

2019 Chemistry Analyzer Reference Interval Changes
St. Vincent Indianapolis & St. Vincent Women's Hospital

Effective Date: April 30, 2019

Old Method - Abbott Architect

New Method - Ortho Vitros 5600/4600/350

TEST NAME	UNITS	OLD MALE		NEW MALE		OLD FEMALE		NEW FEMALE	
		AGE	NORMAL	AGE	NORMAL	AGE	NORMAL	AGE	NORMAL
Albumin	g/dL	15	3.5-5.5	18	3.5-5.0	15	3.5-5.5	18	3.5-5.0
		5D	3.8-5.4	15	4.2-5.3	5D	3.8-5.4	15	4.1-5.1
		0	2.8-4.4	8	4.2-5.0	0	2.8-4.4	8	4.2-5.0
				1	3.6-4.9			1	3.9-4.9
				2W	3.6-4.9			2W	2.9-4.9
				0	3.4-4.7			0	3.4-4.7
Alcohol	mg/dL	21	0-10	21	0-9	21	0-10	21	0-9
		0	0-10	0	0-9	0	0-10	0	0-9
Alkaline Phosphatase	U/L	19	38-126	18	38-126	19	38-126	18	38-126
		17	59-164	16	65-260	17	48-95	16	50-130
		15	89-356	14	130-525	15	54-128	14	70-230
		13	124-492	12	200-495	13	62-260	12	105-420
		10	140-441	10	135-530	10	140-441	10	130-560
		1	151-362	7	175-420	1	151-362	7	175-420
		15D	131-493	4	150-380	15D	131-493	4	150-380
		0	90-273	5D	145-320	0	90-273	5D	145-320
				0	110-300			0	110-300
Alanine Aminotransferase	U/L	19	11-58	18	<50	19	9-52	18	<35
		16	10-40	14	10-45	16	6-35	14	5-30
		14	10-45	4	10-55	14	6-30	4	10-35
		12	10-55	0	5-45	12	10-30	0	5-45
		10	10-35			10	10-30		
		7	10-35			7	10-35		
		4	10-25			4	10-25		
		1	6-45			1	6-45		
0	6-50			0	6-50				
Ammonia	umol/L	1Y	11-72	18	9-30	1Y	11-72	18	9-30
		0	11-72	0	9-33	0	11-72	0	9-33
Amylase	U/L	5D	25-125	18	30 - 110	5D	25-125	18	30 - 110
		0	5-65	1	<102	0	5-65	1	<102
				13W	<46			13W	<46
				2W	<30			2W	<30
				0	<30			0	<30
Aspartate Aminotransferase	U/L	19	17-59	18	17-59	19	14-36	18	14-36
		16	15-45	12	24-49	16	5-30	12	24-49
		12	15-40	7	24-46	12	10-30	7	24-46
		10	10-60	1	29-61	10	15-40	1	29-61
		4	15-50	2W	25-93	4	15-50	2W	25-93
		5D	20-60	0	34-218	5D	20-60	0	34-218
		0	35-140			0	35-140		
Beta Hydroxybutrate	mmol/L	0	<0.27	0	0.02-0.27	0	<0.27	0	0.02-0.27
Bilirubin, Direct	mg/dL	19	0.0-0.5	18	0.1-0.5	0.0-0.5	0.0-0.2	18	0.1-0.5
		15D	0.1-0.3	1M	<0.1	0.1-0.3	0.0-0.6	1M	<0.1
		0	0.3-0.7	0	<0.6	0.3-0.7		0	<0.6
Bilirubin, Neonatal	mg/dL	2	0.1-1.2	3M	not.est.	2	0.1-1.2	3M	not est.
		16D	0.1-1.2	1M	<1.1	16D	0.1-1.2	1M	<1.1
		15D	0.1-12.0	15D	<0.7	15D	0.1-12.0	15D	<0.7
		3D	0.1-12.0	3D	<11.7	3D	0.1-12.0	3D	<11.7
		2D	0.1-10.0	2D	<8.2	2D	0.1-10.0	2D	<8.2
		1D	0.1-10.0	1D	<8.2	1D	0.1-10.0	1D	<8.2
		0	0.1-6.0	0	<5.8	0	0.1-6.0	0	<5.8
Bilirubin, Total	mg/dL	2	0.1-1.2	18	0.2-1.3	2	0.1-1.2	18	0.2-1.3
		16D	0.1-1.2	2	<1.0	16D	0.1-1.2	2	<1.0
		15D	0.1-12.0	1M	<1.0	15D	0.1-12.0	1M	<1.0
		3D	0.1-12.0	0	Not Est.	3D	0.1-12.0	0	Not Est.
		2D	0.1-10.0			2D	0.1-10.0		
		1D	0.1-10.0			1D	0.1-10.0		
		0	0.1-6.0			0	0.1-6.0		
Blood Urea Nitrogen	mg/dL	19	8-26	18	9-20	19	10-20	18	7-17

