AMERICAN ASSOCIATION OF BIOANALYSTS
205 West Levee St. Brownsville, TX 78520
(281) 436-5357 - (800) 234-5315 - Fax (713) 781-5008

PARTICIPANT STATISTICS

BLOOD GASES

Chemistry Q1 2010

		Specimen 1				Specimen 2				Specimen 3				Specimen 4				Specimen 5				
Name	Line No.	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	No. Labs
pH - Blood Gas																						
Initial Grouping by Method																						
Abbott i-STAT thermal	1	7.247-7.327	C	7.2870	0.008	7.174-7.254	C	7.2144	0.008	7.772-7.852	C	7.8117	0.005	7.409-7.489	C	7.4494	0.008	7.045-7.125	C	7.0847	0.011	73
Dia SL2000 ser/ITC Trupoint	2	7.231-7.311	C	7.2708	0.010	7.148-7.228	C	7.1883	0.010	7.726-7.806	C	7.7664	0.012	7.391-7.471	C	7.4308	0.011	7.008-7.087	C	7.0475	0.011	14
IL GEM Premier 3000	3	7.208-7.288	C	7.2482	0.008	7.128-7.208	C	7.1682	0.009	7.728-7.808	C	7.7684	0.007	7.387-7.467	C	7.4271	0.006	7.025-7.105	C	7.0645	0.011	34
Osmetech Opti CCA	4	7.211-7.291	C	7.2508	0.011	7.144-7.224	C	7.1841	0.013	7.716-7.796	C	7.7558	0.020	7.385-7.465	C	7.4248	0.010	7.056-7.136	C	7.0957	0.013	77
Radiometer NPT-7	5	7.217-7.297	C	7.2569	0.010	7.143-7.223	C	7.1831	0.009	7.689-7.769	C	7.7292	0.020	7.382-7.462	C	7.4223	0.009	7.041-7.121	C	7.0808	0.012	13
Radiometer ABL80	6	7.213-7.293	C	7.2527	0.013	7.143-7.223	C	7.1827	0.011	7.658-7.738	C	7.6982	0.025	7.369-7.449	C	7.4091	0.016	7.003-7.083	C	7.0427	0.017	11
Initial Grouping by Sensitivity or Principle																						
AVL instruments	7	7.210-7.290	C	7.2504	0.012	7.145-7.225	C	7.1848	0.017	7.712-7.792	C	7.7524	0.028	7.385-7.465	C	7.4251	0.015	7.057-7.137	C	7.0967	0.020	82
Diametrics instruments	8	7.230-7.310	C	7.2696	0.014	7.153-7.233	C	7.1932	0.014	7.728-7.808	C	7.7679	0.013	7.391-7.471	C	7.4308	0.011	7.010-7.090	C	7.0500	0.013	24
IL instruments	9	7.210-7.289	C	7.2495	0.010	7.128-7.208	C	7.1680	0.008	7.726-7.806	C	7.7664	0.008	7.387-7.466	C	7.4265	0.006	7.029-7.109	C	7.0688	0.017	40
Radiometer instruments	10	7.215-7.295	C	7.2547	0.010	7.143-7.223	C	7.1830	0.010	7.663-7.743	C	7.7035	0.026	7.387-7.467	C	7.4269	0.081	7.023-7.103	C	7.0630	0.025	37
Siemens instruments	11	7.221-7.301	C	7.2611	0.014	7.148-7.228	C	7.1877	0.016	7.671-7.751	C	7.7110	0.009	7.383-7.463	C	7.4228	0.010	7.033-7.113	C	7.0734	0.014	18
All other methods	12	7.253-7.333	C	7.2931	0.057	7.176-7.256	C	7.2157	0.014	7.770-7.850	C	7.8100	0.012	7.409-7.489	C	7.4493	0.011	7.047-7.127	C	7.0869	0.013	81
Total Population																						
Whole Population	13	7.224-7.304	C	7.2645	0.041	7.152-7.232	C	7.1922	0.022	7.721-7.801	C	7.7614	0.042	7.393-7.473	C	7.4330	0.032	7.041-7.121	C	7.0809	0.025	295

