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Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

Clinical Chemistry Proficiency Testing – January 23, 2012

Enclosed are results from the clinical chemistry proficiency survey shipped January 23, 2012. Test samples were prepared in-house by the quantitative transfer of constituents to pooled human serum. The material was subsequently sterile filtered, dispensed into aliquots and stored frozen at -80 ^{o}C. Five specimens (**C66, C67, C68, C69, C70**) were distributed to each participant for analysis.

Outlined below is a description of the process utilized in the evaluation of your laboratory's proficiency test results. A summary of your laboratory's performance for the three most recent surveys is also included with your report.

Target Value: In general, targets utilized are derived from all-participant mean values calculated by robust statistical technique. In some cases, however, it is recognized that method, reagent, and/or instrument specific targets may be required and "peer group" specific targets are used where appropriate. Should an alternate target be required to evaluate your laboratory's data, an asterisk will be placed adjacent to the method, reagent, and/or instrument listing(s) corresponding to the peer group utilized.

Acceptable Range: Represents limits established using criteria specified by CLIA '88 regulations, allowing for rounding to appropriate significant digits. Results falling within this range are scored as 100%. Any result exceeding these limits is considered unsatisfactory and receives a score of 0%. Laboratories must achieve an overall analyte score ≥80% in order to meet performance criteria for that analyte.

Range Plots: Plots relative distance of your laboratory's result (represented by an "x") from the target for each sample analyzed. Any result exceeding the high or low limit by >20% of the acceptable range is indicated by an asterisk (*).

Not Gradable: Results for graded analytes for a few laboratories using unique instrument, reagent, or instrument/reagent combinations were considered "not gradable". For these laboratories, pass credit (100%) has been issued. **If a laboratory is unable to participate in the NYS clinical chemistry proficiency test event as a graded participant for any analyte, it is the responsibility of that laboratory to establish alternate means to verify the accuracy and precision of the test system for any non-graded analyte(s).**

Troponin I, Troponin T, and Estimated Glomerular Filtration Rate: These analytes were included in the January 2012 test event for evaluation only. Although results were not graded, targets and acceptable ranges appropriate for your laboratory's methodology are provided.

The attached statistical report provides a summary of participant data for the five survey specimens. Results for individual instrument and reagent systems where the number of laboratories using those systems is three or greater are provided. Mean and Standard Deviation (1 SD) values shown are calculated by a robust statistical technique that does not assume a Gaussian distribution. These statistical reports are also available on the internet at: **http://www.wadsworth.org/chemheme**

Should you have any questions regarding these reports or wish to obtain an additional copy, please contact the Clinical Chemistry Section at (518) 474-5582.

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

Summary of Participant Performance (Mean and Standard Deviation)

