



Blood Gases

Name	Line No.	Specimen 6					Specimen 7					Specimen 8					Specimen 9					Specimen 10					No. of Labs
		Range & Type	Mean	SD	CV		Range & Type	Mean	SD	CV		Range & Type	Mean	SD	CV		Range & Type	Mean	SD	CV		Range & Type	Mean	SD	CV		

pH - Blood Gas

Last Updated: June 7th, 2022 11:00

Initial Grouping by Reagent

Osmetech Opti CCA	1	7.072 - 7.152	C	7.112	0.0097	0.1%	7.389 - 7.469	C	7.429	0.006	0.1%	7.075 - 7.155	C	7.1149	0.0083	0.1%	7.22 - 7.3	C	7.2598	0.0058	0.1%	7.073 - 7.153	C	7.113	0.0067	0.1%	18
Siemens/Alere epoc	2	7.073 - 7.153	C	7.1127	0.0038	0.1%	7.423 - 7.503	C	7.4628	0.0247	0.3%	7.074 - 7.154	C	7.114	0.0212	0.3%	7.205 - 7.285	C	7.2447	0.0392	0.5%	7.078 - 7.158	C	7.118	0.0189	0.3%	6
Abbott i-STAT thermal	3	7.135 - 7.215	C	7.1746	0.0091	0.1%	7.461 - 7.541	C	7.5008	0.0067	0.1%	7.129 - 7.209	C	7.1689	0.0094	0.1%	7.264 - 7.344	C	7.3042	0.0043	0.1%	7.131 - 7.211	C	7.1711	0.0073	0.1%	9

Initial Grouping by Sensitivity or Principle

AVL instruments	4	7.072 - 7.152	C	7.112	0.0097	0.1%	7.389 - 7.469	C	7.429	0.006	0.1%	7.075 - 7.155	C	7.1149	0.0083	0.1%	7.22 - 7.3	C	7.2598	0.0058	0.1%	7.073 - 7.153	C	7.113	0.0067	0.1%	18
Siemens instruments	5	7.078 - 7.158	C	7.118	0.0135	0.2%	7.428 - 7.508	C	7.4683	0.0265	0.4%	7.081 - 7.161	# C	7.1209	0.0258	0.4%	7.216 - 7.296	# C	7.256	0.0457	0.6%	7.083 - 7.163	C	7.1227	0.021	0.3%	7
Abbott instruments	6	7.136 - 7.216	C	7.1755	0.0087	0.1%	7.461 - 7.541	C	7.5005	0.0063	0.1%	7.129 - 7.209	C	7.1694	0.0085	0.1%	7.264 - 7.344	C	7.3042	0.0039	0.1%	7.132 - 7.212	C	7.1715	0.0067	0.1%	11
IL Instruments	7	7.14 - 7.22	C	7.18	0.0112	0.2%	7.516 - 7.596	C	7.556	0.0049	0.1%	7.122 - 7.202	C	7.162	0.0133	0.2%	7.304 - 7.384	C	7.344	0.0185	0.3%	7.142 - 7.222	C	7.182	0.0133	0.2%	5

Total Population

Whole Population	8	7.099 - 7.179	C	7.1393	0.0328	0.5%	7.431 - 7.511	C	7.4711	0.0448	0.6%	7.097 - 7.177	C	7.137	0.0284	0.4%	7.243 - 7.323	C	7.2825	0.037	0.5%	7.1 - 7.18	C	7.1403	0.0315	0.4%	42
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pCO2

Last Updated: June 3rd, 2022 18:09

Initial Grouping by Reagent

Osmetech Opti CCA	1	67.3 - 79.0	P	73.19	3.49	4.8%	25.7 - 35.7	C	30.72	0.93	3.0%	60.1 - 70.6	P	65.34	1.8	2.8%	19.0 - 29.0	C	23.98	1.05	4.4%	66.8 - 78.5	P	72.66	1.67	2.3%	18
Siemens/Alere epoc	2	59.0 - 69.2	P	64.12	1.96	3.1%	23.7 - 33.7	C	28.7	2.17	7.6%	53.8 - 63.8	C	58.77	2.44	4.2%	15.1 - 25.1	C	20.06	2.96	14.8%	60.2 - 70.7	P	65.42	1.92	2.9%	6
Abbott i-STAT thermal	3	59.2 - 69.5	P	64.38	2.3	3.6%	22.9 - 32.9	C	27.86	1.74	6.2%	52.6 - 62.6	C	57.61	2.79	4.8%	15.9 - 25.9	C	20.93	1.62	7.7%	60.0 - 70.4	P	65.21	2.11	3.2%	9

