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## **Therapeutic Substance Monitoring/Quantitative Toxicology Proficiency Test Program**

### **Statistical Summary - May 2016 (Event 16-2)**

This statistical report summarizes participant data for the five Therapeutic Substance Monitoring proficiency survey specimens shipped 2 May 2016. Test samples (Vials T31, T32, T33, T34, T35) 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 ( $\pm 1$  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: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
33.93 ± 1.95 33.5	143.17 ± 6.91 143.4	83.23 ± 4.74 84.2	50.38 ± 3.39 50.3	72.24 ± 4.51 72.7	n = 121	[---] All Methods & Instruments [---] Weigh-in value
<Instruments>						
33.00 ± 0.00	142.77 ± 1.83	82.81 ± 1.01	49.92 ± 1.10	72.39 ± 1.12	n = 13	[ABJ] Abbott Architect c System
33.95 ± 2.17	138.09 ± 4.33	80.21 ± 3.73	48.49 ± 3.75	71.16 ± 4.07	n = 15	[OLC] Beckman Coulter AU Chemistry System
37.13 ± 1.12	153.72 ± 5.73	91.76 ± 1.01	54.20 ± 4.01	80.34 ± 3.50	n = 5	[BCG] Beckman Coulter UniCel DxC 600
37.74 ± 1.03	160.87 ± 4.80	91.90 ± 3.20	56.54 ± 0.93	80.58 ± 1.32	n = 3	[BCH] Beckman Coulter UniCel DxC 800
32.85 ± 0.41	144.17 ± 1.29	83.00 ± 0.97	50.21 ± 1.02	71.81 ± 0.60	n = 8	[JJG] Ortho Vitros 5600
23.75 ± 0.94	130.47 ± 3.82	70.80 ± 3.20	40.12 ± 3.14	61.29 ± 1.61	n = 11	[ROC] Roche cobas c501
32.50 ± 1.67	137.81 ± 3.00	80.97 ± 1.85	48.24 ± 1.73	69.33 ± 0.69	n = 5	[BYE] Siemens ADVIA 1800
33.90 ± 1.33	144.96 ± 1.79	84.17 ± 1.21	50.60 ± 0.93	72.78 ± 1.37	n = 17	[DUE] Siemens Dimension EXL
34.85 ± 0.96	146.97 ± 1.96	86.04 ± 1.25	52.41 ± 0.93	74.34 ± 1.21	n = 29	[DUT] Siemens Dimension Vista
33.57 ± 1.05	143.13 ± 0.50	83.04 ± 0.71	51.27 ± 0.95	71.54 ± 0.73	n = 3	[DUX] Siemens Dimension Xpand
<Reagents>						
33.12 ± 0.88	142.88 ± 1.54	82.87 ± 0.95	50.11 ± 1.36	72.63 ± 1.15	n = 9	[AB1] Abbott
37.33 ± 1.20	155.79 ± 7.88	91.47 ± 1.60	54.57 ± 4.43	79.79 ± 3.53	n = 9	[BC1] Beckman Coulter
33.87 ± 2.15	138.43 ± 2.22	80.92 ± 2.57	48.48 ± 3.49	71.06 ± 3.50	n = 12	[OL1] Beckman Coulter AU Series
32.78 ± 0.55	144.30 ± 1.50	83.17 ± 1.13	50.22 ± 1.22	71.93 ± 0.93	n = 11	[JJ1] Ortho Clinical Diagnostics
23.71 ± 0.84	129.92 ± 3.72	70.88 ± 2.85	39.77 ± 0.92	61.06 ± 1.39	n = 13	[RO4] Roche cobas c311/c501/c502/c701/c702
33.20 ± 0.53	142.26 ± 2.28	82.64 ± 1.14	49.61 ± 0.44	71.92 ± 0.81	n = 4	[GZ1] Sekisui Diagnostics (Genzyme)
32.30 ± 1.51	137.08 ± 2.52	80.58 ± 1.81	48.13 ± 1.56	69.34 ± 0.72	n = 6	[BY1] Siemens ADVIA/ADVIA Centaur
34.47 ± 1.20	146.13 ± 2.39	85.21 ± 1.59	51.70 ± 1.29	73.68 ± 1.59	n = 50	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Carbamazepine (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
5.89 ± 0.47 6.3	4.56 ± 0.45 4.9	14.49 ± 0.87 15.0	8.92 ± 0.68 9.5	10.67 ± 0.82 10.9	n = 114	[---] All Methods & Instruments [---] Weigh-in value
6.00 ± 0.15	4.69 ± 0.38	14.64 ± 1.08	8.95 ± 0.95	10.76 ± 0.99	n = 5	<Instruments> [ABJ] Abbott Architect c System
5.59 ± 0.33	4.21 ± 0.20	13.74 ± 0.88	8.59 ± 0.28	10.04 ± 0.37	n = 9	[ABH] Abbott Architect i System
6.47 ± 0.44	5.01 ± 0.38	15.48 ± 0.65	9.77 ± 0.33	11.70 ± 0.55	n = 13	[OLC] Beckman Coulter AU Chemistry System
5.38 ± 0.21	4.02 ± 0.23	14.44 ± 0.18	8.24 ± 0.26	10.05 ± 0.48	n = 5	[BCG] Beckman Coulter UniCel DxC 600
5.28 ± 0.27	3.93 ± 0.24	13.86 ± 0.29	8.51 ± 0.44	10.19 ± 0.26	n = 4	[BCH] Beckman Coulter UniCel DxC 800
5.31 ± 0.36	3.60 ± 0.21	13.23 ± 0.66	7.97 ± 0.28	9.51 ± 0.43	n = 8	[JJG] Ortho Vitros 5600
6.10 ± 0.30	4.97 ± 0.21	14.60 ± 0.59	8.94 ± 0.72	10.92 ± 0.49	n = 7	[ROC] Roche cobas c501
