

Summary of Participant Performance (Mean and Standard Deviation)

Acetaminophen (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
106.10 ± 3.59 102.1	66.77 ± 2.55 64.0	28.12 ± 1.80 27.1	53.05 ± 2.41 51.1	154.11 ± 5.37 150.0	n = 218	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
95.50 ± 1.22	59.31 ± 0.90	25.15 ± 0.41	47.00 ± 0.75	138.93 ± 2.71	n = 4	[ABH] Abbott Architect
107.41 ± 10.10	65.03 ± 3.97	28.79 ± 2.27	53.28 ± 4.29	159.74 ± 5.75	n = 10	[ABB] Abbott AxSym
104.52 ± 7.14	61.21 ± 3.98	27.36 ± 1.97	49.93 ± 3.03	153.13 ± 17.34	n = 3	[ABG] Abbott TDX FLX
101.19 ± 7.28	62.95 ± 1.72	26.78 ± 0.87	49.02 ± 2.80	142.80 ± 11.34	n = 8	[OLC] Beckman Coulter AU Chemistry System
109.17 ± 1.62	67.56 ± 1.22	28.95 ± 1.81	56.63 ± 1.96	157.21 ± 3.18	n = 4	[BCS] Beckman Coulter CX
109.58 ± 4.34	67.54 ± 2.87	29.08 ± 2.29	54.85 ± 2.40	156.61 ± 6.47	n = 12	[BCX] Beckman Coulter LX-20
107.57 ± 3.97	65.21 ± 1.92	28.88 ± 2.14	54.22 ± 3.01	155.80 ± 5.00	n = 9	[BCG] Beckman Coulter UniCel DxC 600
108.63 ± 3.31	67.43 ± 3.02	29.60 ± 2.14	56.04 ± 1.99	157.83 ± 5.34	n = 16	[BCH] Beckman Coulter UniCel DxC 800
107.69 ± 1.89	68.32 ± 1.52	27.51 ± 0.83	52.82 ± 0.40	155.26 ± 1.42	n = 4	[JJE] Ortho Vitros 250/350/950
106.81 ± 1.39	68.44 ± 1.17	26.89 ± 0.53	52.61 ± 0.96	155.34 ± 2.35	n = 25	[JJF] Ortho Vitros 5,1FS
78.91 ± 2.67	48.98 ± 1.63	16.59 ± 0.79	36.05 ± 1.45	117.77 ± 4.20	n = 7	[ROC] Roche cobas c501
76.21 ± 2.25	49.10 ± 1.18	17.97 ± 0.56	36.33 ± 1.04	113.92 ± 2.52	n = 13	[ROT] Roche Cobas INTEGRA
68.22 ± 2.83	44.19 ± 1.97	15.17 ± 1.06	31.66 ± 1.55	101.75 ± 4.60	n = 11	[ROD] Roche MODULAR D/P
107.22 ± 3.77	66.53 ± 3.06	28.33 ± 1.96	53.76 ± 2.63	158.67 ± 4.52	n = 7	[BYE] Siemens ADVIA 1800
104.92 ± 3.85	64.94 ± 4.33	27.75 ± 2.17	52.68 ± 2.85	152.96 ± 5.23	n = 3	[BYB] Siemens ADVIA 2400
102.83 ± 1.07	65.71 ± 1.08	28.20 ± 0.75	50.59 ± 0.49	149.14 ± 1.19	n = 5	[DUE] Siemens Dimension EXL
104.52 ± 1.65	66.50 ± 1.43	28.41 ± 1.25	52.45 ± 1.09	152.38 ± 2.92	n = 46	[DUR] Siemens Dimension RxL
106.76 ± 2.93	67.76 ± 1.34	30.13 ± 0.45	54.52 ± 0.98	152.85 ± 3.60	n = 11	[DUT] Siemens Dimension Vista
104.35 ± 1.60	66.23 ± 1.23	28.02 ± 0.59	52.37 ± 0.72	152.09 ± 1.98	n = 10	[DUX] Siemens Dimension Xpand
<Reagents>						
103.50 ± 9.48	63.05 ± 4.80	27.50 ± 2.42	51.02 ± 4.41	153.95 ± 13.82	n = 18	[AB1] Abbott
108.89 ± 3.75	67.08 ± 2.85	29.25 ± 2.13	55.49 ± 2.54	156.99 ± 5.37	n = 42	[BC1] Beckman Coulter
100.31 ± 7.78	62.72 ± 1.80	26.92 ± 0.87	48.77 ± 3.05	144.26 ± 11.63	n = 7	[OL1] Beckman Coulter AU Series
106.96 ± 1.55	68.48 ± 1.22	26.95 ± 0.67	52.61 ± 0.87	155.31 ± 2.11	n = 31	[JJ1] Ortho Clinical Diagnostics
78.91 ± 2.67	48.98 ± 1.63	16.59 ± 0.79	36.05 ± 1.45	117.77 ± 4.20	n = 7	[R04] Roche cobas c501
68.22 ± 2.83	44.19 ± 1.97	15.17 ± 1.06	31.66 ± 1.55	101.75 ± 4.60	n = 11	[R02] Roche Hitachi and Modular D/P
76.21 ± 2.25	49.10 ± 1.18	17.97 ± 0.56	36.33 ± 1.04	113.92 ± 2.52	n = 13	[R01] Roche Integra and MIRA
107.67 ± 2.96	67.31 ± 2.60	28.47 ± 1.65	54.28 ± 2.15	156.65 ± 7.21	n = 11	[BY1] Siemens ADVIA/ADVIA Centaur
104.56 ± 1.82	66.59 ± 1.46	28.54 ± 1.28	52.65 ± 1.41	152.11 ± 2.95	n = 72	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Carbamazepine (mg/L)

