



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 Method																						
Abbott i-STAT thermal	1	7.137 - 7.217	C	7.1772	0.0110	7.254 - 7.334	C	7.2944	0.0085	7.423 - 7.503	C	7.4629	0.0078	7.529 - 7.609	C	7.5692	0.0048	7.645 - 7.725	C	7.6853	0.0055	62
Dia SL2000 ser/ITC Trupoint	2	7.103 - 7.183	C	7.1428	0.0167	7.233 - 7.312	C	7.2725	0.0275	7.402 - 7.482	C	7.4418	0.0238	7.524 - 7.604	C	7.5639	0.0249	7.613 - 7.693	C	7.6532	0.0223	11
IL GEM Premier 3000	3	7.067 - 7.147	C	7.1071	0.0064	7.21 - 7.29	C	7.2495	0.0059	7.396 - 7.476	C	7.4362	0.0074	7.488 - 7.568	C	7.5281	0.0051	7.608 - 7.688	C	7.6481	0.0081	21
Osmetech Opti CCA	4	7.099 - 7.179	C	7.1387	0.0092	7.212 - 7.292	C	7.2523	0.0097	7.387 - 7.467	C	7.4274	0.0101	7.46 - 7.54	C	7.5003	0.0077	7.583 - 7.663	C	7.6230	0.0124	76
Radiometer ABL80	5	7.098 - 7.178	C	7.1382	0.0113	7.206 - 7.286	C	7.2459	0.0118	7.368 - 7.448	C	7.4082	0.0147	7.474 - 7.554	C	7.5141	0.0180	7.544 - 7.624	C	7.5841	0.0166	17
Initial Grouping by Sensitivity or Principle																						
AVL instruments	6	7.099 - 7.179	C	7.1387	0.0097	7.212 - 7.292	C	7.2520	0.0108	7.387 - 7.467	C	7.4267	0.0106	7.46 - 7.54	C	7.4998	0.0082	7.582 - 7.662	C	7.6217	0.0147	80
Diametrics instruments	7	7.105 - 7.185	C	7.1447	0.0179	7.221 - 7.301	C	7.2615	0.0168	7.398 - 7.478	C	7.4377	0.0201	7.518 - 7.598	C	7.5575	0.0212	7.602 - 7.682	C	7.6424	0.0429	21
IL instruments	8	7.067 - 7.147	C	7.1070	0.0070	7.21 - 7.29	C	7.2500	0.0074	7.396 - 7.476	C	7.4357	0.0094	7.486 - 7.566	C	7.5260	0.0086	7.606 - 7.686	C	7.6460	0.0093	30
Radiometer instruments	9	7.097 - 7.177	C	7.1366	0.0129	7.208 - 7.288	C	7.2483	0.0131	7.373 - 7.453	C	7.4134	0.0156	7.473 - 7.553	C	7.5128	0.0310	7.552 - 7.632	C	7.5924	0.0275	29
Siemens instruments	10	7.088 - 7.168	C	7.1276	0.0217	7.212 - 7.292	C	7.2524	0.0113	7.387 - 7.467	C	7.4267	0.0112	7.461 - 7.541	C	7.5009	0.0098	7.573 - 7.652	C	7.6125	0.0114	14
All other methods	11	7.137 - 7.217	C	7.1767	0.0128	7.254 - 7.334	C	7.2943	0.0094	7.423 - 7.503	C	7.4625	0.0089	7.529 - 7.609	C	7.5685	0.0096	7.644 - 7.724	C	7.6842	0.0119	70
Total Population																						
Whole Population	12	7.105 - 7.185	C	7.1451	0.0265	7.225 - 7.305	C	7.2646	0.0227	7.398 - 7.478	C	7.4377	0.0209	7.489 - 7.569	C	7.5293	0.0327	7.6 - 7.68	C	7.6400	0.0364	253
pCO2																						
Initial Grouping by Method																						
Abbott i-STAT thermal	1	59.3 - 69.6	P	64.46	1.55	41.3 - 51.3	C	46.26	1.17	28.0 - 38.0	C	33.03	0.80	23.9 - 33.9	C	28.87	0.75	15.8 - 25.8	C	20.80	0.41	62
Dia SL2000 ser/ITC Trupoint	2	67.7 - 79.5	P	73.58	4.68	47.4 - 57.4	C	52.38	1.87	32.3 - 42.3	C	37.33	1.30	25.7 - 35.7	C	30.74	0.70	16.0 - 26.0	C	21.05	0.83	11
IL GEM Premier 3000	3	69.4 - 81.5	P	75.48	1.47	47.2 - 57.2	C	52.24	1.00	32.8 - 42.8	C	37.76	1.04	26.0 - 36.0	C	31.05	0.67	17.1 - 27.1	C	22.14	0.65	21