5.58 ± 0.15	4.50 ± 0.00	13.57 ± 0.59	8.35 ± 0.19	10.20 ± 0.27	n = 3	[ROT] Roche Cobas INTEGRA 800
6.51 ± 0.44	4.88 ± 0.24	14.81 ± 0.29	9.51 ± 0.44	10.92 ± 0.24	n = 3	[BYE] Siemens ADVIA 1800
6.03 ± 0.42	4.76 ± 0.24	15.47 ± 1.23	9.44 ± 0.42	11.12 ± 0.74	n = 7	[COB] Siemens ADVIA Centaur
5.98 ± 0.21	4.61 ± 0.20	14.83 ± 0.45	9.08 ± 0.32	10.94 ± 0.44	n = 11	[DUE] Siemens Dimension EXL
5.92 ± 0.22	4.60 ± 0.20	14.45 ± 0.47	8.93 ± 0.39	10.75 ± 0.50	n = 30	[DUT] Siemens Dimension Vista
5.68 ± 0.40	4.33 ± 0.36	14.03 ± 1.07	8.67 ± 0.61	10.22 ± 0.73	n = 14	<Reagents> [AB1] Abbott
5.33 ± 0.25	4.00 ± 0.28	14.09 ± 0.59	8.33 ± 0.34	10.12 ± 0.43	n = 10	[BC1] Beckman Coulter
6.48 ± 0.45	4.98 ± 0.44	15.43 ± 0.67	9.79 ± 0.30	11.73 ± 0.63	n = 9	[OL1] Beckman Coulter AU Series
5.31 ± 0.36	3.60 ± 0.21	13.23 ± 0.66	7.97 ± 0.28	9.51 ± 0.43	n = 8	[JJ1] Ortho Clinical Diagnostics
6.24 ± 0.23	5.02 ± 0.25	14.66 ± 0.51	9.03 ± 0.71	11.10 ± 0.32	n = 7	[RO4] Roche cobas c311/c501/c502/c701/c702
5.67 ± 0.20	4.52 ± 0.04	13.83 ± 0.67	8.44 ± 0.23	10.27 ± 0.25	n = 4	[RO1] Roche Integra and MIRA
6.10 ± 0.50	4.76 ± 0.25	15.69 ± 1.55	9.47 ± 0.58	11.34 ± 1.20	n = 9	[BY1] Siemens ADVIA/ADVIA Centaur
6.51 ± 0.44	4.88 ± 0.24	14.81 ± 0.29	9.51 ± 0.44	10.92 ± 0.24	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
5.93 ± 0.23	4.60 ± 0.20	14.57 ± 0.50	8.96 ± 0.38	10.80 ± 0.48	n = 42	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Digoxin (µg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
0.636 ± 0.105 0.7	1.933 ± 0.171 2.0	1.661 ± 0.142 1.7	0.954 ± 0.108 1.0	3.507 ± 0.262 3.6	n = 149	[---] All Methods & Instruments [---] Weigh-in value
0.626 ± 0.042	1.850 ± 0.114	1.619 ± 0.055	0.960 ± 0.046	3.324 ± 0.206	n = 4	<Instruments> [ABJ] Abbott Architect c System
0.500 ± 0.000	1.700 ± 0.000	1.450 ± 0.056	0.818 ± 0.046	3.094 ± 0.076	n = 11	[ABH] Abbott Architect i System
0.668 ± 0.049	2.056 ± 0.102	1.796 ± 0.071	1.023 ± 0.023	3.676 ± 0.172	n = 3	[SAA] Beckman Coulter ACCESS
0.720 ± 0.126	2.039 ± 0.198	1.715 ± 0.139	0.990 ± 0.123	3.622 ± 0.336	n = 17	[OLC] Beckman Coulter AU Chemistry System
0.654 ± 0.105	1.973 ± 0.049	1.721 ± 0.072	1.025 ± 0.121	3.405 ± 0.109	n = 6	[BCG] Beckman Coulter UniCel DxC 600
0.500 ± 0.064	1.995 ± 0.093	1.676 ± 0.080	0.900 ± 0.000	3.337 ± 0.055	n = 5	[BCH] Beckman Coulter UniCel DxC 800
0.538 ± 0.070	1.680 ± 0.147	1.482 ± 0.118	0.800 ± 0.069	3.290 ± 0.097	n = 9	[JJG] Ortho Vitros 5600
0.682 ± 0.151	1.819 ± 0.066	1.556 ± 0.088	0.940 ± 0.082	3.300 ± 0.070	n = 9	[ROC] Roche cobas c501
0.608 ± 0.015	1.750 ± 0.045	1.550 ± 0.045	0.908 ± 0.015	3.286 ± 0.026	n = 3	[ROT] Roche Cobas INTEGRA 800
0.555 ± 0.045	1.808 ± 0.015	1.542 ± 0.077	0.820 ± 0.036	3.328 ± 0.051	n = 3	[BYE] Siemens ADVIA 1800
0.800 ± 0.000	2.210 ± 0.103	1.889 ± 0.114	1.171 ± 0.080	3.703 ± 0.167	n = 10	[COB] Siemens ADVIA Centaur
0.622 ± 0.071	2.012 ± 0.101	1.712 ± 0.089	0.982 ± 0.083	3.687 ± 0.157	n = 19	[DUE] Siemens Dimension EXL
0.646 ± 0.037	1.925 ± 0.048	1.658 ± 0.047	0.954 ± 0.039	3.598 ± 0.081	n = 31	[DUT] Siemens Dimension Vista
0.585 ± 0.019	1.931 ± 0.029	1.647 ± 0.113	0.939 ± 0.057	3.659 ± 0.092	n = 3	[DUX] Siemens Dimension Xpand
0.600 ± 0.015	2.049 ± 0.041	1.760 ± 0.040	1.043 ± 0.060	3.692 ± 0.201	n = 4	[DPD] Siemens Immulite 2000
0.532 ± 0.067	1.734 ± 0.091	1.488 ± 0.093	0.855 ± 0.078	3.123 ± 0.134	n = 15	<Reagents> [AB1] Abbott
0.623 ± 0.111	1.983 ± 0.091	1.726 ± 0.095	0.967 ± 0.105	3.465 ± 0.176	n = 17	[BC1] Beckman Coulter
0.716 ± 0.134	2.066 ± 0.165	1.750 ± 0.149	1.001 ± 0.123	3.658 ± 0.340	n = 12	[OL1] Beckman Coulter AU Series
0.550 ± 0.083	1.696 ± 0.147	1.498 ± 0.122	0.814 ± 0.087	3.307 ± 0.106	n = 10	[JJ1] Ortho Clinical Diagnostics