Glucose (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
162.2 ± 3.62	75.0 ± 2.48	227.9 ± 5.55	274.5 ± 6.24	55.9 ± 1.95	n = 391	[---] All Methods & Instruments
						<Instruments>
163.0 ± 1.80	77.0 ± 0.90	227.0 ± 0.00	272.7 ± 2.26	59.0 ± 0.90	n = 3	[AXA] Abaxis Piccolo
159.8 ± 3.48	72.9 ± 1.77	227.2 ± 4.07	276.0 ± 5.78	54.2 ± 1.48	n = 16	[ABJ] Abbott Architect c System
161.1 ± 3.50	73.7 ± 2.03	228.0 ± 5.45	273.7 ± 6.39	55.8 ± 1.70	n = 53	[OLC] Beckman Coulter AU Chemistry System
161.1 ± 3.46	74.8 ± 2.37	225.7 ± 11.25	271.0 ± 12.38	53.9 ± 3.37	n = 8	[BCS] Beckman Coulter CX
162.7 ± 3.53	74.5 ± 0.57	228.8 ± 5.96	273.2 ± 5.65	55.3 ± 0.97	n = 6	[BCX] Beckman Coulter LX-20
162.4 ± 3.04	75.2 ± 1.81	230.0 ± 3.76	278.0 ± 5.08	56.0 ± 1.61	n = 21	[BCG] Beckman Coulter UniCel DxC 600
160.7 ± 1.88	73.9 ± 2.15	228.5 ± 4.32	273.2 ± 5.29	54.4 ± 2.52	n = 20	[BCH] Beckman Coulter UniCel DxC 800
177.7 ± 4.96	81.7 ± 1.37	244.6 ± 8.81	288.4 ± 9.11	71.5 ± 1.86	n = 3	[HEB] HemoCue B-Glucose
190.3 ± 2.26	94.0 ± 1.65	254.9 ± 4.67	301.8 ± 5.30	84.2 ± 1.46	n = 4	[HEC] HemoCue Glucose 201
166.0 ± 2.54	72.8 ± 0.73	234.6 ± 0.94	280.2 ± 1.93	52.5 ± 1.46	n = 6	[IAA] i-STAT
163.7 ± 4.05	75.9 ± 2.50	224.4 ± 5.11	275.5 ± 5.04	54.6 ± 2.11	n = 12	[JJE] Ortho Vitros 250/350/950
162.2 ± 3.13	77.0 ± 2.17	222.1 ± 4.38	272.8 ± 5.18	54.8 ± 1.56	n = 22	[JJF] Ortho Vitros 5,1FS
160.3 ± 4.29	77.0 ± 3.13	220.6 ± 5.49	270.9 ± 6.49	55.0 ± 2.24	n = 14	[JJG] Ortho Vitros 5600
163.3 ± 2.43	74.5 ± 1.51	229.4 ± 4.24	276.1 ± 4.24	56.2 ± 1.04	n = 18	[ROC] Roche cobas c501
160.7 ± 2.26	74.0 ± 0.90	226.0 ± 0.00	270.0 ± 1.80	54.7 ± 0.51	n = 3	[ROH] Roche cobas c701
162.7 ± 2.70	74.0 ± 0.96	231.6 ± 5.53	275.4 ± 5.36	56.6 ± 1.10	n = 7	[ROS] Roche Cobas INTEGRA 400
161.5 ± 2.25	73.5 ± 0.83	228.9 ± 2.61	272.0 ± 3.41	55.5 ± 0.83	n = 5	[ROT] Roche Cobas INTEGRA 800
162.1 ± 3.80	74.1 ± 1.67	229.5 ± 5.01	275.9 ± 5.37	56.3 ± 1.36	n = 35	[ROD] Roche MODULAR D/P
161.6 ± 2.01	74.1 ± 1.08	228.1 ± 3.05	274.4 ± 3.43	56.1 ± 0.89	n = 19	[BYE] Siemens ADVIA 1800
162.7 ± 1.37	75.3 ± 1.37	228.2 ± 3.23	276.4 ± 1.02	57.0 ± 1.80	n = 3	[BYB] Siemens ADVIA 2400
163.9 ± 3.02	77.4 ± 1.11	230.2 ± 5.33	275.9 ± 4.70	57.1 ± 1.08	n = 12	[DUE] Siemens Dimension EXL
164.9 ± 3.45	78.1 ± 1.86	229.9 ± 4.56	277.2 ± 5.14	58.0 ± 1.44	n = 27	[DUR] Siemens Dimension RxL
160.7 ± 3.54	75.2 ± 1.47	225.4 ± 6.00	269.2 ± 5.67	55.7 ± 1.53	n = 35	[DUT] Siemens Dimension Vista
163.2 ± 2.59	77.3 ± 1.78	228.3 ± 3.91	274.7 ± 3.98	56.7 ± 1.21	n = 22	[DUX] Siemens Dimension Xpand
						<Reagents>
163.0 ± 1.80	77.0 ± 0.90	227.0 ± 0.00	272.7 ± 2.26	59.0 ± 0.90	n = 3	[AX1] Abaxis
159.8 ± 3.48	72.9 ± 1.77	227.2 ± 4.07	276.0 ± 5.78	54.2 ± 1.48	n = 16	[AB1] Abbott
161.9 ± 2.98	74.6 ± 1.95	229.1 ± 4.43	275.3 ± 6.46	55.4 ± 2.07	n = 52	[BC1] Beckman Coulter
161.0 ± 3.60	73.5 ± 1.88	227.9 ± 5.59	273.6 ± 6.43	55.7 ± 1.64	n = 50	[OL1] Beckman Coulter AU Series
158.8 ± 6.73	73.8 ± 4.99	223.4 ± 8.28	270.0 ± 9.18	53.8 ± 4.19	n = 5	[CR1] Carolina
