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Therapeutic Substance Monitoring/Quantitative Toxicology Proficiency Test Program

Statistical Summary - January 2016 (Event 16-1)

This statistical report summarizes participant data for the five Therapeutic Substance Monitoring proficiency survey specimens shipped 25 January 2016. Test samples (Vials T26, T27, T28, T29, T30) were prepared by the quantitative transfer of constituents to pooled human serum. The material was subsequently sterile filtered, dispensed into aliquots, stored at -80°C, and distributed to participants for analysis.

Results for individual instrument and reagent systems where the number of laboratories using those systems is three or greater are provided. Mean and Standard Deviation (± 1 SD) values are calculated by a robust statistical technique that does not assume a Gaussian distribution.

Disclaimer:

Note: The use of brand and/or trade names in this report does not constitute an endorsement of the products on the part of the Wadsworth Center or the New York State Department of Health

Should you have any questions regarding this report, please contact the Therapeutic Substance Monitoring Section at (518) 474-0005.

Summary of Participant Performance (Mean and Standard Deviation)

Acetaminophen (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
33.86 ± 4.18	63.30 ± 3.17	126.34 ± 7.52	73.52 ± 5.81	117.07 ± 7.74	n = 120	[---] All Methods & Instruments
31.5	60.3	123.0	70.1	116.0		[---] Weigh-in value
						<Instruments>
31.55 ± 0.57	60.05 ± 0.69	123.06 ± 0.82	70.15 ± 0.77	113.61 ± 0.68	n = 11	[ABJ] Abbott Architect c System
32.38 ± 1.69	61.21 ± 3.21	120.47 ± 7.03	69.52 ± 4.88	112.41 ± 8.10	n = 15	[OLC] Beckman Coulter AU Chemistry System
32.21 ± 1.92	65.11 ± 0.54	133.02 ± 3.82	74.70 ± 1.19	121.17 ± 2.17	n = 5	[BCG] Beckman Coulter UniCel Dx ^c 600
32.21 ± 2.04	63.74 ± 2.07	135.19 ± 1.36	73.67 ± 1.61	123.17 ± 0.86	n = 3	[BCH] Beckman Coulter UniCel Dx ^c 800
34.66 ± 0.54	64.38 ± 0.68	132.66 ± 1.24	78.02 ± 1.21	124.81 ± 0.60	n = 8	[JJG] Ortho Vitros 5600
23.01 ± 0.69	49.70 ± 1.39	110.71 ± 2.70	60.06 ± 1.81	101.65 ± 2.87	n = 11	[ROC] Roche cobas c501
30.75 ± 0.28	58.62 ± 1.57	119.39 ± 2.07	68.69 ± 1.94	110.87 ± 2.39	n = 5	[BYE] Siemens ADVIA 1800
36.09 ± 1.17	63.92 ± 1.26	128.92 ± 1.65	75.97 ± 0.99	119.54 ± 1.63	n = 17	[DUE] Siemens Dimension EXL
37.26 ± 1.09	65.12 ± 0.97	129.16 ± 1.68	76.76 ± 0.98	119.76 ± 2.05	n = 30	[DUT] Siemens Dimension Vista
34.85 ± 1.18	64.57 ± 1.34	130.13 ± 0.50	77.32 ± 0.59	121.60 ± 1.56	n = 3	[DUX] Siemens Dimension Xpand
						<Reagents>
31.63 ± 0.59	60.03 ± 0.80	123.05 ± 0.94	70.11 ± 0.87	113.60 ± 0.68	n = 9	[AB1] Abbott
31.64 ± 2.48	64.79 ± 1.43	133.91 ± 3.25	74.41 ± 1.31	122.07 ± 2.01	n = 9	[BC1] Beckman Coulter
32.48 ± 1.14	61.04 ± 2.97	121.23 ± 6.15	69.27 ± 4.24	113.16 ± 5.57	n = 12	[OL1] Beckman Coulter AU Series
34.85 ± 0.41	64.64 ± 0.65	132.85 ± 1.57	78.08 ± 1.42	124.86 ± 1.59	n = 12	[JJ1] Ortho Clinical Diagnostics
23.04 ± 0.64	49.53 ± 1.37	110.18 ± 3.12	59.68 ± 1.92	101.30 ± 2.92	n = 13	[RO4] Roche cobas c311/c501/c502/c701/c702
30.87 ± 0.41	58.59 ± 1.22	119.99 ± 2.31	69.08 ± 1.96	111.46 ± 2.35	n = 6	[BY1] Siemens ADVIA/ADVIS Centaur
36.76 ± 1.36	64.70 ± 1.22	129.16 ± 1.62	76.57 ± 1.05	119.72 ± 1.94	n = 51	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Carbamazepine (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
5.38 ± 0.59	13.54 ± 0.94	3.98 ± 0.38	7.48 ± 0.66	6.75 ± 0.59	n = 114	[---] All Methods & Instruments
5.6	14.1	4.2	7.9	7.1		[---] Weigh-in value
						<Instruments>
5.41 ± 0.31	14.60 ± 0.93	4.10 ± 0.18	7.18 ± 0.49	6.58 ± 0.37	n = 4	[ABJ] Abbott Architect c System
5.20 ± 0.24	12.79 ± 0.47	3.81 ± 0.18	7.12 ± 0.38	6.41 ± 0.34	n = 8	[ABH] Abbott Architect i System