0.660 ± 0.138	1.813 ± 0.055	1.540 ± 0.074	0.930 ± 0.074	3.279 ± 0.077	n = 11	[RO4] Roche cobas c311/c501/c502/c701/c702
0.605 ± 0.012	1.766 ± 0.045	1.566 ± 0.045	0.905 ± 0.012	3.266 ± 0.045	n = 4	[RO1] Roche Integra and MIRA
0.784 ± 0.095	2.151 ± 0.165	1.851 ± 0.141	1.132 ± 0.120	3.664 ± 0.210	n = 14	[BY1] Siemens ADVIA/ADVIA Centaur
0.629 ± 0.057	1.980 ± 0.093	1.697 ± 0.087	0.967 ± 0.065	3.658 ± 0.132	n = 32	[DA5] Siemens Dimension
0.639 ± 0.040	1.922 ± 0.048	1.652 ± 0.049	0.951 ± 0.044	3.589 ± 0.080	n = 22	[DA6] Siemens Dimension LOCI
0.600 ± 0.015	2.049 ± 0.041	1.760 ± 0.040	1.043 ± 0.060	3.692 ± 0.201	n = 4	[DP5] Siemens Immulite
0.800 ± 0.090	2.120 ± 0.236	1.700 ± 0.090	1.044 ± 0.102	3.595 ± 0.372	n = 3	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Ethanol (mg/dL)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
125.85 ± 4.47 128.8	160.97 ± 5.24 168.6	123.51 ± 4.48 128.7	184.65 ± 6.60 193.1	216.75 ± 7.54 224.3	n = 123	[---] All Methods & Instruments [---] Weigh-in value
<Instruments>						
124.66 ± 1.52	159.07 ± 2.05	122.58 ± 1.91	183.10 ± 2.55	213.61 ± 2.62	n = 12	[ABJ] Abbott Architect c System
127.10 ± 4.20	161.97 ± 5.43	124.05 ± 2.52	185.98 ± 5.84	218.37 ± 3.78	n = 14	[OLC] Beckman Coulter AU Chemistry System
129.87 ± 6.62	162.09 ± 6.06	122.53 ± 4.74	188.58 ± 13.59	213.51 ± 8.33	n = 6	[BCG] Beckman Coulter UniCel Dx C 600
130.90 ± 2.79	165.37 ± 1.70	126.91 ± 4.26	186.06 ± 3.78	218.26 ± 8.75	n = 3	[BCH] Beckman Coulter UniCel Dx C 800
117.18 ± 4.89	155.35 ± 8.43	120.74 ± 6.76	174.00 ± 4.51	200.96 ± 8.16	n = 3	[GCC] Gas Chromatograph
126.59 ± 7.03	163.40 ± 9.75	125.35 ± 7.29	187.53 ± 10.93	223.52 ± 13.27	n = 8	[JJG] Ortho Vitros 5600
123.58 ± 3.33	159.99 ± 4.91	123.60 ± 3.99	184.75 ± 4.05	216.88 ± 7.97	n = 11	[ROC] Roche cobas c501
129.80 ± 1.62	164.10 ± 1.90	127.77 ± 0.83	189.04 ± 3.93	223.47 ± 2.09	n = 5	[BYE] Siemens ADVIA 1800
123.60 ± 1.74	158.24 ± 3.68	120.75 ± 2.34	180.18 ± 5.12	213.75 ± 6.74	n = 17	[DUE] Siemens Dimension EXL
127.59 ± 4.96	162.97 ± 5.80	125.23 ± 5.26	187.42 ± 6.47	219.31 ± 7.36	n = 29	[DUT] Siemens Dimension Vista
123.26 ± 1.37	158.48 ± 3.63	121.20 ± 2.36	182.52 ± 4.61	212.18 ± 4.89	n = 3	[DUX] Siemens Dimension Xpand
<Reagents>						
124.84 ± 1.62	159.27 ± 2.02	122.85 ± 2.08	183.19 ± 2.43	213.66 ± 2.47	n = 13	[AB1] Abbott
130.62 ± 4.13	163.80 ± 4.55	123.98 ± 4.70	186.34 ± 8.88	215.62 ± 8.33	n = 10	[BC1] Beckman Coulter
126.49 ± 3.94	161.53 ± 3.24	123.62 ± 1.53	185.84 ± 3.71	217.77 ± 3.19	n = 12	[OL1] Beckman Coulter AU Series
125.08 ± 2.96	164.21 ± 8.51	125.96 ± 6.48	188.48 ± 10.58	224.55 ± 12.08	n = 11	[JJ1] Ortho Clinical Diagnostics
124.16 ± 3.22	160.14 ± 4.50	123.86 ± 3.38	185.00 ± 3.61	217.08 ± 7.17	n = 13	[RO4] Roche cobas c311/c501/c502/c701/c702
129.83 ± 1.32	163.79 ± 2.70	126.11 ± 3.86	188.24 ± 4.50	223.34 ± 3.54	n = 3	[BY1] Siemens ADVIA/ADVIA Centaur
130.10 ± 1.62	165.38 ± 1.13	128.08 ± 0.77	191.48 ± 3.24	224.87 ± 1.13	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
125.47 ± 4.21	160.67 ± 5.23	122.87 ± 4.53	184.42 ± 6.79	216.64 ± 7.49	n = 50	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Gentamicin (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
5.12 ± 0.42 4.7	4.10 ± 0.35 4.0	7.15 ± 0.61 6.8	7.63 ± 0.67 7.1	9.55 ± 0.78 9.3	n = 89	[---] All Methods & Instruments [---] Weigh-in value
5.25 ± 0.20	4.20 ± 0.16	7.33 ± 0.20	7.74 ± 0.37	9.66 ± 0.46	n = 9	<Instruments> [ABH] Abbott Architect i System
5.67 ± 0.39	4.61 ± 0.35	7.68 ± 0.53	8.41 ± 0.74	10.29 ± 0.86	n = 10	[OLC] Beckman Coulter AU Chemistry System
