



Blood Gases

Name	Line No.	Specimen 1			Specimen 2			Specimen 3			Specimen 4			Specimen 5			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	
pH - Blood Gas																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	7.076 - 7.156	C 7.1161	0.0173	7.231 - 7.311	C 7.2706	0.0121	7.408 - 7.488	C 7.4476	0.0118	7.08 - 7.16	C 7.1195	0.0163	7.421 - 7.501	C 7.4614	0.0144	36
Abbott i-STAT thermal	2	7.116 - 7.196	C 7.1564	0.0107	7.277 - 7.357	C 7.3167	0.0069	7.477 - 7.557	C 7.5173	0.0065	7.114 - 7.194	C 7.1543	0.0117	7.506 - 7.586	C 7.5455	0.0233	21
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	7.076 - 7.156	C 7.1161	0.0173	7.231 - 7.311	C 7.2706	0.0121	7.408 - 7.488	C 7.4476	0.0118	7.08 - 7.16	C 7.1195	0.0163	7.421 - 7.501	C 7.4614	0.0144	36
IL instruments	4	7.123 - 7.203	C 7.1631	0.0091	7.277 - 7.357	C 7.3169	0.0082	7.511 - 7.591	C 7.5508	0.0127	7.125 - 7.205	C 7.1654	0.0101	7.559 - 7.639	C 7.5992	0.0104	13
Abbott instruments	5	7.118 - 7.198	C 7.1581	0.0109	7.277 - 7.357	C 7.3172	0.0066	7.476 - 7.556	C 7.5156	0.0085	7.115 - 7.195	C 7.1545	0.0105	7.506 - 7.586	C 7.5459	0.0208	27
Total Population																	
Whole Population	6	7.097 - 7.177	C 7.1368	0.025	7.25 - 7.33	C 7.29	0.0268	7.442 - 7.522	C 7.4819	0.0433	7.095 - 7.175	C 7.1349	0.027	7.467 - 7.547	C 7.5071	0.0535	94
pCO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	71.8 - 84.3	P 78.07	3.25	44.5 - 54.5	C 49.53	1.52	18.1 - 28.1	C 23.12	0.9	70.9 - 83.3	P 77.1	2.73	27.3 - 37.3	C 32.27	1.53	36
Abbott i-STAT thermal	2	62.7 - 73.6	P 68.19	2.92	37.4 - 47.4	C 42.37	1.41	15.3 - 25.3	C 20.33	0.71	63.2 - 74.2	P 68.7	2.71	23.6 - 33.6	C 28.63	1.06	21
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	71.8 - 84.3	P 78.07	3.25	44.5 - 54.5	C 49.53	1.52	18.1 - 28.1	C 23.12	0.9	70.9 - 83.3	P 77.1	2.73	27.3 - 37.3	C 32.27	1.53	36
IL instruments	4	75.2 - 88.3	P 81.77	2.99	45.6 - 55.6	C 50.62	1.15	15.5 - 25.5	C 20.54	0.63	76.6 - 89.9	P 83.23	1.97	28.2 - 38.2	C 33.15	0.66	13
Abbott instruments	5	62.3 - 73.1	P 67.7	3.19	37.0 - 47.0	C 42.0	1.63	15.0 - 25.0	C 20.03	0.89	63.2 - 74.2	P 68.7	2.64	23.4 - 33.4	C 28.44	1.3	27
Total Population																	
Whole Population	6	69.7 - 81.8	P 75.73	6.42	42.9 - 52.9	C 47.85	4.28	16.5 - 26.5	C 21.49	1.69	70.0 - 82.1	P 76.04	5.9	26.6 - 36.6	C 31.61	2.72	94
pO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	73 - 99	S 86.1	4.3	62 - 86	S 74.2	3.9	142 - 202	S 171.8	10.0	73 - 98	S 85.6	4.3	90 - 130	S 109.7	6.6	36
Abbott i-STAT thermal	2	72 - 103	S 87.4	5.2	56 - 96	S 75.8	6.7	144 - 187	S 165.5	7.1	67 - 108	S 87.2	6.9	87 - 129	S 107.8	7.1	21
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	73 - 99	S 86.1	4.3	62 - 86	S 74.2	3.9	142 - 202	S 171.8	10.0	73 - 98	S 85.6	4.3	90 - 130	S 109.7	6.6	36
IL instruments	4	79 - 95	S 86.8	2.7	66 - 81	S 73.5	2.5	171 - 194	S 182.2	3.9	82 - 95	S 88.7	2.2	106 - 125	S 115.2	3.2	13
Abbott instruments	5	69 - 109	S 89.3	6.7	54 - 99	S 76.8	7.5	144 - 186	S 165.0	6.9	67 - 107	S 87.2	6.7	88 - 128	S 107.9	6.6	27
Total Population																	
Whole Population	6	64 - 106	S 85.3	7.0	46 - 98	S 72.1	8.7	141 - 202	S 171.8	10.2	63 - 106	S 84.7	7.2	89 - 130	S 109.6	6.7	94
Chloride - Blood Gas																	
Total Population																	
Whole Population	1	91 - 100	P 95.4	7.8	82 - 90	P 85.8	6.1	111 - 122	P 116.4	9.6	91 - 100	P 95.4	7.4	117 - 130	P 123.5	13.0	8
Glucose - Blood Gas																	
Total Population																	
Whole Population	1	142 - 174	P 157.8	14.7	45 - 57	C 50.6	1.4	81 - 99	P 89.6	6.2	143 - 175	P 159.4	15.4	67 - 82	P 74.8	6.4	5
Ionized Calcium																	
Total Population																	

Whole Population	1	2.1 - 2.6	C 2.36	0.34	0.4 - 0.9	C 0.63	0.05	0.6 - 1.1	C 0.82	0.06	2.1 - 2.6	C 2.36	0.37	0.7 - 1.2	C 0.96	0.11	9
------------------	---	-----------	--------	------	-----------	--------	------	-----------	--------	------	-----------	--------	------	-----------	--------	------	---

Lactate

Total Population																	
Whole Population	1	2.2 - 6.2	C 4.19	1.0	5.3 - 9.3	C 7.33	1.47	0 - 3.4	C 1.35	0.26	2.2 - 6.2	C 4.22	1.12	0 - 2.9	C 0.94	0.05	10

Potassium - Blood Gas

Total Population																	
Whole Population	1	3.3 - 4.3	C 3.83	0.2	1.6 - 2.6	C 2.14	0.14	5.7 - 6.7	C 6.21	0.4	3.3 - 4.3	C 3.81	0.15	6.4 - 7.4	C 6.92	0.5	12

Sodium - Blood Gas

Total Population																	
Whole Population	1	135 - 143	C 139.3	6.4	121 - 129	C 124.8	5.9	142 - 150	C 145.8	7.7	135 - 143	C 138.7	5.6	159 - 167	C 162.6	10.5	12