Specimen: T36	Specimen: T37	Specimen: T38	Specimen: T39	Specimen: T40	Number	[Code] Instrument or Reagent System
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12.28 ± 0.87 12.9	11.20 ± 0.75 11.8	3.65 ± 0.34 4.0	6.28 ± 0.55 6.5	15.17 ± 1.10 15.9	n = 245	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
13.28 ± 0.49	12.23 ± 0.32	4.00 ± 0.09	6.60 ± 0.00	16.54 ± 0.82	n = 3	[ABH] Abbott Architect
12.09 ± 0.45	11.10 ± 0.33	3.74 ± 0.16	6.20 ± 0.24	15.09 ± 0.67	n = 19	[ABB] Abbott AxSym
12.28 ± 0.41	11.28 ± 0.32	3.78 ± 0.15	6.33 ± 0.14	15.03 ± 0.31	n = 3	[ABG] Abbott TDX FLX
12.51 ± 0.75	11.25 ± 0.38	3.77 ± 0.23	6.27 ± 0.35	15.07 ± 0.56	n = 12	[OLC] Beckman Coulter AU Chemistry System
12.29 ± 0.55	11.17 ± 0.43	3.60 ± 0.17	6.72 ± 0.21	15.42 ± 1.03	n = 4	[BCS] Beckman Coulter CX
12.24 ± 0.47	11.16 ± 0.62	3.55 ± 0.25	6.63 ± 0.35	15.16 ± 0.86	n = 11	[BCX] Beckman Coulter LX-20
12.52 ± 1.02	11.26 ± 0.83	3.67 ± 0.27	6.70 ± 0.37	15.11 ± 1.25	n = 8	[BCG] Beckman Coulter UniCel DxC 600
12.57 ± 0.71	11.23 ± 0.51	3.63 ± 0.23	6.64 ± 0.42	15.24 ± 0.80	n = 20	[BCH] Beckman Coulter UniCel DxC 800
9.55 ± 0.51	9.35 ± 0.56	3.00 ± 0.00	4.75 ± 0.29	12.32 ± 0.72	n = 20	[JJF] Ortho Vitros 5,1FS
13.15 ± 0.58	12.14 ± 0.66	4.49 ± 0.43	7.13 ± 0.57	16.13 ± 0.76	n = 9	[ROC] Roche cobas c501
11.93 ± 0.33	11.16 ± 0.38	3.60 ± 0.07	6.05 ± 0.17	14.84 ± 0.43	n = 19	[ROT] Roche Cobas INTEGRA
13.39 ± 0.32	12.16 ± 0.37	4.45 ± 0.31	7.09 ± 0.36	16.21 ± 0.38	n = 13	[ROD] Roche MODULAR D/P
11.91 ± 0.87	9.94 ± 1.15	3.35 ± 0.30	5.76 ± 0.32	15.08 ± 1.14	n = 4	[BYE] Siemens ADVIA 1800
12.40 ± 1.17	11.32 ± 0.89	3.79 ± 0.35	6.42 ± 0.58	15.60 ± 1.62	n = 18	[COB] Siemens ADVIA Centaur
12.34 ± 0.19	11.25 ± 0.31	3.61 ± 0.18	6.11 ± 0.21	15.10 ± 0.34	n = 5	[DUE] Siemens Dimension EXL
12.25 ± 0.50	11.22 ± 0.43	3.67 ± 0.17	6.21 ± 0.26	15.29 ± 0.52	n = 47	[DUR] Siemens Dimension RxL
12.32 ± 0.44	11.30 ± 0.35	3.68 ± 0.14	6.22 ± 0.28	15.28 ± 1.22	n = 12	[DUT] Siemens Dimension Vista
12.22 ± 0.34	11.25 ± 0.26	3.68 ± 0.13	6.26 ± 0.14	15.31 ± 0.41	n = 8	[DUX] Siemens Dimension Xpand
<Reagents>						
12.24 ± 0.58	11.21 ± 0.45	3.78 ± 0.18	6.27 ± 0.26	15.18 ± 0.74	n = 25	[AB1] Abbott
12.44 ± 0.73	11.22 ± 0.61	3.62 ± 0.25	6.66 ± 0.36	15.20 ± 0.94	n = 43	[BC1] Beckman Coulter
12.72 ± 1.20	11.26 ± 0.33	3.71 ± 0.24	6.17 ± 0.34	15.11 ± 0.42	n = 7	[OL1] Beckman Coulter AU Series
13.72 ± 0.20	12.45 ± 0.28	4.60 ± 0.24	7.35 ± 0.23	16.65 ± 0.60	n = 4	[MG1] Microgenics CEDIA
9.61 ± 0.53	9.42 ± 0.58	3.00 ± 0.00	4.81 ± 0.33	12.38 ± 0.68	n = 23	[JJ1] Ortho Clinical Diagnostics
13.15 ± 0.58	12.14 ± 0.66	4.49 ± 0.43	7.13 ± 0.57	16.13 ± 0.76	n = 9	[R04] Roche cobas c501
13.30 ± 0.21	12.05 ± 0.25	4.38 ± 0.25	6.94 ± 0.28	16.00 ± 0.00	n = 7	[R02] Roche Hitachi and Modular D/P
11.93 ± 0.33	11.16 ± 0.38	3.60 ± 0.07	6.05 ± 0.17	14.84 ± 0.43	n = 19	[R01] Roche Integra and MIRA
12.22 ± 1.07	11.02 ± 1.09	3.67 ± 0.37	6.24 ± 0.58	15.37 ± 1.48	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
12.26 ± 0.45	11.24 ± 0.39	3.67 ± 0.16	6.21 ± 0.25	15.29 ± 0.58	n = 71	[DA5] Siemens Dimension
12.34 ± 0.35	11.31 ± 0.44	3.78 ± 0.20	6.28 ± 0.20	14.95 ± 0.65	n = 4	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Digoxin (µg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
3.146 ± 0.219 3.2	2.016 ± 0.169 2.0	0.776 ± 0.120 0.8	1.603 ± 0.147 1.6	1.058 ± 0.126 1.1	n = 294	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
3.127 ± 0.115	2.004 ± 0.072	0.775 ± 0.023	1.639 ± 0.056	1.093 ± 0.025	n = 4	[ABH] Abbott Architect
3.082 ± 0.198	2.000 ± 0.154	0.755 ± 0.083	1.597 ± 0.109	1.020 ± 0.068	n = 15	[ABB] Abbott AxSym
3.036 ± 0.159	1.973 ± 0.101	0.902 ± 0.056	1.617 ± 0.098	1.136 ± 0.075	n = 12	[SAA] Beckman Coulter ACCESS
2.977 ± 0.196	1.882 ± 0.133	0.719 ± 0.102	1.481 ± 0.102	0.968 ± 0.097	n = 17	[OLC] Beckman Coulter AU Chemistry System
2.923 ± 0.155	1.800 ± 0.100	0.676 ± 0.080	1.336 ± 0.109	0.886 ± 0.127	n = 5	[BCX] Beckman Coulter CX
2.895 ± 0.204	1.747 ± 0.147	0.645 ± 0.137	1.348 ± 0.149	0.849 ± 0.115	n = 10	[BCX] Beckman Coulter LX-20
2.916 ± 0.120	1.733 ± 0.151	0.621 ± 0.057	1.371 ± 0.113	0.879 ± 0.092	n = 11	[BCG] Beckman Coulter UniCel DxC 600
2.909 ± 0.140	1.821 ± 0.141	0.649 ± 0.110	1.449 ± 0.133	0.938 ± 0.151	n = 17	[BCH] Beckman Coulter UniCel DxC 800
2.986 ± 0.185	1.887 ± 0.070	0.830 ± 0.076	1.531 ± 0.085	1.108 ± 0.098	n = 4	[BCU] Beckman Coulter UniCel DxI 800
3.128 ± 0.089	2.036 ± 0.078	0.764 ± 0.166	1.528 ± 0.089	0.992 ± 0.138	n = 5	[JJE] Ortho Vitros 250/350/950
3.073 ± 0.158	1.975 ± 0.159	0.659 ± 0.166	1.446 ± 0.146	0.902 ± 0.187	n = 26	[JJF] Ortho Vitros 5,1FS
3.291 ± 0.015	2.053 ± 0.089	0.841 ± 0.066	1.634 ± 0.078	1.100 ± 0.000	n = 13	[ROC] Roche cobas c501
3.187 ± 0.145	1.999 ± 0.099	0.810 ± 0.067	1.632 ± 0.083	1.071 ± 0.065	n = 13	[ROT] Roche Cobas INTEGRA
3.233 ± 0.181	2.065 ± 0.157	0.908 ± 0.079	1.699 ± 0.085	1.178 ± 0.093	n = 13	[ROD] Roche MODULAR D/P
3.015 ± 0.041	2.085 ± 0.041	0.815 ± 0.041	1.685 ± 0.041	1.150 ± 0.057	n = 4	[BYE] Siemens ADVIA 1800
3.122 ± 0.171	2.050 ± 0.120	0.774 ± 0.074	1.655 ± 0.076	1.087 ± 0.090	n = 23	[COB] Siemens ADVIA Centaur
3.208 ± 0.207	1.960 ± 0.046	0.687 ± 0.069	1.579 ± 0.057	1.040 ± 0.046	n = 3	[BYP] Siemens ADVIA Centaur CP
3.302 ± 0.103	2.091 ± 0.066	0.767 ± 0.078	1.630 ± 0.064	1.073 ± 0.079	n = 5	[DUE] Siemens Dimension EXL
