Blood Gases

Name	Line No.	Specimen 1 Range & Type	Specimen 1 Mean	Specimen 1 SD	Specimen 2 Range & Type	Specimen 2 Mean	Specimen 2 SD	Specimen 3 Range & Type	Specimen 3 Mean	Specimen 3 SD	Specimen 4 Range & Type	Specimen 4 Mean	Specimen 4 SD	Specimen 5 Range & Type	Specimen 5 Mean	Specimen 5 SD	No. of Labs
pH - Blood Gas																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	7.213 - 7.293	C 7.2527	0.0097	7.4 - 7.48	C 7.4398	0.0137	7.077 - 7.157	C 7.1173	0.011	7.226 - 7.306	C 7.2658	0.01	7.218 - 7.298	C 7.2575	0.0108	37
Abbott i-STAT thermal	2	7.287 - 7.367	C 7.3272	0.0059	7.474 - 7.554	C 7.5135	0.0028	7.11 - 7.19	C 7.1495	0.0043	7.271 - 7.351	C 7.3111	0.0045	7.29 - 7.37	C 7.3304	0.0055	20
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	7.213 - 7.293	C 7.2527	0.0097	7.4 - 7.48	C 7.4398	0.0137	7.077 - 7.157	C 7.1173	0.011	7.226 - 7.306	C 7.2658	0.01	7.218 - 7.298	C 7.2575	0.0108	37
IL instruments	4	7.315 - 7.395	C 7.355	0.0076	7.506 - 7.586	C 7.5458	0.0104	7.119 - 7.199	C 7.1592	0.0111	7.27 - 7.35	C 7.31	0.0058	7.315 - 7.395	C 7.355	0.0096	12
Abbott instruments	5	7.288 - 7.368	C 7.3281	0.0072	7.474 - 7.554	C 7.5136	0.004	7.111 - 7.191	C 7.1506	0.0064	7.272 - 7.352	C 7.312	0.0054	7.29 - 7.37	C 7.3304	0.0053	26
Total Population																	
Whole Population	6	7.252 - 7.332	C 7.2922	0.0424	7.438 - 7.518	C 7.4779	0.0441	7.093 - 7.173	C 7.1333	0.0268	7.245 - 7.325	C 7.2845	0.0249	7.256 - 7.336	C 7.2957	0.0414	91
pCO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	47.7 - 57.7	C 52.71	1.56	18.0 - 28.0	C 23.04	0.81	72.2 - 84.8	P 78.5	2.95	45.5 - 55.5	C 50.47	1.45	46.2 - 56.2	C 51.16	3.13	37
Abbott i-STAT thermal	2	39.1 - 49.1	C 44.06	1.59	14.5 - 24.5	C 19.53	1.06	63.0 - 74.0	P 68.52	2.15	36.9 - 46.9	C 41.9	1.29	38.1 - 48.1	C 43.14	1.8	20
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	47.7 - 57.7	C 52.71	1.56	18.0 - 28.0	C 23.04	0.81	72.2 - 84.8	P 78.5	2.95	45.5 - 55.5	C 50.47	1.45	46.2 - 56.2	C 51.16	3.13	37
IL instruments	4	49.3 - 59.3	C 54.25	1.96	15.8 - 25.8	C 20.75	0.6	78.6 - 92.3	P 85.42	3.17	46.3 - 56.3	C 51.25	1.74	49.1 - 59.1	C 54.08	1.11	12
Abbott instruments	5	39.0 - 49.0	C 44.0	1.6	14.7 - 24.7	C 19.7	1.02	62.8 - 73.7	P 68.27	2.04	37.0 - 47.0	C 42.04	1.31	38.4 - 48.4	C 43.43	1.85	26
Total Population																	
Whole Population	6	45.5 - 55.5	C 50.48	4.66	16.4 - 26.4	C 21.43	1.72	70.5 - 82.7	P 76.61	6.89	43.6 - 53.6	C 48.55	4.46	44.6 - 54.6	C 49.58	4.89	91
pO2																	
Initial Grouping by Reagent																	
Osmetech Opti CCA	1	149 - 207	S 178.1	9.7	143 - 205	S 174.0	10.4	73 - 99	S 86.0	4.5	60 - 87	S 73.1	4.5	153 - 200	S 176.8	7.8	37
Abbott i-STAT thermal	2	146 - 186	S 166.0	6.6	140 - 180	S 159.9	6.7	66 - 102	S 84.1	6.1	57 - 87	S 72.1	5.1	148 - 179	S 163.4	5.1	20
Initial Grouping by Sensitivity or Principle																	
AVL instruments	3	149 - 207	S 178.1	9.7	143 - 205	S 174.0	10.4	73 - 99	S 86.0	4.5	60 - 87	S 73.1	4.5	153 - 200	S 176.8	7.8	37
IL instruments	4	156 - 193	S 174.7	6.2	150 - 210	S 180.2	10.0	81 - 94	S 87.8	2.1	66 - 78	S 71.8	1.9	168 - 192	S 180.4	4.0	12
Abbott instruments	5	141 - 187	S 164.0	7.8	136 - 182	S 159.0	7.7	65 - 104	S 84.6	6.5	54 - 92	S 73.2	6.3	138 - 184	S 160.9	7.7	26
Total Population																	
Whole Population	6	135 - 210	S 172.7	12.5	130 - 209	S 169.4	13.2	62 - 107	S 84.3	7.5	48 - 93	S 70.6	7.5	134 - 210	S 172.0	12.7	91
Chloride - Blood Gas																	
Total Population																	
Whole Population	1	104 - 115	P 109.4	10.6	110 - 122	P 116.1	9.6	91 - 100	P 95.3	7.5	82 - 91	P 86.3	6.2	105 - 116	P 110.0	10.4	7
Glucose - Blood Gas																	
Total Population																	
Whole Population	1	196 - 240	P 218.0	19.0	82 - 100	P 90.8	4.8	143 - 175	P 159.0	12.5	44 - 56	C 50.3	0.8	195 - 238	P 216.3	20.1	4
Ionized Calcium																	
Total Population																	

Whole Population	1	0.8 - 1.3	C 1.02	0.12	0.6 - 1.1	C 0.85	0.05	2.1 - 2.6	C 2.36	0.39	0.4 - 0.9	C 0.62	0.04	0.8 - 1.3	C 1.02	0.12	8

Lactate

Total Population

Whole Population	1	0.6 - 4.6	C 2.61	0.72	0 - 3.3	C 1.31	0.23	2.1 - 6.1	C 4.05	0.81	5.1 - 9.1	C 7.05	0.99	0.6 - 4.6	C 2.64	0.67	8

Potassium - Blood Gas

Total Population

Whole Population	1	4.1 - 5.1	C 4.62	0.29	5.7 - 6.7	C 6.16	0.32	3.3 - 4.3	C 3.78	0.14	1.7 - 2.7	C 2.15	0.12	4.1 - 5.1	C 4.64	0.3	11

Sodium - Blood Gas

Total Population

Whole Population	1	148 - 156	C 151.9	9.1	141 - 149	C 145.4	8.1	134 - 142	C 138.2	6.5	120 - 128	C 124.2	5.8	148 - 156	C 151.7	9.8	11