

New York State Department of Health - Wadsworth Center
Quantitative Urine Chemistry - Educational Proficiency Testing - 19 April 2010

Summary of Participant Performance (Mean and Standard Deviation)

Albumin

The following albumin results are summaries with all results converted to mg/L:

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
1658.5 ± 188.28	107.3 ± 16.49	75.9 ± 12.11	166.4 ± 10.40	39.1 ± 4.28	n = 182	All Methods & Instruments
<Instruments>						
1633.9 ± 96.53	118.0 ± 15.62	80.2 ± 8.77	172.4 ± 10.30	39.9 ± 2.86	n = 3	Abbott Architect
1660.5 ± 51.85	94.4 ± 26.55	75.4 ± 17.31	162.8 ± 7.63	35.9 ± 7.19	n = 3	Beckman Coulter CX
1607.2 ± 146.80	97.1 ± 19.87	74.5 ± 3.63	168.9 ± 3.72	42.6 ± 5.58	n = 3	Beckman Coulter LX-20
1760.9 ± 67.77	109.1 ± 4.82	77.1 ± 5.62	166.8 ± 5.68	39.2 ± 2.11	n = 9	Beckman Coulter UniCel DxC 600
1662.0 ± 68.88	102.7 ± 7.40	72.6 ± 5.66	161.2 ± 7.00	38.4 ± 2.55	n = 11	Beckman Coulter UniCel DxC 800
1564.4 ± 331.76	104.3 ± 11.39	76.3 ± 4.46	163.8 ± 5.46	37.0 ± 3.49	n = 30	Beckman Coulter AU Chemistry System
1298.4 ± 269.49	118.3 ± 5.10	81.5 ± 3.61	167.1 ± 10.12	37.0 ± 4.58	n = 11	Ortho Vitros 5,1FS
1606.5 ± 324.39	92.6 ± 22.90	61.5 ± 19.20	167.3 ± 22.93	36.2 ± 3.52	n = 13	Other
1296.8 ± 474.81	104.6 ± 21.47	74.5 ± 14.06	167.5 ± 6.62	37.3 ± 5.23	n = 9	Roche cobas c501
1649.8 ± 131.33	109.6 ± 5.99	64.1 ± 11.39	174.2 ± 10.30	36.0 ± 3.49	n = 7	Roche Cobas INTEGRA
1665.9 ± 71.64	120.9 ± 2.71	84.6 ± 6.47	169.0 ± 4.91	41.8 ± 3.22	n = 22	Roche MODULAR D/P
1635.4 ± 51.80	108.2 ± 3.26	76.3 ± 2.49	162.9 ± 2.94	38.3 ± 2.01	n = 10	Siemens ADVIA 1800
1611.3 ± 80.40	111.2 ± 1.08	80.8 ± 1.89	165.8 ± 5.76	40.8 ± 0.68	n = 3	Siemens ADVIA 2400
300.0 ± 0.00	99.8 ± 4.47	79.8 ± 17.97	165.3 ± 5.86	38.3 ± 0.93	n = 3	Siemens DCA 2000
1629.1 ± 320.11	108.5 ± 16.04	82.5 ± 3.05	166.9 ± 14.83	42.1 ± 3.66	n = 28	Siemens Dimension
1785.8 ± 69.62	127.7 ± 41.12	92.5 ± 35.08	203.5 ± 18.23	42.6 ± 4.80	n = 10	Siemens Dimension Vista
2190.4 ± 849.19	115.4 ± 32.49	67.5 ± 9.33	199.0 ± 67.58	47.4 ± 5.30	n = 3	Siemens Immulite 2000
<Reagents>						
1691.6 ± 94.49	105.2 ± 9.45	74.4 ± 6.13	163.8 ± 7.41	38.3 ± 2.78	n = 29	Beckman Coulter
1696.2 ± 123.71	95.5 ± 20.65	66.9 ± 16.73	163.9 ± 7.35	34.7 ± 4.23	n = 5	Kamiya
1499.0 ± 392.48	106.6 ± 7.29	76.8 ± 4.57	163.4 ± 5.40	37.8 ± 2.84	n = 18	Beckman Coulter AU Series
1277.2 ± 257.83	117.8 ± 5.02	81.1 ± 3.53	166.4 ± 9.84	37.0 ± 4.30	n = 12	Ortho Clinical Diagnostics
1721.4 ± 172.55	98.8 ± 17.64	65.6 ± 14.27	173.2 ± 19.96	36.3 ± 3.76	n = 10	Other
1296.8 ± 474.81	104.6 ± 21.47	74.5 ± 14.06	167.5 ± 6.62	37.3 ± 5.23	n = 9	Roche cobas c501
1657.1 ± 70.99	120.9 ± 2.80	84.0 ± 6.96	169.5 ± 5.13	41.8 ± 2.62	n = 22	Roche Hitachi and Modular D/P
1674.4 ± 136.99	110.7 ± 4.21	65.9 ± 13.79	176.3 ± 9.88	36.4 ± 3.71	n = 6	Roche Integra and MIRA
1653.8 ± 154.38	108.7 ± 3.40	77.4 ± 3.90	163.6 ± 3.82	39.3 ± 2.20	n = 15	Siemens ADVIA/ADVIA Centaur
300.0 ± 0.24	95.7 ± 6.97	69.2 ± 2.45	169.1 ± 10.42	37.3 ± 1.55	n = 5	Siemens DCA
1714.4 ± 197.87	110.0 ± 21.54	79.6 ± 13.52	172.5 ± 20.33	42.3 ± 4.00	n = 37	Siemens Dimension/Stratus
2190.4 ± 849.19	115.4 ± 32.49	67.5 ± 9.33	199.0 ± 67.58	47.4 ± 5.30	n = 3	Siemens Immulite

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Summary of Participant Performance (Mean and Standard Deviation)

Creatinine

The following creatinine results are summaries with all results converted to mg/dL:

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
141.9 ± 7.87	115.2 ± 7.03	67.6 ± 4.41	96.3 ± 6.07	47.8 ± 2.97	n = 271	All Methods & Instruments
136.3 ± 1.84	110.0 ± 1.91	65.0 ± 0.80	91.1 ± 0.55	45.7 ± 1.05	n = 6	<Instruments> Abbott Architect
145.5 ± 3.08	118.7 ± 2.56	69.9 ± 1.97	99.5 ± 1.00	49.2 ± 0.99	n = 9	Beckman Coulter CX
144.0 ± 2.60	118.4 ± 1.10	70.1 ± 1.63	99.2 ± 1.03	49.6 ± 0.71	n = 14	Beckman Coulter LX-20
147.7 ± 4.21	120.6 ± 4.12	71.5 ± 1.75	100.8 ± 2.87	51.0 ± 1.48	n = 12	Beckman Coulter UniCel DxC 600
142.8 ± 3.08	116.8 ± 1.97	69.1 ± 1.13	97.4 ± 1.86	49.0 ± 0.83	n = 19	Beckman Coulter UniCel DxC 800
151.3 ± 7.58	124.3 ± 6.67	75.0 ± 3.70	105.8 ± 5.37	51.7 ± 2.85	n = 35	Beckman Coulter AU Chemistry System
130.9 ± 5.88	106.8 ± 4.30	63.9 ± 2.44	89.5 ± 2.34	44.8 ± 1.97	n = 3	Ortho Vitros 250/350/950
135.6 ± 4.32	109.7 ± 4.53	65.4 ± 2.57	91.5 ± 3.37	46.4 ± 1.76	n = 19	Ortho Vitros 5,1FS
155.0 ± 19.94	125.9 ± 14.24	74.4 ± 6.00	102.3 ± 7.68	51.8 ± 2.83	n = 4	Other
143.6 ± 5.65	116.8 ± 4.65	69.3 ± 2.10	98.8 ± 2.78	49.1 ± 1.94	n = 13	Roche cobas c501
136.0 ± 4.81	109.8 ± 2.87	64.0 ± 2.73	91.4 ± 2.30	45.5 ± 1.42	n = 15	Roche Cobas INTEGRA
136.7 ± 4.82	111.2 ± 4.23	65.2 ± 2.14	92.9 ± 3.48	46.6 ± 1.79	n = 31	Roche MODULAR D/P
142.7 ± 5.34	116.4 ± 4.85	67.9 ± 2.34	96.3 ± 3.21	47.4 ± 1.89	n = 3	Siemens ADVIA 1650
134.4 ± 6.74	108.0 ± 3.98	64.1 ± 3.43	91.2 ± 3.68	45.0 ± 1.63	n = 12	Siemens ADVIA 1800
127.9 ± 7.18	104.3 ± 7.02	62.6 ± 1.89	87.2 ± 4.62	43.7 ± 2.31	n = 3	Siemens ADVIA 2400
140.6 ± 1.02	115.0 ± 2.70	68.3 ± 1.15	96.1 ± 1.53	48.9 ± 0.46	n = 3	Siemens DCA 2000
143.8 ± 7.02	115.2 ± 6.17	66.0 ± 3.57	96.6 ± 4.92	46.6 ± 2.60	n = 49	Siemens Dimension
146.6 ± 2.57	117.7 ± 2.98	68.0 ± 2.06	97.9 ± 3.52	48.2 ± 1.35	n = 11	Siemens Dimension Vista
136.0 ± 1.81	109.6 ± 1.98	64.7 ± 1.05	90.9 ± 0.72	45.3 ± 1.39	n = 7	<Reagents> Abbott
144.5 ± 3.83	118.2 ± 3.27	69.9 ± 2.00	98.8 ± 2.73	49.5 ± 1.25	n = 54	Beckman Coulter
152.4 ± 6.51	125.4 ± 5.65	75.4 ± 2.85	106.5 ± 4.29	51.7 ± 1.57	n = 29	Beckman Coulter AU Series
134.8 ± 4.99	109.1 ± 4.43	65.0 ± 2.64	91.0 ± 3.33	46.2 ± 1.84	n = 23	Ortho Clinical Diagnostics
147.8 ± 8.83	121.0 ± 8.00	71.2 ± 6.40	101.1 ± 7.25	50.2 ± 4.08	n = 5	Other
144.3 ± 5.27	117.2 ± 4.69	69.5 ± 2.13	98.5 ± 2.70	49.3 ± 1.69	n = 12	Roche cobas c501
136.7 ± 4.67	111.4 ± 4.15	65.3 ± 2.31	93.1 ± 3.68	46.5 ± 1.88	n = 34	Roche Hitachi and Modular D/P
135.9 ± 5.16	109.5 ± 3.08	64.3 ± 3.02	91.2 ± 2.49	45.7 ± 1.45	n = 13	Roche Integra and MIRA
134.2 ± 7.62	108.7 ± 5.71	64.2 ± 3.40	91.1 ± 4.45	45.1 ± 1.89	n = 20	Siemens ADVIA/ADVIA Centaur
141.2 ± 1.46	116.2 ± 3.13	69.2 ± 2.33	96.5 ± 1.42	48.8 ± 0.42	n = 4	Siemens DCA
144.3 ± 6.56	116.0 ± 5.70	66.5 ± 3.40	96.8 ± 4.83	47.0 ± 2.49	n = 60	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Albumin-Creatinine Ratio