5.82 ± 0.58	14.09 ± 0.81	4.27 ± 0.46	8.10 ± 0.65	7.50 ± 0.65	n = 13	[OLC] Beckman Coulter AU Chemistry System
4.87 ± 0.39	13.09 ± 0.42	3.60 ± 0.21	7.00 ± 0.25	6.47 ± 0.37	n = 5	[BCG] Beckman Coulter UniCel DxC 600
4.78 ± 0.31	13.43 ± 0.38	3.59 ± 0.27	6.93 ± 0.32	6.26 ± 0.38	n = 4	[BCH] Beckman Coulter UniCel DxC 800
4.18 ± 0.25	12.07 ± 0.52	3.14 ± 0.18	6.04 ± 0.26	5.51 ± 0.37	n = 8	[JJG] Ortho Vitros 5600
5.75 ± 0.31	13.69 ± 0.20	4.02 ± 0.21	7.91 ± 0.35	7.10 ± 0.22	n = 7	[ROC] Roche cobas c501
5.50 ± 0.09	13.97 ± 0.14	4.03 ± 0.05	7.60 ± 0.00	6.73 ± 0.05	n = 3	[ROT] Roche Cobas INTEGRA 800
6.25 ± 0.36	13.92 ± 1.75	4.52 ± 0.50	7.96 ± 0.47	6.46 ± 1.08	n = 3	[BYE] Siemens ADVIA 1800
5.96 ± 0.53	15.34 ± 1.56	4.37 ± 0.22	8.35 ± 0.80	7.66 ± 0.73	n = 7	[COB] Siemens ADVIA Centaur
5.40 ± 0.19	13.87 ± 0.48	4.02 ± 0.13	7.50 ± 0.26	6.70 ± 0.31	n = 11	[DUE] Siemens Dimension EXL
5.32 ± 0.29	13.43 ± 0.53	4.00 ± 0.19	7.44 ± 0.33	6.74 ± 0.24	n = 31	[DUT] Siemens Dimension Vista
						<Reagents>
5.26 ± 0.29	13.18 ± 1.16	3.91 ± 0.22	7.14 ± 0.42	6.46 ± 0.36	n = 12	[AB1] Abbott
4.87 ± 0.36	13.34 ± 0.49	3.61 ± 0.21	6.99 ± 0.27	6.43 ± 0.49	n = 10	[BC1] Beckman Coulter
5.78 ± 0.54	14.02 ± 0.70	4.27 ± 0.41	8.05 ± 0.57	7.34 ± 0.69	n = 9	[OL1] Beckman Coulter AU Series
4.14 ± 0.28	11.99 ± 0.52	3.09 ± 0.09	5.99 ± 0.29	5.45 ± 0.45	n = 9	[JJ1] Ortho Clinical Diagnostics
5.71 ± 0.29	13.65 ± 0.18	4.10 ± 0.17	7.76 ± 0.35	7.02 ± 0.20	n = 7	[RO4] Roche cobas c311/c501/c502/c701/c702
5.47 ± 0.09	13.87 ± 0.25	4.07 ± 0.09	7.60 ± 0.00	6.78 ± 0.13	n = 4	[RO1] Roche Integra and MIRA
6.04 ± 0.50	15.18 ± 1.33	4.31 ± 0.23	8.26 ± 0.67	7.51 ± 0.68	n = 9	[BY1] Siemens ADVIA/ADVIa Centaur
6.25 ± 0.36	13.92 ± 1.75	4.52 ± 0.50	7.96 ± 0.47	6.46 ± 1.08	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
5.33 ± 0.25	13.57 ± 0.58	4.00 ± 0.18	7.46 ± 0.32	6.74 ± 0.26	n = 43	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Digoxin ($\mu\text{g/L}$)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
1.102 \pm 0.127	1.290 \pm 0.122	0.705 \pm 0.103	3.107 \pm 0.241	2.029 \pm 0.179	n = 150	[---] All Methods & Instruments
1.1	1.3	0.7	3.1	2.0		[---] Weigh-in value
						<Instruments>
1.165 \pm 0.105	1.348 \pm 0.097	0.747 \pm 0.110	3.052 \pm 0.132	2.000 \pm 0.106	n = 4	[ABJ] Abbott Architect c System
1.000 \pm 0.000	1.138 \pm 0.056	0.600 \pm 0.000	2.735 \pm 0.079	1.811 \pm 0.054	n = 10	[ABH] Abbott Architect i System
1.197 \pm 0.050	1.363 \pm 0.059	0.808 \pm 0.041	3.269 \pm 0.120	2.167 \pm 0.051	n = 3	[SAA] Beckman Coulter ACCESS
1.072 \pm 0.099	1.275 \pm 0.090	0.720 \pm 0.093	3.042 \pm 0.217	2.027 \pm 0.124	n = 17	[OLC] Beckman Coulter AU Chemistry System
1.034 \pm 0.126	1.244 \pm 0.085	0.671 \pm 0.083	2.974 \pm 0.137	1.990 \pm 0.081	n = 6	[BCG] Beckman Coulter UniCel DxC 600
0.977 \pm 0.155	1.149 \pm 0.180	0.511 \pm 0.138	2.852 \pm 0.162	1.802 \pm 0.166	n = 5	[BCH] Beckman Coulter UniCel DxC 800
0.971 \pm 0.067	1.184 \pm 0.047	0.626 \pm 0.080	3.030 \pm 0.115	1.870 \pm 0.131	n = 9	[JJG] Ortho Vitros 5600
1.030 \pm 0.109	1.265 \pm 0.109	0.679 \pm 0.089	2.852 \pm 0.096	1.903 \pm 0.064	n = 9	[ROC] Roche cobas c501
1.053 \pm 0.105	1.236 \pm 0.047	0.694 \pm 0.010	2.903 \pm 0.086	1.925 \pm 0.054	n = 3	[ROT] Roche Cobas INTEGRA 800
0.965 \pm 0.083	1.167 \pm 0.069	0.578 \pm 0.049	2.990 \pm 0.091	1.934 \pm 0.131	n = 3	[BYE] Siemens ADVIA 1800
1.349 \pm 0.065	1.550 \pm 0.055	0.879 \pm 0.086	3.395 \pm 0.149	2.353 \pm 0.087	n = 10	[COB] Siemens ADVIA Centaur
1.189 \pm 0.067	1.358 \pm 0.059	0.766 \pm 0.088	3.316 \pm 0.142	2.182 \pm 0.087	n = 19	[DUE] Siemens Dimension EXL
1.108 \pm 0.023	1.290 \pm 0.020	0.700 \pm 0.012	3.174 \pm 0.056	2.025 \pm 0.048	n = 32	[DUT] Siemens Dimension Vista