		10	7-21	14	8-21	10	7-19	14	8-21
		1	9-22	4	7-17	1	9-22	4	7-17
		15D	3-17	1	5-17	15D	3-17	1	5-17
		0	3-23	7M	2-14	0	3-23	7M	2-14
				4M	1-14			4M	1-14
				1M	2-12			1M	2-12
				1W	2-16			1W	2-16
				1D	2-13			1D	2-13
Calcium	mg/dL	19	8.4-10.5	18	8.4-10.2	19	8.4-10.5	18	8.4-10.2
		12	8.8-10.8	1	8.9-10.2	12	8.8-10.8	1	8.9-10.2
		11D	9.0-11.0	0	8.3-10.6	11D	9.0-11.0	0	8.3-10.6
		0	7.6-10.4			0	7.6-10.4		
Carbon Dioxide	mmol/L	19	20-29	18	22-30	19	20-29	18	22-30
		7D	20-28	1	20-31	7D	20-28	1	20-31
		0	13-27	6M	18-29	0	13-27	6M	18-29
				1M	17-29			1M	17-29
				1W	17-27			1W	17-27
				0	17-26			0	17-26
Chloride	mmol/L	1M	98-110	18	98-107	1M	98-110	18	98-107
		0	98-113	1	96-109	0	98-113	1	96-109
				6M	96-108			6M	96-108
				1W	96-110			1W	96-110
				0	96-111			0	96-111
CKMB MASS	ng/mL	0	0.1-6.6	0	<2.4	0	0.1-6.6	0	<2.4
Creatine Kinase	U/L	19	20-259	18	55-170	19	20-225	18	30-135
		1	60-305	3M	30-150	1	60-305	3M	30-150
				0	28-300			0	28-300
Creatinine	mg/dL	19	0.80-1.50	18	0.66-1.25	19	0.70-1.20	18	0.52-1.04
		17	0.69-1.10	15	0.58-1.01	17	0.60-0.88	15	0.45-0.78
		15	0.65-1.04	12	0.42-0.76	15	0.59-0.86	12	0.42-0.76
		12	0.57-0.80	5	0.28-0.57	12	0.57-0.80	5	0.28-0.57
		7	0.52-0.69	2	0.18-0.40	7	0.52-0.69	2	0.18-0.40
		4	0.44-0.65	2W	0.09-0.33	4	0.44-0.65	2W	0.09-0.33
		1	0.39-0.55	0	0.31-0.86	1	0.39-0.55	0	0.31-0.86
		15D	0.31-0.53			15D	0.31-0.53		
		0	0.42-1.05			0	0.42-1.05		
C-Reactive Protein	mg/dL	15	0.1-0.8	18	<1.0	15	0.1-0.8	18	<1.0
		11	0.1-0.8	15	<0.2	11	0.1-0.8	15	<0.2
		4	0.1-0.8	2W	<0.1	4	0.1-1.0	2W	<0.1
		13M	0.1-1.2	0	<0.6	13M	0.1-0.8	0	<0.6
		91D	0.1-1.1			91D	0.1-0.8		
		0	0.1-1.6			0	0.1-1.6		
Gamma Glutamyl Transferase	U/L	0	12-64	18	15-73	0	12-64	18	12-43
				11	<17			11	<17
				1	<13			1	<13
				2W	<113			2W	<113
				0	19-196			0	19-196
Lactate Dehydrogenase	U/L	19	125-243	18	313-618	19	125-243	18	313-618
		15	130-250	16	340-670	15	130-250	16	340-670
		10	170-283	14	360-730	10	157-272	14	390-580
		1	192-321	12	470-750	1	192-321	12	380-640
		15D	163-452	10	432-700	15D	163-452	10	380-700
		0	309-1222	7	420-750	0	309-1222	7	420-750
				4	470-900			4	470-900
				1	500-920			1	500-920
				7M	380-1200			7M	460-1060
				4M	400-1230			4M	480-1150
				1M	480-1220			1M	460-1150
				1D	550-2100			1D	580-2000
Lactate	mmol/L	0	0.5-2.2	18	0.7-2.1	0	0.5-2.2	18	0.7-2.1
				2	<2.2			2	<2.2
				3M	<3.1			3M	<3.1
				0	<3.3			0	<3.3
Lipase	U/L	0	8-78	18	23 - 300	0	8-78	18	23-300
				0	<148			0	<148
Magnesium	mg/dL	0	1.9-2.7	18	1.6-2.3	0	1.9-2.7	18	1.6-2.3
				14	1.5-2.3			14	1.5-2.3
				10	1.6-2.2			10	1.6-2.2
				2	1.5-2.4			2	1.5-2.4
				1M	1.6-2.6			1M	1.6-2.6
				0	1.6-2.4			0	1.6-2.4

