



Laboratory Services

Important Test Announcement

TEST METHODOLOGY UPDATE

Live Date: 1/20/2026

Effective January 20, 2026, the following tests will transition to new instrumentation. As part of this change, a cross-reference comparing the new normal reference ranges to the previous reference ranges has been developed and is attached for review. There are no changes to specimen collection requirements, tube types, or days of testing as part of this transition. For additional information regarding acceptable alternative tube types and specimen stability requirements, please refer to the Laboratory Test Directory.

ACTH (**ACTHO**), Alpha Fetoprotein Tumor Marker (**AFPT**), C-Peptide (**CPEP**) and timed C-Peptides, DHEA SO4 (**DHS4**), Ferritin (**FERR**), Serum Folate (**FOL**), Growth Hormone (**GH**), IGF-BP3 (**IGFBP3**), IGF I (**IGFI**), Insulin (**INS**) and timed Insulins, Anti TPO AB (**THYM**), and Vitamin B12 (**VB12**).

If you have any additional questions, please refer to the [Laboratory Test Directory](#) or call Client Services at 614-722-5477.

January 2026
Updated Normal Range Cross Reference

Test Code	Test Name	New Normal Reference Range			Previous Normal Reference Range		
ACTHO	ACTH	MALE & FEMALE			MALE & FEMALE		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		All ages	7.2 - 63.0 (for samples drawn between 7-10am)	pg/mL	All ages	6 - 48	pg/mL
AFPT	Alpha Fetoprotein Tumor Marker	MALE & FEMALE			MALE & FEMALE		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		0 - <6 months	No reference range	ng/mL	All ages	<8.5	ng/mL
		6 - <12 months	<69				
		>= 12 months	<7				
CPEP	C-Peptide	MALE & FEMALE			MALE & FEMALE		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		All ages	1.1 - 4.4 (fasting)	ng/mL	Children, Fasting	0.4 - 2.2	ng/mL
					Adults, fasting	0.4 - 2.1	
2hr OGTT	2.0 - 4.5						

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Updated Normal Range Cross Reference

Test Code	Test Name	New Normal Reference Range			Previous Normal Reference Range			
DHS4	DHEA SO4	MALE			MALE			
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit	
		<1 week	108 - 607	µg/dL	0 - 14 days	12 - 254	µg/dL	
		1 - 4 weeks	32 - 431		Stage I (>14 days)	<15 - 120		
		1 - 12 months	3 - 124		Stage II (11.5 years)	<15 - 333		
		1 - 4 years	0.5 - 19		Stage III (13.6 years)	<15 - 312		
		5 - 9 years	2.8 - 85		Stage IV (15.1 years)	29 - 412		
		10 - 14 years	24 - 247		Stage V (18.0 years)	89 - 457		
		15 - 19 years	70 - 492		18 - 29 years	89 - 457		
		20 - 24 years	211 - 492		30 - 39 years	65 - 334		
		25 - 34 Years	160 - 449		40 - 49 years	48 - 244		
		35 - 44 years	89 - 427		50 - 59 years	35 - 179		
		45 - 54 years	44 - 331		> or = 60 years	25 - 131		
		55 - 64 years	52 - 295		FEMALE			
		65 - 74 years	34 - 249		Age	Normal Reference Range	Unit	
		>/=75 years	16 - 123		0-14 days	10 - 248	µg/dL	
		MALE			Stage I (>14 days)	16 - 96		
		Tanner Stage	Range (ug/dL)	Unit	Stage II (10.5 years)	22 - 184		
		1	<167	µg/dL	Stage III (11.6 years)	<15 - 296		
		2	24.5 - 346		Stage IV (12.3 years)	17 - 343		
		3	85.9 - 329		Stage V (14.5 years)	44 - 332		
		4	65.8 - 555		18 - 29 years	44 - 332		
		5	70.3 - 600		30 - 39 years	31 - 228		
		FEMALE			40 - 49 years	18 - 244		
		Age	Normal Reference Range	Unit	50 - 59 years	<15 - 200		
		<1 Week	108 - 607	µg/dL				
		1 - 4 weeks	32 - 431					
		1 - 12 months	3 - 124					
		1 - 4 years	0.5 - 19					
		5 - 9 years	2.8 - 85					
		10 - 14 years	34 - 280					
		15 - 19 years	65 - 368					
		20 - 24 years	148 - 407					
		25 - 34 years	99 - 340					
		35 - 44 years	31 - 337					
		45 - 54 years	35 - 256					
		55 - 64 years	19 - 205					
		65 - 74 years	9 - 246					
		>/=75 years	12 - 154					