185.6 ± 7.55	89.0 ± 7.16	251.8 ± 7.55	297.2 ± 9.33	79.1 ± 7.16	n = 7	[HE1] HemoCue
166.0 ± 2.54	72.8 ± 0.73	234.6 ± 0.94	280.2 ± 1.93	52.5 ± 1.46	n = 6	[IA1] i-STAT
162.3 ± 4.21	76.7 ± 2.57	222.5 ± 5.34	273.2 ± 6.00	54.7 ± 1.95	n = 49	[JJ1] Ortho Clinical Diagnostics
162.9 ± 2.54	74.3 ± 1.43	228.6 ± 4.01	274.9 ± 4.66	55.9 ± 1.12	n = 22	[RO4] Roche cobas c311/c501/c502/c701
161.9 ± 4.05	74.0 ± 1.73	229.2 ± 5.29	275.6 ± 5.88	56.3 ± 1.43	n = 36	[RO2] Roche Hitachi and Modular D/P
162.2 ± 2.65	73.8 ± 0.94	230.1 ± 4.45	273.6 ± 4.73	56.1 ± 1.18	n = 12	[RO1] Roche Integra and MIRA
161.9 ± 1.90	74.2 ± 1.10	228.2 ± 3.02	275.0 ± 3.30	56.2 ± 1.02	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
162.9 ± 3.63	76.8 ± 2.08	228.1 ± 5.45	273.7 ± 6.33	56.8 ± 1.75	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Urea Nitrogen (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
70.7 ± 3.31	18.4 ± 1.29	23.0 ± 1.27	27.6 ± 1.59	11.0 ± 0.78	n = 374	[---] All Methods & Instruments
						<Instruments>
71.7 ± 0.51	17.7 ± 0.51	21.7 ± 0.51	26.0 ± 0.00	11.0 ± 0.00	n = 3	[AXA] Abaxis Piccolo
69.8 ± 1.61	18.4 ± 0.55	22.9 ± 0.43	27.3 ± 0.63	11.0 ± 0.00	n = 15	[ABJ] Abbott Architect c System
71.2 ± 2.03	18.7 ± 0.67	23.5 ± 0.81	28.0 ± 0.82	11.1 ± 0.41	n = 51	[OLC] Beckman Coulter AU Chemistry System
72.5 ± 2.40	18.7 ± 0.69	23.9 ± 1.13	27.7 ± 0.87	9.7 ± 0.90	n = 8	[BCS] Beckman Coulter CX
70.1 ± 2.14	15.9 ± 2.14	22.4 ± 0.94	25.4 ± 1.63	7.0 ± 1.92	n = 6	[BCX] Beckman Coulter LX-20
71.4 ± 1.63	18.9 ± 0.47	23.7 ± 0.73	28.8 ± 0.57	12.0 ± 0.00	n = 20	[BCG] Beckman Coulter UniCel DxC 600
69.6 ± 1.20	17.0 ± 1.22	21.8 ± 0.68	26.1 ± 1.23	8.3 ± 0.77	n = 21	[BCH] Beckman Coulter UniCel DxC 800
83.6 ± 0.79	21.3 ± 0.51	25.0 ± 0.55	31.5 ± 0.57	13.0 ± 0.00	n = 6	[IAA] i-STAT
63.5 ± 1.02	16.0 ± 0.00	21.0 ± 0.55	24.3 ± 0.57	10.5 ± 0.57	n = 12	[JJE] Ortho Vitros 250/350/950
63.5 ± 1.22	15.5 ± 0.61	20.4 ± 0.74	23.8 ± 0.67	10.2 ± 0.45	n = 22	[JJF] Ortho Vitros 5,1FS
62.7 ± 2.39	15.2 ± 0.47	20.3 ± 0.61	23.6 ± 0.95	10.3 ± 0.53	n = 14	[JJG] Ortho Vitros 5600
71.3 ± 1.29	18.7 ± 0.51	23.1 ± 0.48	27.8 ± 0.55	11.0 ± 0.00	n = 18	[ROC] Roche cobas c501
68.7 ± 3.16	18.0 ± 0.90	23.0 ± 0.90	27.4 ± 1.02	10.7 ± 0.51	n = 3	[ROH] Roche cobas c701
72.4 ± 1.37	18.6 ± 0.55	23.6 ± 0.55	28.5 ± 0.83	11.0 ± 0.00	n = 5	[ROS] Roche Cobas INTEGRA 400
71.5 ± 2.90	18.0 ± 0.00	22.5 ± 0.83	27.0 ± 0.64	11.0 ± 0.00	n = 5	[ROT] Roche Cobas INTEGRA 800
70.5 ± 1.53	18.7 ± 0.73	23.2 ± 0.69	28.0 ± 0.69	11.1 ± 0.60	n = 34	[ROD] Roche MODULAR D/P
72.6 ± 0.99	19.0 ± 0.40	23.8 ± 0.53	28.3 ± 0.60	11.0 ± 0.00	n = 19	[BYE] Siemens ADVIA 1800
72.7 ± 3.16	19.7 ± 0.51	23.6 ± 1.02	29.0 ± 0.00	11.3 ± 0.51	n = 3	[BYB] Siemens ADVIA 2400
73.0 ± 2.34	18.6 ± 0.81	23.6 ± 0.81	28.0 ± 0.83	11.2 ± 0.45	n = 11	[DUE] Siemens Dimension EXL
72.6 ± 2.17	18.8 ± 0.71	23.5 ± 0.75	28.1 ± 1.00	11.1 ± 0.74	n = 28	[DUR] Siemens Dimension RxL
70.9 ± 2.82	18.4 ± 0.89	23.2 ± 0.96	27.6 ± 0.97	11.0 ± 0.37	n = 35	[DUT] Siemens Dimension Vista
