



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																	
Abbott i-STAT thermal	1	7.291 - 7.371	C 7.3312	0.0055	6.867 - 6.947	C 6.9069	0.0124	7.278 - 7.358	C 7.3179	0.006	7.268 - 7.348	C 7.3081	0.0044	6.861 - 6.941	C 6.9007	0.0119	21
Osmetech Opti CCA	2	7.227 - 7.307	C 7.2674	0.01	6.9 - 6.98	C 6.9396	0.0178	7.21 - 7.29	C 7.2497	0.0077	7.227 - 7.307	C 7.2667	0.0087	6.896 - 6.976	C 6.9357	0.0175	33
Initial Grouping by Sensitivity or Principle																	
Abbott instruments	3	7.293 - 7.373	C 7.3328	0.0099	6.867 - 6.947	C 6.907	0.0121	7.278 - 7.358	C 7.3176	0.0063	7.269 - 7.349	C 7.3086	0.0046	6.863 - 6.943	C 6.9025	0.0145	26
AVL instruments	4	7.227 - 7.307	C 7.2674	0.01	6.9 - 6.98	C 6.9396	0.0178	7.21 - 7.29	C 7.2497	0.0077	7.227 - 7.307	C 7.2667	0.0087	6.896 - 6.976	C 6.9357	0.0175	33
IL instruments	5	7.349 - 7.429	C 7.3885	0.0095	6.909 - 6.989	C 6.9485	0.0077	7.31 - 7.39	C 7.35	0.0068	7.271 - 7.351	C 7.3108	0.0073	6.904 - 6.984	C 6.9438	0.0084	13
Total Population																	
Whole Population	6	7.27 - 7.35	C 7.3099	0.0473	6.879 - 6.959	C 6.9188	0.0386	7.248 - 7.328	C 7.2884	0.0428	7.246 - 7.326	C 7.2858	0.0232	6.879 - 6.959	C 6.9191	0.028	89
pCO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	51.9 - 61.9	C 56.89	1.78	73.5 - 86.3	P 79.92	2.21	48.1 - 58.1	C 53.12	1.71	44.9 - 54.9	C 49.87	1.17	74.2 - 87.1	P 80.69	2.51	34
Abbott i-STAT thermal	2	45.0 - 55.0	C 49.95	2.06	65.1 - 76.4	P 70.77	2.42	41.8 - 51.8	C 46.75	1.5	38.3 - 48.3	C 43.28	1.52	65.1 - 76.5	P 70.81	2.95	21
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	51.9 - 61.9	C 56.89	1.78	73.5 - 86.3	P 79.92	2.21	48.1 - 58.1	C 53.12	1.71	44.9 - 54.9	C 49.87	1.17	74.2 - 87.1	P 80.69	2.51	34
Abbott instruments	4	44.8 - 54.8	C 49.81	1.98	65.1 - 76.4	P 70.78	2.32	41.8 - 51.8	C 46.75	1.54	38.2 - 48.2	C 43.15	1.59	64.9 - 76.2	P 70.55	3.25	26
IL instruments	5	53.5 - 63.5	C 58.54	1.99	72.8 - 85.5	P 79.15	2.38	48.9 - 58.9	C 53.85	1.61	46.9 - 56.9	C 51.92	1.07	74.8 - 87.8	P 81.31	2.4	13
Total Population																	
Whole Population	6	50.2 - 60.2	C 55.16	3.98	72.0 - 84.5	P 78.22	6.39	46.5 - 56.5	C 51.5	3.77	43.5 - 53.5	C 48.48	4.01	72.5 - 85.0	P 78.75	6.92	89
pO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	176 - 248	S 212.3	12.1	48 - 73	S 60.9	4.2	136 - 212	S 174.0	12.7	60 - 84	S 72.0	3.8	43 - 75	S 58.6	5.4	34
Abbott i-STAT thermal	2	158 - 231	S 194.6	12.3	21 - 98	S 59.4	13.0	144 - 190	S 166.8	7.7	57 - 91	S 74.0	5.5	22 - 87	S 54.3	10.9	21
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	176 - 248	S 212.3	12.1	48 - 73	S 60.9	4.2	136 - 212	S 174.0	12.7	60 - 84	S 72.0	3.8	43 - 75	S 58.6	5.4	34
Abbott instruments	4	153 - 231	S 192.3	13.0	22 - 97	S 59.4	12.4	139 - 192	S 165.5	9.0	53 - 98	S 75.8	7.5	23 - 88	S 55.1	10.8	26
IL instruments	5	181 - 229	S 205.0	8.1	43 - 66	S 54.5	4.0	160 - 199	S 179.6	6.6	64 - 82	S 73.2	3.1	36 - 68	S 52.3	5.3	13
Total Population																	
Whole Population	6	150 - 259	S 204.3	18.2	18 - 92	S 55.0	12.4	132 - 212	S 172.4	13.3	48 - 95	S 71.5	7.8	16 - 88	S 52.1	12.0	89
Chloride - Blood Gas																	
Total Population																	
Whole Population	1	97 - 107	P 102.3	10.7	108 - 120	P 114.0	6.2	104 - 115	P 109.5	9.4	81 - 90	P 85.3	5.5	108 - 119	P 113.6	6.0	8
Glucose - Blood Gas																	
Total Population																	
Whole Population	1	91 - 112	P 101.6	13.3	31 - 43	C 37.2	0.7	201 - 246	P 223.4	24.5	45 - 57	C 50.6	1.4	31 - 43	C 37.2	1.2	5
Ionized Calcium																	
Total Population																	

Whole Population	1	1.1 - 1.6	C 1.33	0.18	2.4 - 2.9	C 2.68	0.29	0.7 - 1.2	C 0.94	0.09	0.4 - 0.9	C 0.62	0.04	2.4 - 2.9	C 2.67	0.29	9
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Lactate

Total Population																	
Whole Population	1	0 - 3.0	C 1.0	0.41	4.2 - 8.2	C 6.2	2.58	1.2 - 5.2	C 3.21	1.15	5.4 - 9.4	C 7.44	1.37	3.9 - 7.9	C 5.91	1.46	9

Potassium - Blood Gas

Total Population																	
Whole Population	1	3.9 - 4.9	C 4.35	0.33	2.9 - 3.9	C 3.39	0.17	4.1 - 5.1	C 4.57	0.25	1.7 - 2.7	C 2.16	0.1	2.9 - 3.9	C 3.4	0.15	11

Sodium - Blood Gas

Total Population																	
Whole Population	1	130 - 138	C 133.7	10.8	126 - 134	C 130.3	6.9	148 - 156	C 152.0	9.4	119 - 127	C 123.4	5.1	126 - 134	C 130.4	7.0	11