

Reporting Title: Insulin-Like Growth Factor 1, S
Performing Location: Rochester

Specimen Requirements:

Collection Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Submission Container/Tube: Plastic vial
Specimen Volume: 0.5 mL
Collection Instructions: Spin down promptly.
Additional Information: Indicate patient's age and sex.

Specimen Type	Temperature	Time
Serum	Frozen	14 days

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
IGF1I	Insulin-Like Growth Factor 1, S	Numeric	ng/mL	In Process

CPT Code Information:

84305

Reference Values:

Males:

Age	ng/mL	0.1 Percentile (ng/mL)
0-11 months	15-150	3
1 year	18-179	4
2 years	22-204	5
3 years	25-224	6
4 years	28-241	8
5 years	32-259	9
6 years	36-281	11

7 years	42-311	13
8 years	49-351	16
9 years	58-401	19
10 years	70-458	24
11 years	82-516	29
12 years	93-567	35
13 years	103-603	41
14 years	111-620	46
15 years	115-618	50
16 years	115-598	52
17 years	113-566	54
18 years	109-527	
19 years	104-484	
20 years	98-443	
21-25 years	83-344	
26-30 years	75-275	
31-35 years	71-241	
36-40 years	69-226	
41-45 years	64-210	
46-50 years	59-201	
51-55 years	56-201	
56-60 years	51-194	
61-65 years	47-191	
66-70 years	46-195	
71-75 years	42-187	
76-80 years	39-184	
80-85 years	37-182	
85-90 years	35-182	

Females:

Age	ng/mL	0.1 Percentile (ng/mL)
0-11 months	18-146	5

1 year	20-159	6
2 years	23-177	7
3 years	27-198	8
4 years	32-223	10
5 years	36-246	12
6 years	41-269	15
7 years	48-299	17
8 years	56-339	21
9 years	68-396	26
10 years	83-465	32
11 years	99-537	40
12 years	115-598	48
13 years	126-637	56
14 years	133-647	62
15 years	134-631	65
16 years	130-595	66
17 years	123-546	64
18 years	114-493	
19 years	105-441	
20 years	97-398	
21-25 years	84-323	
26-30 years	77-271	
31-35 years	73-244	
36-40 years	68-225	
41-45 years	62-205	
46-50 years	56-194	
51-55 years	53-191	
56-60 years	45-173	
61-65 years	41-168	
66-70 years	39-168	
71-75 years	36-166	
76-80 years	35-168	

80-85 years	35-179	
85-90 years	33-179	

Reference values have not been established for patients that are >90 years of age.

IGF-1 reference values according to Tanner stages I-V(2)

Males

- Stage I: 83-255 ng/mL
- Stage II: 114-440 ng/mL
- Stage III: 236-516 ng/mL
- Stage IV: 218-580 ng/mL
- Stage V: 229-522 ng/mL

Females

- Stage I: 90-324 ng/mL
- Stage II: 104-456 ng/mL
- Stage III: 249-519 ng/mL
- Stage IV: 238-574 ng/mL
- Stage V: 187-509 ng/mL

Note: Puberty onset, ie the transition from Tanner stage 1 (prepubertal) to Tanner stage 2 (early pubertal), occurs for girls at a median age of 10.5 (+/- 2) years and for boys at a median age of 11.5 (+/-2) years. There is evidence that it may occur up to 1 year earlier in obese girls and in African-American girls. By contrast, for boys there is no definite proven relationship between puberty onset and body weight or ethnic origin. Progression through Tanner stages is variable. Tanner stage 5 (young adult) should be reached by age 18.