Phenobarbitol	ug/mL	0	15.0-40.0	0	10.0-40.0	0	15.0-40.0	0	10.0-40.0
Phosphorus	mg/dL	19	1.6-2.6	18	2.5-4.5	19	1.6-2.6	18	2.5-4.5
		12	1.7-2.2	16	3.0-5.2	12	1.7-2.2	16	3.0-4.8
		6	1.7-2.1	13	3.0-5.4	6	1.7-2.1	13	3.0-5.6
		6M	1.7-2.3	2	3.0-6.0	6M	1.7-2.3	2	2.5-6.0
		0	1.5-2.2	1	2.5-6.4	0	1.5-2.2	1	3.0-6.5
				3M	3.0-6.9			3M	2.5-7.0
				1M	3.0-6.8			1M	3.0-7.5
				0	2.7-7.2			0	3.0-8.0
Potassium	mmol/L	18	3.5-5.5	18	3.5-5.1	18	3.5-5.5	18	3.5-5.1
		29D	3.5-5.5	1	3.3-4.6	29D	3.5-5.5	1	3.3-4.6
		5D	4.1-5.3	1M	3.5-5.6	5D	4.1-5.3	1M	3.5-5.6
		0	3.7-5.9	0	3.2-5.6	0	3.7-5.9	0	3.2-5.6
Prealbumin	mg/dL	61	16-42	18	17-36	61	14-37	18	17-36
		13	18-45	16	22-38	13	16-38	16	18-36
		2	11-34	13	19-34	2	20-30	13	19-34
		0	7-25	5	15-28	0	8-25	5	15-28
				1	13-25			1	13-25
				2W	5-25			2W	5-26
				0	0-12			0	0-12
Salicylate	mg/dL	0	2.0-20.0	0	<20.0	0	2.0-20.0	0	<20.0
Sodium	mmol/L	18	136-145	18	137-145	18	136-145	18	137-145
		5D	136-145	1	134-143	5D	136-145	1	134-143
		0	133-146	6M	133-142	0	133-146	6M	133-142
				1M	134-142			1M	134-142
				1W	134-144			1W	134-144
				0	133-146			0	133-146
Total Protein	g/dL	19	6.0-8.3	18	6.3-8.2	19	6.0-8.3	18	6.3-8.2
		10	6.3-8.6	9	6.6-8.3	10	6.3-8.6	9	6.6-8.3
		7	6.2-8.1	6	6.5-7.9	7	6.2-8.1	6	6.5-7.9
		4	5.9-7.8	1	6.2-7.7	4	5.9-7.8	1	6.2-7.7
		1	5.9-7.0	2W	4.5-7.3	1	5.9-7.0	2W	4.5-7.3
		0	3.8-7.0	0	5.4-8.5	0	3.8-7.0	0	5.4-8.5
CSF Total Protein	mg/dL	1M	12-60	3M	<60	1M	12-60	3M	<60
		0	20-80	0	<100	0	20-80	0	<100
Thyroid Stimulating hormone	ng/mL	19	0.35-4.94	18	0.47-4.68	19	0.35-4.94	18	0.47-4.68
		14	0.47-3.41	6M	0.50-4.50	14	0.47-3.41	6M	0.50-4.50
		6M	0.70-1.17	1M	0.50-6.00	6M	0.70-1.17	1M	0.50-6.00
		4D	0.73-4.77	3D	0.50-6.50	4D	0.73-4.77	3D	0.50-6.50
				0	1.00-20.00			0	1.00-20.00
Triglyceride	mg/dL	0	15-150	1	45-215	0	15-150	1	45-215
				2W	55-283			2W	55-283
				0	88-284			0	88-284
Uric Acid	mg/dL	19	3.5-8.5	18	3.5-8.5	35	3.0-7.5	18	2.5-6.2
		14	3.0-7.0	12	2.6-7.5	14	3.0-6.0	12	2.6-7.5
		12	2.4-6.5	1	1.7-4.8	12	2.4-6.5	1	1.7-4.8
		2	2.2-5.9	2W	1.6-6.2	2	2.2-5.9	2W	1.6-6.2
		0	2.0-6.4	0	2.7-12.5	0	2.0-6.4	0	2.7-12.5
Valproic Acid	ug/mL	0	50-100	0	50-120	0	50-100	0	50-120
Vancomycin PRE	ug/mL	0	10.0-20.0	0	5.0-10.0	0	10.0-20.0	0	5.0-10.0
B-HCG	mIU/mL	OLD Pregnancy Ranges				NEW Pregnancy Ranges			
		2-4 weeks	39.1-8388	1-10 weeks	45-256740				
		5-6 weeks	861-88769	11-15 weeks	11556-265380				
		6-8 weeks	8636-218085	16-22 weeks	7481-111954				
		8-10 weeks	18700-244467	23-40 weeks	1531-101566				
		10-12 weeks	23143-181899						
		13-27 weeks	6303-97171						
		28-42 weeks	4360-74883						
		premenopausal	<5	premenopausal	<5				
		postmenopausal	<10	postmenopausal	<7				