1.080 \pm 0.018	1.334 \pm 0.073	0.668 \pm 0.024	3.356 \pm 0.065	2.142 \pm 0.113	n = 3	[DUX] Siemens Dimension Xpand
1.203 \pm 0.015	1.489 \pm 0.087	0.819 \pm 0.065	3.298 \pm 0.219	2.192 \pm 0.106	n = 4	[DPD] Siemens Immulite 2000
						<Reagents>
1.007 \pm 0.088	1.179 \pm 0.107	0.600 \pm 0.000	2.805 \pm 0.164	1.848 \pm 0.096	n = 14	[AB1] Abbott
1.071 \pm 0.153	1.266 \pm 0.124	0.675 \pm 0.144	3.031 \pm 0.229	1.996 \pm 0.196	n = 17	[BC1] Beckman Coulter
1.106 \pm 0.089	1.318 \pm 0.076	0.748 \pm 0.098	3.085 \pm 0.198	2.052 \pm 0.130	n = 12	[OL1] Beckman Coulter AU Series
0.953 \pm 0.085	1.166 \pm 0.084	0.600 \pm 0.105	3.012 \pm 0.111	1.843 \pm 0.128	n = 11	[JJ1] Ortho Clinical Diagnostics
1.033 \pm 0.098	1.261 \pm 0.100	0.684 \pm 0.079	2.863 \pm 0.087	1.900 \pm 0.000	n = 11	[RO4] Roche cobas c311/c501/c502/c701/c702
1.035 \pm 0.083	1.219 \pm 0.047	0.682 \pm 0.029	2.901 \pm 0.071	1.903 \pm 0.057	n = 4	[RO1] Roche Integra and MIRA
1.329 \pm 0.085	1.521 \pm 0.096	0.834 \pm 0.128	3.338 \pm 0.201	2.325 \pm 0.108	n = 14	[BY1] Siemens ADVIA/ADVIa Centaur
1.147 \pm 0.070	1.330 \pm 0.069	0.728 \pm 0.077	3.268 \pm 0.143	2.130 \pm 0.114	n = 32	[DA5] Siemens Dimension
1.114 \pm 0.048	1.296 \pm 0.011	0.700 \pm 0.008	3.185 \pm 0.046	2.031 \pm 0.048	n = 23	[DA6] Siemens Dimension LOCI
1.203 \pm 0.015	1.489 \pm 0.087	0.819 \pm 0.065	3.298 \pm 0.219	2.192 \pm 0.106	n = 4	[DP5] Siemens Immulite
0.972 \pm 0.051	1.200 \pm 0.000	0.672 \pm 0.051	2.774 \pm 0.316	2.028 \pm 0.051	n = 3	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Ethanol (mg/dL)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
128.45 ± 4.62	161.21 ± 5.45	112.36 ± 3.93	173.41 ± 5.77	183.29 ± 6.46	n = 123	[---] All Methods & Instruments
129.5	167.2	115.9	176.8	187.0		[---] Weigh-in value
						<Instruments>
128.77 ± 2.43	160.65 ± 2.58	112.56 ± 2.20	172.82 ± 2.06	183.48 ± 3.01	n = 10	[ABJ] Abbott Architect c System
128.20 ± 1.14	161.59 ± 3.96	113.55 ± 4.02	173.81 ± 5.03	185.04 ± 5.70	n = 14	[OLC] Beckman Coulter AU Chemistry System
128.33 ± 6.92	163.84 ± 1.04	113.07 ± 2.00	171.83 ± 4.23	180.42 ± 3.39	n = 6	[BCG] Beckman Coulter UniCel DxC 600
131.84 ± 1.54	164.07 ± 2.86	113.49 ± 3.62	174.43 ± 5.35	182.47 ± 8.03	n = 3	[BCH] Beckman Coulter UniCel DxC 800
124.13 ± 5.22	152.15 ± 5.72	106.58 ± 5.58	163.87 ± 5.22	173.36 ± 6.14	n = 3	[GCC] Gas Chromatograph
120.34 ± 3.97	159.49 ± 7.24	109.95 ± 3.92	165.12 ± 5.30	175.24 ± 6.60	n = 8	[JJG] Ortho Vitros 5600
129.99 ± 4.11	163.58 ± 5.04	113.47 ± 4.00	175.16 ± 5.00	184.29 ± 7.68	n = 10	[ROC] Roche cobas c501
126.03 ± 0.95	157.69 ± 0.56	110.72 ± 0.94	169.84 ± 1.54	182.61 ± 0.72	n = 3	[ROT] Roche Cobas INTEGRA 800
131.50 ± 3.03	162.96 ± 3.86	113.92 ± 0.83	178.07 ± 3.10	184.53 ± 10.49	n = 5	[BYE] Siemens ADVIA 1800
128.39 ± 3.25	159.80 ± 4.17	111.83 ± 3.20	173.54 ± 4.96	183.10 ± 5.20	n = 17	[DUE] Siemens Dimension EXL
128.53 ± 5.39	160.79 ± 7.63	111.72 ± 4.45	174.25 ± 6.09	184.03 ± 5.88	n = 30	[DUT] Siemens Dimension Vista
132.18 ± 4.89	165.98 ± 7.24	115.30 ± 5.97	178.52 ± 7.22	188.41 ± 8.97	n = 3	[DUX] Siemens Dimension Xpand
						<Reagents>
128.84 ± 2.28	160.69 ± 2.43	112.62 ± 2.07	173.09 ± 2.14	183.54 ± 2.84	n = 11	[AB1] Abbott
130.14 ± 4.75	163.39 ± 1.79	113.26 ± 2.44	172.39 ± 4.21	180.89 ± 4.55	n = 10	[BC1] Beckman Coulter
128.20 ± 1.16	160.98 ± 3.63	112.90 ± 4.11	173.36 ± 4.80	184.71 ± 5.61	n = 12	[OL1] Beckman Coulter AU Series
120.14 ± 4.43	158.32 ± 7.13	109.91 ± 4.46	165.16 ± 5.73	175.79 ± 7.71	n = 12	[JJ1] Ortho Clinical Diagnostics
130.01 ± 3.66	163.56 ± 4.57	113.46 ± 3.60	175.42 ± 4.49	184.88 ± 7.04	n = 12	[RO4] Roche cobas c311/c501/c502/c701/c702
126.03 ± 0.95	157.69 ± 0.56	110.72 ± 0.94	169.84 ± 1.54	182.61 ± 0.72	n = 3	[RO1] Roche Integra and MIRA