72.0 ± 2.88	18.8 ± 0.81	23.3 ± 1.01	28.4 ± 0.97	11.1 ± 1.01	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
71.7 ± 0.51	17.7 ± 0.51	21.7 ± 0.51	26.0 ± 0.00	11.0 ± 0.00	n = 3	[AX1] Abaxis
69.8 ± 1.61	18.4 ± 0.55	22.9 ± 0.43	27.3 ± 0.63	11.0 ± 0.00	n = 15	[AB1] Abbott
70.5 ± 1.93	17.9 ± 1.40	22.8 ± 1.25	27.3 ± 1.77	9.7 ± 2.25	n = 52	[BC1] Beckman Coulter
71.2 ± 1.97	18.7 ± 0.65	23.5 ± 0.82	28.0 ± 0.83	11.1 ± 0.43	n = 50	[OL1] Beckman Coulter AU Series
72.1 ± 2.63	19.0 ± 0.75	23.7 ± 0.82	27.3 ± 0.90	10.0 ± 0.75	n = 4	[CR1] Carolina
83.6 ± 0.79	21.3 ± 0.51	25.0 ± 0.55	31.5 ± 0.57	13.0 ± 0.00	n = 6	[IA1] i-STAT
63.3 ± 1.63	15.5 ± 0.64	20.5 ± 0.77	23.9 ± 0.83	10.3 ± 0.53	n = 50	[JJ1] Ortho Clinical Diagnostics
71.2 ± 1.41	18.7 ± 0.56	23.1 ± 0.54	27.8 ± 0.56	11.0 ± 0.00	n = 22	[RO4] Roche cobas c311/c501/c502/c701
70.6 ± 1.54	18.8 ± 0.75	23.2 ± 0.71	28.0 ± 0.67	11.2 ± 0.62	n = 35	[RO2] Roche Hitachi and Modular D/P
72.2 ± 2.11	18.2 ± 0.61	23.1 ± 0.92	27.7 ± 1.07	11.0 ± 0.00	n = 10	[RO1] Roche Integra and MIRA
72.6 ± 1.23	19.0 ± 0.50	23.8 ± 0.61	28.4 ± 0.61	11.0 ± 0.00	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
71.9 ± 2.71	18.6 ± 0.81	23.3 ± 0.89	28.0 ± 1.01	11.1 ± 0.63	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Creatinine (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
5.27 ± 0.20	2.13 ± 0.13	1.10 ± 0.10	1.35 ± 0.14	1.87 ± 0.15	n = 380	[---] All Methods & Instruments
5.33 ± 0.35	2.14 ± 0.17	1.08 ± 0.10	1.34 ± 0.14	1.82 ± 0.10	n = 203	[---] All IDMS Traceable Methods
5.30 ± 0.19	2.14 ± 0.11	1.12 ± 0.10	1.37 ± 0.14	1.95 ± 0.17	n = 172	[---] All Non-IDMS Traceable Methods
5.30 ± 0.18	2.14 ± 0.09	1.11 ± 0.10	1.36 ± 0.14	1.95 ± 0.18	n = 148	[-G-] Alkaline picrate/Jaffe
5.23 ± 0.16	2.10 ± 0.09	1.07 ± 0.11	1.33 ± 0.14	1.81 ± 0.09	n = 139	[-H-] Alkaline picrate/Jaffe-IDMS calibration
5.96 ± 0.52	2.38 ± 0.28	1.15 ± 0.14	1.41 ± 0.15	1.90 ± 0.13	n = 24	[-I-] Enzymatic
5.87 ± 0.56	2.36 ± 0.26	1.11 ± 0.09	1.38 ± 0.13	1.86 ± 0.10	n = 64	[-J-] Enzymatic-IDMS-traceable calibration
5.38 ± 0.59	2.17 ± 0.21	1.11 ± 0.10	1.36 ± 0.15	1.78 ± 0.08	n = 4	[-Z-] Other
						<Instruments>
5.45 ± 0.19	2.04 ± 0.10	1.00 ± 0.00	1.30 ± 0.09	1.85 ± 0.19	n = 3	[AXA] Abaxis Piccolo
5.69 ± 0.07	2.20 ± 0.02	1.19 ± 0.02	1.59 ± 0.02	1.79 ± 0.02	n = 15	[ABJ] Abbott Architect c System
5.15 ± 0.09	2.08 ± 0.05	1.07 ± 0.04	1.31 ± 0.03	1.77 ± 0.05	n = 53	[OLC] Beckman Coulter AU Chemistry System
5.29 ± 0.14	2.13 ± 0.06	1.08 ± 0.06	1.24 ± 0.08	1.95 ± 0.08	n = 8	[BCS] Beckman Coulter CX
5.34 ± 0.12	2.09 ± 0.02	1.01 ± 0.01	1.28 ± 0.04	1.84 ± 0.06	n = 6	[BCX] Beckman Coulter LX-20
5.21 ± 0.14	2.05 ± 0.09	0.91 ± 0.08	1.12 ± 0.07	1.76 ± 0.07	n = 21	[BCG] Beckman Coulter UniCel DxC 600
5.27 ± 0.12	2.07 ± 0.07	1.03 ± 0.04	1.25 ± 0.05	1.81 ± 0.06	n = 21	[BCH] Beckman Coulter UniCel DxC 800
6.34 ± 0.17	2.38 ± 0.08	1.30 ± 0.00	1.54 ± 0.06	1.80 ± 0.00	n = 5	[IAA] i-STAT
6.11 ± 0.14	2.54 ± 0.11	1.21 ± 0.03	1.50 ± 0.00	1.96 ± 0.09	n = 12	[JJE] Ortho Vitros 250/350/950