5.61 ± 0.30	4.42 ± 0.13	7.92 ± 0.47	8.49 ± 0.35	10.74 ± 0.35	n = 4	[BCG] Beckman Coulter UniCel DxC 600
5.53 ± 0.05	4.50 ± 0.09	7.75 ± 0.19	8.59 ± 0.29	10.48 ± 0.24	n = 3	[BCH] Beckman Coulter UniCel DxC 800
5.51 ± 0.25	4.50 ± 0.16	7.71 ± 0.11	8.16 ± 0.51	10.09 ± 0.57	n = 6	[JJG] Ortho Vitros 5600
4.60 ± 0.00	3.65 ± 0.18	6.48 ± 0.13	6.77 ± 0.34	8.42 ± 0.26	n = 5	[ROC] Roche cobas c501
5.00 ± 0.18	4.17 ± 0.05	6.93 ± 0.32	7.32 ± 0.24	9.68 ± 0.24	n = 3	[ROT] Roche Cobas INTEGRA 800
5.27 ± 0.44	4.16 ± 0.32	8.06 ± 0.35	8.14 ± 0.83	10.37 ± 2.37	n = 6	[COB] Siemens ADVIA Centaur
5.05 ± 0.29	3.98 ± 0.16	6.98 ± 0.26	7.54 ± 0.30	9.52 ± 0.04	n = 5	[DUE] Siemens Dimension EXL
4.86 ± 0.25	3.89 ± 0.19	6.85 ± 0.30	7.33 ± 0.32	9.20 ± 0.31	n = 30	[DUT] Siemens Dimension Vista
5.21 ± 0.20	4.17 ± 0.16	7.29 ± 0.20	7.79 ± 0.39	9.64 ± 0.39	n = 11	<Reagents> [AB1] Abbott
5.61 ± 0.22	4.48 ± 0.14	7.83 ± 0.34	8.51 ± 0.31	10.55 ± 0.37	n = 8	[BC1] Beckman Coulter
5.55 ± 0.36	4.46 ± 0.32	7.54 ± 0.57	8.13 ± 0.53	10.01 ± 0.68	n = 7	[OL1] Beckman Coulter AU Series
5.51 ± 0.25	4.50 ± 0.16	7.71 ± 0.11	8.16 ± 0.51	10.09 ± 0.57	n = 6	[JJ1] Ortho Clinical Diagnostics
4.70 ± 0.19	3.72 ± 0.04	6.48 ± 0.13	6.61 ± 0.34	8.38 ± 0.24	n = 5	[RO4] Roche cobas c311/c501/c502/c701/c702
5.00 ± 0.15	4.15 ± 0.06	6.82 ± 0.31	7.25 ± 0.23	9.72 ± 0.21	n = 4	[RO1] Roche Integra and MIRA
5.27 ± 0.44	4.16 ± 0.32	8.06 ± 0.35	8.14 ± 0.83	10.37 ± 2.37	n = 6	[BY1] Siemens ADVIA/ADVIA Centaur
4.90 ± 0.27	3.91 ± 0.19	6.86 ± 0.31	7.36 ± 0.32	9.25 ± 0.31	n = 36	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Lithium (mmol/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
0.517 ± 0.043 0.6	1.920 ± 0.066 2.2	1.646 ± 0.062 1.9	0.777 ± 0.057 0.9	1.082 ± 0.053 1.2	n = 105	[---] All Methods & Instruments [---] Weigh-in value
0.504 ± 0.006	1.892 ± 0.087	1.629 ± 0.071	0.761 ± 0.037	1.075 ± 0.032	n = 10	<Instruments> [ABJ] Abbott Architect c System
0.500 ± 0.006	1.863 ± 0.043	1.592 ± 0.017	0.727 ± 0.035	1.036 ± 0.045	n = 15	[OLC] Beckman Coulter AU Chemistry System
0.500 ± 0.032	1.968 ± 0.033	1.702 ± 0.037	0.776 ± 0.045	1.098 ± 0.004	n = 5	[BCG] Beckman Coulter UniCel DxC 600
0.492 ± 0.036	1.918 ± 0.066	1.599 ± 0.043	0.733 ± 0.035	1.039 ± 0.036	n = 5	[BCH] Beckman Coulter UniCel DxC 800
0.500 ± 0.000	2.007 ± 0.063	1.700 ± 0.000	0.813 ± 0.079	1.126 ± 0.080	n = 9	[JJG] Ortho Vitros 5600
0.517 ± 0.041	1.900 ± 0.000	1.647 ± 0.054	0.800 ± 0.000	1.100 ± 0.000	n = 8	[ROC] Roche cobas c501
0.498 ± 0.004	1.872 ± 0.044	1.600 ± 0.000	0.760 ± 0.061	1.067 ± 0.050	n = 5	[BYE] Siemens ADVIA 1800
0.494 ± 0.037	1.895 ± 0.018	1.615 ± 0.011	0.752 ± 0.036	1.084 ± 0.087	n = 6	[DUE] Siemens Dimension EXL
0.548 ± 0.049	1.941 ± 0.039	1.673 ± 0.041	0.796 ± 0.048	1.101 ± 0.033	n = 29	[DUT] Siemens Dimension Vista
0.505 ± 0.006	1.904 ± 0.085	1.637 ± 0.055	0.768 ± 0.032	1.080 ± 0.025	n = 9	<Reagents> [AB1] Abbott
0.502 ± 0.031	1.936 ± 0.059	1.633 ± 0.068	0.747 ± 0.043	1.069 ± 0.040	n = 9	[BC1] Beckman Coulter
0.499 ± 0.007	1.856 ± 0.043	1.589 ± 0.019	0.721 ± 0.027	1.024 ± 0.036	n = 13	[OL1] Beckman Coulter AU Series
0.520 ± 0.050	2.029 ± 0.092	1.700 ± 0.000	0.823 ± 0.080	1.145 ± 0.107	n = 10	[JJ1] Ortho Clinical Diagnostics
0.500 ± 0.000	1.900 ± 0.000	1.634 ± 0.048	0.800 ± 0.000	1.100 ± 0.000	n = 9	[R04] Roche cobas c311/c501/c502/c701/c702
0.500 ± 0.000	1.880 ± 0.040	1.600 ± 0.000	0.770 ± 0.056	1.075 ± 0.046	n = 6	[BY1] Siemens ADVIA/ADVIA Centaur
0.536 ± 0.053	1.934 ± 0.041	1.663 ± 0.045	0.786 ± 0.050	1.097 ± 0.048	n = 36	[DA5] Siemens Dimension
0.509 ± 0.064	1.929 ± 0.076	1.670 ± 0.082	0.800 ± 0.058	1.078 ± 0.060	n = 4	[TH1] Thermo Scientific