130.83 ± 2.32	163.22 ± 2.14	114.10 ± 1.44	176.07 ± 1.48	186.65 ± 2.72	n = 3	[BY1] Siemens ADVIA/ADVIS Centaur
131.51 ± 3.21	164.28 ± 5.13	116.27 ± 3.41	179.86 ± 3.66	181.86 ± 15.57	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
128.72 ± 4.57	160.75 ± 6.41	111.83 ± 4.03	174.36 ± 5.88	183.98 ± 5.80	n = 51	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Gentamicin (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code]	Instrument or Reagent System
3.81 ± 0.26	8.29 ± 0.59	9.44 ± 0.59	7.90 ± 0.53	5.75 ± 0.38	n = 89	[---]	All Methods & Instruments
3.6	7.9	9.0	7.4	5.4		[---]	Weigh-in value
							<Instruments>
3.74 ± 0.11	8.36 ± 0.51	9.27 ± 0.41	8.13 ± 0.40	5.73 ± 0.12	n = 8	[ABH]	Abbott Architect i System
3.98 ± 0.08	8.84 ± 0.47	9.92 ± 0.46	8.38 ± 0.34	6.15 ± 0.21	n = 10	[OLC]	Beckman Coulter AU Chemistry System
4.02 ± 0.15	9.27 ± 0.23	10.48 ± 0.31	8.75 ± 0.28	6.35 ± 0.23	n = 4	[BCG]	Beckman Coulter UniCel DxC 600
4.12 ± 0.24	9.47 ± 0.23	10.46 ± 0.26	9.02 ± 0.24	6.37 ± 0.14	n = 3	[BCH]	Beckman Coulter UniCel DxC 800
4.08 ± 0.10	8.38 ± 0.25	9.63 ± 0.42	7.99 ± 0.19	6.03 ± 0.22	n = 6	[JJG]	Ortho Vitros 5600
3.52 ± 0.23	7.53 ± 0.41	8.40 ± 0.26	7.21 ± 0.21	5.38 ± 0.34	n = 5	[ROC]	Roche cobas c501
4.08 ± 0.24	8.59 ± 0.61	9.72 ± 0.32	7.84 ± 0.10	5.54 ± 0.10	n = 3	[ROT]	Roche Cobas INTEGRA 800
3.96 ± 0.06	8.96 ± 0.88	10.02 ± 0.31	8.62 ± 0.38	6.04 ± 0.23	n = 6	[COB]	Siemens ADVIA Centaur
3.79 ± 0.13	8.15 ± 0.22	9.31 ± 0.18	7.74 ± 0.17	5.66 ± 0.19	n = 5	[DUE]	Siemens Dimension EXL
3.66 ± 0.16	8.01 ± 0.31	9.21 ± 0.29	7.61 ± 0.28	5.52 ± 0.21	n = 31	[DUT]	Siemens Dimension Vista
							<Reagents>
3.75 ± 0.10	8.38 ± 0.47	9.27 ± 0.38	8.12 ± 0.37	5.74 ± 0.12	n = 9	[AB1]	Abbott
4.03 ± 0.19	9.33 ± 0.23	10.38 ± 0.40	8.80 ± 0.33	6.35 ± 0.18	n = 8	[BC1]	Beckman Coulter
4.00 ± 0.11	8.60 ± 0.34	9.87 ± 0.43	8.27 ± 0.35	6.10 ± 0.23	n = 7	[OL1]	Beckman Coulter AU Series
4.06 ± 0.16	8.31 ± 0.33	9.51 ± 0.51	7.94 ± 0.22	5.99 ± 0.22	n = 7	[JJ1]	Ortho Clinical Diagnostics
3.45 ± 0.28	7.59 ± 0.42	8.43 ± 0.25	7.14 ± 0.17	5.20 ± 0.37	n = 5	[R04]	Roche cobas c311/c501/c502/c701/c702
3.99 ± 0.23	8.39 ± 0.56	9.51 ± 0.48	7.73 ± 0.25	5.50 ± 0.11	n = 4	[R01]	Roche Integra and MIRA
3.96 ± 0.06	8.96 ± 0.88	10.02 ± 0.31	8.62 ± 0.38	6.04 ± 0.23	n = 6	[BY1]	Siemens ADVIA/ADVISIA Centaur
3.68 ± 0.16	8.04 ± 0.30	9.23 ± 0.27	7.64 ± 0.27	5.55 ± 0.21	n = 37	[DA5]	Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Lithium (mmol/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
0.838 ± 0.063 0.9	0.362 ± 0.056 0.4	1.971 ± 0.079 2.0	1.528 ± 0.074 1.7	1.123 ± 0.066 1.2	n = 106	[---] All Methods & Instruments [---] Weigh-in value
0.843 ± 0.041	0.352 ± 0.041	1.945 ± 0.095	1.523 ± 0.095	1.109 ± 0.064	n = 8	<Instruments>
0.803 ± 0.009	0.351 ± 0.056	1.901 ± 0.013	1.491 ± 0.021	1.094 ± 0.010	n = 16	[ABJ] Abbott Architect c System
0.805 ± 0.046	0.331 ± 0.041	1.925 ± 0.059	1.511 ± 0.027	1.105 ± 0.028	n = 5	[OLC] Beckman Coulter AU Chemistry System
0.830 ± 0.043	0.318 ± 0.034	1.929 ± 0.070	1.501 ± 0.053	1.074 ± 0.054	n = 5	[BCG] Beckman Coulter UniCel DxC 600
0.900 ± 0.069	0.374 ± 0.080	2.126 ± 0.112	1.626 ± 0.080	1.243 ± 0.056	n = 9	[BCH] Beckman Coulter UniCel DxC 800
0.870 ± 0.058	0.386 ± 0.042	2.000 ± 0.000	1.549 ± 0.056	1.176 ± 0.044	n = 8	[JJG] Ortho Vitros 5600
0.895 ± 0.012	0.328 ± 0.044	2.002 ± 0.004	1.597 ± 0.008	1.194 ± 0.016	n = 5	[ROC] Roche cobas c501
0.705 ± 0.010	0.280 ± 0.000	1.940 ± 0.032	1.429 ± 0.031	1.045 ± 0.037	n = 6	[BYE] Siemens ADVIA 1800
0.850 ± 0.041	0.389 ± 0.033	2.000 ± 0.044	1.536 ± 0.041	1.129 ± 0.040	n = 30	[DUE] Siemens Dimension EXL
0.851 ± 0.039	0.361 ± 0.036	1.963 ± 0.080	1.541 ± 0.086	1.122 ± 0.052	n = 7	[DUT] Siemens Dimension Vista