The following albumin-creatinine ratio results are summaries with all results converted µg/mg:

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
1175.0 ± 132.81	92.4 ± 19.28	110.6 ± 23.41	172.5 ± 17.98	80.5 ± 11.37	n = 149	All Methods & Instruments
816.1 ± 447.86	89.0 ± 11.52	105.8 ± 24.11	165.4 ± 13.23	77.5 ± 9.99	n = 22	<Instruments> Clinical Analyzer calculation
1005.4 ± 739.12	89.6 ± 10.47	108.7 ± 12.77	170.5 ± 18.80	83.5 ± 10.80	n = 6	Manual Calculation
1183.3 ± 129.86	93.8 ± 20.27	111.4 ± 24.33	174.5 ± 18.42	81.2 ± 11.47	n = 120	<Reagents> Lab Information System
816.1 ± 447.86	89.0 ± 11.52	105.8 ± 24.11	165.4 ± 13.23	77.5 ± 9.99	n = 22	Clinical Analyzer calculation
1005.4 ± 739.12	89.6 ± 10.47	108.7 ± 12.77	170.5 ± 18.80	83.5 ± 10.80	n = 6	Manual Calculation

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Summary of Participant Performance (Mean and Standard Deviation)

alpha-Amylase

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
2.8 ± 1.65	2.4 ± 2.10	2.3 ± 2.43	22.3 ± 21.23	2.3 ± 2.13	n = 143	All Methods & Instruments
2.1 ± 0.89	1.6 ± 1.11	1.3 ± 1.31	24.0 ± 24.52	1.4 ± 1.29	n = 34	<Method Principles>
2.0 ± 1.02	1.7 ± 1.12	0.6 ± 1.16	31.4 ± 27.45	1.2 ± 1.05	n = 22	Chromogenic (p-nitrophenyl substrat
5.0 ± 0.00	5.2 ± 1.30	5.0 ± 0.00	13.5 ± 9.47	5.0 ± 0.00	n = 31	Chromogenic (blocked/protected subs
3.0 ± 1.80	2.7 ± 2.26	2.7 ± 2.26	7.3 ± 7.74	15.8 ± 21.53	n = 3	Enz./saccharogenic (maltose phospho
30.0 ± 0.00	30.0 ± 0.00	30.0 ± 0.00	30.0 ± 0.00	30.0 ± 0.00	n = 12	Enzymatic/saccharogenic (hexokinase
3.0 ± 2.58	2.4 ± 2.61	2.3 ± 2.72	29.7 ± 28.60	2.5 ± 2.73	n = 29	Chromogenic (Drimarene red/amylopec
2.3 ± 0.97	1.7 ± 1.36	1.7 ± 1.64	21.9 ± 22.13	1.6 ± 1.57	n = 11	Enzymatic/CNPG3
						Other
						<Instruments>
3.0 ± 0.00	3.0 ± 0.00	3.0 ± 0.00	33.0 ± 24.15	3.0 ± 0.00	n = 5	Abbott Architect
4.7 ± 0.51	4.7 ± 2.26	6.1 ± 2.05	15.3 ± 5.97	3.9 ± 2.05	n = 3	Beckman Coulter CX
5.0 ± 0.00	5.0 ± 0.00	5.0 ± 0.00	12.5 ± 6.46	5.0 ± 0.00	n = 9	Beckman Coulter LX-20
5.0 ± 0.00	5.6 ± 1.02	5.6 ± 1.02	13.0 ± 10.85	5.6 ± 1.02	n = 3	Beckman Coulter UniCel DxC 600
5.0 ± 0.00	5.0 ± 0.00	5.0 ± 0.00	12.5 ± 9.00	5.0 ± 0.00	n = 14	Beckman Coulter UniCel DxC 800
5.0 ± 4.97	4.5 ± 5.43	4.3 ± 5.64	14.3 ± 17.82	4.3 ± 5.64	n = 9	Beckman Coulter AU Chemistry System
<30	<30	<30	<30	<30	n = 14	Ortho Vitros 5,1FS
2.3 ± 0.85	1.4 ± 1.40	1.3 ± 1.49	27.2 ± 28.39	1.8 ± 1.20	n = 9	Roche cobas c501
1.7 ± 0.85	1.2 ± 0.92	1.6 ± 1.63	3.8 ± 0.81	1.3 ± 0.82	n = 4	Roche Cobas INTEGRA
2.9 ± 0.90	2.9 ± 0.86	2.5 ± 1.40	20.7 ± 23.47	2.8 ± 1.17	n = 18	Roche MODULAR D/P
1.9 ± 0.87	1.4 ± 0.57	0.2 ± 0.47	34.8 ± 24.97	1.0 ± 0.00	n = 8	Siemens ADVIA 1800
1.6 ± 1.02	1.7 ± 0.51	0.3 ± 0.51	32.6 ± 21.95	1.3 ± 0.51	n = 3	Siemens ADVIA 2400
1.9 ± 0.77	1.0 ± 0.70	0.6 ± 0.82	26.3 ± 27.55	0.7 ± 0.80	n = 29	Siemens Dimension
2.0 ± 0.00	2.0 ± 0.00	2.0 ± 0.00	46.1 ± 28.53	2.0 ± 0.00	n = 10	Siemens Dimension Vista
						<Reagents>
3.0 ± 0.00	3.0 ± 0.00	3.0 ± 0.00	33.0 ± 24.15	3.0 ± 0.00	n = 5	Abbott
5.0 ± 0.00	5.0 ± 0.00	5.0 ± 0.00	12.9 ± 8.22	5.0 ± 0.00	n = 29	Beckman Coulter
5.5 ± 5.13	5.3 ± 5.42	5.0 ± 5.70	17.2 ± 18.80	5.0 ± 5.70	n = 8	Beckman Coulter AU Series
<30	<30	<30	<30	<30	n = 15	Ortho Clinical Diagnostics
2.3 ± 0.85	1.4 ± 1.40	1.3 ± 1.49	27.2 ± 28.39	1.8 ± 1.20	n = 9	Roche cobas c501
2.9 ± 0.86	3.0 ± 0.00	2.6 ± 1.35	22.1 ± 23.49	2.8 ± 1.11	n = 19	Roche Hitachi and Modular D/P
1.7 ± 0.85	1.2 ± 0.92	1.6 ± 1.63	3.8 ± 0.81	1.3 ± 0.82	n = 4	Roche Integra and MIRA
1.9 ± 0.76	1.5 ± 0.57	0.2 ± 0.49	29.4 ± 23.35	1.0 ± 0.00	n = 14	Siemens ADVIA/ADVIA Centaur
2.0 ± 0.68	1.3 ± 0.81	1.0 ± 1.01	32.5 ± 29.63	1.0 ± 0.97	n = 38	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Calcium