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Updated Normal Range Cross Reference

Test Code	Test Name	New Normal Reference Range			Previous Normal Reference Range		
DHS4	DHEA SO4	FEMALE					
		Tanner Stage	Range (ug/dL)	Unit			
		1	<128	µg/dL			
		2	21.2 - 182				
		3	32 - 219				
		4	58 - 301				
		5	82 - 405				
FERR	Ferritin	MALE			MALE		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		0 - 4 weeks	150 - 973	ng/mL	0 - 1 months	12 - 200	ng/dmL
		5 weeks - 5 months	9 - 580		1 - 2 months	60 - 700	
		6 months - 9 years	6 - 111		2 - 3 months	7 - 220	
		10 - 17 years	15 - 201		3 - 6 months	7 - 230	
		>/=18 years	31 - 409		6 months - 16 years	7 - 142	
		FEMALE			>/=16 years	31 - 294	
		Age	Normal Reference Range	Unit	FEMALE		
		0 - 4 weeks	150 - 979	ng/mL	Age	Normal Reference Range	Unit
		5 weeks - 5 months	9 - 580		0 - 1 months	12 - 200	ng/mL
		6 months - 17 years	8 - 115		1 - 2 months	60 - 700	
		18 - 50 years	6 - 175		2 - 3 months	7 - 220	
		>/=51 years	11 - 328		3 - 6 months	7 - 230	
					6 months - 16 years	7 - 142	
					>/=16 years	4 - 233	
		FOL	Folate, Serum	MALE & FEMALE			
Age	Normal Reference Range			Unit	Age	Normal Reference Range	Unit
<2 years	>9.2			ng/mL	0 - <1 years	6.5 - 23	ng/mL
2 - <5 years	>5.2				1 - <4 years	2 - 15	
4 - 11 years	8.6 - 37.7				4 - <18 years	2 - 13	
12 - 19 years	5.0 - 27.2				>/=18 years	>5.5	
20 - 59 years	4.4 - 31.0						
>/=60 years	5.6 - 45.8						
GH	Growth Hormone	MALE			MALE		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		0 - 10 years	<6.3	ng/mL	All	<4.6	ng/mL
		11- 17 years	<10.8		FEMALE		
		18 -77 years	<2.5		Age	Normal Reference Range	Unit
		FEMALE			All	<5.6	ng/mL
		Age	Normal Reference Range	Unit	Growth Hormone Stimulation		
		0 - 10 years	<7.8	ng/mL	All	>10	ng/mL
		11- 17 years	<8.0				
		18 -77 years	<9.9				

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Updated Normal Range Cross Reference