0.823 ± 0.035	0.319 ± 0.029	1.929 ± 0.078	1.503 ± 0.056	1.096 ± 0.046	n = 9	<Reagents>
0.804 ± 0.009	0.363 ± 0.041	1.901 ± 0.013	1.492 ± 0.019	1.093 ± 0.010	n = 14	[AB1] Abbott
0.900 ± 0.060	0.369 ± 0.076	2.121 ± 0.112	1.631 ± 0.076	1.240 ± 0.067	n = 11	[BC1] Beckman Coulter
0.858 ± 0.063	0.371 ± 0.058	1.992 ± 0.039	1.538 ± 0.062	1.163 ± 0.058	n = 9	[OL1] Beckman Coulter AU Series
0.859 ± 0.070	0.342 ± 0.051	2.000 ± 0.000	1.600 ± 0.000	1.157 ± 0.071	n = 6	[JJ1] Ortho Clinical Diagnostics
0.826 ± 0.069	0.373 ± 0.051	1.988 ± 0.050	1.520 ± 0.058	1.115 ± 0.051	n = 37	[RO4] Roche cobas c311/c501/c502/c701/c702
0.797 ± 0.053	0.332 ± 0.048	1.873 ± 0.049	1.475 ± 0.039	1.073 ± 0.049	n = 4	[BY1] Siemens ADVIA/ADVIS Centaur
						[DA5] Siemens Dimension
						[TH1] Thermo Scientific

Summary of Participant Performance (Mean and Standard Deviation)

Phenobarbital (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
24.14 ± 1.47	36.33 ± 1.90	44.71 ± 2.44	33.93 ± 1.84	15.21 ± 1.05	n = 101	[---] All Methods & Instruments
24.4	37.3	45.9	34.5	15.3		[---] Weigh-in value
						<Instruments>
25.51 ± 0.95	38.03 ± 1.63	47.54 ± 1.75	36.11 ± 1.60	15.66 ± 0.71	n = 9	[ABH] Abbott Architect i System
23.57 ± 0.69	35.75 ± 1.31	44.32 ± 1.54	32.94 ± 0.91	14.63 ± 0.34	n = 14	[OLC] Beckman Coulter AU Chemistry System
23.34 ± 0.91	34.11 ± 1.13	42.31 ± 1.21	31.40 ± 0.56	14.88 ± 0.16	n = 5	[BCG] Beckman Coulter UniCel DxC 600
23.54 ± 0.43	34.58 ± 0.76	42.84 ± 1.25	32.76 ± 0.83	14.83 ± 0.23	n = 4	[BCH] Beckman Coulter UniCel DxC 800
23.89 ± 0.61	37.57 ± 0.72	45.71 ± 2.07	35.06 ± 0.76	15.37 ± 0.48	n = 9	[ROC] Roche cobas c501
23.10 ± 0.27	34.93 ± 0.77	43.53 ± 0.23	33.03 ± 1.13	14.67 ± 0.34	n = 3	[ROT] Roche Cobas INTEGRA 800
26.61 ± 1.76	38.66 ± 2.54	48.19 ± 0.77	37.10 ± 1.37	17.15 ± 1.05	n = 7	[COB] Siemens ADVIA Centaur
25.24 ± 2.10	37.73 ± 1.17	45.71 ± 2.00	35.08 ± 2.40	16.03 ± 1.35	n = 9	[DUE] Siemens Dimension EXL
24.16 ± 1.48	36.02 ± 1.51	43.77 ± 2.02	33.48 ± 1.23	15.19 ± 1.31	n = 31	[DUT] Siemens Dimension Vista
						<Reagents>
25.47 ± 1.06	37.67 ± 2.08	47.28 ± 2.20	36.07 ± 1.71	15.55 ± 0.90	n = 10	[AB1] Abbott
23.32 ± 0.86	34.34 ± 0.91	42.57 ± 1.15	32.19 ± 1.13	14.82 ± 0.24	n = 10	[BC1] Beckman Coulter
23.60 ± 0.55	35.98 ± 1.38	44.03 ± 1.39	32.65 ± 0.74	14.67 ± 0.39	n = 10	[OL1] Beckman Coulter AU Series
23.88 ± 0.57	37.43 ± 0.89	45.78 ± 1.95	35.16 ± 0.77	15.45 ± 0.50	n = 10	[RO4] Roche cobas c311/c501/c502/c701/c702
22.92 ± 0.44	34.50 ± 1.13	44.00 ± 1.22	37.23 ± 11.14	14.86 ± 0.53	n = 4	[RO1] Roche Integra and MIRA
26.61 ± 1.76	38.66 ± 2.54	48.19 ± 0.77	37.10 ± 1.37	17.15 ± 1.05	n = 7	[BY1] Siemens ADVIA/ADVISIA Centaur
24.36 ± 1.63	36.35 ± 1.64	44.23 ± 2.13	33.72 ± 1.39	15.38 ± 1.29	n = 41	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Phenytoin (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
15.87 ± 1.25	23.94 ± 1.86	10.97 ± 0.86	20.99 ± 1.55	10.01 ± 0.79	n = 137	[---] All Methods & Instruments [---] Weigh-in value
16.0	24.0	11.0	21.0	10.0		
						<Instruments>
15.55 ± 0.65	23.09 ± 0.91	10.55 ± 0.34	20.23 ± 0.98	9.88 ± 0.19	n = 11	[ABH] Abbott Architect i System
15.99 ± 0.94	23.66 ± 1.44	10.76 ± 0.77	20.73 ± 1.42	9.95 ± 0.61	n = 18	[OLC] Beckman Coulter AU Chemistry System
14.97 ± 0.79	22.17 ± 0.74	10.69 ± 0.39	19.49 ± 0.76	9.78 ± 0.13	n = 6	[BCG] Beckman Coulter UniCel DxC 600
15.22 ± 0.18	22.61 ± 0.56	10.75 ± 0.27	19.93 ± 0.48	9.75 ± 0.24	n = 5	[BCH] Beckman Coulter UniCel DxC 800
14.58 ± 0.39	22.35 ± 0.93	9.79 ± 0.32	20.14 ± 1.03	8.98 ± 0.38	n = 9	[JJG] Ortho Vitros 5600
14.99 ± 0.75	22.57 ± 1.25	10.56 ± 0.73	20.04 ± 1.16	9.62 ± 0.75	n = 10	[ROC] Roche cobas c501
15.67 ± 0.31	23.82 ± 0.32	10.97 ± 0.23	20.24 ± 0.62	9.64 ± 0.26	n = 3	[ROT] Roche Cobas INTEGRA 800