3.268 ± 0.126	2.104 ± 0.092	0.803 ± 0.075	1.670 ± 0.080	1.097 ± 0.077	n = 48	[DUR] Siemens Dimension RxL
3.329 ± 0.125	2.186 ± 0.109	0.864 ± 0.083	1.759 ± 0.060	1.170 ± 0.071	n = 12	[DUT] Siemens Dimension Vista
3.193 ± 0.128	2.039 ± 0.104	0.781 ± 0.063	1.628 ± 0.087	1.065 ± 0.071	n = 16	[DUX] Siemens Dimension Xpand
3.516 ± 0.093	2.279 ± 0.110	0.905 ± 0.094	1.843 ± 0.145	1.217 ± 0.086	n = 8	[DPD] Siemens Immulite 2000
<Reagents>						
3.098 ± 0.183	2.002 ± 0.138	0.762 ± 0.072	1.610 ± 0.102	1.039 ± 0.069	n = 19	[AB1] Abbott
2.937 ± 0.164	1.829 ± 0.154	0.702 ± 0.152	1.446 ± 0.161	0.956 ± 0.167	n = 59	[BC1] Beckman Coulter
2.939 ± 0.197	1.905 ± 0.164	0.719 ± 0.115	1.471 ± 0.116	0.959 ± 0.120	n = 12	[OL1] Beckman Coulter AU Series
3.079 ± 0.145	1.977 ± 0.147	0.678 ± 0.174	1.472 ± 0.139	0.925 ± 0.170	n = 33	[JJ1] Ortho Clinical Diagnostics
3.291 ± 0.015	2.053 ± 0.089	0.841 ± 0.066	1.634 ± 0.078	1.100 ± 0.000	n = 13	[R04] Roche cobas c501
3.659 ± 0.208	2.235 ± 0.106	0.741 ± 0.078	1.698 ± 0.050	1.067 ± 0.059	n = 5	[R03] Roche Elecsys/Modular E/e601/e411
3.210 ± 0.183	2.062 ± 0.114	0.875 ± 0.083	1.698 ± 0.076	1.149 ± 0.088	n = 5	[R02] Roche Hitachi and Modular D/P
3.187 ± 0.145	1.999 ± 0.099	0.810 ± 0.067	1.632 ± 0.083	1.071 ± 0.065	n = 13	[R01] Roche Integra and MIRA
3.233 ± 0.191	2.060 ± 0.195	0.933 ± 0.074	1.705 ± 0.101	1.195 ± 0.101	n = 7	[R05] Roche Tina-quant
3.108 ± 0.152	2.049 ± 0.109	0.774 ± 0.082	1.657 ± 0.078	1.101 ± 0.094	n = 32	[BY1] Siemens ADVIA/ADVIA Centaur
3.265 ± 0.133	2.102 ± 0.105	0.804 ± 0.079	1.672 ± 0.090	1.100 ± 0.083	n = 81	[DA5] Siemens Dimension
3.528 ± 0.092	2.297 ± 0.114	0.891 ± 0.096	1.822 ± 0.147	1.211 ± 0.076	n = 9	[DP5] Siemens Immulite
3.113 ± 0.203	1.806 ± 0.010	0.772 ± 0.051	1.508 ± 0.015	0.994 ± 0.010	n = 3	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Ethanol (mg/dL)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
215.80 ± 8.71 220.2	111.06 ± 4.95 108.7	118.24 ± 4.99 123.3	109.15 ± 4.57 110.1	193.34 ± 7.96 198.4	n = 232	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
213.30 ± 3.04	111.91 ± 2.34	118.95 ± 2.37	109.85 ± 1.69	192.98 ± 2.33	n = 6	[ABH] Abbott Architect
223.30 ± 5.58	114.05 ± 0.80	125.65 ± 4.81	125.16 ± 33.06	186.04 ± 33.20	n = 4	[ABB] Abbott AxSym
217.26 ± 5.07	111.17 ± 2.93	118.55 ± 3.52	109.31 ± 3.43	193.86 ± 5.80	n = 8	[OLC] Beckman Coulter AU Chemistry System
218.97 ± 3.23	113.89 ± 6.36	120.19 ± 1.74	108.02 ± 6.46	193.09 ± 15.65	n = 5	[BCS] Beckman Coulter CX
221.29 ± 6.21	113.75 ± 4.75	119.37 ± 5.26	111.12 ± 5.41	194.07 ± 8.25	n = 14	[BCX] Beckman Coulter LX-20
213.68 ± 10.28	110.37 ± 7.96	115.48 ± 6.35	105.28 ± 7.34	187.73 ± 11.95	n = 11	[BCG] Beckman Coulter UniCel DxC 600
220.28 ± 6.82	114.06 ± 4.12	121.12 ± 4.77	111.42 ± 3.60	194.91 ± 10.39	n = 15	[BCH] Beckman Coulter UniCel DxC 800
209.08 ± 9.68	107.29 ± 4.16	115.65 ± 4.23	106.04 ± 4.43	189.16 ± 7.17	n = 13	[GCC] Gas Chromatograph
200.77 ± 4.65	100.50 ± 5.70	110.44 ± 1.64	103.92 ± 5.47	181.31 ± 13.67	n = 4	[JJE] Ortho Vitros 250/350/950
214.04 ± 8.13	106.02 ± 3.72	115.30 ± 3.92	106.95 ± 4.50	191.79 ± 8.73	n = 23	[JJF] Ortho Vitros 5,1FS
215.92 ± 3.18	112.06 ± 3.00	119.35 ± 3.25	110.68 ± 2.86	194.08 ± 3.61	n = 9	[ROC] Roche cobas c501
208.61 ± 8.28	108.77 ± 4.41	115.44 ± 4.87	107.81 ± 4.29	190.25 ± 5.64	n = 10	[ROT] Roche Cobas INTEGRA
213.36 ± 6.80	110.68 ± 3.04	117.56 ± 3.47	107.81 ± 2.95	192.21 ± 4.71	n = 15	[ROD] Roche MODULAR D/P
210.44 ± 1.02	109.84 ± 1.54	117.28 ± 0.51	108.28 ± 0.51	190.56 ± 1.02	n = 3	[BYA] Siemens ADVIA 1650
215.29 ± 7.51	112.92 ± 3.79	118.91 ± 3.94	109.90 ± 4.44	194.07 ± 6.01	n = 8	[BYE] Siemens ADVIA 1800
226.47 ± 12.63	115.29 ± 6.93	122.04 ± 7.27	114.04 ± 5.48	202.53 ± 11.73	n = 3	[BYB] Siemens ADVIA 2400
212.68 ± 8.19	108.88 ± 3.15	116.92 ± 0.53	107.44 ± 0.52	190.81 ± 3.44	n = 5	[DUE] Siemens Dimension EXL
217.80 ± 7.58	111.87 ± 2.99	119.80 ± 4.10	110.25 ± 3.87	194.83 ± 7.29	n = 46	[DUR] Siemens Dimension RxL
219.42 ± 9.04	114.41 ± 5.51	120.66 ± 4.75	110.78 ± 4.00	197.45 ± 7.45	n = 12	[DUT] Siemens Dimension Vista
216.19 ± 7.66	111.02 ± 3.60	118.67 ± 4.30	109.63 ± 3.56	192.82 ± 8.61	n = 11	[DUX] Siemens Dimension Xpand
<Reagents>						
216.66 ± 6.21	113.07 ± 1.82	120.90 ± 4.66	110.86 ± 2.17	194.46 ± 3.44	n = 10	[AB1] Abbott
219.04 ± 7.29	113.32 ± 5.44	119.06 ± 5.67	109.69 ± 5.94	193.03 ± 10.66	n = 45	[BC1] Beckman Coulter
217.20 ± 5.76	110.66 ± 3.27	118.02 ± 3.68	108.92 ± 3.66	193.22 ± 6.08	n = 7	[OL1] Beckman Coulter AU Series
208.91 ± 10.19	106.70 ± 3.91	115.03 ± 4.20	105.49 ± 4.49	188.62 ± 7.12	n = 11	[IH1] In-House
211.57 ± 9.16	105.29 ± 3.97	114.14 ± 4.03	106.15 ± 4.91	190.15 ± 9.76	n = 29	[JJ1] Ortho Clinical Diagnostics
215.92 ± 3.18	112.06 ± 3.00	119.35 ± 3.25	110.68 ± 2.86	194.08 ± 3.61	n = 9	[R04] Roche cobas c501
213.36 ± 6.80	110.68 ± 3.04	117.56 ± 3.47	107.81 ± 2.95	192.21 ± 4.71	n = 15	[R02] Roche Hitachi and Modular D/P
208.61 ± 8.28	108.77 ± 4.41	115.44 ± 4.87	107.81 ± 4.29	190.25 ± 5.64	n = 10	[R01] Roche Integra and MIRA
215.69 ± 8.20	112.93 ± 3.84	118.49 ± 4.60	110.24 ± 4.44	194.24 ± 7.36	n = 12	[BY1] Siemens ADVIA/ADVIA Centaur
217.42 ± 8.08	111.80 ± 3.77	119.42 ± 4.38	109.94 ± 3.92	194.58 ± 7.55	n = 74	[DA5] Siemens Dimension
217.52 ± 3.63	113.78 ± 4.11	120.48 ± 3.63	111.52 ± 2.74	198.96 ± 3.58	n = 3	[SY2] Syva Emit

