

Appendix 7. L, M, and S parameters and z scores for length/height for age: girls 0 to 60 months.

Age (M)	L	M	S	S	-3	-2	-1	0	1	2	3
0	-1.745846	50.04858	0.0511	5.11E-02	44.14589	45.63882	47.67192	50.04858	52.78172	55.86776	58.78751
1	-2.016772	53.28392	0.0518	5.18E-02	47.01725	48.58324	50.73569	53.28392	56.26199	59.69349	63.01586
2	-2.227232	56.40067	0.0525	5.25E-02	49.76727	51.40893	53.68203	56.40067	59.62049	63.39515	67.12474
3	-2.335904	59.27916	0.0532	5.32E-02	52.27338	53.99718	56.39444	59.27916	62.72342	66.80448	70.88887
4	-2.304683	61.87717	0.0539	5.39E-02	54.47893	56.29842	58.82974	61.87717	65.51752	69.83318	74.1545
5	-2.090466	64.17665	0.0545	5.45E-02	56.34077	58.28088	60.96655	64.17665	67.97411	72.41723	76.79521
6	-1.606684	66.16769	0.0550	0.0550314	57.79061	59.90274	62.78647	66.16769	70.06867	74.48819	78.68284
7	-0.8757042	67.86938	0.0555	5.55E-02	58.81129	61.1666	64.30534	67.86938	71.82281	76.09592	79.95139
8	-5.83E-02	69.35647	0.0560	5.60E-02	59.50393	62.16744	65.60487	69.35647	73.33588	77.43126	80.95215
9	0.7000358	70.71087	0.0564	5.64E-02	60.00731	63.02203	66.77649	70.71087	74.71205	78.65928	81.92482
10	1.315136	72.00359	0.0568	5.68E-02	60.46304	63.83801	67.89918	72.00359	76.03551	79.88654	82.98592
11	1.746009	73.27195	0.0571	0.0571117	60.99327	64.69062	69.01746	73.27195	77.34958	81.16055	84.17385
12	1.977328	74.50918	0.0574	0.0573815	61.68032	65.60951	70.13169	74.50918	78.6486	82.47325	85.47007
13	2.024	75.68713	0.0576	5.76E-02	62.54268	66.58375	71.21727	75.68713	79.90168	83.78635	86.82443
14	1.922223	76.7937	0.0577	5.77E-02	63.54978	67.59163	72.2599	76.7937	81.09306	85.07501	88.201
15	1.717003	77.82471	0.0579	5.79E-02	64.63716	68.60298	73.24986	77.82471	82.21432	86.32094	89.57066
16	1.451676	78.78719	0.0579	0.0579262	65.74325	69.59458	74.18732	78.78719	83.26875	87.51791	90.91707
17	1.181819	79.6981	0.0580	5.80E-02	66.80739	70.54624	75.07993	79.6981	84.2681	88.66229	92.21857
18	0.9561402	80.56888	0.0580	5.80E-02	67.78516	71.44038	75.93119	80.56888	85.21831	89.74306	93.44253
19	0.7789729	81.41542	0.0579	5.79E-02	68.69002	72.28935	76.75502	81.41542	86.13557	90.77369	94.59755
20	0.6406384	82.25525	0.0579	5.79E-02	69.54998	73.11417	77.56885	82.25525	87.03964	91.77702	95.70895
21	0.5396562	83.09435	0.0578	5.78E-02	70.37338	73.92108	78.37824	83.09435	87.937	92.75922	96.78158
22	0.4822548	83.92944	0.0578	5.78E-02	71.15228	74.70401	79.1791	83.92944	88.8232	93.71201	97.80163
23	0.4779048	84.74863	0.0577	5.77E-02	71.86714	75.44714	79.95865	84.74863	89.68429	94.61597	98.74224
24	0.5295754	85.54453	0.0576	5.76E-02	72.5072	76.14143	80.70918	85.54453	90.51199	95.46083	99.59056
25	0.6317477	86.31721	0.0575	5.75E-02	73.07516	76.78854	81.43122	86.31721	91.30725	96.25011	100.354
26	0.7709967	87.07016	0.0574	5.74E-02	73.58395	77.39714	82.12962	87.07016	92.07578	96.99607	101.0538
27	0.9191141	87.80671	0.0573	5.73E-02	74.06389	77.98457	82.81133	87.80671	92.8252	97.7187	101.7264
28	1.043498	88.52699	0.0572	5.72E-02	74.55208	78.56963	83.48122	88.52699	93.56026	98.43575	102.4062
29	1.137216	89.22626	0.0571	0.0571384	75.05536	79.15318	84.13601	89.22626	94.27695	99.14529	103.0934
30	1.200525	89.90739	0.0570	5.70E-02	75.5785	79.73856	84.77845	89.90739	94.97829	99.8501	103.7902
31	1.232725	90.57722	0.0569	5.69E-02	76.13013	80.333	85.41519	90.57722	95.67162	100.558	104.5044
32	1.231731	91.23624	0.0568	5.68E-02	76.71461	80.93875	86.04714	91.23624	96.35778	101.2705	105.2385
33	1.207087	91.88199	0.0567	5.67E-02	77.3185	81.54807	86.6706	91.88199	97.03283	101.9801	105.9802
34	1.175621	92.5139	0.0565	0.0565748	77.92054	82.15028	87.28256	92.5139	97.69376	102.677	106.7119