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BLOOD GASES

Chemistry Q1 2010

		Specimen 1				Specimen 2				Specimen 3				Specimen 4				Specimen 5				
Name	Line No.	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	No. Labs
pCO2																						
Initial Grouping by Method																						
Abbott i-STAT thermal	1	40.3-50.3	C	45.34	1.3	49.6-59.6	C	54.61	1.7	12.3-22.3	C	17.29	0.6	28.4-38.4	C	33.36	0.9	57.1-67.1	C	62.15	2.2	73
Dia SL2000 ser/ITC Trupoint	2	47.4-57.4	C	52.45	2.0	60.4-70.8	P	65.60	2.3	9.8-19.8	C	14.83	0.7	32.7-42.7	C	37.73	0.8	64.7-76.0	P	70.36	3.0	14
IL GEM Premier 3000	3	47.8-57.8	C	52.82	1.6	58.7-69.0	P	63.85	1.8	10.6-20.6	C	15.62	0.8	34.2-44.2	C	39.15	0.8	64.6-75.8	P	70.21	2.3	34
Osmetech Opti CCA	4	46.3-56.3	C	51.29	1.6	56.5-66.5	C	61.51	2.4	12.1-22.1	C	17.10	0.8	30.6-40.6	C	35.60	1.5	59.8-70.2	P	64.97	2.3	78
Radiometer NPT-7	5	46.9-56.9	C	51.92	1.6	57.2-67.2	C	62.23	1.8	12.4-22.4	C	17.38	1.7	33.2-43.2	C	38.23	1.2	63.1-74.0	P	68.54	2.1	13
Radiometer ABL80	6	47.5-57.5	C	52.45	1.9	59.5-69.9	P	64.73	2.1	11.6-21.6	C	16.64	1.4	33.5-43.5	C	38.55	1.6	67.2-78.9	P	73.09	2.7	11
Initial Grouping by Sensitivity or Principle																						
AVL instruments	7	46.2-56.2	C	51.24	1.8	56.4-66.4	C	61.39	3.1	12.2-22.2	C	17.17	1.0	30.7-40.7	C	35.74	1.6	59.7-70.1	P	64.87	2.6	82
Diametrics	8	47.4-57.4	C	52.43	1.8	59.9-70.3	P	65.11	2.7	9.8-19.8	C	14.80	0.7	32.7-42.7	C	37.70	1.1	63.7-74.8	P	69.28	3.2	24
IL instruments	9	47.4-57.4	C	52.40	1.9	58.6-68.8	P	63.72	1.7	10.7-20.7	C	15.70	0.8	34.2-44.2	C	39.15	0.9	63.9-75.0	P	69.42	3.0	40
Radiometer instruments	10	46.7-56.7	C	51.74	1.7	57.9-68.0	P	62.96	2.3	12.1-22.1	C	17.08	1.4	33.2-43.2	C	38.20	1.2	64.4-75.6	P	70.04	4.0	37
Siemens instruments	11	46.7-56.7	C	51.72	1.2	57.6-67.7	P	62.65	1.6	12.4-22.4	C	17.44	1.2	33.4-43.4	C	38.37	1.8	64.4-75.6	P	70.04	2.2	18
All other methods	12	40.4-50.4	C	45.45	1.5	49.6-59.6	C	54.63	2.1	12.3-22.3	C	17.29	0.5	28.5-38.5	C	33.45	1.1	57.0-67.0	C	62.03	2.4	81
Total Population																						
Whole Population	13	44.9-54.9	C	49.92	3.3	55.4-65.4	C	60.37	4.5	11.8-21.8	C	16.85	1.3	31.3-41.3	C	36.26	2.5	60.7-71.3	P	66.01	4.5	292