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
3.47 ± 0.85	6.81 ± 0.26	8.13 ± 0.87	3.15 ± 0.88	9.87 ± 0.47	n = 175	All Methods & Instruments
3.99 ± 0.92	6.86 ± 0.25	8.24 ± 0.85	3.64 ± 1.18	10.02 ± 0.37	n = 84	<Method Principles>
3.24 ± 0.38	6.79 ± 0.29	8.11 ± 0.87	3.01 ± 0.42	9.80 ± 0.48	n = 52	o-Cresolphthalein
2.68 ± 0.26	6.74 ± 0.15	7.80 ± 0.67	2.59 ± 0.31	9.49 ± 0.28	n = 33	Arsenazo dye
9.18 ± 13.47	11.88 ± 13.85	11.34 ± 2.96	2.97 ± 0.12	10.38 ± 0.28	n = 4	Ion selective electrode
						Other
						<Instruments>
3.19 ± 0.16	6.52 ± 0.23	8.03 ± 0.27	3.02 ± 0.15	9.09 ± 0.27	n = 5	Abbott Architect
3.05 ± 0.48	6.39 ± 0.31	7.90 ± 0.75	2.83 ± 0.59	9.29 ± 0.34	n = 5	Beckman Coulter CX
2.81 ± 0.08	6.74 ± 0.14	7.58 ± 0.18	2.63 ± 0.27	9.61 ± 0.46	n = 9	Beckman Coulter LX-20
2.78 ± 0.04	6.72 ± 0.08	8.20 ± 0.92	2.90 ± 0.08	9.45 ± 0.08	n = 5	Beckman Coulter UniCel Dx C 600
2.54 ± 0.30	6.77 ± 0.16	7.82 ± 0.74	2.47 ± 0.24	9.53 ± 0.27	n = 16	Beckman Coulter UniCel Dx C 800
3.45 ± 0.45	6.64 ± 0.27	7.98 ± 1.16	3.11 ± 0.32	9.59 ± 0.44	n = 17	Beckman Coulter AU Chemistry System
3.02 ± 0.27	6.88 ± 0.20	8.05 ± 0.60	2.67 ± 0.30	10.19 ± 0.39	n = 14	Ortho Vitros 5,1FS
3.30 ± 0.42	6.85 ± 0.31	9.70 ± 1.99	2.84 ± 0.39	10.05 ± 0.46	n = 8	Roche cobas c501
3.48 ± 0.18	6.85 ± 0.23	8.31 ± 0.55	2.90 ± 0.12	10.62 ± 0.33	n = 8	Roche Cobas INTEGRA
3.26 ± 0.29	6.84 ± 0.30	7.87 ± 0.76	2.81 ± 0.30	9.93 ± 0.42	n = 23	Roche MODULAR D/P
3.32 ± 0.15	6.87 ± 0.34	8.49 ± 0.57	2.80 ± 0.09	9.94 ± 0.10	n = 3	Siemens ADVIA 1650
3.41 ± 0.30	6.76 ± 0.37	7.80 ± 0.40	3.05 ± 0.32	9.90 ± 0.15	n = 11	Siemens ADVIA 1800
3.29 ± 0.25	7.04 ± 0.17	8.02 ± 0.86	3.37 ± 0.34	9.95 ± 0.28	n = 3	Siemens ADVIA 2400
5.00 ± 0.00	6.95 ± 0.16	8.43 ± 0.82	4.75 ± 0.63	10.02 ± 0.23	n = 32	Siemens Dimension
5.00 ± 0.00	6.75 ± 0.18	8.48 ± 0.96	5.00 ± 0.00	9.74 ± 0.29	n = 10	Siemens Dimension Vista
						<Reagents>
3.19 ± 0.16	6.52 ± 0.23	8.03 ± 0.27	3.02 ± 0.15	9.09 ± 0.27	n = 5	Abbott
2.70 ± 0.31	6.73 ± 0.16	7.80 ± 0.67	2.60 ± 0.33	9.48 ± 0.26	n = 34	Beckman Coulter
3.50 ± 0.42	6.66 ± 0.26	7.93 ± 1.19	3.13 ± 0.32	9.68 ± 0.32	n = 16	Beckman Coulter AU Series
3.02 ± 0.26	6.90 ± 0.20	8.13 ± 0.75	2.68 ± 0.29	10.18 ± 0.37	n = 15	Ortho Clinical Diagnostics
3.37 ± 0.47	6.91 ± 0.37	8.79 ± 0.76	2.80 ± 0.44	10.16 ± 0.52	n = 6	Roche cobas c501
3.27 ± 0.27	6.81 ± 0.31	7.91 ± 0.84	2.82 ± 0.28	9.97 ± 0.40	n = 25	Roche Hitachi and Modular D/P
3.48 ± 0.18	6.85 ± 0.23	8.31 ± 0.55	2.90 ± 0.12	10.62 ± 0.33	n = 8	Roche Integra and MIRA
3.38 ± 0.27	6.88 ± 0.41	8.00 ± 0.68	3.09 ± 0.39	9.94 ± 0.20	n = 18	Siemens ADVIA/ADVIA Centaur
5.00 ± 0.00	6.90 ± 0.19	8.42 ± 0.86	5.00 ± 0.00	9.97 ± 0.27	n = 41	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Chloride

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
117.25 ± 6.04	143.90 ± 3.90	99.96 ± 4.37	51.43 ± 5.30	209.23 ± 5.24	n = 195	All Methods & Instruments
117.42 ± 6.07	144.02 ± 3.80	100.14 ± 4.26	51.46 ± 5.22	209.13 ± 5.09	n = 173	<Method Principles> Ion selective electrode (diluted)
116.06 ± 5.54	142.92 ± 4.55	98.64 ± 4.97	51.52 ± 6.00	209.70 ± 6.47	n = 21	Ion selective electrode (undiluted)
116.20 ± 1.78	142.39 ± 1.89	99.00 ± 1.54	50.37 ± 0.55	207.63 ± 2.88	n = 5	<Instruments> Abbott Architect
117.00 ± 0.00	144.53 ± 2.44	100.82 ± 2.29	51.00 ± 0.47	202.04 ± 4.46	n = 8	Beckman Coulter CX
115.70 ± 1.80	142.99 ± 3.12	98.90 ± 1.89	51.49 ± 1.69	203.42 ± 4.27	n = 12	Beckman Coulter LX-20
116.20 ± 1.34	142.51 ± 1.29	98.95 ± 1.41	50.91 ± 0.98	203.92 ± 4.16	n = 10	Beckman Coulter UniCel DxC 600
116.86 ± 1.67	143.40 ± 1.42	99.36 ± 1.03	52.20 ± 1.16	206.22 ± 4.35	n = 18	Beckman Coulter UniCel DxC 800
116.75 ± 1.00	145.23 ± 2.91	101.11 ± 1.55	51.23 ± 1.48	215.56 ± 3.30	n = 17	Beckman Coulter AU Chemistry System
117.40 ± 2.64	146.00 ± 4.01	100.82 ± 3.87	53.30 ± 4.10	199.05 ± 12.16	n = 4	Ortho Vitros 5,1FS
107.71 ± 2.38	137.15 ± 1.53	91.72 ± 1.99	43.72 ± 1.60	212.50 ± 3.74	n = 10	Roche cobas c501
113.78 ± 1.85	141.08 ± 1.33	95.90 ± 1.20	51.37 ± 2.76	208.09 ± 3.01	n = 9	Roche Cobas INTEGRA
112.03 ± 1.37	141.08 ± 1.46	95.64 ± 1.29	46.16 ± 0.85	213.15 ± 2.85	n = 25	Roche MODULAR D/P
116.00 ± 0.90	143.26 ± 1.37	100.44 ± 1.02	51.00 ± 0.90	208.84 ± 1.54	n = 3	Siemens ADVIA 1650
116.64 ± 1.27	143.56 ± 0.80	100.22 ± 1.61	51.53 ± 0.62	208.91 ± 2.44	n = 12	Siemens ADVIA 1800
116.56 ± 1.02	143.74 ± 1.37	99.56 ± 1.02	51.28 ± 0.51	208.72 ± 0.51	n = 3	Siemens ADVIA 2400
129.14 ± 7.09	148.48 ± 2.14	105.95 ± 1.61	66.04 ± 9.06	209.75 ± 2.54	n = 22	Siemens Dimension
127.48 ± 5.57	147.95 ± 3.19	105.08 ± 2.75	63.65 ± 7.69	208.90 ± 3.67	n = 25	Siemens Dimension QuikLYTE
123.01 ± 1.82	144.55 ± 4.69	100.63 ± 2.37	51.51 ± 1.05	209.18 ± 4.87	n = 8	Siemens Dimension Vista
116.20 ± 1.78	142.39 ± 1.89	99.00 ± 1.54	50.37 ± 0.55	207.63 ± 2.88	n = 5	<Reagents> Abbott
116.50 ± 1.75	143.20 ± 2.14	99.32 ± 1.78	51.65 ± 1.30	204.33 ± 4.65	n = 47	Beckman Coulter
116.50 ± 1.55	145.43 ± 2.93	101.09 ± 1.64	51.16 ± 1.22	215.74 ± 2.78	n = 16	Beckman Coulter AU Series
116.60 ± 2.72	144.81 ± 4.19	100.07 ± 3.64	52.31 ± 3.67	202.69 ± 2.65	n = 5	Ortho Clinical Diagnostics
108.11 ± 2.09	137.38 ± 1.65	91.98 ± 2.00	43.95 ± 1.52	212.74 ± 3.93	n = 9	Roche cobas c501
112.12 ± 1.52	141.02 ± 1.55	95.55 ± 1.48	46.20 ± 0.92	213.29 ± 3.13	n = 27	Roche Hitachi and Modular D/P
113.78 ± 1.85	141.08 ± 1.33	95.90 ± 1.20	51.37 ± 2.76	208.09 ± 3.01	n = 9	Roche Integra and MIRA
116.41 ± 1.20	143.51 ± 1.04	100.02 ± 1.37	51.38 ± 0.69	208.72 ± 1.78	n = 19	Siemens ADVIA/ADVIA Centaur
127.27 ± 6.20	147.91 ± 2.94	105.01 ± 2.79	62.91 ± 9.15	209.30 ± 3.21	n = 54	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Glucose