Test Code	Test Name	New Normal Reference Range			Previous Normal Reference Range				
IGFBP3	IGF-BP3	MALE & FEMALE			MALE & FEMALE				
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit		
		1 - 7 days	</=0.84	µg/mL	0 - 1 month	0.5 - 2.2	ug/mL		
		8 - 14 days	0.60 - 1.68		2 - 3 months	0.7 - 2.7			
		15 days - 11 months	0.84 - 3.72		4 - 5 months	0.8 - 3.1			
		1 - 2 years	0.87 - 4.56		6 - 11 months	0.7 - 3.1			
		3 years	1.08 - 5.16		1 - 2 years	0.7 - 3.6			
		4 years	1.20 - 5.64		2 - 3 years	0.8 - 3.9			
		5 years	1.32 - 6.24		3 - 4 years	0.9 - 4.3			
		6 years	1.56 - 6.72		4 - 5 years	1.0 - 4.7			
		7 years	1.68 - 7.32		5 - 6 years	1.1 - 5.2			
		8 years	1.92 - 7.8		6 - 7 years	1.3 - 5.6			
		9 years	2.16 - 8.52		7 - 8 years	1.4 - 6.1			
		10 years	2.52 - 9.24		8 - 9 years	1.6 - 6.5			
		11 years	2.88 - 10.08		9 - 10 years	1.8 - 7.1			
		12 years	3.24 - 10.68		10 - 11 years	2.1 - 7.7			
		13 years	3.72 - 11.4		11 - 12 years	2.4 - 8.4			
		14 - 15 years	4.08 - 12.00		12 - 13 years	2.7 - 8.9			
		16 years	4.08 - 11.40		13 - 14 years	3.1 - 9.5			
		17 years	3.84 - 10.44		14 - 15 years	3.3 - 10			
		18 years	3.72 - 9.48		15 - 16 years	3.5 - 10			
		19 - 20 years	3.48 - 8.76		16 - 17 years	3.4 - 9.5			
		21 - 30 years	4.08 - 9.24		17 - 18 years	3.2 - 8.7			
		31 -40 years	4.2 - 8.28		>18 years	3.1 - 7.9			
		41 - 50 years	3.96 - 8.04						
		51 - 60 years	4.08 - 8.16						
		61 - 70 years	3.72 - 7.68						
		71 - 80 years	3.24 - 6.48						
		81 - 85 years	2.64 - 5.40						
		Male Tanner Stg MALE	Normal Reference Range	Unit					
		1	1.68-6.24	µg/mL					
		2	2.76-7.56						
		3	3.72-10.68						
		4	4.44-10.44						
		5	3.12-10.32						
		Female Tanner Stage	Normal Reference Range	Unit					
		1	1.44-7.68	µg/mL					
		2	3.36-8.28						
		3	4.68-11.28						
		4	3.96-9.72						
		5	3.24-10.92						

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Updated Normal Range Cross Reference

Test Code	Test Name	New Normal Reference Range			Previous Normal Reference Range		
IGFI	IGF I	MALE			MALE		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		<1 year	No Reference Range Established	ng/mL	<1 year	No Reference Range Established	ng/mL
		1 - 2 years	30 - 122		1 - 2 years	25 - 102	
		3 years	20 - 142		3 years	17 - 118	
		4 years	25 - 158		4 years	21 - 132	
		5 years	30 - 175		5 years	25 - 146	
		6 years	37 - 193		6 years	31 - 161	
		7 years	44 - 212		7 years	37 - 177	
		8 - 18 years	See Tanner		8 - 18 years	See Tanner	
		19 - 20 years	282 - 514		19 - 20 years	235 - 428	
		21 - 30 years	156 - 436		21 - 30 years	130 - 363	
		31 - 40 years	133 - 336		31 - 40 years	111 - 280	
		41 - 50 years	121 - 239		41 - 50 years	101 - 199	
		51 - 60 years	68 - 247		51 - 60 years	57 - 206	
		61 - 70 years	60 - 222		61 - 70 years	50 - 185	
		71 - 80 years	36 - 216		71 - 80 years	30 - 180	
		Tanner	Normal Reference Range	Unit	Tanner Stage	Range	Unit
		1	53 - 394	ng/mL	1	44 - 328	ng/mL
		2	38 - 653		2	32 - 544	
		3	38 - 653		3	32 - 544	
		4 - 5	145 - 679		4 - 5	121 - 566	
		FEMALE			FEMALE		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		<1 year	No Reference Range Established	ng/mL	<1 year	No Reference Range Established	ng/mL
		1 - 2 years	56 - 45		1-2 years	47 - 121	
		3 years	26 - 163		3 years	22 - 136	
		4 years	32 - 180		4 years	27 - 150	
		5 years	38 - 199		5 years	32 - 66	
		6 years	55 - 240		6 years	46 - 200	
		7 years	55 - 270		7 years	46 - 225	
		8 - 18 years	See Tanner		8 - 18 years	See Tanner	
		19 - 20 years	218 - 479		19 - 20 years	182 - 399	
		21 - 30 years	88 - 371		21 - 30 years	73 - 309	
		31 - 40 years	107 - 371		31 - 40 years	89 - 309	
		41 - 50 years	119 - 300		41 - 50 years	99 - 250	
		51 - 60 years	54 - 289		51 - 60 years	45 - 241	
		61 - 70 years	76 - 265		61 - 70 years	63 - 221	
		71 - 80 years	54 - 206		71 - 80 years	45 - 172	
		Tanner	Normal Reference Range	Unit	Tanner	Normal Reference Range	Unit
		1	65 - 361	ng/mL	1	54 - 301	ng/mL
		2	89 - 570		2	74 - 475	
		3	193 - 572		3	161 - 477	
		4-5	148 - 652		4-5	123 - 543	