Summary of Participant Performance (Mean and Standard Deviation)

Ethosuximide (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
154.17 ± 8.24 148.7	184.74 ± 9.79 176.6	44.47 ± 2.73 41.7	76.40 ± 3.84 74.4	98.53 ± 4.03 95.1	n = 6	[---] All Methods & Instruments [---] Weigh-in Value
154.15 ± 5.72	184.43 ± 7.44	44.16 ± 1.54	75.00 ± 2.70	98.00 ± 2.70	n = 3	<Instruments> [OLC] Beckman Coulter AU Chemistry System
155.34 ± 8.78	187.58 ± 8.23	45.14 ± 2.79	77.39 ± 3.43	99.48 ± 3.83	n = 5	<Reagents> [SY2] Syva Emit

Summary of Participant Performance (Mean and Standard Deviation)

Gentamicin (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
13.34 ± 1.30 13.3	1.77 ± 0.18 1.7	8.15 ± 0.61 8.1	6.75 ± 0.47 6.6	3.85 ± 0.31 3.9	n = 190	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
12.97 ± 0.14	1.80 ± 0.00	7.85 ± 0.45	6.45 ± 0.19	3.70 ± 0.09	n = 3	[ABH] Abbott Architect
12.19 ± 0.63	1.53 ± 0.07	7.33 ± 0.46	6.08 ± 0.21	3.46 ± 0.14	n = 10	[ABB] Abbott AxSym
12.09 ± 0.29	1.66 ± 0.10	7.42 ± 0.24	6.35 ± 0.27	3.55 ± 0.19	n = 3	[ABG] Abbott TDX FLX
13.18 ± 1.21	1.84 ± 0.09	8.13 ± 0.47	6.75 ± 0.43	3.87 ± 0.31	n = 7	[OLC] Beckman Coulter AU Chemistry System
13.80 ± 0.85	1.91 ± 0.13	8.71 ± 0.28	7.11 ± 0.23	3.83 ± 0.11	n = 12	[BCX] Beckman Coulter LX-20
13.96 ± 0.27	1.97 ± 0.23	8.55 ± 0.24	6.97 ± 0.17	3.82 ± 0.10	n = 9	[BCG] Beckman Coulter UniCel DxC 600
13.92 ± 1.32	1.97 ± 0.18	8.64 ± 0.39	7.15 ± 0.30	3.82 ± 0.17	n = 18	[BCH] Beckman Coulter UniCel DxC 800
14.70 ± 0.84	1.89 ± 0.08	8.22 ± 0.41	6.97 ± 0.31	4.26 ± 0.16	n = 15	[JJF] Ortho Vitros 5,1FS
12.32 ± 0.73	1.60 ± 0.00	7.47 ± 0.41	6.15 ± 0.19	3.63 ± 0.15	n = 17	[ROT] Roche Cobas INTEGRA
12.78 ± 1.15	1.75 ± 0.15	7.86 ± 0.32	6.65 ± 0.29	3.72 ± 0.19	n = 9	[ROD] Roche MODULAR D/P
12.86 ± 0.91	1.76 ± 0.26	7.89 ± 0.44	6.77 ± 0.34	3.75 ± 0.19	n = 3	[BYE] Siemens ADVIA 1800
15.16 ± 1.43	1.75 ± 0.14	9.03 ± 0.58	7.27 ± 0.44	4.38 ± 0.22	n = 21	[COB] Siemens ADVIA Centaur
13.20 ± 0.49	1.78 ± 0.10	8.03 ± 0.25	6.66 ± 0.20	3.83 ± 0.14	n = 37	[DUR] Siemens Dimension RxL
12.13 ± 0.58	1.59 ± 0.10	7.78 ± 0.16	6.47 ± 0.25	3.57 ± 0.14	n = 12	[DUT] Siemens Dimension Vista
13.12 ± 0.46	1.76 ± 0.17	7.98 ± 0.28	6.58 ± 0.17	3.85 ± 0.18	n = 5	[DUX] Siemens Dimension Xpand
<Reagents>						
12.33 ± 0.63	1.60 ± 0.13	7.44 ± 0.46	6.19 ± 0.27	3.53 ± 0.17	n = 16	[AB1] Abbott
13.88 ± 1.06	1.96 ± 0.18	8.65 ± 0.36	7.11 ± 0.28	3.83 ± 0.14	n = 41	[BC1] Beckman Coulter
13.25 ± 0.97	1.84 ± 0.06	8.15 ± 0.28	6.77 ± 0.25	3.87 ± 0.23	n = 5	[OL1] Beckman Coulter AU Series
13.22 ± 0.85	1.82 ± 0.15	7.99 ± 0.27	6.71 ± 0.23	3.72 ± 0.20	n = 4	[MG1] Microgenics CEDIA
14.74 ± 0.80	1.90 ± 0.08	8.23 ± 0.39	7.00 ± 0.30	4.27 ± 0.16	n = 16	[JJ1] Ortho Clinical Diagnostics
12.32 ± 0.73	1.60 ± 0.00	7.47 ± 0.41	6.15 ± 0.19	3.63 ± 0.15	n = 17	[R01] Roche Integra and MIRA
14.73 ± 1.68	1.75 ± 0.15	8.88 ± 0.67	7.18 ± 0.47	4.32 ± 0.29	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
13.05 ± 0.64	1.74 ± 0.14	7.97 ± 0.26	6.62 ± 0.21	3.79 ± 0.18	n = 56	[DA5] Siemens Dimension
12.53 ± 1.67	1.86 ± 0.11	8.01 ± 0.66	6.65 ± 0.56	4.10 ± 0.28	n = 5	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Lithium (mmol/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
2.039 ± 0.099 2.2	2.158 ± 0.112 2.3	0.281 ± 0.053 0.3	1.022 ± 0.066 1.1	1.151 ± 0.076 1.3	n = 202	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
2.012 ± 0.021	2.138 ± 0.044	0.286 ± 0.011	1.035 ± 0.022	1.157 ± 0.014	n = 5	[ABH] Abbott Architect
1.972 ± 0.103	2.275 ± 0.190	0.300 ± 0.045	1.053 ± 0.059	1.205 ± 0.045	n = 3	[AAS] Atomic Absorption Spectrometer
1.980 ± 0.048	2.104 ± 0.018	0.273 ± 0.033	1.000 ± 0.000	1.109 ± 0.016	n = 13	[OLC] Beckman Coulter AU Chemistry System
1.988 ± 0.059	2.088 ± 0.052	0.210 ± 0.043	0.964 ± 0.056	1.107 ± 0.020	n = 8	[BCX] Beckman Coulter LX-20
2.040 ± 0.097	2.172 ± 0.183	0.251 ± 0.090	1.004 ± 0.019	1.124 ± 0.029	n = 5	[BCG] Beckman Coulter UniCel DxC 600
1.945 ± 0.071	2.103 ± 0.074	0.223 ± 0.042	0.953 ± 0.036	1.086 ± 0.034	n = 13	[BCH] Beckman Coulter UniCel Dx C 800
2.268 ± 0.049	2.314 ± 0.026	0.355 ± 0.045	1.097 ± 0.005	1.222 ± 0.041	n = 3	[NOS] NOVA 13
2.099 ± 0.117	2.224 ± 0.105	0.300 ± 0.000	1.029 ± 0.069	1.192 ± 0.071	n = 7	[JJE] Ortho Vitros 250/350/950
2.182 ± 0.089	2.315 ± 0.090	0.327 ± 0.054	1.110 ± 0.061	1.277 ± 0.061	n = 22	[JJF] Ortho Vitros 5,1FS
2.073 ± 0.100	2.194 ± 0.116	0.317 ± 0.048	1.026 ± 0.034	1.198 ± 0.052	n = 8	[ROY] Roche 9180/9181
1.995 ± 0.076	2.082 ± 0.085	0.256 ± 0.053	1.018 ± 0.060	1.100 ± 0.000	n = 8	[ROC] Roche cobas c501
2.007 ± 0.021	2.174 ± 0.056	0.287 ± 0.034	1.002 ± 0.010	1.134 ± 0.040	n = 13	[ROT] Roche Cobas INTEGRA
2.004 ± 0.126	2.084 ± 0.101	0.313 ± 0.036	1.027 ± 0.056	1.175 ± 0.083	n = 8	[ROD] Roche MODULAR D/P
2.037 ± 0.114	2.151 ± 0.134	0.275 ± 0.041	1.023 ± 0.048	1.214 ± 0.180	n = 5	[BYA] Siemens ADVIA 1650
2.096 ± 0.050	2.219 ± 0.047	0.302 ± 0.005	1.091 ± 0.046	1.228 ± 0.062	n = 8	[BYE] Siemens ADVIA 1800
2.026 ± 0.063	2.110 ± 0.071	0.263 ± 0.043	0.995 ± 0.056	1.115 ± 0.051	n = 39	[DUR] Siemens Dimension RxL
2.099 ± 0.048	2.208 ± 0.021	0.287 ± 0.049	1.061 ± 0.047	1.189 ± 0.045	n = 12	[DUT] Siemens Dimension Vista
1.963 ± 0.043	2.057 ± 0.038	0.267 ± 0.042	0.967 ± 0.041	1.101 ± 0.011	n = 4	[DUX] Siemens Dimension Xpand
<Reagents>						
2.020 ± 0.009	2.153 ± 0.032	0.293 ± 0.005	1.047 ± 0.014	1.163 ± 0.014	n = 3	[AB1] Abbott
2.080 ± 0.098	2.227 ± 0.127	0.325 ± 0.058	1.036 ± 0.049	1.198 ± 0.055	n = 10	[AV1] AVL Scientific
1.973 ± 0.082	2.106 ± 0.087	0.223 ± 0.048	0.967 ± 0.051	1.100 ± 0.034	n = 18	[BC1] Beckman Coulter
1.989 ± 0.063	2.100 ± 0.000	0.283 ± 0.027	1.000 ± 0.000	1.117 ± 0.031	n = 12	[OL1] Beckman Coulter AU Series
1.945 ± 0.066	2.167 ± 0.171	0.287 ± 0.037	1.029 ± 0.052	1.168 ± 0.055	n = 5	[IH1] In-House
2.268 ± 0.049	2.314 ± 0.026	0.355 ± 0.045	1.097 ± 0.005	1.222 ± 0.041	n = 3	[N01] NOVA Biomedical
2.159 ± 0.101	2.293 ± 0.102	0.317 ± 0.050	1.090 ± 0.074	1.260 ± 0.074	n = 32	[JJ1] Ortho Clinical Diagnostics
1.995 ± 0.076	2.082 ± 0.085	0.256 ± 0.053	1.018 ± 0.060	1.100 ± 0.000	n = 8	[R04] Roche cobas c501
2.007 ± 0.021	2.174 ± 0.056	0.287 ± 0.034	1.002 ± 0.010	1.134 ± 0.040	n = 13	[R01] Roche Integra and MIRA
2.112 ± 0.053	2.236 ± 0.066	0.289 ± 0.049	1.075 ± 0.046	1.223 ± 0.070	n = 12	[BY1] Siemens ADVIA/ADVIA Centaur
2.036 ± 0.069	2.127 ± 0.078	0.268 ± 0.044	1.005 ± 0.061	1.127 ± 0.058	n = 56	[DA5] Siemens Dimension
1.973 ± 0.050	2.095 ± 0.063	0.275 ± 0.078	0.992 ± 0.033	1.110 ± 0.028	n = 21	[TA1] Thermo Electron Corp

Summary of Participant Performance (Mean and Standard Deviation)