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
1.6 ± 1.57	955.5 ± 44.62	1.7 ± 1.47	245.7 ± 8.29	24.2 ± 1.42	n = 135	All Methods & Instruments
1.0 ± 0.73	946.1 ± 49.22	1.2 ± 0.76	245.7 ± 6.77	24.0 ± 1.25	n = 68	<Method Principles>
1.5 ± 1.57	940.0 ± 56.00	1.7 ± 1.58	244.0 ± 6.86	24.0 ± 1.44	n = 30	Hexokinase, UV
20.0 ± 0.00	986.1 ± 14.98	20.0 ± 0.00	266.5 ± 3.77	26.0 ± 1.41	n = 14	Hexokinase, colorimetric
3.5 ± 1.41	963.5 ± 22.84	3.1 ± 1.37	243.2 ± 3.49	24.4 ± 1.14	n = 18	Glucose oxidase, colorimetric
3.7 ± 0.51	961.0 ± 24.44	3.0 ± 0.00	247.0 ± 4.51	24.6 ± 1.02	n = 3	Glucose oxidase, O2 electrode
						Oxygen rate
1.0 ± 0.00	955.5 ± 83.59	1.0 ± 0.00	244.8 ± 1.96	24.0 ± 0.00	n = 4	<Instruments>
4.4 ± 1.02	937.0 ± 142.17	4.4 ± 1.02	246.7 ± 1.37	22.7 ± 0.51	n = 3	Abbott Architect
3.7 ± 1.73	974.8 ± 19.34	3.9 ± 1.87	243.4 ± 2.25	24.8 ± 0.72	n = 7	Beckman Coulter CX
3.4 ± 1.30	958.8 ± 29.19	2.9 ± 1.53	243.8 ± 5.12	23.7 ± 1.11	n = 7	Beckman Coulter LX-20
3.6 ± 1.09	956.0 ± 19.38	3.2 ± 1.04	241.9 ± 5.88	24.4 ± 1.35	n = 10	Beckman Coulter UniCel DxC 600
4.8 ± 5.06	923.7 ± 33.03	4.9 ± 4.96	241.3 ± 3.51	23.8 ± 0.54	n = 12	Beckman Coulter UniCel DxC 800
20.0 ± 0.00	987.1 ± 16.18	20.0 ± 0.00	266.9 ± 3.38	26.2 ± 1.29	n = 12	Beckman Coulter AU Chemistry System
1.7 ± 0.54	904.9 ± 117.06	1.8 ± 0.49	242.8 ± 7.85	24.4 ± 1.26	n = 9	Ortho Vitros 5,1FS
0.6 ± 0.71	995.9 ± 20.37	1.0 ± 0.59	243.4 ± 4.19	24.3 ± 0.85	n = 6	Roche cobas c501
1.7 ± 0.51	928.1 ± 40.29	2.0 ± 0.78	247.2 ± 6.26	24.5 ± 1.12	n = 20	Roche Cobas INTEGRA
0.6 ± 0.56	928.9 ± 127.68	0.8 ± 0.47	252.4 ± 5.63	25.2 ± 0.41	n = 8	Roche MODULAR D/P
5.6 ± 10.24	982.1 ± 22.22	5.6 ± 10.24	248.3 ± 4.06	24.3 ± 0.51	n = 3	Siemens ADVIA 1800
0.4 ± 0.65	957.0 ± 31.51	0.8 ± 0.89	245.2 ± 5.47	23.4 ± 1.23	n = 21	Siemens ADVIA 2400
1.0 ± 0.00	864.6 ± 24.00	1.0 ± 0.00	234.5 ± 5.80	21.9 ± 0.85	n = 8	Siemens Dimension
						Siemens Dimension Vista
1.0 ± 0.00	955.5 ± 83.59	1.0 ± 0.00	244.8 ± 1.96	24.0 ± 0.00	n = 4	<Reagents>
3.6 ± 1.46	962.3 ± 26.52	3.3 ± 1.47	243.7 ± 4.45	24.1 ± 1.23	n = 27	Abbott
5.8 ± 5.07	919.1 ± 33.39	5.9 ± 4.94	241.5 ± 3.89	23.9 ± 0.49	n = 10	Beckman Coulter
20.0 ± 0.00	985.5 ± 15.78	20.0 ± 0.00	266.5 ± 3.77	26.1 ± 1.26	n = 13	Beckman Coulter AU Series
1.7 ± 0.54	904.9 ± 117.06	1.8 ± 0.49	242.8 ± 7.85	24.4 ± 1.26	n = 9	Ortho Clinical Diagnostics
1.8 ± 0.49	928.6 ± 39.10	2.0 ± 0.74	247.2 ± 5.77	24.6 ± 1.07	n = 21	Roche cobas c501
0.6 ± 0.71	995.9 ± 20.37	1.0 ± 0.59	243.4 ± 4.19	24.3 ± 0.85	n = 6	Roche Hitachi and Modular D/P
0.6 ± 0.56	968.2 ± 18.10	0.7 ± 0.51	251.7 ± 4.90	25.0 ± 0.47	n = 14	Roche Integra and MIRA
0.6 ± 0.64	937.8 ± 50.88	0.8 ± 0.66	243.4 ± 6.66	23.0 ± 1.32	n = 28	Siemens ADVIA/ADVIA Centaur
						Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Magnesium