Summary of Participant Performance (Mean and Standard Deviation)

Phenobarbital (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
22.40 ± 1.23 22.7	37.62 ± 1.54 38.2	16.30 ± 0.88 16.1	33.44 ± 1.63 34.0	36.27 ± 1.92 36.7	n = 101	[---] All Methods & Instruments [---] Weigh-in value
22.17 ± 0.89	37.31 ± 0.79	16.15 ± 0.48	33.30 ± 1.23	36.49 ± 0.87	n = 10	<Instruments> [ABH] Abbott Architect i System
21.98 ± 0.69	37.35 ± 1.53	16.00 ± 0.56	33.19 ± 1.30	35.26 ± 1.77	n = 14	[OLC] Beckman Coulter AU Chemistry System
21.89 ± 0.52	36.42 ± 0.78	15.94 ± 0.57	32.17 ± 1.06	33.99 ± 1.80	n = 5	[BCG] Beckman Coulter UniCel DxC 600
21.85 ± 0.53	35.70 ± 1.36	15.85 ± 0.47	31.74 ± 0.99	33.74 ± 1.30	n = 4	[BCH] Beckman Coulter UniCel DxC 800
22.38 ± 0.95	38.23 ± 1.85	16.63 ± 0.57	33.68 ± 1.94	36.81 ± 1.02	n = 9	[ROC] Roche cobas c501
21.39 ± 0.37	37.05 ± 0.36	15.90 ± 0.09	32.15 ± 0.36	34.81 ± 0.37	n = 3	[ROT] Roche Cobas INTEGRA 800
24.22 ± 1.15	40.02 ± 2.04	18.18 ± 1.10	36.87 ± 2.22	39.52 ± 2.00	n = 7	[COB] Siemens ADVIA Centaur
22.52 ± 1.03	38.13 ± 1.32	16.54 ± 1.27	34.66 ± 2.07	37.36 ± 1.84	n = 9	[DUE] Siemens Dimension EXL
23.03 ± 1.46	37.67 ± 1.46	16.40 ± 1.06	33.55 ± 1.05	36.11 ± 1.47	n = 30	[DUT] Siemens Dimension Vista
22.14 ± 0.84	37.19 ± 0.91	16.18 ± 0.44	33.15 ± 1.25	36.33 ± 1.00	n = 11	<Reagents> [AB1] Abbott
21.95 ± 0.54	36.38 ± 1.04	15.97 ± 0.54	32.17 ± 1.36	34.21 ± 1.85	n = 10	[BC1] Beckman Coulter
21.84 ± 0.84	37.07 ± 1.76	16.01 ± 0.65	32.90 ± 1.26	34.97 ± 2.06	n = 10	[OL1] Beckman Coulter AU Series
22.25 ± 0.96	38.04 ± 1.81	16.68 ± 0.54	33.89 ± 1.88	36.74 ± 0.86	n = 10	[RO4] Roche cobas c311/c501/c502/c701/c702
21.63 ± 0.61	37.30 ± 0.58	16.02 ± 0.31	32.44 ± 0.73	35.20 ± 0.93	n = 4	[RO1] Roche Integra and MIRA
24.22 ± 1.15	40.02 ± 2.04	18.18 ± 1.10	36.87 ± 2.22	39.52 ± 2.00	n = 7	[BY1] Siemens ADVIA/ADVIA Centaur
22.85 ± 1.41	37.83 ± 1.50	16.42 ± 1.12	33.67 ± 1.32	36.44 ± 1.77	n = 40	[DA5] Siemens Dimension



Summary of Participant Performance (Mean and Standard Deviation)

Phenytoin (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
17.96 ± 1.31 18.0	12.13 ± 1.01 12.0	8.57 ± 0.71 8.6	26.95 ± 2.19 27.0	20.91 ± 1.67 20.6	n = 137	[---] All Methods & Instruments [---] Weigh-in value
17.15 ± 0.63	11.68 ± 0.59	8.13 ± 0.23	25.20 ± 1.90	20.36 ± 0.67	n = 3	<Instruments> [ABJ] Abbott Architect c System
17.51 ± 0.64	11.74 ± 0.41	8.29 ± 0.29	26.40 ± 0.66	20.18 ± 0.72	n = 12	[ABH] Abbott Architect i System
17.98 ± 1.34	12.37 ± 0.89	8.58 ± 0.66	26.93 ± 2.49	20.81 ± 1.51	n = 18	[OLC] Beckman Coulter AU Chemistry System
17.27 ± 0.69	11.77 ± 0.32	8.47 ± 0.20	25.59 ± 0.88	19.93 ± 1.04	n = 6	[BCG] Beckman Coulter UniCel DxC 600
17.08 ± 0.46	11.76 ± 0.43	8.42 ± 0.23	25.38 ± 0.66	19.91 ± 0.75	n = 5	[BCH] Beckman Coulter UniCel DxC 800
16.36 ± 0.45	10.30 ± 0.40	7.55 ± 0.31	24.32 ± 0.51	18.16 ± 0.85	n = 9	[JJG] Ortho Vitros 5600
16.81 ± 1.23	11.09 ± 1.02	7.79 ± 1.00	24.74 ± 2.31	19.33 ± 1.28	n = 10	[ROC] Roche cobas c501
17.53 ± 0.60	11.99 ± 0.29	8.51 ± 0.20	27.36 ± 0.62	20.80 ± 0.64	n = 3	[ROT] Roche Cobas INTEGRA 800
17.85 ± 0.36	11.40 ± 0.64	8.45 ± 0.19	25.13 ± 1.23	19.03 ± 0.86	n = 3	[BYE] Siemens ADVIA 1800
18.48 ± 1.11	12.26 ± 0.86	8.70 ± 0.54	29.69 ± 1.52	22.53 ± 1.03	n = 8	[COB] Siemens ADVIA Centaur
18.90 ± 1.04	12.76 ± 0.70	8.95 ± 0.65	28.68 ± 1.26	22.00 ± 1.08	n = 16	[DUE] Siemens Dimension EXL
18.80 ± 0.83	12.83 ± 0.57	9.10 ± 0.43	27.59 ± 0.95	21.73 ± 0.78	n = 31	[DUT] Siemens Dimension Vista
17.44 ± 0.66	11.73 ± 0.45	8.26 ± 0.29	26.36 ± 0.69	20.22 ± 0.71	n = 15	<Reagents> [AB1] Abbott
17.16 ± 0.56	11.76 ± 0.35	8.44 ± 0.20	25.43 ± 0.84	20.01 ± 0.91	n = 12	[BC1] Beckman Coulter