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		Range & Type	Mean	SD		Range & Type	Mean	SD		Range & Type	Mean	SD		Range & Type	Mean	SD		Range & Type	Mean	SD		
Osmetech Opti CCA	4	66.9 - 78.5	P	72.69	1.95	46.3 - 56.3	C	51.34	1.47	30.8 - 40.8	C	35.81	1.50	25.7 - 35.7	C	30.69	1.39	17.8 - 27.8	C	22.77	0.92	76
Radiometer ABL80	5	66.4 - 78.0	P	72.18	2.63	47.9 - 57.9	C	52.94	2.19	33.4 - 43.4	C	38.41	1.77	26.4 - 36.4	C	31.41	1.80	17.8 - 27.8	C	22.82	1.07	17
Initial Grouping by Sensitivity or Principle																						
AVL instruments	6	66.9 - 78.5	P	72.70	1.92	46.4 - 56.4	C	51.41	1.56	30.9 - 40.9	C	35.92	1.59	25.8 - 35.8	C	30.77	1.43	17.8 - 27.8	C	22.79	0.93	79
Diametrics	7	69.3 - 81.3	P	75.32	2.90	48.1 - 58.1	C	53.06	1.77	32.4 - 42.4	C	37.36	1.02	25.6 - 35.6	C	30.63	0.69	16.5 - 26.5	C	21.48	2.18	21
IL instruments	8	69.2 - 81.2	P	75.17	1.88	46.8 - 56.8	C	51.77	1.33	32.5 - 42.5	C	37.50	1.04	26.0 - 36.0	C	31.03	0.72	17.2 - 27.2	C	22.23	0.77	30
Radiometer instruments	9	65.9 - 77.4	P	71.66	2.59	47.6 - 57.6	C	52.59	1.88	33.2 - 43.2	C	38.24	1.53	26.3 - 36.3	C	31.31	2.21	18.1 - 28.1	C	23.07	1.77	29
Siemens instruments	10	67.3 - 79.1	P	73.20	5.02	48.2 - 58.2	C	53.18	2.98	33.2 - 43.2	C	38.21	1.56	26.6 - 36.6	C	31.59	1.35	18.0 - 28.0	C	23.05	1.44	14
All other methods	11	59.5 - 69.8	P	64.67	1.80	41.4 - 51.4	C	46.38	1.33	28.2 - 38.2	C	33.16	0.97	24.0 - 34.0	C	28.97	0.84	15.9 - 25.9	C	20.89	0.53	70
Total Population																						
Whole Population	12	65.1 - 76.5	P	70.80	4.67	45.4 - 55.4	C	50.38	3.08	30.9 - 40.9	C	35.88	2.31	25.4 - 35.4	C	30.38	1.58	17.1 - 27.1	C	22.05	1.20	252