Phenobarbital (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
56.74 ± 3.61 58.4	13.36 ± 0.96 13.6	31.36 ± 1.82 31.6	28.52 ± 1.61 29.2	17.83 ± 1.22 18.3	n = 246	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
61.63 ± 1.22	13.90 ± 0.46	31.57 ± 1.92	29.49 ± 2.10	18.75 ± 1.17	n = 3	[ABH] Abbott Architect
53.00 ± 2.99	12.85 ± 0.61	29.02 ± 1.44	26.73 ± 1.40	17.03 ± 1.04	n = 17	[ABB] Abbott AxSym
55.39 ± 1.04	13.52 ± 0.34	30.17 ± 0.67	27.55 ± 0.64	17.99 ± 0.58	n = 5	[ABG] Abbott TDX FLX
58.38 ± 2.54	12.79 ± 0.61	31.00 ± 2.06	28.54 ± 1.37	17.23 ± 0.93	n = 13	[OLC] Beckman Coulter AU Chemistry System
53.34 ± 3.47	13.89 ± 0.98	31.92 ± 1.59	28.09 ± 1.55	18.24 ± 1.24	n = 5	[BCS] Beckman Coulter CX
55.56 ± 2.59	13.71 ± 0.63	31.71 ± 1.19	28.60 ± 0.91	18.11 ± 1.01	n = 12	[BCX] Beckman Coulter LX-20
55.33 ± 2.45	14.26 ± 0.74	32.92 ± 1.39	29.06 ± 1.28	18.82 ± 0.97	n = 10	[BCG] Beckman Coulter UniCel Dx C 600
53.32 ± 3.04	14.06 ± 0.70	31.32 ± 1.70	28.24 ± 1.44	18.04 ± 1.06	n = 19	[BCH] Beckman Coulter UniCel Dx C 800
58.64 ± 3.20	13.05 ± 0.66	30.83 ± 0.71	27.70 ± 1.08	17.07 ± 0.88	n = 24	[JJF] Ortho Vitros 5,1FS
56.86 ± 2.42	12.96 ± 0.73	31.42 ± 1.06	28.97 ± 1.01	17.71 ± 1.03	n = 12	[ROC] Roche cobas c501
54.23 ± 1.35	12.74 ± 0.41	29.88 ± 0.74	27.59 ± 0.69	17.08 ± 0.39	n = 18	[ROT] Roche Cobas INTEGRA
55.05 ± 1.79	12.54 ± 0.46	30.93 ± 0.88	28.46 ± 0.86	17.18 ± 0.26	n = 15	[ROD] Roche MODULAR D/P
54.59 ± 5.23	12.62 ± 1.58	30.49 ± 2.90	28.00 ± 2.88	17.31 ± 2.04	n = 3	[BYE] Siemens ADVIA 1800
60.38 ± 4.53	14.40 ± 1.16	33.69 ± 2.95	30.78 ± 2.97	19.62 ± 1.16	n = 16	[COB] Siemens ADVIA Centaur
58.66 ± 2.62	13.43 ± 0.93	32.03 ± 1.73	29.28 ± 1.41	18.04 ± 1.12	n = 43	[DUR] Siemens Dimension RxL
57.75 ± 1.99	14.04 ± 1.23	32.35 ± 1.33	29.39 ± 0.77	18.32 ± 1.22	n = 12	[DUT] Siemens Dimension Vista
59.40 ± 2.73	14.18 ± 0.90	32.88 ± 1.23	30.22 ± 0.90	19.13 ± 0.73	n = 7	[DUX] Siemens Dimension Xpand
<Reagents>						
54.95 ± 4.51	13.17 ± 0.72	29.59 ± 1.59	27.25 ± 1.69	17.51 ± 1.21	n = 25	[AB1] Abbott
54.27 ± 3.03	14.00 ± 0.79	31.88 ± 1.68	28.49 ± 1.33	18.22 ± 1.12	n = 46	[BC1] Beckman Coulter
57.48 ± 2.69	12.65 ± 0.59	30.68 ± 2.28	28.56 ± 1.84	17.14 ± 1.08	n = 8	[OL1] Beckman Coulter AU Series
58.68 ± 1.55	12.99 ± 0.38	31.99 ± 1.21	28.75 ± 0.22	17.23 ± 0.42	n = 4	[MG1] Microgenics CEDIA
58.51 ± 3.08	13.10 ± 0.78	30.92 ± 0.96	27.65 ± 1.13	17.09 ± 0.94	n = 27	[JJ1] Ortho Clinical Diagnostics
56.86 ± 2.42	12.96 ± 0.73	31.42 ± 1.06	28.97 ± 1.01	17.71 ± 1.03	n = 12	[R04] Roche cobas c501
54.76 ± 0.71	12.45 ± 0.27	30.10 ± 0.73	28.17 ± 0.51	17.24 ± 0.10	n = 3	[R02] Roche Hitachi and Modular D/P
54.23 ± 1.35	12.74 ± 0.41	29.88 ± 0.74	27.59 ± 0.69	17.08 ± 0.39	n = 18	[R01] Roche Integra and MIRA
54.74 ± 1.79	12.56 ± 0.59	31.05 ± 0.85	28.53 ± 1.06	17.48 ± 0.70	n = 10	[R06] Roche ONLINE
58.91 ± 4.92	13.98 ± 1.32	32.81 ± 3.03	30.10 ± 3.00	19.22 ± 1.43	n = 22	[BY1] Siemens ADVIA/ADVIA Centaur
58.53 ± 2.57	13.65 ± 1.02	32.22 ± 1.59	29.46 ± 1.32	18.24 ± 1.13	n = 64	[DA5] Siemens Dimension
59.16 ± 2.26	12.77 ± 0.59	30.69 ± 0.66	28.33 ± 1.13	17.31 ± 0.74	n = 3	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Phenytoin (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
19.96 ± 1.93 19.9	18.86 ± 1.46 19.0	28.53 ± 2.70 29.0	9.97 ± 0.90 10.5	25.17 ± 2.18 26.0	n = 281	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
20.78 ± 1.52	19.89 ± 1.08	30.23 ± 1.22	10.39 ± 0.52	26.69 ± 1.08	n = 3	[ABH] Abbott Architect
19.79 ± 0.65	18.67 ± 0.60	28.16 ± 1.16	10.16 ± 0.21	24.86 ± 0.75	n = 19	[ABB] Abbott AxSym
19.24 ± 1.19	18.02 ± 0.28	26.52 ± 0.64	9.97 ± 0.16	23.56 ± 0.27	n = 5	[ABG] Abbott TDX FLX
19.89 ± 1.12	18.81 ± 0.96	28.07 ± 1.30	9.99 ± 0.30	24.79 ± 1.09	n = 18	[OLC] Beckman Coulter AU Chemistry System
19.59 ± 0.41	18.38 ± 0.52	28.24 ± 1.14	10.01 ± 0.34	24.78 ± 1.06	n = 5	[BCX] Beckman Coulter CX
18.99 ± 1.00	18.32 ± 0.89	27.60 ± 1.89	9.59 ± 0.40	24.75 ± 1.42	n = 13	[BCX] Beckman Coulter LX-20
19.21 ± 0.66	18.43 ± 0.73	27.79 ± 0.97	9.63 ± 0.35	24.34 ± 1.10	n = 11	[BCG] Beckman Coulter UniCel DxC 600
19.00 ± 0.57	18.10 ± 0.59	27.63 ± 1.60	9.62 ± 0.28	24.32 ± 0.94	n = 20	[BCH] Beckman Coulter UniCel DxC 800
16.23 ± 0.14	17.13 ± 0.14	24.14 ± 2.03	8.37 ± 0.14	21.69 ± 1.20	n = 3	[JJE] Ortho Vitros 250/350/950
15.97 ± 0.60	16.94 ± 0.67	23.85 ± 1.18	8.43 ± 0.30	21.88 ± 0.85	n = 26	[JJF] Ortho Vitros 5,1FS
18.99 ± 0.73	18.10 ± 0.81	26.93 ± 0.88	9.42 ± 0.57	24.16 ± 0.66	n = 13	[ROC] Roche cobas c501
19.47 ± 0.62	18.22 ± 0.54	27.92 ± 1.03	9.77 ± 0.38	24.74 ± 1.01	n = 19	[ROT] Roche Cobas INTEGRA
20.17 ± 0.77	19.11 ± 0.87	28.96 ± 1.34	9.95 ± 0.41	25.36 ± 1.28	n = 16	[ROD] Roche MODULAR D/P
19.69 ± 0.84	18.11 ± 0.48	28.69 ± 0.69	9.24 ± 0.91	25.77 ± 0.59	n = 4	[BYE] Siemens ADVIA 1800
23.65 ± 0.70	22.71 ± 1.08	35.14 ± 1.82	12.09 ± 0.70	31.77 ± 1.15	n = 16	[COB] Siemens ADVIA Centaur
22.14 ± 0.34	20.60 ± 0.49	31.50 ± 1.01	10.63 ± 0.26	27.85 ± 0.27	n = 5	[DUE] Siemens Dimension EXL
21.42 ± 1.06	20.07 ± 1.10	30.42 ± 1.58	10.53 ± 0.65	26.97 ± 1.45	n = 46	[DUR] Siemens Dimension RxL
20.92 ± 0.76	19.53 ± 0.95	29.28 ± 1.38	10.71 ± 0.55	25.98 ± 0.93	n = 12	[DUT] Siemens Dimension Vista
20.81 ± 0.68	19.42 ± 0.70	30.04 ± 1.16	10.32 ± 0.38	26.23 ± 0.83	n = 13	[DUX] Siemens Dimension Xpand
<Reagents>						
19.77 ± 0.84	18.75 ± 0.75	28.32 ± 1.43	10.12 ± 0.29	24.89 ± 1.12	n = 28	[AB1] Abbott
19.14 ± 0.70	18.27 ± 0.71	27.67 ± 1.46	9.66 ± 0.36	24.48 ± 1.12	n = 49	[BC1] Beckman Coulter
19.39 ± 0.89	18.45 ± 0.75	28.07 ± 1.54	9.96 ± 0.29	24.42 ± 0.90	n = 10	[OL1] Beckman Coulter AU Series
20.79 ± 0.81	19.96 ± 0.80	28.90 ± 0.72	10.67 ± 0.84	25.96 ± 0.64	n = 5	[MG1] Microgenics CEDIA
16.07 ± 0.64	17.02 ± 0.64	23.93 ± 1.32	8.45 ± 0.30	21.83 ± 0.87	n = 31	[JJ1] Ortho Clinical Diagnostics
18.95 ± 0.69	18.12 ± 0.76	27.04 ± 0.99	9.43 ± 0.53	24.11 ± 0.65	n = 14	[R04] Roche cobas c501
20.15 ± 0.46	18.99 ± 0.73	28.99 ± 1.47	9.65 ± 0.23	25.62 ± 0.74	n = 4	[R02] Roche Hitachi and Modular D/P
19.47 ± 0.62	18.22 ± 0.54	27.92 ± 1.03	9.77 ± 0.38	24.74 ± 1.01	n = 19	[R01] Roche Integra and MIRA
20.14 ± 0.77	18.98 ± 0.87	28.75 ± 1.37	10.05 ± 0.41	24.95 ± 1.51	n = 10	[R06] Roche ONLINE
22.72 ± 2.01	21.68 ± 2.33	33.23 ± 3.69	11.43 ± 1.38	30.18 ± 3.36	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
21.28 ± 1.00	19.89 ± 1.03	30.22 ± 1.55	10.52 ± 0.59	26.74 ± 1.34	n = 75	[DA5] Siemens Dimension
20.20 ± 1.28	19.44 ± 1.47	28.17 ± 2.39	9.67 ± 0.50	24.36 ± 1.11	n = 3	[DP5] Siemens Immulite
20.86 ± 2.45	19.66 ± 2.08	29.15 ± 3.89	10.29 ± 1.28	25.96 ± 3.69	n = 7	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Free Phenytoin (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
3.44 ± 0.60	3.96 ± 0.68	5.01 ± 0.97	1.66 ± 0.36	4.89 ± 0.88	n = 31	[---] All Methods & Instruments
						<Instruments>
3.41 ± 0.35	3.97 ± 0.36	5.02 ± 0.65	1.65 ± 0.29	4.85 ± 0.45	n = 13	[ABG] Abbott TDX FLX
3.77 ± 0.41	4.20 ± 0.36	5.34 ± 0.39	1.95 ± 0.27	5.15 ± 0.45	n = 3	[OLC] Beckman Coulter AU Chemistry System
3.56 ± 0.49	4.07 ± 0.53	5.26 ± 0.77	1.75 ± 0.19	5.01 ± 0.56	n = 6	[ROT] Roche Cobas INTEGRA
						<Reagents>
3.42 ± 0.33	3.96 ± 0.27	4.99 ± 0.54	1.66 ± 0.24	4.88 ± 0.42	n = 16	[AB1] Abbott
1.95 ± 0.12	2.10 ± 0.08	2.98 ± 0.13	0.98 ± 0.04	2.52 ± 0.04	n = 4	[BC1] Beckman Coulter
3.56 ± 0.49	4.07 ± 0.53	5.26 ± 0.77	1.75 ± 0.19	5.01 ± 0.56	n = 6	[R01] Roche Integra and MIRA
3.79 ± 0.34	4.44 ± 0.64	5.67 ± 0.91	1.90 ± 0.24	5.51 ± 0.93	n = 4	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Primidone (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
17.07 ± 0.51 17.2	5.07 ± 0.26 4.8	12.98 ± 0.47 13.4	8.88 ± 0.39 8.6	7.93 ± 0.34 7.9	n = 17	[---] All Methods & Instruments [---] Weigh-in Value
17.21 ± 0.39 16.87 ± 0.53	5.18 ± 0.25 4.93 ± 0.11	13.02 ± 0.57 12.94 ± 0.34	9.01 ± 0.40 8.71 ± 0.25	8.11 ± 0.33 7.70 ± 0.19	n = 8 n = 6	<Instruments> [OLC] Beckman Coulter AU Chemistry System [ROT] Roche Cobas INTEGRA
16.87 ± 0.53 17.18 ± 0.49	4.93 ± 0.11 5.12 ± 0.28	12.94 ± 0.34 13.16 ± 0.79	8.71 ± 0.25 8.94 ± 0.43	7.70 ± 0.19 8.05 ± 0.31	n = 6 n = 9	<Reagents> [R01] Roche Integra and MIRA [SY2] Syva Emit

Summary of Participant Performance (Mean and Standard Deviation)