14.66 ± 0.56	22.38 ± 0.41	10.12 ± 0.41	19.98 ± 1.49	9.00 ± 0.09	n = 3	[BYE] Siemens ADVIA 1800
16.04 ± 1.48	25.86 ± 1.99	11.08 ± 0.46	22.40 ± 1.71	10.52 ± 0.63	n = 8	[COB] Siemens ADVIA Centaur
16.30 ± 1.22	25.07 ± 1.34	11.28 ± 0.73	21.88 ± 0.96	10.20 ± 0.52	n = 16	[DUE] Siemens Dimension EXL
17.03 ± 0.78	25.38 ± 1.02	11.87 ± 0.57	22.03 ± 1.05	10.75 ± 0.57	n = 32	[DUT] Siemens Dimension Vista
						<Reagents>
15.54 ± 0.90	23.10 ± 1.30	10.56 ± 0.54	20.25 ± 1.27	9.78 ± 0.38	n = 13	[AB1] Abbott
15.21 ± 0.56	22.41 ± 0.66	10.75 ± 0.39	19.79 ± 0.53	9.77 ± 0.25	n = 12	[BC1] Beckman Coulter
16.02 ± 0.73	23.78 ± 1.22	10.76 ± 0.68	20.84 ± 1.26	9.97 ± 0.51	n = 14	[OL1] Beckman Coulter AU Series
14.67 ± 0.40	22.41 ± 0.80	9.81 ± 0.31	19.98 ± 0.98	8.97 ± 0.35	n = 11	[JJ1] Ortho Clinical Diagnostics
14.97 ± 0.68	22.39 ± 0.96	10.49 ± 0.67	19.81 ± 1.10	9.59 ± 0.67	n = 12	[RO4] Roche cobas c311/c501/c502/c701/c702
15.34 ± 0.91	23.48 ± 0.81	10.99 ± 0.19	19.97 ± 0.72	9.65 ± 0.22	n = 4	[RO1] Roche Integra and MIRA
16.39 ± 1.41	25.99 ± 1.74	11.06 ± 0.40	22.69 ± 1.58	10.54 ± 0.64	n = 10	[BY1] Siemens ADVIA/ADVIa Centaur
14.66 ± 0.56	22.38 ± 0.41	10.12 ± 0.41	19.98 ± 1.49	9.00 ± 0.09	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
16.76 ± 1.00	25.23 ± 1.09	11.65 ± 0.67	21.93 ± 1.00	10.50 ± 0.65	n = 51	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)**Free Phenytoin (mg/L)**

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
2.36 ± 0.42	3.11 ± 0.57	1.37 ± 0.20	3.21 ± 0.71	1.40 ± 0.28	n = 7	[---] All Methods & Instruments [<Instruments> [OLC] Beckman Coulter AU Chemistry System]
1.93 ± 0.05	2.57 ± 0.05	1.20 ± 0.00	2.53 ± 0.05	1.17 ± 0.05	n = 3	[<Reagents> [OL1] Beckman Coulter AU Series]
1.93 ± 0.05	2.57 ± 0.05	1.20 ± 0.00	2.53 ± 0.05	1.17 ± 0.05	n = 3	

Summary of Participant Performance (Mean and Standard Deviation)

Salicylate (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
47.10 ± 1.61	34.89 ± 1.07	55.11 ± 2.00	21.21 ± 0.81	80.32 ± 3.55	n = 120	[---] All Methods & Instruments
45.5	33.8	53.3	20.6	78.1		[---] Weigh-in value
						<Instruments>
47.04 ± 0.84	34.46 ± 0.72	55.15 ± 1.09	20.64 ± 0.65	82.09 ± 1.46	n = 11	[ABJ] Abbott Architect c System
47.37 ± 3.30	35.12 ± 2.13	55.27 ± 3.53	20.99 ± 1.05	81.02 ± 7.41	n = 14	[OLC] Beckman Coulter AU Chemistry System
47.75 ± 2.52	35.31 ± 0.46	56.60 ± 0.35	21.28 ± 0.39	84.21 ± 0.78	n = 5	[BCG] Beckman Coulter UniCel DxC 600
47.92 ± 2.48	35.29 ± 1.46	55.44 ± 2.69	20.63 ± 0.59	83.44 ± 6.70	n = 4	[BCH] Beckman Coulter UniCel DxC 800
48.86 ± 1.44	38.57 ± 0.51	58.88 ± 2.95	23.60 ± 0.27	83.93 ± 5.79	n = 8	[JJG] Ortho Vitros 5600
47.69 ± 0.92	34.72 ± 0.50	56.60 ± 1.52	20.51 ± 0.39	81.71 ± 3.34	n = 11	[ROC] Roche cobas c501
50.12 ± 0.58	35.84 ± 0.87	56.89 ± 2.13	21.53 ± 1.09	82.61 ± 5.55	n = 5	[BYE] Siemens ADVIA 1800
46.51 ± 0.28	34.67 ± 0.23	54.34 ± 0.21	21.42 ± 0.23	79.35 ± 0.39	n = 17	[DUE] Siemens Dimension EXL
46.52 ± 0.68	34.73 ± 0.41	54.37 ± 0.88	21.36 ± 0.35	79.26 ± 1.09	n = 30	[DUT] Siemens Dimension Vista
						<Reagents>
47.04 ± 0.84	34.46 ± 0.72	55.15 ± 1.09	20.64 ± 0.65	82.09 ± 1.46	n = 11	[AB1] Abbott
47.84 ± 2.49	35.55 ± 0.43	56.62 ± 0.55	21.02 ± 0.58	84.73 ± 1.17	n = 9	[BC1] Beckman Coulter
47.44 ± 3.63	34.98 ± 2.21	55.57 ± 3.83	20.94 ± 1.11	81.88 ± 7.91	n = 12	[OL1] Beckman Coulter AU Series
49.07 ± 1.80	38.25 ± 0.87	58.66 ± 2.90	23.20 ± 0.75	82.54 ± 6.28	n = 12	[JJ1] Ortho Clinical Diagnostics
47.52 ± 1.42	34.58 ± 0.75	56.19 ± 2.22	20.51 ± 0.41	79.92 ± 5.13	n = 14	[RO4] Roche cobas c311/c501/c502/c701/c702
50.01 ± 0.55	36.00 ± 0.85	57.23 ± 1.98	21.88 ± 1.32	83.38 ± 4.82	n = 6	[BY1] Siemens ADVIA/ADVIS Centaur
46.53 ± 0.53	34.70 ± 0.33	54.34 ± 0.62	21.38 ± 0.31	79.31 ± 0.86	n = 50	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Theophylline (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code]	Instrument or Reagent System