18.18 ± 1.34	12.52 ± 0.85	8.72 ± 0.62	27.18 ± 2.65	20.98 ± 1.63	n = 14	[OL1] Beckman Coulter AU Series
16.28 ± 0.49	10.26 ± 0.39	7.53 ± 0.30	24.23 ± 0.55	18.02 ± 0.88	n = 10	[JJ1] Ortho Clinical Diagnostics
17.01 ± 1.15	11.28 ± 0.96	7.90 ± 0.91	25.42 ± 2.76	19.65 ± 1.33	n = 12	[RO4] Roche cobas c311/c501/c502/c701/c702
17.62 ± 0.52	11.97 ± 0.25	8.43 ± 0.23	27.40 ± 0.51	21.01 ± 0.58	n = 4	[RO1] Roche Integra and MIRA
18.74 ± 1.33	12.52 ± 0.98	8.75 ± 0.48	30.26 ± 2.03	22.83 ± 1.40	n = 10	[BY1] Siemens ADVIA/ADVIA Centaur
17.85 ± 0.36	11.40 ± 0.64	8.45 ± 0.19	25.13 ± 1.23	19.03 ± 0.86	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
18.82 ± 0.90	12.76 ± 0.66	9.03 ± 0.52	27.98 ± 1.19	21.84 ± 0.88	n = 50	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Free Phenytoin (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
1.92 ± 0.18	1.32 ± 0.21	0.93 ± 0.10	2.92 ± 0.26	2.35 ± 0.33	n = 7	[---] All Methods & Instruments
1.84 ± 0.10	1.26 ± 0.10	0.87 ± 0.05	2.86 ± 0.10	2.05 ± 0.19	n = 3	<Instruments> [OLC] Beckman Coulter AU Chemistry System
1.84 ± 0.10	1.26 ± 0.10	0.87 ± 0.05	2.86 ± 0.10	2.05 ± 0.19	n = 3	<Reagents> [OL1] Beckman Coulter AU Series

Summary of Participant Performance (Mean and Standard Deviation)

Salicylate (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
25.63 ± 1.00 24.8	62.63 ± 2.09 60.8	39.38 ± 1.09 38.4	38.12 ± 1.10 37.2	56.04 ± 1.83 54.6	n = 121	[---] All Methods & Instruments [---] Weigh-in value
<Instruments>						
24.67 ± 0.92	63.18 ± 1.15	39.17 ± 0.85	37.94 ± 0.73	56.38 ± 0.93	n = 13	[ABJ] Abbott Architect c System
25.87 ± 1.28	62.72 ± 3.12	39.17 ± 2.32	38.70 ± 2.65	55.98 ± 3.16	n = 14	[OLC] Beckman Coulter AU Chemistry System
25.71 ± 0.92	64.22 ± 0.84	39.54 ± 1.13	38.22 ± 1.04	57.51 ± 1.23	n = 5	[BCG] Beckman Coulter UniCel Dx C 600
24.90 ± 1.64	64.37 ± 2.05	39.19 ± 0.94	38.40 ± 1.33	57.05 ± 1.88	n = 4	[BCH] Beckman Coulter UniCel Dx C 800
28.50 ± 1.36	66.76 ± 2.77	41.65 ± 1.88	40.80 ± 1.75	59.79 ± 2.02	n = 8	[JJG] Ortho Vitros 5600
25.26 ± 0.62	63.14 ± 1.27	39.26 ± 0.83	37.90 ± 0.83	56.07 ± 0.86	n = 11	[ROC] Roche cobas c501
26.09 ± 0.70	65.62 ± 1.56	40.78 ± 1.42	39.51 ± 1.20	58.57 ± 1.70	n = 5	[BYE] Siemens ADVIA 1800
25.72 ± 0.32	61.59 ± 0.32	39.18 ± 0.21	37.83 ± 0.34	55.17 ± 0.51	n = 17	[DUE] Siemens Dimension EXL
25.63 ± 0.48	61.55 ± 0.99	39.31 ± 0.52	37.93 ± 0.52	55.22 ± 0.72	n = 29	[DUT] Siemens Dimension Vista
<Reagents>						
24.67 ± 0.92	63.18 ± 1.15	39.17 ± 0.85	37.94 ± 0.73	56.38 ± 0.93	n = 13	[AB1] Abbott
25.44 ± 1.29	64.30 ± 1.40	39.37 ± 1.06	38.25 ± 1.19	57.27 ± 1.60	n = 9	[BC1] Beckman Coulter
25.74 ± 1.40	62.07 ± 2.57	38.98 ± 2.51	38.15 ± 2.34	55.78 ± 3.55	n = 12	[OL1] Beckman Coulter AU Series
28.30 ± 1.13	66.62 ± 2.59	41.81 ± 1.57	40.88 ± 1.51	59.54 ± 1.62	n = 11	[JJ1] Ortho Clinical Diagnostics
25.10 ± 0.64	62.95 ± 1.80	39.05 ± 1.06	37.67 ± 0.98	55.74 ± 1.35	n = 14	[RO4] Roche cobas c311/c501/c502/c701/c702
26.21 ± 0.57	65.71 ± 1.40	40.94 ± 1.29	39.60 ± 1.08	58.52 ± 1.49	n = 6	[BY1] Siemens ADVIA/ADVIA Centaur
25.68 ± 0.40	61.58 ± 0.74	39.27 ± 0.38	37.93 ± 0.48	55.23 ± 0.63	n = 49	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Theophylline (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
15.27 ± 0.94 15.8	27.15 ± 2.05 28.6	7.17 ± 0.39 7.8	22.44 ± 1.62 23.6	10.87 ± 0.71 10.9	n = 95	[---] All Methods & Instruments [---] Weigh-in value
14.64 ± 0.63	25.42 ± 0.97	7.16 ± 0.29	21.13 ± 0.60	10.51 ± 0.46	n = 7	<Instruments> [ABH] Abbott Architect i System
15.40 ± 0.93	26.84 ± 2.99	7.05 ± 0.32	22.39 ± 2.16	10.76 ± 0.35	n = 12	[OLC] Beckman Coulter AU Chemistry System