pO2

Initial Grouping by Method

Abbott i-STAT thermal	1	126.0 - 193.0	S	159.4	11.1	111.0 - 173.0	S	141.7	10.3	82.0 - 117.0	S	99.5	5.8	155.0 - 240.0	S	197.7	14.2	101.0 - 152.0	S	126.2	8.5	61
Dia SL2000 ser/ITC Trupoint	2	146.0 - 189.0	S	167.6	7.1	141.0 - 160.0	S	150.4	3.2	81.0 - 122.0	S	101.4	6.9	176.0 - 287.0	S	231.2	18.5	118.0 - 150.0	S	133.7	5.4	11
IL GEM Premier 3000	3	158.0 - 184.0	S	171.2	4.4	135.0 - 163.0	S	148.8	4.7	83.0 - 97.0	S	90.0	2.2	210.0 - 240.0	S	225.0	4.9	120.0 - 142.0	S	131.0	3.8	21
Osmetech Opti CCA	4	124.0 - 196.0	S	160.0	11.9	108.0 - 170.0	S	139.3	10.3	77.0 - 106.0	S	91.8	4.9	178.0 - 254.0	S	216.1	12.6	101.0 - 146.0	S	123.9	7.5	76
Radiometer ABL80	5	129.0 - 200.0	S	164.8	11.8	120.0 - 161.0	S	140.8	6.9	64.0 - 106.0	S	84.9	7.0	166.0 - 270.0	S	218.4	17.4	100.0 - 150.0	S	125.4	8.4	17

Initial Grouping by Sensitivity or Principle

AVL instruments	6	125.0 - 195.0	S	160.1	11.7	109.0 - 171.0	S	139.7	10.3	76.0 - 109.0	S	92.3	5.6	179.0 - 253.0	S	216.0	12.4	101.0 - 147.0	S	124.3	7.6	79
Diametrics	7	147.0 - 184.0	S	165.8	6.1	136.0 - 162.0	S	148.8	4.4	82.0 - 119.0	S	100.6	6.1	150.0 - 292.0	S	221.2	23.6	117.0 - 155.0	S	136.0	6.4	21
IL instruments	8	155.0 - 186.0	S	170.4	5.2	131.0 - 165.0	S	147.9	5.6	83.0 - 97.0	S	89.9	2.2	205.0 - 242.0	S	223.8	6.2	120.0 - 142.0	S	131.2	3.6	30
Radiometer instruments	9	127.0 - 195.0	S	161.2	11.3	121.0 - 161.0	S	140.8	6.7	67.0 - 104.0	S	85.6	6.1	148.0 - 284.0	S	215.9	22.7	85.0 - 171.0	S	128.0	14.4	29
Siemens instruments	10	126.0 - 188.0	S	157.2	10.3	117.0 - 159.0	S	138.1	7.1	56.0 - 121.0	S	88.4	10.8	167.0 - 267.0	S	216.8	16.7	97.0 - 145.0	S	121.0	7.9	14
All other methods	11	126.0 - 194.0	S	159.9	11.3	110.0 - 174.0	S	142.0	10.5	82.0 - 118.0	S	99.8	6.0	153.0 - 243.0	S	198.0	15.1	102.0 - 151.0	S	126.5	8.3	69

Total Population

Whole Population	12	129.0 - 195.0	S	161.8	11.0	114.0 - 171.0	S	142.2	9.5	70.0 - 117.0	S	93.7	7.8	160.0 - 265.0	S	212.7	17.5	102.0 - 151.0	S	126.7	8.2	251
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Chloride - Blood Gas