10.30 ± 0.63	12.34 ± 0.77	31.96 ± 2.78	18.76 ± 1.20	11.83 ± 0.55	n = 94	[---]	All Methods & Instruments
10.1	12.6	32.7	18.8	12.1		[---]	Weigh-in value
							<Instruments>
10.31 ± 0.32	12.04 ± 0.35	30.06 ± 1.80	18.29 ± 0.67	11.65 ± 0.46	n = 6	[ABH]	Abbott Architect i System
10.37 ± 0.42	12.12 ± 0.40	29.72 ± 2.25	18.39 ± 0.58	11.84 ± 0.43	n = 12	[OLC]	Beckman Coulter AU Chemistry System
9.43 ± 0.45	11.49 ± 0.03	30.12 ± 0.56	17.12 ± 0.47	10.87 ± 0.32	n = 5	[BCG]	Beckman Coulter UniCel DxC 600
9.98 ± 0.73	11.98 ± 1.00	31.54 ± 2.98	18.04 ± 1.40	11.27 ± 0.34	n = 4	[BCH]	Beckman Coulter UniCel DxC 800
13.24 ± 0.46	14.21 ± 0.67	38.50 ± 1.15	21.40 ± 0.06	15.51 ± 0.77	n = 7	[JJG]	Ortho Vitros 5600
10.00 ± 0.21	12.14 ± 0.51	31.09 ± 1.17	18.33 ± 0.55	11.86 ± 0.11	n = 5	[ROC]	Roche cobas c501
10.04 ± 0.85	12.47 ± 0.88	31.45 ± 2.17	19.22 ± 0.96	11.67 ± 1.13	n = 6	[COB]	Siemens ADVIA Centaur
10.20 ± 0.59	12.64 ± 0.61	34.01 ± 1.08	18.79 ± 0.97	11.93 ± 0.38	n = 7	[DUE]	Siemens Dimension EXL
10.45 ± 0.43	12.42 ± 0.56	31.81 ± 1.12	18.84 ± 0.70	11.92 ± 0.45	n = 31	[DUT]	Siemens Dimension Vista
							<Reagents>
10.38 ± 0.33	12.14 ± 0.45	30.56 ± 2.05	18.44 ± 0.71	11.74 ± 0.47	n = 7	[AB1]	Abbott
9.57 ± 0.42	11.52 ± 0.18	30.21 ± 0.61	17.28 ± 0.46	11.04 ± 0.37	n = 9	[BC1]	Beckman Coulter
10.37 ± 0.40	12.12 ± 0.37	29.21 ± 1.64	18.39 ± 0.75	11.86 ± 0.41	n = 9	[OL1]	Beckman Coulter AU Series
13.24 ± 0.36	14.11 ± 0.67	38.60 ± 1.02	21.62 ± 0.57	15.61 ± 0.74	n = 8	[JJ1]	Ortho Clinical Diagnostics
10.00 ± 0.21	12.14 ± 0.51	31.09 ± 1.17	18.33 ± 0.55	11.86 ± 0.11	n = 5	[RO4]	Roche cobas c311/c501/c502/c701/c702
10.04 ± 0.85	12.47 ± 0.88	31.45 ± 2.17	19.22 ± 0.96	11.67 ± 1.13	n = 6	[BY1]	Siemens ADVIA/ADVIS Centaur
10.42 ± 0.48	12.48 ± 0.59	32.39 ± 1.70	18.89 ± 0.75	11.93 ± 0.44	n = 40	[DA5]	Siemens Dimension
10.35 ± 0.46	12.10 ± 0.45	30.83 ± 2.51	18.42 ± 0.15	11.80 ± 0.46	n = 3	[SY4]	Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Tobramycin (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
3.23 ± 0.25 3.5	1.86 ± 0.26 2.0	6.56 ± 0.64 7.0	8.72 ± 0.73 9.2	6.33 ± 0.55 6.7	n = 33	[---] All Methods & Instruments [---] Weigh-in value
3.36 ± 0.10 3.15 ± 0.23 3.08 ± 0.18	2.03 ± 0.13 1.85 ± 0.12 1.66 ± 0.19	6.92 ± 0.31 6.73 ± 0.42 6.04 ± 0.17	9.11 ± 0.42 8.70 ± 0.42 8.24 ± 0.35	6.60 ± 0.23 6.44 ± 0.35 5.87 ± 0.21	n = 6 n = 4 n = 13	<Instruments> [AB1] Abbott Architect c System [OLC] Beckman Coulter AU Chemistry System [DUT] Siemens Dimension Vista
3.36 ± 0.10 4.40 ± 0.09 3.22 ± 0.24 3.11 ± 0.20	2.03 ± 0.13 2.40 ± 0.09 1.87 ± 0.14 1.69 ± 0.19	6.92 ± 0.31 8.20 ± 0.27 6.90 ± 0.36 6.08 ± 0.19	9.11 ± 0.42 10.62 ± 0.24 8.62 ± 0.50 8.27 ± 0.32	6.60 ± 0.23 7.95 ± 0.19 6.57 ± 0.32 5.92 ± 0.22	n = 6 n = 3 n = 3 n = 15	<Reagents> [AB1] Abbott [BC1] Beckman Coulter [OL1] Beckman Coulter AU Series [DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Valproic Acid (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
131.68 ± 6.83	63.19 ± 4.05	108.91 ± 5.69	69.85 ± 4.11	50.65 ± 3.48	n = 129	[---] All Methods & Instruments
128.4	60.6	105.7	67.9	48.3		[---] Weigh-in value
						<Instruments>
132.47 ± 4.32	62.13 ± 2.64	110.49 ± 5.93	67.79 ± 2.65	50.02 ± 2.70	n = 12	[ABH] Abbott Architect i System
138.38 ± 4.89	65.01 ± 4.25	111.56 ± 4.31	71.35 ± 4.06	51.52 ± 3.25	n = 16	[OLC] Beckman Coulter AU Chemistry System
115.75 ± 5.93	59.26 ± 2.33	101.76 ± 2.31	62.09 ± 0.86	45.27 ± 1.62	n = 5	[BCG] Beckman Coulter UniCel DxC 600
122.17 ± 4.39	58.79 ± 2.19	105.11 ± 3.64	62.73 ± 1.25	45.35 ± 1.42	n = 4	[BCH] Beckman Coulter UniCel DxC 800
132.71 ± 5.69	62.47 ± 3.25	109.16 ± 4.39	70.47 ± 4.37	51.46 ± 3.27	n = 9	[JJG] Ortho Vitros 5600