14.38 ± 0.50	25.71 ± 0.69	6.70 ± 0.26	21.07 ± 0.59	9.81 ± 0.28	n = 5	[BCG] Beckman Coulter UniCel DxC 600
13.70 ± 0.32	26.34 ± 0.90	6.85 ± 0.12	20.68 ± 0.61	10.18 ± 0.20	n = 4	[BCH] Beckman Coulter UniCel DxC 800
16.40 ± 0.49	32.54 ± 1.41	7.60 ± 0.36	25.68 ± 0.93	12.34 ± 0.54	n = 7	[JJG] Ortho Vitros 5600
14.79 ± 0.52	26.98 ± 0.83	7.01 ± 0.18	22.34 ± 1.07	10.35 ± 0.35	n = 5	[ROC] Roche cobas c501
16.10 ± 1.67	26.71 ± 2.64	7.59 ± 0.90	23.16 ± 1.51	10.96 ± 0.47	n = 6	[COB] Siemens ADVIA Centaur
15.43 ± 0.75	28.95 ± 1.57	7.30 ± 0.32	23.68 ± 1.53	11.31 ± 0.56	n = 7	[DUE] Siemens Dimension EXL
15.20 ± 0.55	27.12 ± 0.81	7.19 ± 0.22	22.32 ± 0.79	10.89 ± 0.41	n = 30	[DUT] Siemens Dimension Vista
11.30 ± 8.11	18.34 ± 13.16	4.95 ± 3.52	14.26 ± 10.13	7.11 ± 5.20	n = 3	[DPD] Siemens Immulite 2000
15.00 ± 0.94	25.70 ± 1.21	7.28 ± 0.36	21.75 ± 1.26	10.75 ± 0.63	n = 9	<Reagents> [AB1] Abbott
14.04 ± 0.54	25.95 ± 0.80	6.78 ± 0.22	20.90 ± 0.62	10.00 ± 0.32	n = 9	[BC1] Beckman Coulter
15.63 ± 0.95	26.96 ± 3.00	7.08 ± 0.36	22.83 ± 2.41	10.84 ± 0.28	n = 9	[OL1] Beckman Coulter AU Series
16.40 ± 0.49	32.54 ± 1.41	7.60 ± 0.36	25.68 ± 0.93	12.34 ± 0.54	n = 7	[JJ1] Ortho Clinical Diagnostics
14.79 ± 0.52	26.98 ± 0.83	7.01 ± 0.18	22.34 ± 1.07	10.35 ± 0.35	n = 5	[RO4] Roche cobas c311/c501/c502/c701/c702
16.10 ± 1.67	26.71 ± 2.64	7.59 ± 0.90	23.16 ± 1.51	10.96 ± 0.47	n = 6	[BY1] Siemens ADVIA/ADVIA Centaur
15.26 ± 0.60	27.38 ± 1.22	7.22 ± 0.26	22.47 ± 1.02	10.99 ± 0.50	n = 39	[DA5] Siemens Dimension
11.30 ± 8.11	18.34 ± 13.16	4.95 ± 3.52	14.26 ± 10.13	7.11 ± 5.20	n = 3	[DP5] Siemens Immulite
14.85 ± 0.54	26.49 ± 2.90	7.02 ± 0.15	21.47 ± 0.69	10.57 ± 0.32	n = 3	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Tobramycin (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
2.97 ± 0.22 3.2	6.48 ± 0.64 6.9	6.89 ± 0.70 7.6	4.44 ± 0.24 4.8	9.96 ± 0.68 10.9	n = 33	[---] All Methods & Instruments [---] Weigh-in value
3.20 ± 0.00	7.17 ± 0.22	7.52 ± 0.22	4.64 ± 0.25	10.65 ± 0.52	n = 7	<Instruments>
2.80 ± 0.11	6.33 ± 0.20	6.87 ± 0.31	4.43 ± 0.09	9.51 ± 0.51	n = 4	[ABJ] Abbott Architect c System
2.85 ± 0.09	6.04 ± 0.23	6.38 ± 0.31	4.33 ± 0.21	9.66 ± 0.38	n = 13	[OLC] Beckman Coulter AU Chemistry System [DUT] Siemens Dimension Vista
3.20 ± 0.00	7.17 ± 0.22	7.52 ± 0.22	4.64 ± 0.25	10.65 ± 0.52	n = 7	<Reagents>
3.99 ± 0.29	8.24 ± 0.47	8.83 ± 0.31	6.13 ± 0.23	13.17 ± 0.69	n = 3	[AB1] Abbott
2.84 ± 0.10	6.39 ± 0.20	6.99 ± 0.29	4.44 ± 0.10	9.40 ± 0.64	n = 3	[BC1] Beckman Coulter
2.87 ± 0.11	6.09 ± 0.24	6.42 ± 0.30	4.33 ± 0.20	9.70 ± 0.36	n = 15	[OL1] Beckman Coulter AU Series [DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Valproic Acid (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
79.49 ± 4.10 80.0	120.25 ± 6.76 118.2	44.78 ± 2.48 42.6	117.26 ± 5.28 118.4	91.04 ± 4.79 89.7	n = 129	[---] All Methods & Instruments [---] Weigh-in value
<Instruments>						
79.25 ± 3.52	122.66 ± 3.71	44.64 ± 1.06	119.03 ± 4.82	93.03 ± 3.78	n = 13	[ABH] Abbott Architect i System
83.33 ± 4.03	127.86 ± 5.56	46.08 ± 2.24	122.69 ± 5.27	94.85 ± 3.84	n = 16	[OLC] Beckman Coulter AU Chemistry System
77.67 ± 3.11	110.45 ± 4.98	43.04 ± 1.40	109.69 ± 4.58	85.68 ± 3.63	n = 5	[BCG] Beckman Coulter UniCel DxC 600
73.57 ± 2.58	112.84 ± 6.52	40.74 ± 1.89	111.09 ± 3.16	83.44 ± 1.09	n = 4	[BCH] Beckman Coulter UniCel DxC 800
78.80 ± 1.40	120.30 ± 3.46	44.71 ± 1.32	117.43 ± 3.20	90.96 ± 2.12	n = 9	[JJG] Ortho Vitros 5600
74.94 ± 5.42	122.81 ± 8.99	43.22 ± 3.92	117.63 ± 10.18	89.61 ± 6.29	n = 10	[ROC] Roche cobas c501