6.29 ± 0.12	2.55 ± 0.08	1.14 ± 0.05	1.43 ± 0.05	1.92 ± 0.05	n = 22	[JJF] Ortho Vitros 5,1FS
6.24 ± 0.13	2.53 ± 0.10	1.10 ± 0.00	1.40 ± 0.00	1.90 ± 0.00	n = 14	[JJG] Ortho Vitros 5600
5.30 ± 0.11	2.11 ± 0.06	1.03 ± 0.10	1.22 ± 0.16	1.81 ± 0.06	n = 20	[ROC] Roche cobas c501
5.14 ± 0.03	2.12 ± 0.09	1.13 ± 0.09	1.40 ± 0.14	1.80 ± 0.09	n = 3	[ROH] Roche cobas c701
5.20 ± 0.09	2.10 ± 0.00	1.08 ± 0.07	1.30 ± 0.06	1.83 ± 0.07	n = 6	[ROS] Roche Cobas INTEGRA 400
5.28 ± 0.18	2.05 ± 0.12	1.05 ± 0.06	1.23 ± 0.04	1.77 ± 0.06	n = 5	[ROT] Roche Cobas INTEGRA 800
5.32 ± 0.17	2.16 ± 0.11	1.15 ± 0.13	1.41 ± 0.17	1.85 ± 0.09	n = 34	[ROD] Roche MODULAR D/P
5.23 ± 0.10	2.11 ± 0.07	1.17 ± 0.06	1.47 ± 0.05	1.74 ± 0.08	n = 19	[BYE] Siemens ADVIA 1800
5.21 ± 0.09	2.04 ± 0.05	1.08 ± 0.07	1.40 ± 0.08	1.61 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
5.32 ± 0.10	2.17 ± 0.08	1.12 ± 0.08	1.40 ± 0.06	2.10 ± 0.06	n = 11	[DUE] Siemens Dimension EXL
5.36 ± 0.14	2.18 ± 0.10	1.14 ± 0.10	1.42 ± 0.12	2.11 ± 0.12	n = 28	[DUR] Siemens Dimension RxL
5.28 ± 0.17	2.13 ± 0.10	1.11 ± 0.10	1.34 ± 0.11	2.03 ± 0.12	n = 35	[DUT] Siemens Dimension Vista
5.28 ± 0.12	2.11 ± 0.09	1.10 ± 0.09	1.35 ± 0.10	2.05 ± 0.08	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
5.45 ± 0.19	2.04 ± 0.10	1.00 ± 0.00	1.30 ± 0.09	1.85 ± 0.19	n = 3	[AX1] Abaxis
5.69 ± 0.07	2.20 ± 0.03	1.19 ± 0.02	1.59 ± 0.02	1.79 ± 0.02	n = 16	[AB1] Abbott
5.26 ± 0.14	2.07 ± 0.07	0.99 ± 0.09	1.21 ± 0.09	1.80 ± 0.08	n = 53	[BC1] Beckman Coulter
5.16 ± 0.09	2.08 ± 0.05	1.07 ± 0.04	1.31 ± 0.02	1.77 ± 0.05	n = 50	[OL1] Beckman Coulter AU Series
5.25 ± 0.11	2.17 ± 0.06	1.05 ± 0.05	1.20 ± 0.09	2.01 ± 0.02	n = 5	[CR1] Carolina
6.35 ± 0.19	2.40 ± 0.08	1.30 ± 0.00	1.52 ± 0.04	1.82 ± 0.04	n = 4	[IA1] i-STAT
6.24 ± 0.17	2.55 ± 0.09	1.16 ± 0.06	1.44 ± 0.06	1.92 ± 0.06	n = 50	[JJ1] Ortho Clinical Diagnostics
5.28 ± 0.12	2.12 ± 0.06	1.05 ± 0.11	1.25 ± 0.17	1.82 ± 0.07	n = 24	[RO4] Roche cobas c311/c501/c502/c701
5.33 ± 0.17	2.16 ± 0.11	1.15 ± 0.13	1.41 ± 0.17	1.85 ± 0.08	n = 35	[RO2] Roche Hitachi and Modular D/P
5.23 ± 0.14	2.09 ± 0.08	1.07 ± 0.07	1.27 ± 0.06	1.80 ± 0.07	n = 11	[RO1] Roche Integra and MIRA
5.23 ± 0.10	2.10 ± 0.07	1.15 ± 0.07	1.46 ± 0.06	1.73 ± 0.09	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
5.31 ± 0.15	2.15 ± 0.10	1.12 ± 0.10	1.37 ± 0.11	2.06 ± 0.12	n = 94	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Estimated Glomerular Filtration Rate (mL/min/1.73 m²)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
12.1 ± 1.04	34.6 ± 3.23	75.0 ± 10.18	56.7 ± 6.76	40.7 ± 4.03	n = 288	[---] All Methods & Instruments
11.7 ± 1.18	33.8 ± 3.79	72.3 ± 9.82	54.9 ± 6.14	41.3 ± 3.29	n = 165	[-A-] IDMS-traceable MDRD Study Equation
12.5 ± 0.72	35.4 ± 1.92	75.2 ± 9.77	57.4 ± 5.80	39.0 ± 4.45	n = 101	[-B-] Original MDRD Study Equation (4-variable)
12.6 ± 0.58	37.0 ± 2.18	83.4 ± 5.59	64.3 ± 5.67	44.9 ± 2.37	n = 18	[-F-] CKD-EPI Equation
11.7 ± 0.51	32.5 ± 2.74	79.5 ± 3.99	59.7 ± 6.76	40.7 ± 1.37	n = 3	[-Z-] Other