Initial Grouping by Sensitivity or Principle

AVL instruments	4	67.3 - 79.0	P	73.19	3.49	4.8%	25.7 - 35.7	C	30.72	0.93	3.0%	60.1 - 70.6	P	65.34	1.8	2.8%	19.0 - 29.0	C	23.98	1.05	4.4%	66.8 - 78.5	P	72.66	1.67	2.3%	18
All other methods	5	60.4 - 70.9	# P	65.63	4.12	6.3%	24.3 - 34.3	C	29.26	2.43	8.3%	55.0 - 65.0	# C	59.99	3.74	6.2%	15.5 - 25.5	C	20.52	2.89	14.1%	61.4 - 72.1	# P	66.74	3.7	5.5%	7
Abbott instruments	6	58.8 - 69.1	P	63.95	2.28	3.6%	22.6 - 32.6	C	27.58	1.67	6.1%	53.1 - 63.1	C	58.05	2.76	4.8%	16.2 - 26.2	C	21.21	1.58	7.4%	60.1 - 70.6	P	65.35	1.94	3.0%	11
IL instruments	7	69.6 - 81.6	P	75.6	2.5	3.3%	26.4 - 36.4	C	31.4	1.2	3.8%	63.5 - 74.5	P	69.0	1.41	2.0%	17.8 - 27.8	C	22.8	0.75	3.3%	71.0 - 83.4	P	77.2	3.06	4.0%	5

Total Population

Whole Population	8	63.9 - 75.0	P	69.48	5.76	8.3%	24.7 - 34.7	C	29.69	2.07	7.0%	57.7 - 67.7	P	62.73	4.68	7.5%	17.6 - 27.6	C	22.56	2.13	9.4%	64.3 - 75.4	P	69.85	5.18	7.4%	42
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pO2

Last Updated: June 3rd, 2022 18:09

Initial Grouping by Reagent

Osmetech Opti CCA	1	72 - 103	S	87.4	5.3	6.1%	92 - 127	S	109.6	5.8	5.3%	67 - 91	S	78.9	4.0	5.1%	128 - 203	S	165.4	12.4	7.5%	76 - 95	S	85.9	3.2	3.7%	18
Siemens/Alere epoc	2	47 - 90	S	68.3	7.2	10.5%	76 - 98	S	86.8	3.8	4.4%	43 - 67	S	55.2	4.1	7.4%	116 - 157	S	136.8	6.8	5.0%	55 - 71	S	63.0	2.8	4.4%	6
Abbott i-STAT thermal	3	73 - 110	S	91.3	6.1	6.7%	94 - 135	S	114.7	6.7	5.8%	61 - 96	S	78.4	5.7	7.3%	132 - 189	S	160.3	9.4	5.9%	69 - 110	S	89.6	6.9	7.7%	9

Initial Grouping by Sensitivity or Principle

AVL instruments	4	72 - 103	S	87.4	5.3	6.1%	92 - 127	S	109.6	5.8	5.3%	67 - 91	S	78.9	4.0	5.1%	128 - 203	S	165.4	12.4	7.5%	76 - 95	S	85.9	3.2	3.7%	18
All other methods	5	46 - 94	S	70.1	8.0	11.4%	58 - 124	S	91.1	11.1	12.2%	39 - 75	S	57.0	5.9	10.4%	95 - 191	S	142.9	16.1	11.3%	46 - 85	S	65.4	6.5	9.9%	7
Abbott instruments	6	69 - 114	S	91.6	7.6	8.3%	93 - 134	S	113.7	6.8	6.0%	61 - 95	S	77.8	5.6	7.2%	134 - 186	S	159.8	8.7	5.4%	68 - 109	S	88.5	7.0	7.9%	11
IL instruments	7	73 - 107	S	90.0	5.7	6.3%	106 - 139	S	122.6	5.5	4.5%	60 - 103	S	81.8	7.2	8.8%	156 - 198	S	177.0	7.0	4.0%	72 - 111	S	91.6	6.5	7.1%	5
Total Population																											
Whole Population	8	57 - 115	S	86.0	9.8	11.4%	75 - 144	S	109.3	11.5	10.5%	46 - 105	S	75.3	9.8	13.0%	116 - 207	S	161.5	15.1	9.3%	53 - 115	S	84.0	10.2	12.1%	42

Chloride - Blood Gas

Last Updated: June 7th, 2022 10:17

Initial Grouping by Reagent

Siemens/Alere epoc	1	88 - 97	P	92.8	1.5	1.6%	114 - 125	P	119.5	1.5	1.3%	76 - 83	P	79.5	0.5	0.6%	112 - 124	P	118.3	0.4	0.3%	88 - 98	P	93.0	1.2	1.3%	4
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Initial Grouping by Sensitivity or Principle

All other methods	2	90 - 99	? P	94.6	3.9	4.1%	115 - 127	P	121.0	3.3	2.7%	77 - 85	? P	80.8	2.6	3.2%	114 - 126	? P	120.0	3.5	2.9%	90 - 100	? P	94.8	3.8	4.0%	5
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Total Population

Whole Population	3	90 - 99	P	94.7	5.4	5.7%	113 - 125	P	119.4	5.5	4.6%	78 - 86	P	82.1	4.9	6.0%	114 - 126	P	119.6	5.5	4.6%	91 - 101	P	96.3	6.3	6.5%	8
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Glucose - Blood Gas