81.78 ± 2.12	127.38 ± 2.02	46.33 ± 1.31	120.14 ± 2.74	100.40 ± 2.69	n = 3	[BYE] Siemens ADVIA 1800
76.87 ± 1.86	113.67 ± 6.20	42.99 ± 2.64	114.64 ± 5.98	86.09 ± 3.72	n = 9	[COB] Siemens ADVIA Centaur
79.17 ± 2.52	116.84 ± 3.91	44.63 ± 1.06	116.61 ± 3.69	91.27 ± 3.30	n = 12	[DUE] Siemens Dimension EXL
81.35 ± 2.59	120.28 ± 4.52	46.55 ± 1.63	117.34 ± 3.67	91.98 ± 3.29	n = 31	[DUT] Siemens Dimension Vista
<Reagents>						
78.93 ± 3.34	122.79 ± 3.30	44.43 ± 1.18	119.29 ± 4.43	92.95 ± 3.44	n = 15	[AB1] Abbott
76.21 ± 4.71	112.58 ± 6.44	42.38 ± 2.10	111.06 ± 4.99	85.01 ± 3.76	n = 10	[BC1] Beckman Coulter
83.23 ± 4.39	128.52 ± 5.03	46.25 ± 2.74	122.50 ± 5.42	95.77 ± 4.20	n = 12	[OL1] Beckman Coulter AU Series
78.81 ± 2.26	119.73 ± 3.84	44.39 ± 1.80	116.82 ± 3.90	90.52 ± 2.55	n = 10	[JJ1] Ortho Clinical Diagnostics
75.02 ± 5.05	122.37 ± 8.46	43.55 ± 3.84	116.78 ± 9.90	89.08 ± 6.05	n = 11	[RO4] Roche cobas c311/c501/c502/c701/c702
75.56 ± 1.98	116.54 ± 0.91	41.78 ± 0.86	115.03 ± 2.58	87.46 ± 2.46	n = 3	[RO1] Roche Integra and MIRA
77.17 ± 2.90	115.46 ± 7.30	43.65 ± 2.79	115.39 ± 6.52	86.53 ± 4.25	n = 11	[BY1] Siemens ADVIA/ADVIA Centaur
81.78 ± 2.12	127.38 ± 2.02	46.33 ± 1.31	120.14 ± 2.74	100.40 ± 2.69	n = 3	[BY5] Siemens ADVIA/Syva Emit 2000
80.60 ± 2.70	118.85 ± 4.70	45.76 ± 1.89	116.81 ± 3.75	91.73 ± 3.14	n = 47	[DA5] Siemens Dimension
82.25 ± 2.08	128.24 ± 6.43	46.39 ± 0.29	123.45 ± 6.12	92.89 ± 0.81	n = 3	[SY4] Syva Emit 2000

## Summary of Participant Performance (Mean and Standard Deviation)

## Vancomycin (mg/L)

Specimen: T31	Specimen: T32	Specimen: T33	Specimen: T34	Specimen: T35	Number	[Code] Instrument or Reagent System
11.84 ± 1.02 12.3	6.39 ± 0.67 6.7	37.82 ± 3.58 40.5	17.57 ± 1.54 18.5	25.10 ± 2.54 26.8	n = 120	[---] All Methods & Instruments [---] Weigh-in value
13.12 ± 0.43	6.78 ± 0.28	42.64 ± 1.73	19.45 ± 0.73	28.08 ± 0.86	n = 11	<Instruments> [ABH] Abbott Architect i System
11.06 ± 0.66	6.29 ± 0.60	36.08 ± 1.69	16.26 ± 0.75	23.19 ± 1.12	n = 14	[OLC] Beckman Coulter AU Chemistry System
12.54 ± 0.49	6.76 ± 0.18	41.74 ± 3.49	18.11 ± 0.68	27.54 ± 1.66	n = 4	[BCG] Beckman Coulter UniCel DxC 600
12.22 ± 0.59	6.72 ± 0.42	44.05 ± 2.10	18.20 ± 0.17	29.33 ± 1.29	n = 5	[BCH] Beckman Coulter UniCel DxC 800
11.57 ± 0.51	6.57 ± 0.38	36.39 ± 0.56	16.97 ± 0.22	24.06 ± 0.64	n = 7	[JJG] Ortho Vitros 5600
11.72 ± 0.74	6.19 ± 0.50	38.70 ± 1.54	17.68 ± 1.23	25.53 ± 1.18	n = 10	[ROC] Roche cobas c501
13.49 ± 1.01	7.75 ± 0.36	49.56 ± 2.69	21.45 ± 1.26	32.35 ± 0.81	n = 3	[ROT] Roche Cobas INTEGRA 800
10.08 ± 0.74	5.04 ± 0.16	32.81 ± 1.25	15.10 ± 1.00	21.37 ± 1.36	n = 9	[COB] Siemens ADVIA Centaur
11.76 ± 0.29	6.14 ± 0.51	38.75 ± 1.73	17.79 ± 0.69	25.65 ± 0.57	n = 12	[DUE] Siemens Dimension EXL
11.91 ± 0.68	6.36 ± 0.54	36.83 ± 1.95	17.61 ± 0.93	24.67 ± 1.23	n = 31	[DUT] Siemens Dimension Vista
12.99 ± 0.56	6.74 ± 0.26	42.11 ± 2.12	19.27 ± 0.83	27.83 ± 1.00	n = 13	<Reagents> [AB1] Abbott
12.32 ± 0.56	6.79 ± 0.37	42.62 ± 3.38	18.14 ± 0.64	28.26 ± 2.10	n = 10	[BC1] Beckman Coulter
11.02 ± 0.60	6.19 ± 0.54	35.60 ± 1.60	16.17 ± 0.76	22.92 ± 1.20	n = 11	[OL1] Beckman Coulter AU Series
11.54 ± 0.47	6.56 ± 0.34	36.51 ± 0.63	17.01 ± 0.25	24.13 ± 0.62	n = 8	[JJ1] Ortho Clinical Diagnostics
11.67 ± 0.68	6.14 ± 0.46	38.76 ± 1.36	17.52 ± 1.16	25.38 ± 1.19	n = 11	[RO4] Roche cobas c311/c501/c502/c701/c702
13.63 ± 0.83	7.70 ± 0.32	47.70 ± 4.32	21.71 ± 1.12	32.29 ± 0.68	n = 4	[RO1] Roche Integra and MIRA
9.91 ± 0.75	5.05 ± 0.15	32.63 ± 1.23	14.86 ± 0.96	21.42 ± 1.42	n = 11	[BY1] Siemens ADVIA/ADVIA Centaur
11.86 ± 0.56	6.30 ± 0.51	37.47 ± 2.04	17.65 ± 0.83	24.97 ± 1.18	n = 46	[DA5] Siemens Dimension