Target values and allowable ranges for Estimated Glomerular Filtration Rate (eGFR):

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Method
12 (10-14)	34 (29-40)	75 (64-95)	59 (50-68)	41 (35-48)	IDMS-traceable MDRD Study Equation
13 (10-15)	36 (30-42)	77 (65-97)	61 (51-77)	41 (34-47)	Original MDRD Study Equation
12 (10-14)	36 (30-42)	83 (62-104)	64 (54-81)	44 (37-51)	CKD-EPI Equation
16 (13-18)	39 (32-45)	75 (63-94)	61 (51-77)	44 (37-51)	Cockcroft-Gault Equation

Laboratories were asked to report Estimated Glomerular Filtration Rate (eGFR) for samples C66-C70 for a 24-year-old African American woman weighing 60 kg.

Target values for eGFR calculated by the MDRD Study Equations were derived from participant mean values for serum creatinine for both conventional and isotope dilution mass spectroscopy (IDMS) calibration methods and application of the appropriate 4-variable MDRD Study equation.

Target values for eGFR calculated by the CKD-EPI equation were derived from participant mean values for IDMS-traceable serum creatinine methods and application of the CKD-EPI equation.

Target values for eGFR calculated by the Cockcroft-Gault equation were derived from all-method mean values for serum creatinine and application of the Cockcroft-Gault formula.

Allowable ranges are ±/- 15% of the target eGFR for eGFR <= 59 mL/min; ±/- 25% of the target eGFR for eGFR > 80 mL/min; and a range of -15% to ±25% of the target eGFR for eGFR = 60-80 mL/min.

Note: the NKDEP recommends reporting estimated GFR values greater than or equal to 60 mL/min/1.73 m^2 as "> 60 mL/min/1.73 m2" and not as an exact number. However, ranges exceeding 60 mL/min are provided as a relative indicator of acceptability for laboratories that report numeric results above that threshold. Note that some laboratories reported results > 60 mL/min/1.73 m2 for samples C68 and C69. These data were removed from the calculations of mean and standard deviation since their inclusion would have skewed results. Participant results for specimens C68 and C69 reported as > 60 mL/min/1.73 m2 were considered acceptable performance.