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
10.84 ± 0.70	3.04 ± 0.19	5.06 ± 0.28	5.89 ± 0.30	9.02 ± 0.44	n = 124	All Methods & Instruments
11.29 ± 0.44	3.07 ± 0.10	5.12 ± 0.20	6.06 ± 0.27	9.18 ± 0.28	n = 27	<Method Principles> Calmagite
10.73 ± 0.40	3.06 ± 0.14	5.16 ± 0.17	5.85 ± 0.24	9.09 ± 0.30	n = 28	Methylthymol blue
10.97 ± 0.71	3.06 ± 0.32	5.07 ± 0.31	5.89 ± 0.28	8.90 ± 0.42	n = 43	Xylidyl blue (Magon)
9.42 ± 0.72	1.20 ± 0.00	4.28 ± 0.53	3.21 ± 0.90	9.42 ± 0.44	n = 7	Formazon dye
10.57 ± 0.60	2.99 ± 0.28	4.95 ± 0.22	5.66 ± 0.34	8.78 ± 0.50	n = 13	Chlorophosphonazo III
9.04 ± 0.47	2.50 ± 0.18	4.47 ± 0.05	4.22 ± 0.41	7.61 ± 0.29	n = 3	Arsenazo dye
10.07 ± 2.95	3.01 ± 0.27	5.22 ± 0.31	5.92 ± 0.13	8.80 ± 0.43	n = 4	<Instruments> Beckman Coulter CX
11.28 ± 0.55	3.11 ± 0.06	5.05 ± 0.08	6.14 ± 0.42	9.22 ± 0.23	n = 5	Beckman Coulter LX-20
11.58 ± 0.20	3.02 ± 0.05	5.45 ± 0.11	6.25 ± 0.28	9.48 ± 0.34	n = 3	Beckman Coulter UniCel DxC 600
11.37 ± 0.40	3.09 ± 0.08	5.13 ± 0.20	6.07 ± 0.19	9.20 ± 0.29	n = 13	Beckman Coulter UniCel DxC 800
10.43 ± 1.28	2.94 ± 0.08	4.93 ± 0.24	5.65 ± 0.86	8.75 ± 0.15	n = 8	Beckman Coulter AU Chemistry System
9.42 ± 0.72	1.20 ± 0.00	4.28 ± 0.53	3.21 ± 0.90	9.42 ± 0.44	n = 7	Ortho Vitros 5,1FS
10.27 ± 0.70	2.86 ± 0.28	4.71 ± 0.49	5.48 ± 0.37	8.67 ± 0.98	n = 7	Roche cobas c501
10.83 ± 0.26	3.12 ± 0.18	5.02 ± 0.07	5.82 ± 0.17	8.77 ± 0.30	n = 6	Roche Cobas INTEGRA
10.86 ± 0.68	3.09 ± 0.30	5.05 ± 0.29	5.88 ± 0.33	8.90 ± 0.40	n = 20	Roche MODULAR D/P
7.68 ± 5.34	2.18 ± 1.41	3.59 ± 2.48	4.17 ± 2.89	6.33 ± 4.52	n = 3	Siemens ADVIA 1650
11.22 ± 0.57	3.13 ± 0.57	5.21 ± 0.53	6.04 ± 0.65	9.16 ± 0.50	n = 8	Siemens ADVIA 1800
11.23 ± 0.43	3.25 ± 0.14	5.15 ± 0.09	6.14 ± 0.26	9.12 ± 0.21	n = 3	Siemens ADVIA 2400
10.62 ± 0.35	3.02 ± 0.07	5.11 ± 0.15	5.79 ± 0.21	9.03 ± 0.29	n = 21	Siemens Dimension
10.93 ± 0.35	3.26 ± 0.09	5.34 ± 0.25	6.03 ± 0.18	9.25 ± 0.30	n = 8	Siemens Dimension Vista
11.36 ± 0.40	3.07 ± 0.09	5.15 ± 0.22	6.08 ± 0.26	9.19 ± 0.31	n = 25	<Reagents> Beckman Coulter
10.90 ± 0.62	2.95 ± 0.06	4.99 ± 0.15	5.97 ± 0.21	8.75 ± 0.15	n = 7	Beckman Coulter AU Series
9.42 ± 0.72	1.20 ± 0.00	4.28 ± 0.53	3.21 ± 0.90	9.42 ± 0.44	n = 7	Ortho Clinical Diagnostics
10.40 ± 0.71	2.90 ± 0.30	4.69 ± 0.61	5.53 ± 0.39	8.64 ± 1.16	n = 6	Roche cobas c501
10.79 ± 0.67	3.05 ± 0.28	5.04 ± 0.29	5.85 ± 0.33	8.87 ± 0.38	n = 23	Roche Hitachi and Modular D/P
10.83 ± 0.26	3.12 ± 0.18	5.02 ± 0.07	5.82 ± 0.17	8.77 ± 0.30	n = 6	Roche Integra and MIRA
11.20 ± 0.66	3.16 ± 0.45	5.18 ± 0.46	6.02 ± 0.51	9.15 ± 0.50	n = 15	Siemens ADVIA/ADVIA Centaur
10.71 ± 0.37	3.06 ± 0.13	5.15 ± 0.19	5.85 ± 0.23	9.09 ± 0.30	n = 29	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Sodium

Specimen: U76	Specimen: U77	Specimen: U78	Specimen: U79	Specimen: U80	Number	Instrument or Reagent System
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117.3 ± 4.42	142.5 ± 3.04	100.0 ± 1.73	48.9 ± 2.84	209.6 ± 5.00	n = 221	All Methods & Instruments
						<Method Principles>
117.0 ± 4.56	142.3 ± 3.00	100.0 ± 1.65	49.1 ± 2.66	208.8 ± 4.35	n = 186	Ion selective electrode (diluted)
118.8 ± 3.00	143.9 ± 2.65	100.2 ± 1.83	47.6 ± 3.48	214.9 ± 6.50	n = 33	Ion selective electrode (undiluted)
						<Instruments>
117.8 ± 0.41	139.9 ± 1.83	96.8 ± 1.55	48.8 ± 1.78	205.8 ± 4.56	n = 5	Abbott Architect
121.4 ± 5.08	143.8 ± 2.06	101.0 ± 3.00	50.8 ± 2.54	208.3 ± 4.57	n = 8	Beckman Coulter CX
117.6 ± 1.52	142.4 ± 2.29	99.8 ± 1.96	48.5 ± 1.71	207.0 ± 3.28	n = 13	Beckman Coulter LX-20
118.9 ± 0.62	142.2 ± 1.31	100.2 ± 0.76	49.3 ± 1.37	205.7 ± 2.84	n = 11	Beckman Coulter UniCel DxC 600
118.4 ± 2.10	142.5 ± 1.38	100.2 ± 1.32	49.4 ± 1.52	207.7 ± 2.59	n = 19	Beckman Coulter UniCel DxC 800
121.7 ± 1.12	144.3 ± 1.33	100.2 ± 0.82	52.0 ± 0.96	212.3 ± 2.74	n = 19	Beckman Coulter AU Chemistry System
118.4 ± 3.20	144.9 ± 4.19	100.1 ± 3.18	44.6 ± 2.62	219.0 ± 4.91	n = 18	Ortho Vitros 5,1FS
117.2 ± 1.72	141.7 ± 1.03	98.2 ± 1.42	49.8 ± 1.22	209.0 ± 1.50	n = 11	Roche cobas c501
119.0 ± 2.75	148.3 ± 2.53	107.1 ± 3.95	50.8 ± 3.22	214.9 ± 2.23	n = 9	Roche Cobas INTEGRA
119.5 ± 1.23	144.2 ± 1.38	100.1 ± 1.26	50.0 ± 1.68	210.6 ± 1.90	n = 26	Roche MODULAR D/P
121.3 ± 0.51	143.6 ± 1.02	100.3 ± 0.51	52.6 ± 1.02	209.0 ± 2.70	n = 3	Siemens ADVIA 1650
120.4 ± 1.11	144.8 ± 1.09	100.7 ± 0.98	51.5 ± 0.62	213.4 ± 1.30	n = 12	Siemens ADVIA 1800
118.7 ± 0.51	142.7 ± 2.26	99.7 ± 0.51	50.4 ± 1.02	212.3 ± 3.16	n = 3	Siemens ADVIA 2400
112.2 ± 1.37	140.2 ± 1.88	100.1 ± 1.45	47.1 ± 1.29	206.3 ± 2.71	n = 22	Siemens Dimension
111.7 ± 1.43	139.7 ± 1.73	100.1 ± 1.41	47.1 ± 1.05	205.5 ± 2.91	n = 28	Siemens Dimension QuikLYTE
106.5 ± 1.73	137.5 ± 1.16	98.2 ± 1.40	43.8 ± 2.08	207.4 ± 1.26	n = 9	Siemens Dimension Vista
						<Reagents>
117.8 ± 0.41	139.9 ± 1.83	96.8 ± 1.55	48.8 ± 1.78	205.8 ± 4.56	n = 5	Abbott
118.2 ± 2.22	142.5 ± 1.84	100.2 ± 1.63	49.3 ± 1.84	207.3 ± 3.45	n = 49	Beckman Coulter
121.6 ± 1.09	144.4 ± 1.22	100.3 ± 0.85	51.9 ± 0.84	212.5 ± 2.44	n = 18	Beckman Coulter AU Series
118.5 ± 3.06	144.9 ± 4.02	100.3 ± 3.11	44.7 ± 2.54	218.9 ± 4.78	n = 19	Ortho Clinical Diagnostics
117.4 ± 1.57	141.8 ± 1.04	98.3 ± 1.40	49.9 ± 1.24	209.1 ± 1.57	n = 10	Roche cobas c501
119.3 ± 1.42	144.1 ± 1.46	100.0 ± 1.32	49.8 ± 1.69	210.7 ± 2.23	n = 28	Roche Hitachi and Modular D/P
119.0 ± 2.75	148.3 ± 2.53	107.1 ± 3.95	50.8 ± 3.22	214.9 ± 2.23	n = 9	Roche Integra and MIRA
120.4 ± 1.26	144.5 ± 1.27	100.4 ± 0.87	51.5 ± 0.85	213.0 ± 2.67	n = 19	Siemens ADVIA/ADVIA Centaur
111.5 ± 2.07	139.6 ± 2.02	99.9 ± 1.59	46.9 ± 1.44	206.1 ± 2.67	n = 58	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Phosphorus