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Updated Normal Range Cross Reference

Test Code	Test Name	New Normal Reference Range			Previous Normal Reference Range		
INS	Insulin,Total	Male and Female			Male and Female		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		All	2.6-24.9 (Fasting)	uU/mL	All	9.1-21.7	uU/mL
THYM (anti-TPO)	Anti TPO AB	Male and Female			Male and Female		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		0 - <7 day	<117	IU/mL	All ages	>35	IU/mL
		7 day - <4 months	<47				
		4 - <12 months	<32				
		1 - <6 years	<13				
		6 - <11 years	<18				
		11 - <19 years	<26				
		>=19 years	<34				
VB12	Vitamin B12	Male and Female			Male and Female		
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit
		0 - <1 months	187 - 1866	pg/mL	1 - <10 years	250 - 1200	pg/mL
		1 - <12 months	168 - 1675		10 - <13 years	200 - 1100	
		1 - <12 years	354 - 1599		13 - <18 years	215 - 900	
		12 - <19 years	270 - 1132		>=18 years	215 - 900	
		>=19 years	197 - 771				

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Updated Normal Range Cross Reference

Test Code	Test Name	New Normal Reference Range			Previous Normal Reference Range					
PROBNP*	ProBrain Natriuretic Peptide	MALE			Male and Female					
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit			
		0 - 2 days	321 - 11987	pg/mL	0 - 74 years	0 - 124	pg/mL			
		3 days -1 month	263 - 5918		>74 years	0 - 449				
		2 months - 1 year	37 - 646							
		2 years	39 - 413							
		3 - 6 years	23 - 289							
		7 - 18 years	</=157							
		19 - 39 years	</=79							
		40 - 44 years	</=72							
		45 - 54 years	</=87							
		55 - 64 years	</=88							
		>/=65Y	</=540							
		Female								
		Age	Normal Reference Range	Unit						
		0 - 2 days	321 - 11987	pg/mL						
		3 days - 1 month	263 - 5918							
		2 months - 1 year	37 - 646							
		2 years	39 - 413							
		3 - 6 years	23 - 289							
		7 - 18 years	</=157							
		19 - 39 years	<160							
		40 - 44 years	</=162							
45 - 54 years	</=141									
55 - 64 years	</=226									
>/=65 years	</=560									
ATG*	Thyroglobulin Antibody	Male and Female			Male and Female					
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit			
		All ages	<40	IU/mL	All ages	0 - 4.0	IU/mL			
ATSHR**	Thyrotropin Receptor Antibody	Male and Female			Male and Female					
		Age	Normal Reference Range	Unit	Age	Normal Reference Range	Unit			
		All ages	0 - 1.75	IU/L	All ages	0 - 1.75	IU/L			

* This test was previously a sent out to ARUP laboratory

** This test was previously sent out to Mayo Clinical Laboratories.