Procainamide (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
11.93 ± 0.76 12.1	3.63 ± 0.18 3.6	14.03 ± 0.81 14.5	5.99 ± 0.26 6.1	3.92 ± 0.22 4.0	n = 22	[---] All Methods & Instruments [---] Weigh-in Value
11.19 ± 0.65 11.91 ± 0.33	3.46 ± 0.20 3.55 ± 0.07	13.58 ± 0.35 13.94 ± 0.41	5.57 ± 0.28 6.05 ± 0.15	3.80 ± 0.21 3.82 ± 0.08	n = 5 n = 7	<Instruments> [ABB] Abbott AxSym [ROT] Roche Cobas INTEGRA
11.35 ± 0.68 11.91 ± 0.33 12.09 ± 0.40	3.54 ± 0.28 3.55 ± 0.07 3.70 ± 0.08	13.63 ± 0.34 13.94 ± 0.41 14.82 ± 0.73	5.64 ± 0.35 6.05 ± 0.15 6.13 ± 0.16	3.87 ± 0.25 3.82 ± 0.08 4.09 ± 0.11	n = 6 n = 7 n = 4	<Reagents> [AB1] Abbott [R01] Roche Integra and MIRA [SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

N-Acetyl-Procaïnamide (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
16.22 ± 1.20 16.0	5.35 ± 0.41 5.1	12.81 ± 0.93 12.8	8.31 ± 0.48 8.0	4.81 ± 0.83 4.3	n = 22	[---] All Methods & Instruments [---] Weigh-in Value
17.47 ± 0.70 15.04 ± 0.22	6.01 ± 0.65 5.25 ± 0.07	13.37 ± 0.51 12.03 ± 0.23	8.88 ± 0.71 8.06 ± 0.16	6.65 ± 0.23 4.69 ± 0.10	n = 5 n = 7	<Instruments> [ABB] Abbott AxSym [ROT] Roche Cobas INTEGRA
17.70 ± 0.31 15.04 ± 0.22 16.08 ± 1.18	6.12 ± 0.62 5.25 ± 0.07 5.08 ± 0.27	13.45 ± 0.47 12.03 ± 0.23 13.26 ± 1.47	8.97 ± 0.67 8.06 ± 0.16 8.33 ± 0.61	6.64 ± 0.20 4.69 ± 0.10 4.44 ± 0.26	n = 6 n = 7 n = 4	<Reagents> [AB1] Abbott [R01] Roche Integra and MIRA [SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Quinidine (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
5.67 ± 0.34 5.9	1.31 ± 0.10 1.5	5.22 ± 0.28 5.5	2.85 ± 0.21 3.1	6.57 ± 0.62 7.0	n = 20	[---] All Methods & Instruments [---] Weigh-in Value
5.86 ± 0.22 5.60 ± 0.06	1.40 ± 0.09 1.30 ± 0.00	5.28 ± 0.17 5.15 ± 0.12	2.95 ± 0.12 2.74 ± 0.08	7.07 ± 0.42 6.29 ± 0.17	n = 6 n = 6	<Instruments> [ABB] Abbott AxSym [ROT] Roche Cobas INTEGRA
5.97 ± 0.32 5.60 ± 0.06	1.40 ± 0.10 1.30 ± 0.00	5.39 ± 0.30 5.15 ± 0.12	3.00 ± 0.13 2.74 ± 0.08	7.16 ± 0.45 6.29 ± 0.17	n = 8 n = 6	<Reagents> [AB1] Abbott [R01] Roche Integra and MIRA

Summary of Participant Performance (Mean and Standard Deviation)

Salicylate (mg/dL)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
66.48 ± 2.06 64.7	17.84 ± 1.18 17.1	52.52 ± 1.60 51.4	33.34 ± 1.31 32.3	29.83 ± 1.46 29.1	n = 218	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
66.35 ± 0.80	16.07 ± 0.79	51.97 ± 0.42	32.15 ± 0.23	28.78 ± 0.20	n = 4	[ABH] Abbott Architect
64.09 ± 3.23	16.06 ± 1.20	50.22 ± 2.21	32.35 ± 1.29	28.84 ± 1.54	n = 10	[ABB] Abbott AxSym
74.72 ± 3.69	18.82 ± 0.99	57.83 ± 3.26	36.39 ± 1.76	32.73 ± 2.04	n = 9	[OLC] Beckman Coulter AU Chemistry System
67.67 ± 1.56	16.79 ± 0.57	52.97 ± 1.39	32.53 ± 0.77	28.90 ± 0.92	n = 3	[BCS] Beckman Coulter CX
67.36 ± 1.83	17.08 ± 0.79	52.49 ± 1.70	31.80 ± 0.88	28.43 ± 0.89	n = 13	[BCX] Beckman Coulter LX-20
66.67 ± 1.22	16.91 ± 0.45	52.03 ± 1.15	31.96 ± 1.22	28.37 ± 0.71	n = 9	[BCG] Beckman Coulter UniCel DxC 600
67.18 ± 0.91	16.54 ± 0.55	52.06 ± 0.82	32.06 ± 0.64	28.28 ± 0.63	n = 17	[BCH] Beckman Coulter UniCel DxC 800
66.07 ± 2.48	19.55 ± 0.52	52.23 ± 0.83	33.34 ± 0.45	30.21 ± 0.81	n = 4	[JJE] Ortho Vitros 250/350/950
64.51 ± 1.92	19.18 ± 0.56	51.32 ± 1.74	33.59 ± 1.09	30.23 ± 1.39	n = 25	[JJF] Ortho Vitros 5,1FS
70.12 ± 1.45	16.66 ± 0.54	54.85 ± 1.22	33.56 ± 0.96	29.44 ± 0.81	n = 7	[ROC] Roche cobas c501
63.51 ± 1.10	16.68 ± 0.41	50.24 ± 0.99	31.99 ± 0.54	28.13 ± 0.38	n = 12	[ROT] Roche Cobas INTEGRA
66.39 ± 1.59	17.77 ± 0.62	52.63 ± 1.29	33.93 ± 1.06	30.35 ± 0.96	n = 11	[ROD] Roche MODULAR D/P
67.94 ± 2.02	17.99 ± 0.83	54.05 ± 1.92	33.27 ± 1.01	30.24 ± 1.16	n = 7	[BYE] Siemens ADVIA 1800
68.90 ± 1.26	17.90 ± 0.09	54.21 ± 0.57	34.00 ± 0.18	30.56 ± 0.56	n = 3	[BYB] Siemens ADVIA 2400
66.65 ± 1.20	18.18 ± 0.32	52.80 ± 0.75	33.81 ± 0.51	30.58 ± 0.48	n = 5	[DUE] Siemens Dimension EXL
66.76 ± 0.67	18.35 ± 0.33	53.01 ± 0.48	34.00 ± 0.34	30.65 ± 0.36	n = 46	[DUR] Siemens Dimension RxL
66.70 ± 1.15	18.11 ± 0.35	53.34 ± 0.56	34.07 ± 0.43	30.51 ± 0.45	n = 12	[DUT] Siemens Dimension Vista
66.70 ± 0.89	18.36 ± 0.24	53.11 ± 0.65	34.03 ± 0.46	30.62 ± 0.34	n = 9	[DUX] Siemens Dimension Xpand
<Reagents>						
64.42 ± 3.01	16.10 ± 1.04	50.53 ± 2.12	32.20 ± 0.64	28.61 ± 1.32	n = 16	[AB1] Abbott
67.14 ± 1.30	16.78 ± 0.62	52.24 ± 1.18	31.97 ± 0.88	28.40 ± 0.73	n = 42	[BC1] Beckman Coulter
74.49 ± 4.34	18.85 ± 1.02	58.13 ± 3.78	36.29 ± 2.07	32.26 ± 1.84	n = 7	[OL1] Beckman Coulter AU Series
64.71 ± 2.22	19.23 ± 0.54	51.46 ± 1.59	33.55 ± 1.12	30.24 ± 1.37	n = 31	[JJ1] Ortho Clinical Diagnostics
70.12 ± 1.45	16.66 ± 0.54	54.85 ± 1.22	33.56 ± 0.96	29.44 ± 0.81	n = 7	[R04] Roche cobas c501
66.39 ± 1.59	17.77 ± 0.62	52.63 ± 1.29	33.93 ± 1.06	30.35 ± 0.96	n = 11	[R02] Roche Hitachi and Modular D/P
63.51 ± 1.10	16.68 ± 0.41	50.24 ± 0.99	31.99 ± 0.54	28.13 ± 0.38	n = 12	[R01] Roche Integra and MIRA
68.08 ± 1.81	18.01 ± 0.61	53.77 ± 1.68	33.50 ± 0.81	30.22 ± 0.99	n = 12	[BY1] Siemens ADVIA/ADVIA Centaur
66.76 ± 0.79	18.31 ± 0.34	53.05 ± 0.56	34.01 ± 0.38	30.62 ± 0.39	n = 71	[DA5] Siemens Dimension
72.33 ± 7.54	19.98 ± 0.50	56.58 ± 3.38	37.24 ± 1.25	33.72 ± 0.68	n = 3	[SY5] Syva Emit tox

Summary of Participant Performance (Mean and Standard Deviation)