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
128.23 ± 6.95	99.71 ± 5.04	70.58 ± 3.97	156.86 ± 10.11	52.83 ± 2.81	n = 158	All Methods & Instruments
<Method Principles>						
126.44 ± 5.33	98.46 ± 3.95	69.31 ± 2.99	154.06 ± 7.10	52.09 ± 2.01	n = 83	Phosphomolybdate - no reduction
133.19 ± 10.30	104.72 ± 7.62	73.78 ± 4.44	162.58 ± 11.48	55.02 ± 3.32	n = 41	Phosphomolybdate reduction (PMA phe
136.04 ± 11.47	102.03 ± 3.70	71.29 ± 3.09	162.42 ± 13.01	53.32 ± 1.58	n = 3	Phosphomolybdate reduction - ascorbic/malon
131.15 ± 5.76	100.56 ± 3.57	71.37 ± 3.38	160.09 ± 8.29	53.33 ± 2.55	n = 16	Phosphomolybdate reduction - other
126.36 ± 5.34	98.21 ± 4.44	70.41 ± 4.00	154.48 ± 10.25	52.03 ± 2.93	n = 11	Other
<Instruments>						
127.49 ± 2.04	98.21 ± 1.38	69.81 ± 0.61	153.88 ± 1.52	52.00 ± 0.36	n = 3	Abbott Architect
121.18 ± 35.97	98.31 ± 10.17	70.87 ± 3.76	165.41 ± 23.81	52.65 ± 3.09	n = 4	Beckman Coulter CX
123.31 ± 10.40	97.95 ± 6.30	68.82 ± 5.38	157.69 ± 12.73	51.89 ± 1.85	n = 8	Beckman Coulter LX-20
130.13 ± 6.71	101.13 ± 3.25	70.31 ± 2.26	160.29 ± 5.48	53.79 ± 1.13	n = 5	Beckman Coulter UniCel Dx C 600
129.57 ± 4.25	100.13 ± 3.72	70.58 ± 1.78	157.19 ± 6.17	53.57 ± 1.41	n = 13	Beckman Coulter UniCel Dx C 800
127.67 ± 4.77	98.81 ± 1.84	69.13 ± 1.88	155.07 ± 5.47	51.26 ± 0.97	n = 15	Beckman Coulter AU Chemistry System
135.70 ± 6.26	104.88 ± 4.02	73.85 ± 2.37	167.08 ± 8.45	55.83 ± 1.38	n = 11	Ortho Vitros 5,1FS
124.82 ± 4.44	97.64 ± 2.77	69.99 ± 2.73	151.88 ± 4.19	51.72 ± 1.60	n = 10	Roche cobas c501
129.11 ± 2.48	99.25 ± 1.56	70.00 ± 1.84	156.29 ± 2.52	52.15 ± 1.26	n = 6	Roche Cobas INTEGRA
123.38 ± 4.48	96.04 ± 3.42	67.32 ± 2.42	150.96 ± 5.38	50.74 ± 1.96	n = 24	Roche MODULAR D/P
132.50 ± 13.04	104.88 ± 8.62	73.28 ± 3.48	161.71 ± 11.32	53.82 ± 3.86	n = 3	Siemens ADVIA 1650
130.46 ± 3.85	100.10 ± 2.88	70.35 ± 2.42	158.52 ± 7.42	52.89 ± 1.43	n = 10	Siemens ADVIA 1800
116.87 ± 13.38	94.49 ± 4.43	66.06 ± 3.63	151.85 ± 2.98	49.77 ± 1.32	n = 3	Siemens ADVIA 2400
133.74 ± 10.77	106.83 ± 9.23	75.75 ± 3.55	165.33 ± 11.42	56.23 ± 2.44	n = 27	Siemens Dimension
126.38 ± 4.33	100.10 ± 3.17	69.03 ± 2.41	148.72 ± 8.25	50.70 ± 0.91	n = 10	Siemens Dimension Vista
<Reagents>						
127.49 ± 2.04	98.21 ± 1.38	69.81 ± 0.61	153.88 ± 1.52	52.00 ± 0.36	n = 3	Abbott
128.80 ± 5.91	100.15 ± 4.83	70.32 ± 3.09	158.35 ± 9.05	53.34 ± 1.48	n = 29	Beckman Coulter
127.83 ± 4.34	98.81 ± 1.84	69.14 ± 1.80	155.09 ± 5.45	51.26 ± 0.97	n = 14	Beckman Coulter AU Series
135.55 ± 5.52	104.59 ± 3.81	73.60 ± 2.39	167.02 ± 7.80	55.63 ± 1.53	n = 12	Ortho Clinical Diagnostics
124.94 ± 4.77	97.57 ± 2.99	69.96 ± 2.94	151.70 ± 4.51	51.66 ± 1.72	n = 9	Roche cobas c501
123.70 ± 4.61	96.30 ± 3.50	67.45 ± 2.49	151.15 ± 5.34	50.85 ± 2.05	n = 27	Roche Hitachi and Modular D/P
129.11 ± 2.48	99.25 ± 1.56	70.00 ± 1.84	156.29 ± 2.52	52.15 ± 1.26	n = 6	Roche Integra and MIRA
129.07 ± 6.09	99.46 ± 3.46	70.32 ± 3.04	157.21 ± 7.83	52.47 ± 2.06	n = 17	Siemens ADVIA/ADVIA Centaur
131.18 ± 9.56	103.92 ± 8.34	73.95 ± 4.58	161.15 ± 13.46	54.84 ± 3.41	n = 37	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Potassium

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
73.16 ± 3.90	36.11 ± 1.24	24.76 ± 0.68	79.88 ± 4.86	17.19 ± 0.57	n = 220	All Methods & Instruments
72.68 ± 3.55	35.97 ± 1.19	24.71 ± 0.68	79.24 ± 4.61	17.22 ± 0.56	n = 186	<Method Principles> Ion selective electrode (diluted)
76.19 ± 4.35	36.84 ± 1.09	24.98 ± 0.60	83.35 ± 4.37	16.97 ± 0.57	n = 33	Ion selective electrode (undiluted)
73.12 ± 1.36	35.83 ± 0.49	24.55 ± 0.22	80.41 ± 1.85	17.11 ± 0.22	n = 5	<Instruments> Abbott Architect
75.81 ± 2.65	36.94 ± 0.69	25.16 ± 0.56	82.37 ± 2.20	17.72 ± 0.30	n = 8	Beckman Coulter CX
72.06 ± 0.79	35.61 ± 0.42	24.36 ± 0.41	78.13 ± 0.67	17.40 ± 0.31	n = 13	Beckman Coulter LX-20
71.72 ± 0.97	35.69 ± 0.28	24.51 ± 0.18	78.36 ± 1.09	17.36 ± 0.16	n = 11	Beckman Coulter UniCel DxC 600
72.40 ± 2.08	35.84 ± 0.56	24.56 ± 0.46	78.21 ± 1.82	17.56 ± 0.35	n = 19	Beckman Coulter UniCel DxC 800
76.99 ± 0.71	37.12 ± 0.53	25.27 ± 0.46	84.90 ± 1.09	17.69 ± 0.47	n = 19	Beckman Coulter AU Chemistry System
79.66 ± 1.95	37.55 ± 0.75	25.42 ± 0.65	87.12 ± 1.59	16.62 ± 0.36	n = 18	Ortho Vitros 5,1FS
73.37 ± 1.71	35.99 ± 0.47	24.81 ± 0.26	80.66 ± 2.11	17.05 ± 0.09	n = 11	Roche cobas c501
74.03 ± 1.84	36.84 ± 0.73	25.53 ± 0.40	81.30 ± 2.10	17.31 ± 0.41	n = 9	Roche Cobas INTEGRA
74.48 ± 2.86	37.17 ± 1.29	25.21 ± 0.57	81.28 ± 5.78	17.37 ± 0.39	n = 26	Roche MODULAR D/P
76.10 ± 1.37	36.14 ± 1.02	24.81 ± 0.52	84.83 ± 0.95	16.92 ± 0.41	n = 3	Siemens ADVIA 1650
75.52 ± 0.77	36.89 ± 0.39	25.02 ± 0.16	82.92 ± 0.75	17.83 ± 0.27	n = 12	Siemens ADVIA 1800
74.79 ± 1.38	36.08 ± 0.15	24.72 ± 0.51	82.14 ± 0.91	17.40 ± 0.46	n = 3	Siemens ADVIA 2400
69.57 ± 1.66	35.01 ± 0.72	24.30 ± 0.44	75.96 ± 1.99	16.70 ± 0.25	n = 23	Siemens Dimension
68.65 ± 1.32	34.76 ± 0.55	24.10 ± 0.40	74.82 ± 1.81	16.62 ± 0.39	n = 27	Siemens Dimension QuikLYTE
70.76 ± 3.31	35.60 ± 0.81	24.33 ± 0.49	74.59 ± 3.07	17.25 ± 0.40	n = 9	Siemens Dimension Vista
73.12 ± 1.36	35.83 ± 0.49	24.55 ± 0.22	80.41 ± 1.85	17.11 ± 0.22	n = 5	<Reagents> Abbott
72.24 ± 1.69	35.83 ± 0.59	24.57 ± 0.47	78.55 ± 1.99	17.49 ± 0.33	n = 50	Beckman Coulter
76.99 ± 0.71	37.12 ± 0.53	25.31 ± 0.42	84.90 ± 1.08	17.75 ± 0.39	n = 18	Beckman Coulter AU Series
79.51 ± 2.00	37.48 ± 0.78	25.37 ± 0.68	86.96 ± 1.72	16.58 ± 0.39	n = 19	Ortho Clinical Diagnostics
73.14 ± 1.53	35.93 ± 0.35	24.78 ± 0.26	80.43 ± 1.73	17.05 ± 0.10	n = 10	Roche cobas c501
74.55 ± 3.07	37.17 ± 1.28	25.23 ± 0.57	81.48 ± 5.61	17.36 ± 0.41	n = 29	Roche Hitachi and Modular D/P
74.33 ± 1.56	36.96 ± 0.71	25.60 ± 0.37	81.63 ± 1.75	17.37 ± 0.41	n = 8	Roche Integra and MIRA
75.50 ± 0.91	36.71 ± 0.53	25.00 ± 0.00	83.01 ± 1.11	17.63 ± 0.45	n = 19	Siemens ADVIA/ADVIA Centaur
69.15 ± 1.79	34.95 ± 0.71	24.21 ± 0.45	75.29 ± 2.13	16.71 ± 0.39	n = 58	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Total Protein