Summary of Participant Performance (Mean and Standard Deviation)

Uric Acid (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
2.75 ± 0.16	7.83 ± 0.32	4.75 ± 0.22	5.69 ± 0.24	3.68 ± 0.16	n = 337	[---] All Methods & Instruments
						<Instruments>
2.92 ± 0.14	8.13 ± 0.26	4.91 ± 0.13	5.88 ± 0.20	3.81 ± 0.13	n = 15	[ABJ] Abbott Architect c System
3.00 ± 0.09	8.32 ± 0.24	5.19 ± 0.15	6.15 ± 0.17	3.97 ± 0.11	n = 49	[OLC] Beckman Coulter AU Chemistry System
2.83 ± 0.14	7.70 ± 0.20	4.86 ± 0.19	5.84 ± 0.20	3.68 ± 0.14	n = 8	[BCS] Beckman Coulter CX
2.90 ± 0.09	7.85 ± 0.14	4.84 ± 0.08	5.72 ± 0.07	3.73 ± 0.07	n = 6	[BCX] Beckman Coulter LX-20
2.75 ± 0.06	7.71 ± 0.14	4.76 ± 0.09	5.63 ± 0.10	3.62 ± 0.09	n = 17	[BCG] Beckman Coulter UniCel DxC 600
2.78 ± 0.04	7.72 ± 0.10	4.76 ± 0.06	5.63 ± 0.07	3.62 ± 0.05	n = 20	[BCH] Beckman Coulter UniCel DxC 800
2.63 ± 0.07	7.62 ± 0.15	4.60 ± 0.09	5.57 ± 0.12	3.66 ± 0.08	n = 10	[JJE] Ortho Vitros 250/350/950
2.65 ± 0.07	7.71 ± 0.16	4.60 ± 0.11	5.58 ± 0.12	3.65 ± 0.11	n = 22	[JJF] Ortho Vitros 5,1FS
2.63 ± 0.08	7.70 ± 0.21	4.65 ± 0.12	5.59 ± 0.16	3.65 ± 0.11	n = 14	[JJG] Ortho Vitros 5600
2.74 ± 0.07	8.05 ± 0.14	4.82 ± 0.12	5.80 ± 0.14	3.72 ± 0.07	n = 18	[ROC] Roche cobas c501
2.60 ± 0.00	7.76 ± 0.06	4.60 ± 0.00	5.60 ± 0.06	3.60 ± 0.00	n = 5	[ROT] Roche Cobas INTEGRA 800
2.68 ± 0.05	7.89 ± 0.10	4.74 ± 0.10	5.67 ± 0.08	3.65 ± 0.07	n = 33	[ROD] Roche MODULAR D/P
2.75 ± 0.07	7.89 ± 0.17	4.77 ± 0.08	5.72 ± 0.12	3.72 ± 0.07	n = 19	[BYE] Siemens ADVIA 1800
2.77 ± 0.05	8.14 ± 0.10	4.77 ± 0.14	5.87 ± 0.05	3.70 ± 0.09	n = 3	[BYB] Siemens ADVIA 2400
2.75 ± 0.07	7.82 ± 0.18	4.71 ± 0.12	5.63 ± 0.10	3.64 ± 0.06	n = 11	[DUE] Siemens Dimension EXL
2.79 ± 0.09	7.77 ± 0.18	4.71 ± 0.15	5.68 ± 0.12	3.70 ± 0.10	n = 25	[DUR] Siemens Dimension RxL
2.56 ± 0.07	7.28 ± 0.13	4.49 ± 0.08	5.32 ± 0.09	3.46 ± 0.07	n = 34	[DUT] Siemens Dimension Vista
2.81 ± 0.12	7.75 ± 0.10	4.72 ± 0.08	5.63 ± 0.08	3.69 ± 0.09	n = 15	[DUX] Siemens Dimension Xpand
						<Reagents>
2.92 ± 0.14	8.13 ± 0.26	4.91 ± 0.13	5.88 ± 0.20	3.81 ± 0.13	n = 15	[AB1] Abbott
2.78 ± 0.06	7.73 ± 0.13	4.77 ± 0.08	5.64 ± 0.09	3.64 ± 0.08	n = 49	[BC1] Beckman Coulter
3.00 ± 0.09	8.31 ± 0.23	5.19 ± 0.16	6.14 ± 0.17	3.97 ± 0.11	n = 48	[OL1] Beckman Coulter AU Series
2.80 ± 0.18	7.69 ± 0.11	4.86 ± 0.23	5.92 ± 0.13	3.63 ± 0.15	n = 4	[CR1] Carolina
2.64 ± 0.08	7.68 ± 0.18	4.61 ± 0.11	5.58 ± 0.13	3.65 ± 0.11	n = 46	[JJ1] Ortho Clinical Diagnostics
2.73 ± 0.07	8.04 ± 0.14	4.81 ± 0.11	5.79 ± 0.13	3.72 ± 0.06	n = 21	[RO4] Roche cobas c311/c501/c502/c701
2.67 ± 0.06	7.89 ± 0.11	4.74 ± 0.10	5.67 ± 0.08	3.65 ± 0.07	n = 34	[RO2] Roche Hitachi and Modular D/P
2.62 ± 0.05	7.76 ± 0.06	4.62 ± 0.05	5.60 ± 0.05	3.60 ± 0.05	n = 7	[RO1] Roche Integra and MIRA
2.75 ± 0.06	7.92 ± 0.18	4.77 ± 0.09	5.74 ± 0.12	3.72 ± 0.07	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
2.70 ± 0.15	7.58 ± 0.31	4.62 ± 0.16	5.52 ± 0.21	3.59 ± 0.15	n = 85	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Bilirubin (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
1.94 ± 0.17	0.71 ± 0.15	3.28 ± 0.21	3.96 ± 0.26	1.03 ± 0.12	n = 362	[---] All Methods & Instruments
						<Instruments>
1.86 ± 0.10	0.70 ± 0.09	3.10 ± 0.09	3.83 ± 0.14	1.10 ± 0.09	n = 3	[AXA] Abaxis Piccolo
2.13 ± 0.20	0.73 ± 0.15	3.51 ± 0.27	4.24 ± 0.30	1.10 ± 0.14	n = 15	[ABJ] Abbott Architect c System
1.93 ± 0.07	0.80 ± 0.00	3.27 ± 0.09	3.83 ± 0.11	1.10 ± 0.00	n = 51	[OLC] Beckman Coulter AU Chemistry System
2.22 ± 0.18	0.93 ± 0.19	3.28 ± 0.19	4.06 ± 0.21	1.20 ± 0.13	n = 8	[BCS] Beckman Coulter CX
2.18 ± 0.14	0.90 ± 0.16	3.37 ± 0.12	4.12 ± 0.20	1.12 ± 0.10	n = 6	[BCX] Beckman Coulter LX-20
2.17 ± 0.13	0.92 ± 0.16	3.50 ± 0.13	4.22 ± 0.21	1.14 ± 0.11	n = 20	[BCG] Beckman Coulter UniCel DxC 600
2.12 ± 0.11	0.89 ± 0.12	3.38 ± 0.19	4.12 ± 0.19	1.14 ± 0.11	n = 21	[BCH] Beckman Coulter UniCel DxC 800
1.92 ± 0.06	0.87 ± 0.08	3.40 ± 0.15	4.08 ± 0.16	1.18 ± 0.09	n = 11	[JJE] Ortho Vitros 250/350/950
1.88 ± 0.11	0.75 ± 0.11	3.40 ± 0.13	4.11 ± 0.15	1.04 ± 0.11	n = 22	[JJF] Ortho Vitros 5,1FS
1.86 ± 0.08	0.76 ± 0.06	3.35 ± 0.17	4.09 ± 0.20	1.08 ± 0.05	n = 14	[JJG] Ortho Vitros 5600
1.67 ± 0.08	0.54 ± 0.07	2.98 ± 0.11	3.62 ± 0.11	0.82 ± 0.05	n = 17	[ROC] Roche cobas c501
