



Blood Gases

Name	Line No.	Specimen 6			Specimen 7			Specimen 8			Specimen 9			Specimen 10			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	6.896 - 6.976	C 6.9361	0.0104	7.225 - 7.305	C 7.2646	0.0076	7.212 - 7.292	C 7.2518	0.0083	6.896 - 6.976	C 6.9364	0.0106	7.226 - 7.306	C 7.2662	0.0076	29
Abbott i-STAT thermal	2	6.871 - 6.951	C 6.9111	0.0087	7.272 - 7.352	C 7.3121	0.0092	7.266 - 7.346	C 7.3059	0.0057	6.871 - 6.951	C 6.9109	0.0094	7.273 - 7.353	C 7.3131	0.0072	17
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	6.896 - 6.976	C 6.9361	0.0104	7.225 - 7.305	C 7.2646	0.0076	7.212 - 7.292	C 7.2518	0.0083	6.896 - 6.976	C 6.9364	0.0106	7.226 - 7.306	C 7.2662	0.0076	29
IL instruments	4	6.899 - 6.979	C 6.9392	0.0126	7.348 - 7.428	C 7.3883	0.0069	7.313 - 7.393	C 7.3533	0.0103	6.902 - 6.982	C 6.9417	0.0134	7.348 - 7.428	C 7.3883	0.0069	12
Abbott instruments	5	6.871 - 6.951	C 6.9105	0.0085	7.272 - 7.352	C 7.3122	0.0089	7.266 - 7.346	C 7.3055	0.0056	6.872 - 6.952	C 6.9115	0.0092	7.273 - 7.353	C 7.3131	0.0068	20
Total Population																	
Whole Population	6	6.884 - 6.964	C 6.924	0.0248	7.262 - 7.342	C 7.3021	0.0467	7.247 - 7.327	C 7.2871	0.0401	6.881 - 6.961	C 6.9212	0.0328	7.263 - 7.343	C 7.3033	0.0462	72
pCO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	75.5 - 88.6	P 82.08	2.14	52.8 - 62.8	C 57.84	1.65	47.6 - 57.6	C 52.6	1.3	74.7 - 87.6	P 81.15	2.77	52.3 - 62.3	C 57.25	1.58	29
Abbott i-STAT thermal	2	65.0 - 76.3	P 70.67	2.75	44.5 - 54.5	C 49.51	2.28	40.2 - 50.2	C 45.21	1.75	65.5 - 76.9	P 71.17	3.25	44.2 - 54.2	C 49.24	1.95	17
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	75.5 - 88.6	P 82.08	2.14	52.8 - 62.8	C 57.84	1.65	47.6 - 57.6	C 52.6	1.3	74.7 - 87.6	P 81.15	2.77	52.3 - 62.3	C 57.25	1.58	29
IL instruments	4	76.3 - 89.6	P 82.92	2.98	53.3 - 63.3	C 58.33	1.97	49.1 - 59.1	C 54.08	1.75	75.6 - 88.7	P 82.17	2.54	53.3 - 63.3	C 58.33	2.29	12
Abbott instruments	5	65.6 - 77.0	P 71.27	3.16	44.7 - 54.7	C 49.68	2.33	40.4 - 50.4	C 45.42	1.85	65.5 - 76.9	P 71.22	3.15	44.4 - 54.4	C 49.41	1.95	20
Total Population																	
Whole Population	6	73.1 - 85.8	P 79.45	6.19	50.6 - 60.6	C 55.61	4.32	45.8 - 55.8	C 50.82	4.02	72.7 - 85.3	P 78.99	6.33	50.2 - 60.2	C 55.19	4.31	72
pO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	45 - 75	S 60.1	5.1	174 - 248	S 210.6	12.3	147 - 206	S 176.7	9.9	48 - 75	S 61.2	4.5	160 - 257	S 208.5	16.2	29
Abbott i-STAT thermal	2	33 - 79	S 56.0	7.7	154 - 242	S 197.9	14.7	139 - 202	S 170.4	10.5	40 - 67	S 53.6	4.5	152 - 240	S 196.2	14.7	17
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	45 - 75	S 60.1	5.1	174 - 248	S 210.6	12.3	147 - 206	S 176.7	9.9	48 - 75	S 61.2	4.5	160 - 257	S 208.5	16.2	29
IL instruments	4	43 - 66	S 54.1	3.8	194 - 225	S 209.6	5.1	161 - 202	S 181.3	6.9	46 - 66	S 56.0	3.5	189 - 230	S 209.8	6.9	12
Abbott instruments	5	34 - 79	S 56.8	7.5	157 - 239	S 198.2	13.7	141 - 200	S 170.7	9.7	39 - 70	S 54.6	5.1	155 - 239	S 196.6	14.0	20
Total Population																	
Whole Population	6	27 - 83	S 55.1	9.5	160 - 252	S 206.2	15.4	142 - 208	S 175.3	11.0	29 - 82	S 55.6	8.8	151 - 257	S 204.1	17.8	72
Chloride - Blood Gas																	
Total Population																	
Whole Population	1	110 - 122	P 116.0	6.7	99 - 110	P 104.5	11.5	105 - 117	P 111.0	11.1	110 - 122	P 115.8	6.7	99 - 109	P 103.8	11.3	6
Glucose - Blood Gas																	
Total Population																	
Whole Population	1	32 - 44	C 37.8	0.8	85 - 103	P 94.0	9.9	189 - 231	P 210.0	19.1	32 - 44	C 37.8	0.8	85 - 104	P 94.3	10.4	4
Ionized Calcium																	
Total Population																	

Whole Population	1	2.3 - 2.8	C 2.55	0.26	1.0 - 1.5	C 1.27	0.07	0.7 - 1.2	C 0.97	0.05	2.3 - 2.8	C 2.53	0.24	1.0 - 1.5	C 1.28	0.09	6
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Lactate

Total Population																	
Whole Population	1	4.7 - 8.7	C 6.7	2.56	0 - 2.7	C 0.73	0.05	1.0 - 5.0	C 2.95	0.99	3.5 - 7.5	C 5.53	2.69	0 - 2.8	C 0.77	0.09	6

Potassium - Blood Gas

Total Population																	
Whole Population	1	2.9 - 3.9	C 3.36	0.16	3.9 - 4.9	C 4.37	0.39	4.1 - 5.1	C 4.6	0.27	2.9 - 3.9	C 3.36	0.13	3.9 - 4.9	C 4.36	0.38	9

Sodium - Blood Gas

Total Population																	
Whole Population	1	125 - 133	C 129.0	7.5	129 - 137	C 133.1	11.6	146 - 154	C 150.3	10.0	125 - 133	C 128.7	7.2	129 - 137	C 132.9	11.3	9