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
194.48 ± 8.55	15.25 ± 2.84	9.89 ± 2.37	25.02 ± 3.81	5.91 ± 1.79	n = 219	All Methods & Instruments
193.74 ± 7.10	15.59 ± 2.88	10.07 ± 2.48	25.58 ± 3.80	6.03 ± 1.87	n = 116	<Method Principles> Biuret (alkaline cupric sulfate)
246.52 ± 47.47	13.73 ± 2.34	9.95 ± 2.81	26.40 ± 5.02	6.03 ± 0.93	n = 5	Refractometry
193.47 ± 3.91	17.33 ± 1.73	11.45 ± 1.77	22.28 ± 1.14	5.11 ± 1.00	n = 18	Refractometry
195.67 ± 10.24	14.43 ± 2.50	9.10 ± 1.94	24.99 ± 3.56	6.17 ± 1.94	n = 62	Refractometry
207.63 ± 53.67	14.55 ± 2.91	10.16 ± 2.21	25.10 ± 4.55	5.55 ± 1.72	n = 18	Other
194.31 ± 1.19	18.67 ± 0.56	13.77 ± 0.76	23.15 ± 0.32	6.79 ± 0.19	n = 6	<Instruments> Abbott Architect
201.08 ± 9.92	14.00 ± 1.50	8.15 ± 0.41	27.55 ± 1.23	5.50 ± 0.57	n = 4	Beckman Coulter CX
200.57 ± 18.69	12.40 ± 1.52	7.45 ± 1.55	26.14 ± 0.90	5.22 ± 0.87	n = 13	Beckman Coulter LX-20
190.48 ± 36.85	13.00 ± 1.82	7.86 ± 1.14	27.29 ± 1.34	5.33 ± 0.67	n = 10	Beckman Coulter UniCel DxC 600
203.83 ± 18.44	13.57 ± 1.49	8.24 ± 0.83	27.18 ± 1.16	5.58 ± 0.75	n = 15	Beckman Coulter UniCel DxC 800
196.70 ± 6.16	13.87 ± 1.93	8.90 ± 1.28	22.72 ± 1.15	5.45 ± 0.73	n = 23	Beckman Coulter AU Chemistry System
286.64 ± 43.82	13.90 ± 1.36	12.44 ± 1.14	28.58 ± 4.48	5.51 ± 1.08	n = 17	Ortho Vitros 5,1FS
231.45 ± 55.11	14.60 ± 0.46	10.35 ± 1.92	24.80 ± 5.85	5.64 ± 0.47	n = 3	Other
198.11 ± 3.83	13.78 ± 2.85	8.70 ± 3.28	21.53 ± 1.46	4.00 ± 0.00	n = 10	Roche cobas c501
194.76 ± 2.99	18.97 ± 0.55	12.36 ± 1.10	22.93 ± 0.79	5.04 ± 1.07	n = 12	Roche Cobas INTEGRA
190.64 ± 4.82	15.80 ± 2.94	10.22 ± 2.59	21.37 ± 0.96	5.01 ± 1.24	n = 28	Roche MODULAR D/P
192.97 ± 16.16	15.47 ± 1.05	9.50 ± 0.45	22.03 ± 0.95	5.34 ± 0.61	n = 3	Siemens ADVIA 1650
186.22 ± 4.89	15.23 ± 0.77	9.40 ± 1.06	22.02 ± 0.83	5.21 ± 0.34	n = 12	Siemens ADVIA 1800
188.74 ± 5.86	14.72 ± 0.51	10.05 ± 0.81	21.28 ± 0.51	4.56 ± 1.02	n = 3	Siemens ADVIA 2400
195.09 ± 4.06	16.94 ± 1.76	10.32 ± 1.32	28.03 ± 0.99	8.62 ± 0.97	n = 44	Siemens Dimension
194.36 ± 4.49	18.84 ± 2.12	12.28 ± 1.11	28.77 ± 1.77	10.86 ± 2.52	n = 11	Siemens Dimension Vista
194.31 ± 1.19	18.67 ± 0.56	13.77 ± 0.76	23.15 ± 0.32	6.79 ± 0.19	n = 6	<Reagents> Abbott
200.13 ± 21.51	13.12 ± 1.68	7.91 ± 1.11	26.88 ± 1.32	5.38 ± 0.68	n = 41	Beckman Coulter
196.21 ± 5.45	14.10 ± 1.64	9.02 ± 1.16	22.70 ± 1.18	5.41 ± 0.73	n = 21	Beckman Coulter AU Series
305.48 ± 16.41	14.02 ± 1.08	12.60 ± 0.67	30.63 ± 1.71	5.93 ± 0.66	n = 16	Ortho Clinical Diagnostics
203.15 ± 13.65	15.22 ± 0.85	10.14 ± 0.96	22.95 ± 2.63	5.89 ± 1.63	n = 4	Other
207.17 ± 3.40	11.90 ± 2.75	6.80 ± 2.24	20.08 ± 0.38	4.17 ± 0.55	n = 6	Pointe Scientific
197.49 ± 3.85	14.29 ± 3.22	9.53 ± 3.61	21.84 ± 1.03	4.00 ± 0.00	n = 7	Roche cobas c501
191.06 ± 3.82	16.80 ± 1.28	10.89 ± 1.75	21.39 ± 0.90	5.01 ± 1.13	n = 26	Roche Hitachi and Modular D/P
194.76 ± 2.99	18.97 ± 0.55	12.36 ± 1.10	22.93 ± 0.79	5.04 ± 1.07	n = 12	Roche Integra and MIRA
186.68 ± 5.37	15.09 ± 0.85	9.44 ± 1.10	21.74 ± 0.84	5.11 ± 0.53	n = 18	Siemens ADVIA/ADVIA Centaur
195.03 ± 4.18	17.26 ± 1.98	10.64 ± 1.57	28.15 ± 1.10	8.83 ± 1.31	n = 54	Siemens Dimension/Stratus
182.18 ± 9.64	11.87 ± 1.88	6.65 ± 1.58	17.17 ± 2.11	3.65 ± 1.58	n = 4	Wako Chemicals

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Summary of Participant Performance (Mean and Standard Deviation)

