
4.020884							
12#1#mixed		3.797278	4.602549	0.83	0.409	-5.223553	
12.81811							
12#2#human only		-4.714092	6.054608	-0.78	0.436	-16.5809	
7.152721							
12#2#mixed		2.084517	5.317144	0.39	0.695	-8.336894	
12.50593							
18#1#human only		-2.424971	6.336626	-0.38	0.702	-14.84453	
9.994587							
18#1#mixed		-1.352554	5.321845	-0.25	0.799	-11.78318	
9.07807							
18#2#human only		-5.893896	7.295854	-0.81	0.419	-20.19351	
8.405716							
18#2#mixed		7.891001	6.253422	1.26	0.207	-4.365481	
20.14748							
24#1#human only		-2.121832	7.485105	-0.28	0.777	-16.79237	
12.5487							
24#1#mixed		-7.545676	6.334142	-1.19	0.234	-19.96037	
4.869016							
24#2#human only		-1.84896	8.936965	-0.21	0.836	-19.36509	
15.66717							
24#2#mixed		11.78006	7.785003	1.51	0.130	-3.478265	
27.03839							
IVH_PVL		-5.877094	1.593762	-3.69	0.000	-9.000809	-
2.753378							
MV		-2.922731	1.00793	-2.90	0.004	-4.898237	
-.9472246							
BPD		-4.245019	1.076905	-3.94	0.000	-6.355714	-
2.134324							
_cons		120.2626	1.289774	93.24	0.000	117.7347	
122.7905							

-

Random-effects Parameters	Estimate	Std. Err.	[95% Conf. Interval]	
ID: Unstructured				
sd(time)	.7373241	.039512	.6638102	.8189793
sd(_cons)	7.887254	.534972	6.905435	9.008669
corr(time,_cons)	-.5861932	.0507578	-.6769221	-.4779177
sd(Residual)	9.153659	.1627479	8.840173	9.478262

Table S3E. Stata output of the mixed effects model on GMDS-R subscales. Performance Scale.

```

Multiple-imputation estimates      Imputations      =      10
Mixed-effects REML regression     Number of obs    =     2,728

Group variable: ID                Number of groups =      524
                                   Obs per group:
                                   min =      1
                                   avg =     5.2
                                   max =      6
                                   Average RVI      =     0.0030
                                   Largest FMI       =     0.1281
DF adjustment:  Large sample      DF:  min        =     574.93
                                   avg          =    1.69e+12
                                   max          =    5.39e+13
Model F test:  Equal FMI          F( 59, 5.7e+07) =     17.61
                                   Prob > F      =     0.0000

```

	PER	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
time						
6		-9.180355	1.791266	-5.13	0.000	-12.69117 -
5.669538	9	-5.144685	1.907571	-2.70	0.007	-8.883456 -
1.405914	12	-6.257238	1.876498	-3.33	0.001	-9.935106 -
2.579371	18	-20.92748	2.092559	-10.00	0.000	-25.02882 -
16.82614	24	-21.4682	2.367096	-9.07	0.000	-26.10762 -
16.82878						
HDI						
1		-1.45117	3.564192	-0.41	0.684	-8.43686
5.53452	2	3.942099	3.995654	0.99	0.324	-3.889242
11.77344						
time#HDI						
6 1		-1.731948	4.068807	-0.43	0.670	-9.706664
6.242767	6 2	-9.858102	4.641892	-2.12	0.034	-18.95604
-.7601611	9 1	-.8217881	4.395825	-0.19	0.852	-9.437447
7.793871	9 2	-10.44458	4.894877	-2.13	0.033	-20.03836
-.8508013	12 1	4.11324	4.419182	0.93	0.352	-4.548197
12.77468	12 2	-13.98685	4.849699	-2.88	0.004	-23.49209 -
4.481615						