Source: El Mouzan MI, Shaffi A, Al Salloum A, Alqurashi MM, Al Herbish A, Al Omer A. Z-score growth reference data for Saudi preschool children. Ann Saudi Med 2017; 37(1): 10-15.

35	1.152471	93.13397	0.0565	5.65E-02	78.50358	82.73782	87.88255	93.13397	98.34061	103.3557	107.4204
36	1.146422	93.74374	0.0563	5.63E-02	79.05801	83.30656	88.4706	93.74374	98.97377	104.0131	108.0985
37	1.15155	94.34836	0.0562	5.62E-02	79.59532	83.86461	89.05243	94.34836	99.59959	104.6581	108.7582
38	1.149141	94.95914	0.0561	5.61E-02	80.148	84.43336	89.64155	94.95914	100.2327	105.3133	109.4319
39	1.125386	95.58689	0.0590	5.59E-02	80.7424	85.03104	90.25035	95.58689	100.8863	105.9982	110.1465
40	1.073965	96.23548	0.0580	5.58E-02	81.38943	85.665	90.88354	96.23548	101.5655	106.7206	110.9133
41	0.9971901	96.90764	0.0570	5.57E-02	82.08771	86.33602	91.54332	96.90764	102.2728	107.4825	111.7339
42	0.9055942	97.59653	0.0555	0.055526	82.81788	87.03145	92.22168	97.59653	102.9995	108.2709	112.5902
43	0.8048014	98.2886	0.0554	5.54E-02	83.56142	87.73584	92.90505	98.2886	103.7304	109.0676	113.4608
44	0.697173	98.96844	0.0552	5.52E-02	84.30215	88.434	93.57855	98.96844	104.4487	109.8542	114.3254
45	0.5933816	99.62492	0.0551	5.51E-02	85.0184	89.10981	94.23012	99.62492	105.1412	110.612	115.1592
46	0.5052009	100.2525	0.0549	5.49E-02	85.69275	89.75163	94.85268	100.2525	105.8002	111.3278	115.9413
47	0.443408	100.8477	0.0547	5.47E-02	86.31111	90.35036	95.44128	100.8477	106.4205	111.9911	116.654
48	0.4217732	101.4043	0.0546	5.46E-02	86.85378	90.89259	95.98768	101.4043	106.9935	112.5866	117.2728
49	0.4432607	101.9238	0.0544	5.44E-02	87.31888	91.37789	96.49284	101.9238	107.5209	113.1148	117.7965
50	0.4931585	102.415	0.0542	5.42E-02	87.72821	91.82133	96.96669	102.415	108.0144	113.5953	118.2547
51	0.5661118	102.887	0.0541	5.41E-02	88.09393	92.23329	97.41834	102.887	108.4849	114.0424	118.6661
52	0.6610284	103.344	0.0539	5.39E-02	88.41939	92.61751	97.85175	103.344	108.9371	114.4621	119.0385
53	0.7768053	103.791	0.0538	5.38E-02	88.70864	92.97857	98.27177	103.791	109.3766	114.8612	119.3803
54	0.917238	104.2271	0.0537	5.37E-02	88.95463	93.31274	98.67681	104.2271	109.8019	115.237	119.6876
55	1.086038	104.6526	0.0535	0.0535479	89.15066	93.61736	99.0667	104.6526	110.213	115.5884	119.9587
56	1.285361	105.0711	0.0534	5.34E-02	89.29297	93.89291	99.44427	105.0711	110.6132	115.9191	120.1976
57	1.514394	105.4809	0.0533	0.0533279	89.37538	94.13648	99.80785	105.4809	111.0011	116.2287	120.4061
58	1.767735	105.8878	0.0532	5.32E-02	89.40327	94.35474	100.1636	105.8878	111.3837	116.5273	120.5984
59	2.033222	106.3003	0.0531	5.31E-02	89.39452	94.56169	100.5215	106.3003	111.7714	116.8306	120.7968
60	2.295717	106.72	0.0530	0.0530383	89.36958	94.76883	100.8856	106.72	112.1678	117.1476	121.0164

Source: El Mouzan MI, Shaffi A, Al Salloum A, Alqurashi MM, Al Herbish A, Al Omer A. Z-score growth reference data for Saudi preschool children. Ann Saudi Med 2017; 37(1): 10-15.