

14. Expected Values

The following ranges were determined using the IDS-iSYS IGF-I assay in a large, multicentre (n=12) cohort (n=15014) from the United States, Canada and Europe⁶. Even though in order to best reflect local conditions it is recommended that each laboratory establish its own expected reference range based upon its own patient population, the following ranges should be considered as appropriate normative data for this assay. Laboratories who wish to have more detailed ranges with data in smaller increments are referred to the online Supplemental data in the relevant publication⁶.

IGF-I Males						IGF-I Females					
Age, y	LMS Parameters ($\lambda = 0.4568$)		Percentiles			Age, y	LMS Parameters ($\lambda = 0.4595$)		Percentiles		
	μ	σ	2.5%	50%	97.5%		μ	σ	2.5%	50%	97.5%
0	77.3625	0.4262	27.0	77.4	157.0	0	58.5742	0.4662	17.9	58.6	125.6
1	83.0813	0.4187	29.7	83.1	166.8	1	62.3128	0.4589	19.5	62.3	132.3
2	92.5995	0.4113	33.9	92.6	183.9	2	69.1965	0.4516	22.2	69.2	145.4
3	104.0358	0.4038	39.0	104.0	204.5	3	78.9225	0.4444	25.9	78.9	164.2
4	115.7263	0.3964	44.3	115.7	225.0	4	91.1878	0.4371	30.7	91.2	187.8
5	127.6126	0.3890	50.0	127.6	245.5	5	105.1525	0.4299	36.2	105.2	214.4
6	140.3556	0.3817	56.2	140.4	267.1	6	119.1360	0.4227	42.0	119.1	240.4
7	155.0333	0.3744	63.4	155.0	291.9	7	134.9677	0.4156	48.6	135.0	269.6
8	173.3780	0.3673	72.4	173.4	323.1	8	154.3755	0.4085	56.9	154.4	305.3
9	196.1267	0.3602	83.6	196.1	361.6	9	178.4732	0.4015	67.2	178.5	349.4
10	222.8130	0.3532	96.9	222.8	406.6	10	206.5732	0.3945	79.5	206.6	400.3
11	251.5695	0.3463	111.6	251.6	454.4	11	235.8698	0.3877	92.6	235.9	452.6
12	278.8827	0.3396	126.1	278.9	498.7	12	262.6764	0.3809	105.3	262.7	499.1
13	300.7811	0.3330	138.6	300.8	532.5	13	283.4969	0.3742	115.9	283.5	533.4
14	314.4302	0.3265	147.5	314.4	551.2	14	296.2184	0.3677	123.4	296.2	552.0
15	318.7692	0.3202	152.2	318.8	553.5	15	300.1497	0.3614	127.4	300.1	554.2
16	314.9775	0.3141	152.9	315.0	541.8	16	295.9452	0.3553	127.9	295.9	541.5
17	305.3809	0.3082	150.6	305.4	520.6	17	285.1932	0.3495	125.3	285.2	517.3
18	292.0343	0.3026	146.2	292.0	493.6	18	270.0078	0.3440	120.5	270.0	485.8
19	276.0573	0.2972	140.2	276.1	462.7	19	252.5661	0.3387	114.4	252.6	450.8
20	258.5452	0.2922	133.1	258.5	430.0	20	234.7593	0.3338	107.8	234.8	416.0
21-25	217.1600	0.2809	115.2	217.2	354.8	21-25	196.2189	0.3230	92.9	196.2	342.0
26-30	176.8353	0.2645	97.9	176.8	281.6	26-30	158.6612	0.3073	78.4	158.7	270.0
31-35	156.4434	0.2566	88.3	156.4	246.0	31-35	144.6606	0.2988	73.1	144.7	243.0
36-40	147.8521	0.2571	83.4	147.9	232.7	36-40	135.6504	0.2964	69.0	135.7	227.0
41-45	135.7125	0.2654	74.9	135.7	216.4	41-45	121.6626	0.2990	61.5	121.7	204.4
46-50	125.7431	0.2798	66.9	125.7	205.1	46-50	114.5344	0.3059	56.8	114.5	194.5
51-55	119.3813	0.2977	60.6	119.4	200.3	51-55	109.8845	0.3163	53.0	109.9	189.6
56-60	112.5445	0.3161	54.3	112.5	194.2	56-60	98.0102	0.3289	45.6	98.0	172.4
61-65	105.9676	0.3335	48.8	106.0	187.7	61-65	94.1497	0.3425	42.2	94.1	169.0
66-70	105.7704	0.3492	46.5	105.8	191.9	66-70	88.7193	0.3559	38.3	88.7	162.5
71-75	96.7081	0.3633	40.9	96.7	179.2	71-75	88.2148	0.3688	36.6	88.2	164.7
76-80	91.1025	0.3762	37.1	91.1	172.0	76-80	86.7241	0.3811	34.7	86.7	164.8
81-85	86.0783	0.3885	33.8	86.1	165.4	81-85	89.1368	0.3933	34.4	89.1	172.4
86-90	84.9649	0.4003	32.2	85.0	166.1	86-90	90.2972	0.4054	33.6	90.3	177.8