12.60912	18 1		3.472083	4.661838	0.74	0.456	-5.664951	
5.793783	18 2		-16.5645	5.495365	-3.01	0.003	-27.33522	-
9.278314	24 1		-1.429385	5.463213	-0.26	0.794	-12.13709	
4.712173	24 2		-8.578553	6.781107	-1.27	0.206	-21.86928	
	diet1							
4.961022	human only		.7451272	2.151005	0.35	0.729	-3.470768	
5.88868	mixed		1.929213	2.02017	0.95	0.340	-2.030255	
	time#diet1							
3.145466	6#human only		-1.673618	2.458761	-0.68	0.496	-6.492702	
2.943426	6#mixed		-1.548859	2.292024	-0.68	0.499	-6.041144	
5.451151	9#human only		.3915787	2.581462	0.15	0.879	-4.667994	
3.00029	9#mixed		-1.794621	2.446428	-0.73	0.463	-6.589532	
5.574958	12#human only		.5348363	2.571538	0.21	0.835	-4.505285	
3.454261	12#mixed		-1.233692	2.391857	-0.52	0.606	-5.921645	
5.088843	18#human only		-.5675791	2.885983	-0.20	0.844	-6.224001	
6.066216	18#mixed		.831351	2.670899	0.31	0.756	-4.403514	
7.996677	24#human only		1.660473	3.232817	0.51	0.608	-4.675732	
6.111127	24#mixed		.220383	3.005537	0.07	0.942	-5.670361	
	HDI#diet1							
16.5074	1#human only		5.568765	5.581041	1.00	0.318	-5.369876	
7.178241	1#mixed		-1.555033	4.455832	-0.35	0.727	-10.28831	
8.386049	2#human only		-3.368131	5.997141	-0.56	0.574	-15.12231	
8.457229	2#mixed		-1.791203	5.228884	-0.34	0.732	-12.03964	
	time#HDI#diet1							
12.21834	6#1#human only		-.2651794	6.36926	-0.04	0.967	-12.7487	
11.59385	6#1#mixed		1.558541	5.120152	0.30	0.761	-8.476772	
20.59418	6#2#human only		6.810922	7.032405	0.97	0.333	-6.972339	
16.76268	6#2#mixed		4.873782	6.065874	0.80	0.422	-7.015113	
12.81675	9#1#human only		-.609376	6.850188	-0.09	0.929	-14.0355	
12.52635	9#1#mixed		1.762962	5.491628	0.32	0.748	-9.000431	
22.52074	9#2#human only		8.148438	7.332944	1.11	0.266	-6.223868	
25.58542	9#2#mixed		12.88878	6.477998	1.99	0.047	.192134	
4.947106	12#1#human only		-8.375271	6.797256	-1.23	0.218	-21.69765	
8.449379	12#1#mixed		-2.349951	5.509963	-0.43	0.670	-13.14928	

12#2#human only		11.29171	7.362121	1.53	0.125	-3.137783	
25.7212							
12#2#mixed		6.756601	6.408751	1.05	0.292	-5.80432	
19.31752							
18#1#human only		-7.748727	7.41239	-1.05	0.296	-22.27674	
6.779291							
18#1#mixed		-7.209498	5.921395	-1.22	0.223	-18.81522	
4.396223							
18#2#human only		16.60658	8.291909	2.00	0.045	.3547324	
32.85842							
18#2#mixed		6.606137	7.16773	0.92	0.357	-7.442355	
20.65463							
24#1#human only		.4393114	8.450953	0.05	0.959	-16.12425	
17.00287							
24#1#mixed		2.213861	6.821804	0.32	0.746	-11.15663	
15.58435							
24#2#human only		3.629695	9.713155	0.37	0.709	-15.40774	
22.66713							
24#2#mixed		-5.799049	8.522469	-0.68	0.496	-22.50278	
10.90468							
smoker		-3.525786	1.46704	-2.40	0.017	-6.407196	
-.644375							
IVH_PVL		-16.1696	1.801439	-8.98	0.000	-19.70037	-
12.63884							
BPD		-4.710488	1.120371	-4.20	0.000	-6.906376	-
2.5146							
sepsis		-5.406429	1.336369	-4.05	0.000	-8.02567	-
2.787187							
SGA_b		-3.093037	1.110121	-2.79	0.005	-5.268853	
-.9172205							
quinq		3.387642	.9557336	3.54	0.000	1.514423	
5.260861							
_cons		110.2646	1.704801	64.68	0.000	106.9233	
113.606							