Uric Acid

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
43.59 ± 2.25	23.10 ± 2.53	9.60 ± 1.51	38.66 ± 2.25	12.48 ± 2.05	n = 160	All Methods & Instruments
43.63 ± 2.54	24.12 ± 1.99	9.93 ± 2.12	39.06 ± 2.08	13.14 ± 2.82	n = 14	<Method Principles>
43.47 ± 2.70	22.75 ± 3.08	9.81 ± 1.45	38.53 ± 2.85	12.67 ± 2.40	n = 53	Uricase (NAD-NADH reaction)
43.68 ± 1.91	23.12 ± 2.31	9.47 ± 1.45	38.74 ± 1.93	12.35 ± 1.65	n = 88	Uricase/allantoin (differential abs
42.94 ± 2.59	22.59 ± 1.50	8.72 ± 0.86	37.53 ± 2.44	11.63 ± 1.61	n = 5	Uricase/peroxidase (colorimetric)
						Other
						<Instruments>
43.34 ± 0.18	23.45 ± 0.60	9.34 ± 0.69	38.05 ± 0.98	12.87 ± 0.49	n = 4	Abbott Architect
36.53 ± 16.47	25.01 ± 2.07	10.52 ± 1.77	40.05 ± 1.51	14.32 ± 1.59	n = 6	Beckman Coulter CX
43.81 ± 1.61	20.56 ± 5.64	9.86 ± 1.85	39.03 ± 1.48	12.40 ± 1.15	n = 9	Beckman Coulter LX-20
45.76 ± 0.85	26.11 ± 1.25	11.91 ± 0.79	41.75 ± 0.65	13.32 ± 0.61	n = 4	Beckman Coulter UniCel DxC 600
45.13 ± 1.01	25.17 ± 1.06	11.31 ± 0.49	40.14 ± 1.01	14.09 ± 1.08	n = 14	Beckman Coulter UniCel DxC 800
43.87 ± 1.54	23.03 ± 1.64	9.03 ± 0.17	38.84 ± 1.28	13.35 ± 2.26	n = 15	Beckman Coulter AU Chemistry System
43.88 ± 1.10	23.05 ± 0.94	9.59 ± 0.47	38.77 ± 1.03	11.97 ± 1.11	n = 11	Ortho Vitros 5,1FS
43.17 ± 1.29	21.87 ± 2.25	8.58 ± 0.74	37.30 ± 1.53	11.44 ± 1.32	n = 9	Roche cobas c501
43.87 ± 1.73	23.26 ± 1.30	9.11 ± 0.59	38.78 ± 0.32	11.41 ± 1.31	n = 7	Roche Cobas INTEGRA
41.01 ± 1.33	21.62 ± 1.00	8.13 ± 0.81	35.91 ± 1.44	10.48 ± 1.58	n = 23	Roche MODULAR D/P
45.74 ± 1.64	24.42 ± 2.31	10.43 ± 1.31	40.22 ± 1.40	12.49 ± 1.56	n = 3	Siemens ADVIA 1650
44.04 ± 1.41	23.72 ± 1.25	10.06 ± 0.14	39.46 ± 1.11	13.00 ± 0.85	n = 10	Siemens ADVIA 1800
46.06 ± 2.92	23.64 ± 0.91	12.21 ± 4.56	39.56 ± 0.90	12.31 ± 1.29	n = 3	Siemens ADVIA 2400
44.36 ± 2.91	24.11 ± 2.54	10.51 ± 1.38	39.90 ± 3.32	13.56 ± 2.50	n = 27	Siemens Dimension
42.45 ± 2.58	21.20 ± 3.29	10.09 ± 0.68	37.19 ± 2.30	12.56 ± 2.29	n = 10	Siemens Dimension Vista
						<Reagents>
43.34 ± 0.18	23.45 ± 0.60	9.34 ± 0.69	38.05 ± 0.98	12.87 ± 0.49	n = 4	Abbott
44.91 ± 1.24	24.76 ± 1.93	10.96 ± 1.24	40.09 ± 1.33	13.64 ± 1.47	n = 33	Beckman Coulter
43.63 ± 1.39	21.71 ± 3.31	9.01 ± 0.12	38.73 ± 1.21	13.02 ± 2.21	n = 13	Beckman Coulter AU Series
43.76 ± 1.10	23.05 ± 0.95	9.52 ± 0.62	38.74 ± 0.96	11.68 ± 1.47	n = 12	Ortho Clinical Diagnostics
42.97 ± 1.34	21.52 ± 2.15	8.49 ± 0.58	37.03 ± 1.33	11.24 ± 1.29	n = 8	Roche cobas c501
41.22 ± 1.62	21.77 ± 1.07	8.30 ± 0.80	36.22 ± 1.69	10.72 ± 1.54	n = 28	Roche Hitachi and Modular D/P
43.81 ± 1.91	23.28 ± 1.44	9.10 ± 0.65	38.78 ± 0.37	11.64 ± 1.36	n = 6	Roche Integra and MIRA
44.54 ± 1.67	23.99 ± 1.41	9.96 ± 0.50	39.68 ± 1.03	12.94 ± 0.97	n = 16	Siemens ADVIA/ADVIA Centaur
43.71 ± 2.91	23.39 ± 3.07	10.40 ± 1.29	38.98 ± 3.26	13.36 ± 2.46	n = 36	Siemens Dimension/Stratus

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Summary of Participant Performance (Mean and Standard Deviation)

Urea Nitrogen

Specimen: U76 -----	Specimen: U77 -----	Specimen: U78 -----	Specimen: U79 -----	Specimen: U80 -----	Number -----	Instrument or Reagent System -----
1152.2 ± 59.85	965.4 ± 48.66	729.4 ± 35.16	821.4 ± 39.84	1356.8 ± 71.64	n = 165	All Methods & Instruments
1146.8 ± 64.75	963.4 ± 50.90	731.2 ± 37.03	821.0 ± 41.87	1347.9 ± 74.89	n = 127	<Method Principles>
1157.9 ± 37.90	970.1 ± 43.78	733.0 ± 27.48	828.2 ± 28.90	1357.3 ± 38.57	n = 22	Urease w/glutamate dehydrogenase
1168.6 ± 19.86	961.8 ± 29.65	704.8 ± 23.17	802.9 ± 24.59	1404.5 ± 32.45	n = 12	Urease, conductivity rate
1222.7 ± 29.30	1017.3 ± 25.69	754.0 ± 21.29	851.4 ± 29.33	1411.1 ± 14.88	n = 3	Urease with indicator dye
						Other
						<Instruments>
1107.9 ± 15.48	928.9 ± 8.17	699.4 ± 9.41	794.7 ± 11.01	1295.0 ± 18.72	n = 4	Abbott Architect
1056.8 ± 258.67	934.9 ± 96.50	735.1 ± 33.19	821.7 ± 38.64	1390.2 ± 240.63	n = 4	Beckman Coulter CX
1156.2 ± 33.83	958.4 ± 46.91	736.7 ± 25.11	825.7 ± 17.90	1345.5 ± 61.19	n = 8	Beckman Coulter LX-20
1178.2 ± 60.69	972.4 ± 21.43	716.7 ± 27.13	819.9 ± 24.85	1399.2 ± 54.48	n = 6	Beckman Coulter UniCel DxC 600
1161.5 ± 32.29	971.7 ± 27.47	725.5 ± 22.56	826.7 ± 27.12	1351.9 ± 26.74	n = 15	Beckman Coulter UniCel DxC 800
1116.6 ± 24.93	945.0 ± 22.02	723.2 ± 15.56	804.0 ± 14.24	1305.5 ± 49.11	n = 20	Beckman Coulter AU Chemistry System
1174.9 ± 25.32	969.9 ± 26.65	710.0 ± 24.77	810.1 ± 24.03	1410.3 ± 35.85	n = 11	Ortho Vitros 5,1FS
1133.1 ± 47.50	964.0 ± 30.83	720.6 ± 22.33	806.5 ± 10.50	1344.0 ± 48.21	n = 10	Roche cobas c501
1188.0 ± 9.35	1011.7 ± 15.16	755.7 ± 4.65	853.7 ± 13.92	1406.8 ± 23.69	n = 6	Roche Cobas INTEGRA
1113.2 ± 48.43	936.3 ± 35.46	709.5 ± 22.30	795.5 ± 28.79	1304.0 ± 45.37	n = 23	Roche MODULAR D/P
1207.3 ± 48.21	1017.8 ± 33.29	771.7 ± 22.88	866.3 ± 27.57	1426.0 ± 47.53	n = 9	Siemens ADVIA 1800
1151.0 ± 85.44	961.2 ± 76.82	741.4 ± 22.74	849.6 ± 36.93	1319.1 ± 165.10	n = 3	Siemens ADVIA 2400
1211.1 ± 65.97	1015.7 ± 52.45	775.6 ± 38.76	867.0 ± 40.44	1412.1 ± 68.39	n = 27	Siemens Dimension
1113.5 ± 14.22	922.8 ± 21.45	707.1 ± 13.17	790.2 ± 16.70	1299.3 ± 36.30	n = 11	Siemens Dimension Vista
						<Reagents>
1107.9 ± 15.48	928.9 ± 8.17	699.4 ± 9.41	794.7 ± 11.01	1295.0 ± 18.72	n = 4	Abbott
1163.0 ± 42.13	968.2 ± 35.29	728.6 ± 27.15	823.4 ± 27.34	1366.8 ± 49.46	n = 32	Beckman Coulter
1116.6 ± 24.91	945.0 ± 22.01	723.2 ± 15.54	803.9 ± 14.23	1305.5 ± 49.06	n = 19	Beckman Coulter AU Series
1172.8 ± 27.05	964.3 ± 29.52	706.9 ± 23.30	805.1 ± 24.61	1407.3 ± 32.54	n = 13	Ortho Clinical Diagnostics
1139.9 ± 45.42	969.3 ± 25.73	723.1 ± 19.52	808.3 ± 10.50	1350.9 ± 43.04	n = 9	Roche cobas c501
1108.8 ± 46.65	933.9 ± 33.92	707.7 ± 21.10	793.9 ± 25.84	1301.1 ± 41.97	n = 25	Roche Hitachi and Modular D/P
1188.0 ± 9.35	1011.7 ± 15.16	755.7 ± 4.65	853.7 ± 13.92	1406.8 ± 23.69	n = 6	Roche Integra and MIRA
1193.6 ± 62.50	1007.5 ± 44.02	761.9 ± 25.58	856.7 ± 35.16	1406.1 ± 53.44	n = 16	Siemens ADVIA/ADVIA Centaur
1180.6 ± 75.27	988.8 ± 65.24	754.7 ± 48.97	844.7 ± 53.28	1378.7 ± 81.59	n = 37	Siemens Dimension/Stratus