Theophylline (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
14.41 ± 0.91 14.6	14.78 ± 0.79 15.0	24.55 ± 1.56 25.2	7.28 ± 0.41 7.2	17.67 ± 1.02 17.9	n = 232	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
14.26 ± 0.43	14.76 ± 0.48	24.34 ± 1.15	7.17 ± 0.24	17.60 ± 0.52	n = 15	[ABB] Abbott AxSym
14.06 ± 0.56	14.55 ± 0.72	24.20 ± 2.46	7.03 ± 0.42	17.04 ± 0.71	n = 3	[ABG] Abbott TDx FLX
14.05 ± 0.95	14.57 ± 0.92	23.94 ± 1.81	6.91 ± 0.24	16.94 ± 1.15	n = 10	[OLC] Beckman Coulter AU Chemistry System
14.72 ± 0.61	14.66 ± 0.85	24.13 ± 1.94	9.48 ± 4.14	17.92 ± 0.96	n = 4	[BCS] Beckman Coulter CX
14.00 ± 0.39	14.08 ± 0.34	24.24 ± 0.38	7.29 ± 0.19	17.22 ± 0.30	n = 12	[BCX] Beckman Coulter LX-20
14.41 ± 0.35	14.49 ± 0.62	24.74 ± 1.16	7.42 ± 0.47	17.38 ± 0.87	n = 11	[BCG] Beckman Coulter UniCel Dx C 600
14.46 ± 0.43	14.49 ± 0.40	24.61 ± 0.50	7.57 ± 0.23	17.65 ± 0.46	n = 18	[BCH] Beckman Coulter UniCel Dx C 800
17.41 ± 0.64	15.88 ± 0.60	29.99 ± 1.53	7.54 ± 0.44	19.73 ± 0.72	n = 23	[JJF] Ortho Vitros 5,1FS
14.27 ± 0.53	14.48 ± 0.40	24.35 ± 0.47	7.25 ± 0.27	17.42 ± 0.37	n = 11	[ROC] Roche cobas c501
14.54 ± 0.46	14.89 ± 0.27	24.23 ± 0.69	7.37 ± 0.15	17.65 ± 0.34	n = 15	[ROT] Roche Cobas INTEGRA
14.20 ± 0.47	14.65 ± 0.44	24.27 ± 0.55	7.18 ± 0.34	17.48 ± 0.59	n = 14	[ROD] Roche MODULAR D/P
14.43 ± 0.41	14.60 ± 0.45	24.08 ± 1.15	7.50 ± 0.09	17.14 ± 0.62	n = 3	[BYE] Siemens ADVIA 1800
13.67 ± 1.40	14.90 ± 1.45	23.56 ± 1.78	7.00 ± 1.05	17.67 ± 1.47	n = 19	[COB] Siemens ADVIA Centaur
14.58 ± 0.79	14.92 ± 0.73	25.02 ± 1.30	7.21 ± 0.40	17.64 ± 1.07	n = 40	[DUR] Siemens Dimension RxL
13.85 ± 0.42	14.24 ± 0.59	23.43 ± 1.13	7.04 ± 0.35	16.98 ± 0.79	n = 13	[DUT] Siemens Dimension Vista
14.35 ± 0.62	14.71 ± 0.58	24.23 ± 0.53	7.15 ± 0.32	17.40 ± 0.46	n = 7	[DUX] Siemens Dimension Xpand
<Reagents>						
14.30 ± 0.49	14.78 ± 0.50	24.38 ± 1.32	7.19 ± 0.28	17.58 ± 0.57	n = 20	[AB1] Abbott
14.33 ± 0.47	14.39 ± 0.55	24.53 ± 0.71	7.49 ± 0.32	17.50 ± 0.63	n = 45	[BC1] Beckman Coulter
13.96 ± 1.11	14.55 ± 1.26	24.14 ± 2.06	6.91 ± 0.22	16.87 ± 1.09	n = 7	[OL1] Beckman Coulter AU Series
14.33 ± 0.51	14.44 ± 0.62	24.47 ± 1.13	6.92 ± 0.49	17.60 ± 0.72	n = 3	[MG1] Microgenics CEDIA
17.37 ± 0.63	15.89 ± 0.66	29.99 ± 1.56	7.52 ± 0.39	19.64 ± 0.69	n = 27	[JJ1] Ortho Clinical Diagnostics
14.27 ± 0.53	14.48 ± 0.40	24.35 ± 0.47	7.25 ± 0.27	17.42 ± 0.37	n = 11	[R04] Roche cobas c501
13.82 ± 0.28	14.51 ± 0.53	23.94 ± 0.56	7.03 ± 0.31	17.36 ± 0.52	n = 4	[R02] Roche Hitachi and Modular D/P
14.54 ± 0.46	14.89 ± 0.27	24.23 ± 0.69	7.37 ± 0.15	17.65 ± 0.34	n = 15	[R01] Roche Integra and MIRA
14.39 ± 0.41	14.79 ± 0.22	24.47 ± 0.27	7.30 ± 0.14	17.55 ± 0.57	n = 7	[R06] Roche ONLINE
13.95 ± 1.24	14.87 ± 1.17	23.82 ± 1.64	7.17 ± 0.89	17.59 ± 1.22	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
14.38 ± 0.78	14.74 ± 0.73	24.59 ± 1.40	7.16 ± 0.39	17.49 ± 0.96	n = 61	[DA5] Siemens Dimension
16.02 ± 0.86	16.54 ± 1.99	27.06 ± 3.12	8.34 ± 1.43	18.59 ± 4.62	n = 3	[DP5] Siemens Immulite
14.13 ± 0.60	14.67 ± 0.34	23.62 ± 1.13	6.89 ± 0.29	17.10 ± 1.26	n = 3	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Tobramycin (mg/L)

Specimen: T36	Specimen: T37	Specimen: T38	Specimen: T39	Specimen: T40	Number	[Code] Instrument or Reagent System
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15.11 ± 1.82 14.8	4.22 ± 0.52 4.1	10.14 ± 1.13 9.9	7.60 ± 0.83 7.5	2.79 ± 0.36 2.5	n = 86	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
16.50 ± 1.29	4.71 ± 0.12	11.17 ± 1.22	8.18 ± 0.64	3.10 ± 0.29	n = 13	[ABB] Abbott AxSym
13.83 ± 0.36	3.50 ± 0.00	9.03 ± 0.32	6.94 ± 0.21	2.30 ± 0.09	n = 6	[OLC] Beckman Coulter AU Chemistry System
16.10 ± 2.10	4.95 ± 0.12	11.62 ± 0.13	8.92 ± 0.04	3.10 ± 0.11	n = 4	[BCX] Beckman Coulter LX-20
16.95 ± 0.19	4.90 ± 0.09	11.47 ± 0.23	8.79 ± 0.29	3.14 ± 0.10	n = 3	[BCG] Beckman Coulter UniCel DxC 600
16.03 ± 2.56	4.92 ± 0.19	11.57 ± 0.34	8.97 ± 0.27	3.22 ± 0.09	n = 7	[BCH] Beckman Coulter UniCel DxC 800
16.73 ± 0.60	3.77 ± 0.16	10.26 ± 0.56	7.55 ± 0.30	2.48 ± 0.04	n = 4	[JJF] Ortho Vitros 5,1FS
13.78 ± 0.52	3.78 ± 0.08	9.17 ± 0.35	6.74 ± 0.21	2.46 ± 0.10	n = 12	[ROT] Roche Cobas INTEGRA
14.86 ± 2.35	4.08 ± 0.36	9.86 ± 0.47	7.74 ± 0.30	2.89 ± 0.35	n = 4	[ROD] Roche MODULAR D/P
16.41 ± 0.55	4.47 ± 0.16	10.45 ± 0.32	7.58 ± 0.13	3.03 ± 0.14	n = 5	[COB] Siemens ADVIA Centaur
14.87 ± 0.72	4.14 ± 0.14	9.87 ± 0.37	7.39 ± 0.34	2.76 ± 0.13	n = 14	[DUR] Siemens Dimension RxL
12.62 ± 0.33	3.91 ± 0.13	9.19 ± 0.14	6.97 ± 0.17	2.48 ± 0.07	n = 6	[DUT] Siemens Dimension Vista
<Reagents>						
16.50 ± 1.29	4.71 ± 0.12	11.17 ± 1.22	8.18 ± 0.64	3.10 ± 0.29	n = 13	[AB1] Abbott
16.60 ± 1.73	4.92 ± 0.14	11.55 ± 0.22	8.92 ± 0.21	3.17 ± 0.11	n = 14	[BC1] Beckman Coulter
13.66 ± 0.47	3.55 ± 0.19	8.98 ± 0.41	6.83 ± 0.23	2.30 ± 0.09	n = 3	[OL1] Beckman Coulter AU Series
14.04 ± 1.72	4.65 ± 0.19	10.43 ± 0.42	8.18 ± 0.41	3.13 ± 0.23	n = 3	[MG1] Microgenics CEDIA
16.73 ± 0.60	3.77 ± 0.16	10.26 ± 0.56	7.55 ± 0.30	2.48 ± 0.04	n = 4	[JJ1] Ortho Clinical Diagnostics
13.78 ± 0.52	3.78 ± 0.08	9.17 ± 0.35	6.74 ± 0.21	2.46 ± 0.10	n = 12	[R01] Roche Integra and MIRA
14.10 ± 2.92	3.93 ± 0.14	9.68 ± 0.41	7.62 ± 0.24	2.80 ± 0.36	n = 3	[R06] Roche ONLINE
16.34 ± 0.50	4.43 ± 0.18	10.59 ± 0.47	7.68 ± 0.25	2.97 ± 0.18	n = 6	[BY1] Siemens ADVIA/ADVIA Centaur
14.42 ± 1.16	4.06 ± 0.18	9.63 ± 0.45	7.23 ± 0.36	2.66 ± 0.18	n = 22	[DA5] Siemens Dimension
14.52 ± 1.59	3.61 ± 0.29	9.38 ± 0.80	7.16 ± 0.32	2.42 ± 0.31	n = 4	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Valproic Acid (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
137.47 ± 18.84 141.7	51.26 ± 4.30 51.5	148.13 ± 21.71 155.2	70.08 ± 7.01 70.9	44.60 ± 3.89 44.7	n = 256	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
126.40 ± 4.34	52.01 ± 0.98	133.76 ± 3.65	70.59 ± 0.57	44.75 ± 1.08	n = 3	[ABH] Abbott Architect
140.95 ± 5.52	51.41 ± 1.35	152.02 ± 7.49	70.12 ± 2.75	44.81 ± 1.48	n = 18	[ABB] Abbott AxSym
141.91 ± 6.16	51.27 ± 1.85	153.06 ± 11.50	69.42 ± 2.31	45.12 ± 1.89	n = 5	[ABG] Abbott TDX FLX
158.60 ± 11.33	57.43 ± 3.57	166.43 ± 12.47	77.90 ± 4.92	49.13 ± 3.36	n = 18	[OLC] Beckman Coulter AU Chemistry System
97.70 ± 5.77	49.15 ± 2.66	101.29 ± 4.84	58.60 ± 5.47	43.45 ± 3.25	n = 5	[BCS] Beckman Coulter CX
91.62 ± 6.42	45.20 ± 3.65	101.06 ± 7.02	55.92 ± 5.31	37.58 ± 4.18	n = 12	[BCX] Beckman Coulter LX-20
94.64 ± 3.82	46.28 ± 1.72	99.60 ± 6.03	57.87 ± 2.86	39.51 ± 3.19	n = 10	[BCG] Beckman Coulter UniCel DxC 600
94.39 ± 5.06	46.94 ± 1.61	99.85 ± 6.61	57.32 ± 2.94	40.04 ± 2.74	n = 18	[BCH] Beckman Coulter UniCel DxC 800
144.90 ± 7.16	45.39 ± 3.58	155.90 ± 9.96	67.00 ± 4.37	39.60 ± 2.62	n = 18	[JJF] Ortho Vitros 5,1FS
146.57 ± 6.80	54.91 ± 2.85	159.25 ± 8.80	76.96 ± 3.28	48.04 ± 2.72	n = 13	[ROC] Roche cobas c501
141.93 ± 2.67	49.99 ± 1.49	151.87 ± 5.65	69.10 ± 1.50	43.53 ± 0.82	n = 17	[ROT] Roche Cobas INTEGRA
147.32 ± 9.31	53.43 ± 3.78	159.74 ± 12.17	72.65 ± 4.29	45.76 ± 2.15	n = 15	[ROD] Roche MODULAR D/P
127.15 ± 3.46	45.77 ± 0.92	151.83 ± 6.45	64.92 ± 1.11	40.49 ± 1.77	n = 4	[BYE] Siemens ADVIA 1800
134.52 ± 6.55	51.82 ± 2.05	150.01 ± 10.49	69.90 ± 2.99	44.74 ± 1.96	n = 21	[COB] Siemens ADVIA Centaur
137.88 ± 1.40	51.20 ± 0.36	142.78 ± 3.23	73.13 ± 1.58	46.00 ± 0.90	n = 3	[DUE] Siemens Dimension EXL
139.05 ± 7.28	52.54 ± 1.83	149.96 ± 7.28	72.13 ± 2.58	45.81 ± 2.44	n = 44	[DUR] Siemens Dimension RxL
144.06 ± 4.49	56.09 ± 1.91	152.20 ± 6.76	75.85 ± 2.45	49.11 ± 2.07	n = 12	[DUT] Siemens Dimension Vista
139.42 ± 2.35	53.04 ± 2.05	151.56 ± 3.91	72.96 ± 2.58	46.34 ± 1.53	n = 9	[DUX] Siemens Dimension Xpand
<Reagents>						
139.91 ± 6.97	51.49 ± 1.39	150.66 ± 10.13	70.05 ± 2.44	44.89 ± 1.48	n = 26	[AB1] Abbott
94.07 ± 5.57	46.72 ± 2.62	100.24 ± 6.32	57.23 ± 4.06	39.72 ± 3.71	n = 46	[BC1] Beckman Coulter
161.71 ± 10.05	57.95 ± 3.39	168.64 ± 11.09	78.98 ± 4.63	48.95 ± 3.22	n = 11	[OL1] Beckman Coulter AU Series
145.07 ± 6.72	45.92 ± 4.08	156.85 ± 9.93	67.66 ± 4.66	40.01 ± 3.11	n = 20	[JJ1] Ortho Clinical Diagnostics
146.57 ± 6.80	54.91 ± 2.85	159.25 ± 8.80	76.96 ± 3.28	48.04 ± 2.72	n = 13	[R04] Roche cobas c501
151.84 ± 6.01	55.51 ± 2.68	172.98 ± 4.65	74.79 ± 5.35	47.95 ± 1.55	n = 4	[R02] Roche Hitachi and Modular D/P
141.93 ± 2.67	49.99 ± 1.49	151.87 ± 5.65	69.10 ± 1.50	43.53 ± 0.82	n = 17	[R01] Roche Integra and MIRA
145.95 ± 10.11	52.29 ± 4.05	154.55 ± 9.11	71.63 ± 3.87	44.88 ± 1.85	n = 10	[R06] Roche ONLINE
133.33 ± 7.69	51.02 ± 3.42	150.50 ± 10.88	68.89 ± 4.02	44.05 ± 2.68	n = 28	[BY1] Siemens ADVIA/ADVIA Centaur
140.29 ± 6.46	53.03 ± 2.33	150.36 ± 6.96	72.91 ± 2.93	46.43 ± 2.52	n = 68	[DA5] Siemens Dimension
152.73 ± 9.59	56.24 ± 3.45	163.43 ± 11.86	75.94 ± 4.48	49.12 ± 3.30	n = 8	[SY4] Syva Emit 2000