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		
Initial Grouping by Method																						
Osmetech Opti CCA	1	89.0 - 98.0	P	93.2	2.6	89.0 - 99.0	P	93.9	2.5	101.0 - 112.0	P	106.5	2.1	87.0 - 96.0	P	91.6	1.3	121.0 - 134.0	P	127.4	3.2	10
Initial Grouping by Sensitivity or Principle																						
AVL instruments	2	89.0 - 98.0	P	93.2	2.6	88.0 - 98.0	P	93.1	3.6	101.0 - 111.0	P	105.9	2.8	87.0 - 96.0	P	91.6	1.3	120.0 - 133.0	P	126.7	3.8	11
Total Population																						
Whole Population	3	80.0 - 88.0	P	84.1	10.1	83.0 - 92.0	P	87.6	7.0	96.0 - 106.0	P	100.7	6.5	78.0 - 86.0	P	82.2	12.3	114.0 - 127.0	P	120.5	8.0	20
Glucose - Blood Gas																						
Whole Population	1	78.0 - 95.0	P	86.6	0.7	144.0 - 176.0	P	160.1	2.4	208.0 - 254.0	P	231.1	4.5	238.0 - 290.0	P	264.0	11.5	46.0 - 58.0	C	51.9	0.7	9
Ionized Calcium																						
Whole Population	1	1.3 - 1.8	C	1.58	0.07	0.9 - 1.4	C	1.14	0.07	1.1 - 1.6	C	1.36	0.06	0.7 - 1.2	C	0.92	0.10	0.4 - 0.9	C	0.64	0.07	18
Lactate																						
Whole Population	1	22.3 - 37.1	P	29.70	12.63	38.7 - 64.4	P	51.54	0.70	44.4 - 74.0	P	59.22	0.70	51.0 - 85.0	P	68.03	29.04	12.7 - 21.1	P	16.90	0.50	7
Potassium - Blood Gas																						
Initial Grouping by Method																						
Osmetech Opti CCA	1	7.3 - 8.3	C	7.83	0.18	2.1 - 3.1	C	2.61	0.11	3.8 - 4.8	C	4.33	0.12	2.9 - 3.9	C	3.41	0.10	6.3 - 7.3	C	6.77	0.10	15
Initial Grouping by Sensitivity or Principle																						
AVL instruments	2	7.3 - 8.3	C	7.82	0.17	2.1 - 3.1	C	2.60	0.12	3.8 - 4.8	C	4.33	0.12	2.9 - 3.9	C	3.41	0.10	6.3 - 7.3	C	6.78	0.10	16
All other methods	3	6.8 - 7.8	C	7.28	0.06	2.0 - 3.0	C	2.50	0.00	3.7 - 4.7	C	4.22	0.05	2.8 - 3.8	C	3.32	0.08	6.1 - 7.1	C	6.61	0.05	12
Total Population																						
Whole Population	4	7.9 - 8.9	C	8.43	4.91	3.6 - 4.6	C	4.14	8.75	5.4 - 6.4	C	5.95	9.44	5.3 - 6.3	C	5.84	13.53	6.5 - 7.5	C	7.02	1.84	33
Sodium - Blood Gas																						
Initial Grouping by Method																						
Osmetech Opti CCA	1	112.0 - 120.0	C	115.8	1.2	121.0 - 129.0	C	124.9	1.0	135.0 - 143.0	C	139.4	1.3	123.0 - 131.0	C	126.8	2.2	152.0 - 160.0	C	156.1	2.5	15
Initial Grouping by Sensitivity or Principle																						
AVL instruments	2	112.0 - 120.0	C	115.8	1.2	121.0 - 129.0	C	124.9	1.0	135.0 - 143.0	C	139.0	2.1	122.0 - 130.0	C	126.2	3.2	152.0 - 160.0	C	155.9	2.5	16
All other methods	3	106.0 - 114.0	C	110.4	0.7	118.0 - 126.0	C	121.8	0.8	132.0 - 140.0	C	135.5	0.7	117.0 - 125.0	C	121.1	1.2	150.0 - 158.0	C	153.9	0.9	12
Total Population																						
		109.0 -				119.0 -				133.0 -				120.0 -				151.0 -				

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	
Whole Population	4	117.0	C	113.4	2.8	127.0	C	123.3	2.0	141.0	C	137.3	2.4	128.0	C	123.7	3.5	159.0	C	154.8	2.4	32