Last Updated: June 3rd, 2022 18:05

Initial Grouping by Reagent

Siemens/Alere epoc	1	139 - 170	P	154.5	6.3	4.1%	69 - 84	P	76.3	3.3	4.3%	172 - 210	P	191.3	6.4	3.3%	79 - 97	P	88.0	2.9	3.3%	143 - 175	P	159.0	4.2	2.6%	4
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Initial Grouping by Sensitivity or Principle

All other methods	2	139 - 170	P	154.5	6.3	4.1%	69 - 84	P	76.3	3.3	4.3%	172 - 210	P	191.3	6.4	3.3%	79 - 97	P	88.0	2.9	3.3%	143 - 175	P	159.0	4.2	2.6%	4
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Total Population

Whole Population	3	138 - 169	P	153.5	5.6	3.6%	70 - 85	P	77.3	3.2	4.1%	170 - 208	P	189.3	6.4	3.4%	80 - 97	P	88.5	3.2	3.6%	140 - 172	P	156.0	5.7	3.7%	6
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Ionized Calcium

Last Updated: June 3rd, 2022 18:09

Initial Grouping by Sensitivity or Principle

All other methods	1	1.9 - 2.4	C	2.1	0.12	5.7%	0.6 - 1.1	C	0.85	0.05	5.9%	1.8 - 2.3	C	2.0	0.12	6.0%	0.5 - 1.0	C	0.75	0.05	6.7%	1.9 - 2.4	C	2.1	0.12	5.7%	4
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Total Population

Whole Population	2	1.8 - 2.3	C	2.09	0.29	13.9%	0.6 - 1.1	C	0.86	0.05	5.8%	1.7 - 2.2	C	1.99	0.19	9.5%	0.5 - 1.0	C	0.77	0.07	9.1%	1.8 - 2.3	C	2.06	0.26	12.6%	8
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Lactate

Last Updated: June 3rd, 2022 18:09

Initial Grouping by Reagent

Siemens/Alere epoc	1	4.4 - 8.4	C	6.4	0.25	3.9%	0 - 3.7	C	1.68	0.11	6.5%	5.4 - 9.4	? C	7.35	0.65	8.8%	0 - 3.3	C	1.25	0.15	12.0%	4.2 - 8.2	C	6.15	0.42	6.8%	4
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Initial Grouping by Sensitivity or Principle

All other methods	2	4.4 - 8.4	C	6.4	0.25	3.9%	0 - 3.7	C	1.68	0.11	6.5%	5.4 - 9.4	C	7.35	0.65	8.8%	0 - 3.3	C	1.25	0.15	12.0%	4.2 - 8.2	C	6.15	0.42	6.8%	4
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Total Population

Whole Population	3	3.3 - 7.3	C	5.27	1.33	25.2%	0 - 3.6	C	1.62	0.15	9.3%	3.9 - 7.9	C	5.9	1.26	21.4%	0 - 3.1	C	1.06	0.29	27.4%	3.1 - 7.1	C	5.11	1.24	24.3%	7
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Potassium - Blood Gas

Last Updated: June 3rd, 2022 18:05

Initial Grouping by Reagent

Siemens/Alere epoc	1	3.2 - 4.2	C	3.7	0.07	1.9%	6.2 - 7.2	C	6.65	0.21	3.2%	2.1 - 3.1	C	2.6	0.12	4.6%	5.6 - 6.6	C	6.1	0.16	2.6%	3.2 - 4.2	C	3.7	0.07	1.9%	4
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Initial Grouping by Sensitivity or Principle

All other methods	2	3.2 - 4.2	C	3.68	0.07	1.9%	6.0 - 7.0	C	6.54	0.29	4.4%	2.1 - 3.1	C	2.58	0.12	4.7%	5.5 - 6.5	C	6.0	0.24	4.0%	3.2 - 4.2	C	3.68	0.07	1.9%	5
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Total Population

Whole Population	3	3.2 - 4.2	C	3.66	0.1	2.7%	5.9 - 6.9	C	6.38	0.38	6.0%	2.1 - 3.1	C	2.59	0.11	4.2%	5.4 - 6.4	C	5.89	0.3	5.1%	3.2 - 4.2	C	3.65	0.12	3.3%	8
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Sodium - Blood Gas

Last Updated: June 7th, 2022 10:14

Initial Grouping by Reagent

Siemens/Alere epoc	1	133 - 141	C	136.5	1.1	0.8%	153 - 161	C	156.5	2.1	1.3%	116 - 124	C	120.3	2.9	2.4%	136 - 144	? C	139.5	3.2	2.3%	132 - 140	C	135.8	1.3	1.0%	4
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Initial Grouping by Sensitivity or Principle

All other methods	2	131 - 139 ? C	135.2	2.8	2.1%	151 - 159 ? C	154.8	3.9	2.5%	115 - 123 C	119.4	3.1	2.6%	134 - 142 ? C	137.8	4.4	3.2%	131 - 139 ? C	134.6	2.6	1.9%	5
Total Population																						
Whole Population	3	131 - 139 C	134.6	3.7	2.7%	152 - 160 C	155.7	4.0	2.6%	115 - 123 C	119.1	3.9	3.3%	135 - 143 C	139.0	4.9	3.5%	130 - 138 C	134.0	3.8	2.8%	8