Summary of Participant Performance (Mean and Standard Deviation)

Vancomycin (mg/L)

Specimen: T36 -----	Specimen: T37 -----	Specimen: T38 -----	Specimen: T39 -----	Specimen: T40 -----	Number -----	[Code] Instrument or Reagent System -----
17.95 ± 1.97 20.0	42.18 ± 4.80 46.3	20.65 ± 2.22 23.6	8.79 ± 1.03 10.0	25.89 ± 2.83 30.3	n = 215	[---] All Methods & Instruments [---] Weigh-in Value
<Instruments>						
18.40 ± 1.26	42.48 ± 2.14	21.22 ± 0.69	8.85 ± 0.19	24.73 ± 0.41	n = 3	[ABH] Abbott Architect
19.03 ± 1.01	43.97 ± 1.97	21.76 ± 1.34	9.74 ± 0.92	26.82 ± 1.98	n = 17	[ABB] Abbott AxSym
16.92 ± 0.90	40.41 ± 3.19	19.16 ± 0.80	8.28 ± 0.57	24.15 ± 0.78	n = 11	[OLC] Beckman Coulter AU Chemistry System
17.96 ± 0.47	45.65 ± 0.91	21.02 ± 0.78	8.73 ± 0.95	27.35 ± 1.10	n = 3	[BCS] Beckman Coulter CX
18.32 ± 0.83	44.30 ± 2.83	20.90 ± 0.89	9.01 ± 0.23	27.53 ± 1.59	n = 11	[BCX] Beckman Coulter LX-20
17.76 ± 0.35	45.56 ± 1.56	20.85 ± 0.55	8.70 ± 0.48	27.23 ± 1.44	n = 7	[BCG] Beckman Coulter UniCel DxC 600
18.39 ± 1.12	46.04 ± 2.57	21.20 ± 1.08	8.90 ± 0.50	27.81 ± 1.40	n = 15	[BCH] Beckman Coulter UniCel DxC 800
18.17 ± 0.79	42.31 ± 1.85	20.78 ± 0.93	8.91 ± 0.68	25.83 ± 0.86	n = 16	[JJF] Ortho Vitros 5,1FS
20.81 ± 1.94	49.00 ± 3.42	23.45 ± 1.85	10.06 ± 0.93	28.93 ± 2.16	n = 7	[ROC] Roche cobas c501
20.61 ± 0.65	48.70 ± 2.23	23.32 ± 0.76	9.61 ± 0.33	28.95 ± 0.83	n = 16	[ROT] Roche Cobas INTEGRA
20.26 ± 1.16	46.63 ± 2.35	23.55 ± 1.36	9.84 ± 0.67	29.25 ± 1.42	n = 11	[ROD] Roche MODULAR D/P
19.30 ± 1.17	47.67 ± 3.62	22.82 ± 1.14	10.05 ± 0.54	27.27 ± 1.60	n = 3	[BYE] Siemens ADVIA 1800
13.32 ± 1.40	34.15 ± 2.39	15.49 ± 0.64	6.73 ± 0.76	19.87 ± 1.63	n = 24	[COB] Siemens ADVIA Centaur
16.94 ± 0.10	38.68 ± 0.49	19.32 ± 0.49	8.00 ± 0.00	24.28 ± 0.94	n = 3	[DUE] Siemens Dimension EXL
17.10 ± 0.82	39.60 ± 1.38	19.67 ± 0.80	8.38 ± 0.45	24.51 ± 0.90	n = 38	[DUR] Siemens Dimension RxL
17.42 ± 0.59	39.25 ± 1.55	20.10 ± 0.59	8.85 ± 0.56	25.30 ± 0.89	n = 12	[DUT] Siemens Dimension Vista
17.13 ± 0.56	39.04 ± 1.37	19.45 ± 0.66	8.27 ± 0.32	24.39 ± 0.60	n = 9	[DUX] Siemens Dimension Xpand
<Reagents>						
19.05 ± 1.05	43.70 ± 1.94	21.79 ± 1.30	9.63 ± 0.90	26.51 ± 1.90	n = 22	[AB1] Abbott
18.18 ± 0.89	45.43 ± 2.34	20.99 ± 0.87	8.91 ± 0.51	27.57 ± 1.43	n = 36	[BC1] Beckman Coulter
16.70 ± 0.92	40.56 ± 2.95	19.06 ± 0.76	8.03 ± 0.46	24.08 ± 0.67	n = 8	[OL1] Beckman Coulter AU Series
18.20 ± 0.75	42.37 ± 1.79	20.84 ± 0.92	8.88 ± 0.64	25.81 ± 0.81	n = 17	[JJ1] Ortho Clinical Diagnostics
20.81 ± 1.94	49.00 ± 3.42	23.45 ± 1.85	10.06 ± 0.93	28.93 ± 2.16	n = 7	[R04] Roche cobas c501
20.31 ± 0.85	45.90 ± 1.53	23.60 ± 1.32	9.68 ± 0.49	29.00 ± 1.13	n = 6	[R02] Roche Hitachi and Modular D/P
20.61 ± 0.65	48.70 ± 2.23	23.32 ± 0.76	9.61 ± 0.33	28.95 ± 0.83	n = 16	[R01] Roche Integra and MIRA
20.23 ± 1.54	47.88 ± 2.87	23.50 ± 1.40	10.03 ± 0.79	29.69 ± 1.84	n = 5	[R06] Roche ONLINE
13.98 ± 2.42	35.08 ± 4.33	16.01 ± 2.75	7.02 ± 1.37	20.67 ± 2.96	n = 30	[BY1] Siemens ADVIA/ADVIA Centaur
17.15 ± 0.72	39.40 ± 1.40	19.70 ± 0.76	8.41 ± 0.49	24.59 ± 0.92	n = 62	[DA5] Siemens Dimension
17.54 ± 0.62	40.44 ± 3.08	20.15 ± 1.29	8.73 ± 0.26	25.20 ± 1.33	n = 6	[SY4] Syva Emit 2000