-

Random-effects Parameters		Estimate	Std. Err.	[95% Conf. Interval]	
ID: Unstructured					
sd(time)		.7078768	.0481866	.619462	.8089109
sd(_cons)		9.784651	.6985494	8.506993	11.2542
corr(time,_cons)		-.5980789	.0558781	-.6965981	-.4774225
sd(Residual)		11.92592	.2068873	11.52724	12.33838

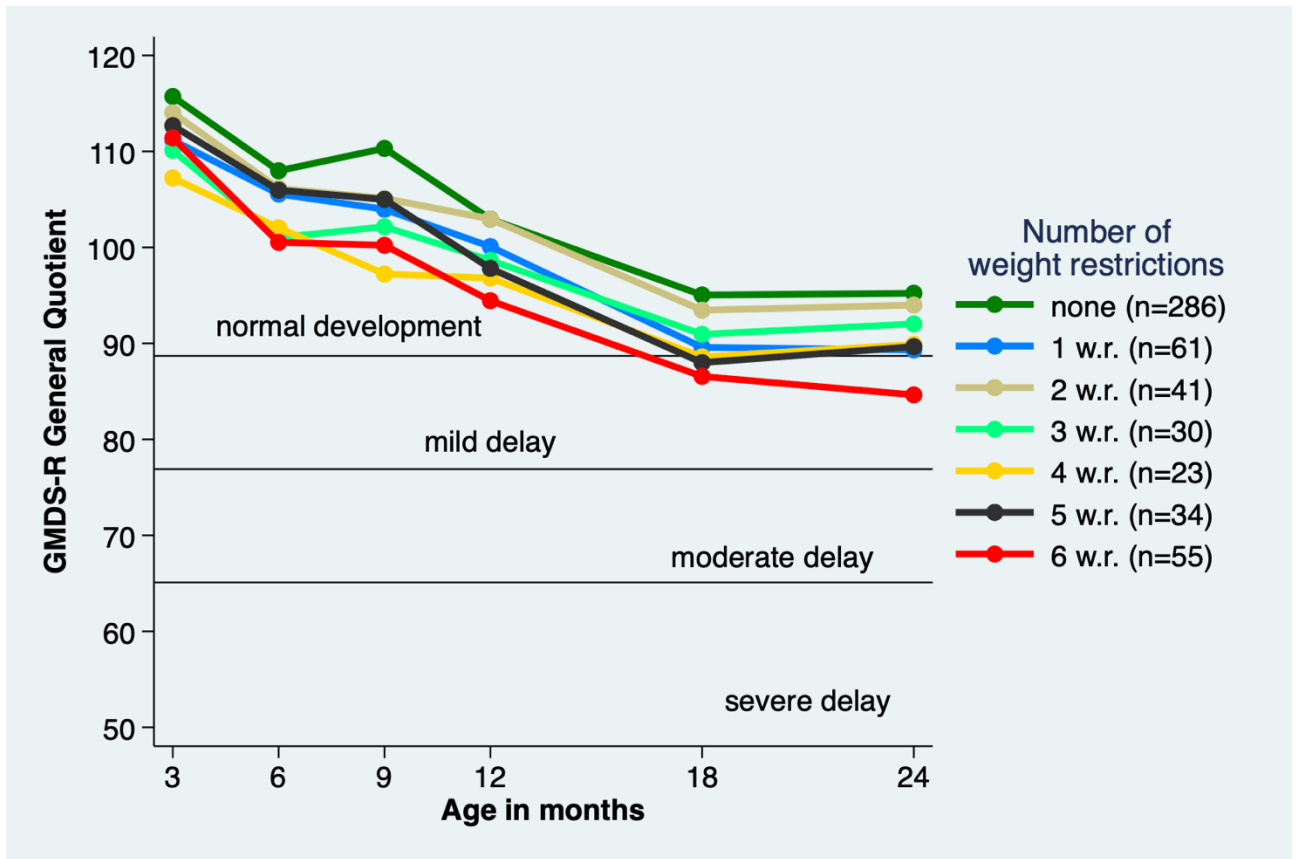


Figure S1. Observed neurodevelopmental trajectories of children with different ascertained weight restrictions during follow-up.

This figure describes the neurodevelopmental trajectories of children according to the number of times in which, in the six follow-up visits, they were found weight restricted.