133.39 ± 5.62	60.63 ± 2.90	107.76 ± 7.06	68.41 ± 2.14	48.98 ± 2.05	n = 10	[ROC] Roche cobas c501
136.69 ± 0.20	64.80 ± 2.25	115.03 ± 3.04	73.15 ± 2.35	52.17 ± 2.30	n = 3	[BYE] Siemens ADVIA 1800
126.23 ± 5.84	64.12 ± 2.12	104.74 ± 4.59	70.33 ± 1.60	50.93 ± 1.04	n = 9	[COB] Siemens ADVIA Centaur
130.37 ± 3.87	62.42 ± 1.86	107.50 ± 2.26	69.96 ± 2.31	49.56 ± 1.44	n = 12	[DUE] Siemens Dimension EXL
132.41 ± 5.49	66.82 ± 3.32	110.34 ± 5.05	72.15 ± 2.94	53.44 ± 2.81	n = 32	[DUT] Siemens Dimension Vista
						<Reagents>
132.49 ± 3.81	61.56 ± 2.80	110.74 ± 5.21	67.42 ± 2.50	49.70 ± 2.53	n = 14	[AB1] Abbott
119.95 ± 6.68	58.90 ± 2.17	102.52 ± 2.34	62.50 ± 1.22	45.10 ± 1.51	n = 10	[BC1] Beckman Coulter
138.26 ± 4.27	65.94 ± 3.06	111.91 ± 3.59	71.85 ± 3.40	51.99 ± 2.52	n = 12	[OL1] Beckman Coulter AU Series
131.98 ± 5.75	62.15 ± 3.21	107.88 ± 6.91	69.91 ± 4.42	51.02 ± 3.34	n = 10	[JJ1] Ortho Clinical Diagnostics
132.77 ± 5.56	60.70 ± 2.68	107.38 ± 6.77	68.34 ± 1.89	49.16 ± 1.92	n = 11	[RO4] Roche cobas c311/c501/c502/c701/c702
126.89 ± 5.81	58.62 ± 2.40	107.36 ± 1.52	66.85 ± 2.08	46.92 ± 1.03	n = 3	[RO1] Roche Integra and MIRA
126.97 ± 5.75	63.45 ± 2.45	104.92 ± 3.95	70.16 ± 2.05	50.59 ± 1.46	n = 11	[BY1] Siemens ADVIA/ADVIS Centaur
136.69 ± 0.20	64.80 ± 2.25	115.03 ± 3.04	73.15 ± 2.35	52.17 ± 2.30	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
131.56 ± 4.87	65.25 ± 3.66	109.42 ± 4.50	71.42 ± 2.84	52.13 ± 3.01	n = 48	[DA5] Siemens Dimension
140.60 ± 3.85	62.18 ± 5.62	112.61 ± 4.58	71.15 ± 4.76	50.79 ± 3.72	n = 3	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Vancomycin (mg/L)

Specimen: T26	Specimen: T27	Specimen: T28	Specimen: T29	Specimen: T30	Number	[Code] Instrument or Reagent System
6.39 ± 0.65	5.48 ± 0.59	26.42 ± 2.86	18.57 ± 1.96	13.98 ± 1.40	n = 120	[---] All Methods & Instruments [---] Weigh-in value
6.8	5.9	27.5	19.4	14.8		
						<Instruments>
6.95 ± 0.13	5.78 ± 0.18	29.65 ± 0.35	21.18 ± 0.41	15.77 ± 0.36	n = 10	[ABH] Abbott Architect i System
6.38 ± 0.37	5.60 ± 0.39	24.12 ± 1.33	16.95 ± 0.79	12.94 ± 0.61	n = 14	[OLC] Beckman Coulter AU Chemistry System
6.61 ± 0.64	5.60 ± 0.37	30.69 ± 0.93	20.03 ± 0.16	15.08 ± 0.37	n = 4	[BCG] Beckman Coulter UniCel DxC 600
6.75 ± 0.32	6.17 ± 0.35	31.50 ± 0.45	20.73 ± 0.71	14.60 ± 0.65	n = 5	[BCH] Beckman Coulter UniCel DxC 800
6.41 ± 0.63	5.58 ± 0.41	25.12 ± 1.72	17.59 ± 1.16	13.24 ± 0.83	n = 7	[JHG] Ortho Vitros 5600
6.52 ± 0.80	5.77 ± 0.64	28.12 ± 2.89	19.27 ± 1.53	14.48 ± 1.50	n = 10	[ROC] Roche cobas c501
8.00 ± 0.27	6.77 ± 0.14	33.25 ± 0.46	23.91 ± 0.66	17.53 ± 0.42	n = 3	[ROT] Roche Cobas INTEGRA 800
4.98 ± 0.20	4.56 ± 0.31	22.65 ± 0.92	15.40 ± 0.72	11.03 ± 0.40	n = 9	[COB] Siemens ADVIA Centaur
6.10 ± 0.17	5.14 ± 0.29	26.61 ± 0.53	18.64 ± 0.63	14.16 ± 0.48	n = 12	[DUE] Siemens Dimension EXL
6.36 ± 0.40	5.40 ± 0.42	25.77 ± 0.85	18.49 ± 0.72	13.99 ± 0.54	n = 32	[DUT] Siemens Dimension Vista
						<Reagents>
6.95 ± 0.13	5.75 ± 0.20	29.52 ± 0.69	21.04 ± 0.56	15.65 ± 0.44	n = 12	[AB1] Abbott
6.75 ± 0.26	5.85 ± 0.48	31.24 ± 0.78	20.33 ± 0.62	14.81 ± 0.64	n = 10	[BC1] Beckman Coulter
6.33 ± 0.41	5.62 ± 0.38	23.96 ± 1.14	16.95 ± 0.80	12.97 ± 0.54	n = 11	[OL1] Beckman Coulter AU Series
6.40 ± 0.57	5.55 ± 0.38	25.06 ± 1.60	17.55 ± 1.07	13.22 ± 0.77	n = 8	[JJ1] Ortho Clinical Diagnostics
6.47 ± 0.73	5.68 ± 0.67	27.77 ± 2.76	19.08 ± 1.46	14.40 ± 1.35	n = 11	[RO4] Roche cobas c311/c501/c502/c701/c702
8.18 ± 0.44	6.92 ± 0.38	34.05 ± 1.95	23.85 ± 0.53	17.79 ± 0.59	n = 4	[RO1] Roche Integra and MIRA
4.92 ± 0.28	4.56 ± 0.34	22.41 ± 0.99	15.29 ± 0.80	11.12 ± 0.71	n = 11	[BY1] Siemens ADVIA/ADVISIA Centaur
6.28 ± 0.38	5.30 ± 0.40	26.06 ± 0.88	18.53 ± 0.71	14.05 ± 0.52	n = 47	[DA5] Siemens Dimension