



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	6.893 - 6.973	C 6.9325	0.0119	7.206 - 7.286	C 7.2456	0.0098	7.222 - 7.302	C 7.262	0.0087	7.224 - 7.304	C 7.2639	0.0082	7.204 - 7.284	C 7.2443	0.0089	28
Abbott i-STAT thermal	2	6.872 - 6.952	C 6.9116	0.0094	7.264 - 7.344	C 7.3035	0.0091	7.278 - 7.358	C 7.318	0.0102	7.253 - 7.333	C 7.2929	0.0058	7.264 - 7.344	C 7.304	0.006	17
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	6.893 - 6.973	C 6.9325	0.0119	7.206 - 7.286	C 7.2456	0.0098	7.222 - 7.302	C 7.262	0.0087	7.224 - 7.304	C 7.2639	0.0082	7.204 - 7.284	C 7.2443	0.0089	28
IL instruments	4	6.903 - 6.983	C 6.9427	0.0121	7.313 - 7.393	C 7.3527	0.0075	7.348 - 7.428	C 7.3882	0.0119	7.272 - 7.352	C 7.3118	0.0094	7.312 - 7.392	C 7.3518	0.0111	11
Abbott instruments	5	6.872 - 6.952	C 6.9118	0.0088	7.264 - 7.344	C 7.3037	0.0086	7.278 - 7.358	C 7.3179	0.0095	7.253 - 7.333	C 7.2926	0.0056	7.264 - 7.344	C 7.3035	0.006	20
Total Population																	
Whole Population	6	6.88 - 6.96	C 6.9202	0.0273	7.243 - 7.323	C 7.2831	0.0413	7.261 - 7.341	C 7.3006	0.0475	7.24 - 7.32	C 7.2797	0.0225	7.241 - 7.321	C 7.2812	0.0415	72
pCO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	75.5 - 88.7	P 82.1	2.93	48.1 - 58.1	C 53.1	1.57	52.2 - 62.2	C 57.24	1.23	45.4 - 55.4	C 50.36	1.25	48.3 - 58.3	C 53.31	1.19	28
Abbott i-STAT thermal	2	64.3 - 75.5	P 69.89	2.2	40.8 - 50.8	C 45.84	2.19	44.2 - 54.2	C 49.15	1.73	38.2 - 48.2	C 43.22	1.27	40.2 - 50.2	C 45.23	1.42	17
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	75.5 - 88.7	P 82.1	2.93	48.1 - 58.1	C 53.1	1.57	52.2 - 62.2	C 57.24	1.23	45.4 - 55.4	C 50.36	1.25	48.3 - 58.3	C 53.31	1.19	28
IL instruments	4	74.7 - 87.7	P 81.18	2.72	48.1 - 58.1	C 53.09	1.62	53.7 - 63.7	C 58.73	1.42	46.2 - 56.2	C 51.18	0.83	49.6 - 59.6	C 54.55	1.3	11
Abbott instruments	5	64.5 - 75.8	P 70.14	2.36	40.8 - 50.8	C 45.83	2.06	44.1 - 54.1	C 49.1	1.75	38.2 - 48.2	C 43.24	1.18	40.4 - 50.4	C 45.44	1.47	20
Total Population																	
Whole Population	6	72.8 - 85.5	P 79.13	6.3	45.9 - 55.9	C 50.88	4.03	50.3 - 60.3	C 55.33	4.43	43.7 - 53.7	C 48.67	4.06	46.4 - 56.4	C 51.35	4.2	72
pO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	44 - 78	S 60.9	5.6	143 - 209	S 176.1	11.1	179 - 248	S 213.4	11.6	61 - 85	S 73.2	3.9	147 - 206	S 176.5	9.8	28
Abbott i-STAT thermal	2	22 - 95	S 58.8	12.1	150 - 192	S 170.8	6.9	158 - 233	S 195.7	12.6	63 - 90	S 76.4	4.5	139 - 195	S 167.1	9.4	17
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	44 - 78	S 60.9	5.6	143 - 209	S 176.1	11.1	179 - 248	S 213.4	11.6	61 - 85	S 73.2	3.9	147 - 206	S 176.5	9.8	28
IL instruments	4	40 - 67	S 53.4	4.4	165 - 193	S 179.3	4.6	200 - 220	S 209.9	3.4	66 - 81	S 73.4	2.5	166 - 190	S 178.3	4.0	11
Abbott instruments	5	24 - 94	S 59.1	11.6	150 - 192	S 171.2	7.1	158 - 233	S 195.3	12.5	63 - 90	S 76.9	4.5	141 - 194	S 167.5	9.0	20
Total Population																	
Whole Population	6	21 - 90	S 55.1	11.5	140 - 209	S 174.3	11.5	165 - 249	S 207.2	14.0	49 - 95	S 71.9	7.7	139 - 209	S 174.0	11.6	72
Chloride - Blood Gas																	
Total Population																	
Whole Population	1	111 - 122	P 116.5	6.5	105 - 116	P 110.7	10.1	100 - 110	P 104.8	11.3	83 - 92	P 87.2	6.0	105 - 116	P 110.3	10.2	6
Glucose - Blood Gas																	
Total Population																	
Whole Population	1	32 - 44	C 37.5	0.9	187 - 229	P 208.0	17.7	85 - 104	P 94.3	11.1	44 - 56	C 50.3	0.8	186 - 227	P 206.7	16.6	4
Ionized Calcium																	
Total Population																	

Whole Population	1	2.3 - 2.8	C 2.56	0.34	0.7 - 1.2	C 0.97	0.09	1.1 - 1.6	C 1.31	0.16	0.4 - 0.9	C 0.61	0.03	0.7 - 1.2	C 0.97	0.09	7
------------------	---	-----------	--------	------	-----------	--------	------	-----------	--------	------	-----------	--------	------	-----------	--------	------	---

Lactate

Total Population																	
Whole Population	1	4.4 - 8.4	C 6.4	1.69	1.0 - 5.0	C 3.0	0.98	0 - 3.0	C 1.04	0.42	5.6 - 9.6	C 7.58	1.37	1.0 - 5.0	C 3.0	0.94	5

Potassium - Blood Gas

Total Population																	
Whole Population	1	2.9 - 3.9	C 3.39	0.18	4.1 - 5.1	C 4.63	0.3	3.9 - 4.9	C 4.41	0.41	1.6 - 2.6	C 2.1	0.1	4.1 - 5.1	C 4.63	0.29	10

Sodium - Blood Gas

Total Population																	
Whole Population	1	127 - 135	C 130.9	8.3	149 - 157	C 152.8	10.9	131 - 139	C 135.2	12.9	121 - 129	C 125.0	6.6	149 - 157	C 153.3	11.1	10