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pO2																						
Initial Grouping by Method																						
Abbott i-STAT thermal	1	115-177	S	146.0	10	51-94	S	72.7	7	143-220	S	181.3	13	82-118	S	100.2	6	37-83	S	60.0	8	73
Dia SL2000 ser/ITC Trupoint	2	132-165	S	148.4	6	42-69	S	55.3	4	175-235	S	205.1	10	62-134	S	98.1	12	24-58	S	41.2	6	14
IL GEM Premier 3000	3	138-162	S	150.1	4	43-59	S	51.2	3	191-219	S	205.1	5	83-97	S	89.8	2	20-42	S	31.0	4	34
Osmetech Opti CCA	4	111-163	S	137.0	9	49-80	S	64.9	5	157-222	S	189.1	11	76-102	S	89.1	4	40-64	S	52.0	4	78
Radiometer NPT-7	5	128-147	S	137.9	3	32-48	S	39.5	3	170-211	S	190.2	7	67-96	S	81.2	5	13-28	S	20.3	3	13
Radiometer ABL80	6	119-159	S	139.1	7	24-48	S	35.6	4	148-243	S	195.7	16	67-96	S	81.5	5	1-33	S	17.1	5	11
Initial Grouping by Sensitivity or Principle																						
AVL instruments	7	108-166	S	137.0	10	30-105	S	67.4	12	157-221	S	189.3	11	73-106	S	89.4	5	20-90	S	54.8	12	82
Diametrics	8	131-164	S	147.7	6	3-122	S	62.6	20	159-247	S	202.8	15	67-125	S	96.1	10	0-102	S	47.2	18	24
IL instruments	9	134-167	S	150.6	5	40-64	S	52.2	4	187-221	S	204.0	6	82-98	S	90.2	3	14-51	S	32.7	6	40
Radiometer instruments	10	119-156	S	137.6	6	8-72	S	39.8	11	155-230	S	192.3	12	61-104	S	82.3	7	0-40	S	19.5	7	37
Siemens instruments	11	116-156	S	135.8	7	12-66	S	39.2	9	173-210	S	191.2	6	58-104	S	81.1	8	0-63	S	22.8	13	18
All other methods	12	115-176	S	145.4	10	39-109	S	74.1	12	114-243	S	178.7	21	78-123	S	100.4	7	29-92	S	60.7	11	81
Total Population																						
Whole Population	13	113-172	S	142.4	10	32-92	S	61.9	10	148-234	S	191.4	14	65-118	S	91.3	9	22-75	S	48.6	9	292

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Chloride - Blood Gas																						
Total Population																						
Whole Population	1	78-87	P	82.5	5	72-80	P	76.0	5	105-116	P	110.7	5	92-101	P	96.4	4	115-127	P	121.0	3	12

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Glucose - Blood Gas																						
Total Population																						
Whole Population	1	140-172	P	156.0	6	252-307	P	279.5	4	33-45	C	39.2	2	204-250	P	226.8	2	106-130	P	118.2	1	6

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Ionized Calcium																						
Total Population																						
Whole Population	1	1.0-1.5	C	1.25	0.6	1.8-2.3	C	2.08	1.1	0.8-1.3	C	1.07	0.6	1.3-1.8	C	1.56	0.8	2.0-2.5	C	2.25	1.2	26

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Name	Line No.	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	Range & Type		Mean	SD	No. Labs
Potassium - Blood Gas																						
Initial Grouping by Sensitivity or Principle																						
AVL instruments	1	2.1-3.1	C	2.56	0.1	2.5-3.5	C	2.98	0.1	1.7-2.7	C	2.21	0.1	3.8-4.8	C	4.28	0.1	5.0-6.0	C	5.51	0.1	10
All other methods	2	2.0-3.0	C	2.54	0.1	2.5-3.5	C	2.98	0.0	1.8-2.8	C	2.30	0.0	3.7-4.7	C	4.20	0.0	5.0-6.0	C	5.52	0.1	12
Total Population																						
Whole Population	3	2.0-3.0	C	2.54	0.1	2.5-3.5	C	2.97	0.1	1.7-2.7	C	2.25	0.1	3.7-4.7	C	4.23	0.1	5.1-6.1	C	5.57	0.1	35

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Sodium - Blood Gas																						
Initial Grouping by Method																						
Abbott i-STAT thermal	1	118-126	C	122.2	1	111-119	C	115.0	0	154-162	C	157.5	1	131-139	C	135.5	1	145-153	C	149.2	0	11
Osmetech Opti CCA	2	121-129	C	124.6	2	113-121	C	117.3	1	154-162	C	157.8	2	134-142	C	138.3	1	146-154	C	150.3	1	10
Initial Grouping by Sensitivity or Principle																						
AVL instruments	3	121-129	C	124.8	2	114-122	C	117.6	2	154-162	C	157.5	2	134-142	C	138.5	1	146-154	C	150.1	3	12
All other methods	4	118-126	C	122.2	1	111-119	C	115.0	0	154-162	C	157.6	1	131-139	C	135.4	1	145-153	C	149.4	1	14
Total Population																						
Whole Population	5	118-126	C	122.4	2	112-120	C	115.5	2	154-162	C	158.1	2	132-140	C	136.0	2	145-153	C	149.3	2	35