1.54 ± 0.10	0.43 ± 0.05	2.76 ± 0.10	3.48 ± 0.15	0.73 ± 0.05	n = 3	[ROH] Roche cobas c701
1.67 ± 0.05	0.55 ± 0.06	2.92 ± 0.14	3.62 ± 0.14	0.83 ± 0.05	n = 6	[ROS] Roche Cobas INTEGRA 400
1.62 ± 0.08	0.50 ± 0.10	2.79 ± 0.18	3.42 ± 0.23	0.80 ± 0.06	n = 5	[ROT] Roche Cobas INTEGRA 800
1.82 ± 0.07	0.60 ± 0.00	3.12 ± 0.10	3.82 ± 0.10	0.90 ± 0.00	n = 34	[ROD] Roche MODULAR D/P
2.07 ± 0.05	0.76 ± 0.05	3.50 ± 0.09	4.24 ± 0.08	1.06 ± 0.06	n = 19	[BYE] Siemens ADVIA 1800
2.20 ± 0.09	0.77 ± 0.05	3.67 ± 0.14	4.47 ± 0.14	1.07 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
1.97 ± 0.08	0.66 ± 0.08	3.28 ± 0.12	3.95 ± 0.13	1.00 ± 0.08	n = 11	[DUE] Siemens Dimension EXL
1.95 ± 0.08	0.65 ± 0.08	3.29 ± 0.09	3.98 ± 0.11	1.00 ± 0.00	n = 28	[DUR] Siemens Dimension RxL
1.94 ± 0.07	0.67 ± 0.08	3.25 ± 0.12	3.91 ± 0.16	1.01 ± 0.04	n = 35	[DUT] Siemens Dimension Vista
1.94 ± 0.08	0.64 ± 0.08	3.29 ± 0.14	3.95 ± 0.18	1.00 ± 0.06	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
1.86 ± 0.10	0.70 ± 0.09	3.10 ± 0.09	3.83 ± 0.14	1.10 ± 0.09	n = 3	[AX1] Abaxis
2.13 ± 0.20	0.73 ± 0.15	3.51 ± 0.27	4.24 ± 0.30	1.10 ± 0.14	n = 15	[AB1] Abbott
2.15 ± 0.13	0.91 ± 0.15	3.44 ± 0.18	4.15 ± 0.22	1.15 ± 0.12	n = 53	[BC1] Beckman Coulter
1.93 ± 0.07	0.80 ± 0.00	3.27 ± 0.09	3.83 ± 0.11	1.10 ± 0.00	n = 49	[OL1] Beckman Coulter AU Series
2.14 ± 0.21	0.77 ± 0.21	3.18 ± 0.16	3.95 ± 0.25	1.15 ± 0.08	n = 5	[CR1] Carolina
1.88 ± 0.09	0.78 ± 0.10	3.39 ± 0.15	4.10 ± 0.17	1.09 ± 0.11	n = 49	[JJ1] Ortho Clinical Diagnostics
1.65 ± 0.09	0.52 ± 0.09	2.95 ± 0.15	3.60 ± 0.13	0.81 ± 0.06	n = 21	[RO4] Roche cobas c311/c501/c502/c701
1.82 ± 0.07	0.60 ± 0.00	3.12 ± 0.10	3.82 ± 0.10	0.90 ± 0.00	n = 34	[RO2] Roche Hitachi and Modular D/P
1.65 ± 0.07	0.53 ± 0.08	2.87 ± 0.17	3.55 ± 0.20	0.82 ± 0.06	n = 11	[RO1] Roche Integra and MIRA
2.08 ± 0.06	0.77 ± 0.05	3.52 ± 0.11	4.26 ± 0.10	1.06 ± 0.05	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
1.95 ± 0.08	0.66 ± 0.08	3.27 ± 0.12	3.94 ± 0.15	1.00 ± 0.04	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Phosphorus (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
3.91 ± 0.20	2.75 ± 0.18	4.85 ± 0.22	5.83 ± 0.28	3.27 ± 0.18	n = 341	[---] All Methods & Instruments
						<Instruments>
3.79 ± 0.07	2.65 ± 0.07	4.73 ± 0.11	5.69 ± 0.11	3.17 ± 0.09	n = 15	[ABJ] Abbott Architect c System
3.74 ± 0.11	2.63 ± 0.09	4.66 ± 0.11	5.58 ± 0.15	3.14 ± 0.11	n = 50	[OLC] Beckman Coulter AU Chemistry System
4.24 ± 0.24	3.04 ± 0.18	4.93 ± 0.25	5.88 ± 0.42	3.46 ± 0.40	n = 7	[BCS] Beckman Coulter CX
4.08 ± 0.09	2.97 ± 0.12	5.14 ± 0.16	6.20 ± 0.13	3.52 ± 0.09	n = 6	[BCX] Beckman Coulter LX-20
3.83 ± 0.14	2.71 ± 0.10	4.94 ± 0.20	5.91 ± 0.21	3.24 ± 0.13	n = 18	[BCG] Beckman Coulter UniCel DxC 600
4.04 ± 0.08	2.92 ± 0.08	5.05 ± 0.09	6.11 ± 0.15	3.41 ± 0.09	n = 20	[BCH] Beckman Coulter UniCel DxC 800
4.18 ± 0.15	3.06 ± 0.12	5.13 ± 0.11	6.26 ± 0.19	3.50 ± 0.12	n = 10	[JJE] Ortho Vitros 250/350/950
4.30 ± 0.09	3.15 ± 0.07	5.20 ± 0.11	6.32 ± 0.12	3.51 ± 0.08	n = 22	[JJF] Ortho Vitros 5,1FS
4.30 ± 0.17	3.15 ± 0.12	5.23 ± 0.16	6.33 ± 0.19	3.55 ± 0.15	n = 14	[JJG] Ortho Vitros 5600
3.95 ± 0.10	2.75 ± 0.08	4.87 ± 0.10	5.85 ± 0.10	3.29 ± 0.08	n = 19	[ROC] Roche cobas c501
3.93 ± 0.14	2.74 ± 0.10	4.87 ± 0.14	5.74 ± 0.10	3.27 ± 0.14	n = 3	[ROH] Roche cobas c701
3.93 ± 0.09	2.77 ± 0.09	4.88 ± 0.04	5.85 ± 0.12	3.30 ± 0.08	n = 4	[ROS] Roche Cobas INTEGRA 400
3.84 ± 0.11	2.68 ± 0.08	4.76 ± 0.13	5.67 ± 0.14	3.25 ± 0.08	n = 5	[ROT] Roche Cobas INTEGRA 800
3.92 ± 0.12	2.73 ± 0.11	4.84 ± 0.14	5.80 ± 0.14	3.28 ± 0.13	n = 33	[ROD] Roche MODULAR D/P
3.89 ± 0.10	2.71 ± 0.08	4.83 ± 0.09	5.80 ± 0.10	3.27 ± 0.07	n = 19	[BYE] Siemens ADVIA 1800
3.84 ± 0.10	2.73 ± 0.05	4.63 ± 0.14	5.82 ± 0.15	3.17 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
3.94 ± 0.10	2.74 ± 0.06	4.84 ± 0.11	5.79 ± 0.12	3.28 ± 0.15	n = 10	[DUE] Siemens Dimension EXL
3.86 ± 0.07	2.69 ± 0.08	4.74 ± 0.12	5.72 ± 0.15	3.19 ± 0.10	n = 25	[DUR] Siemens Dimension RxL
3.78 ± 0.13	2.65 ± 0.09	4.74 ± 0.13	5.71 ± 0.16	3.16 ± 0.14	n = 34	[DUT] Siemens Dimension Vista
3.88 ± 0.11	2.71 ± 0.09	4.79 ± 0.10	5.74 ± 0.10	3.20 ± 0.10	n = 18	[DUX] Siemens Dimension Xpand
						<Reagents>
3.79 ± 0.07	2.65 ± 0.07	4.73 ± 0.11	5.69 ± 0.11	3.17 ± 0.09	n = 15	[AB1] Abbott
3.98 ± 0.18	2.85 ± 0.16	5.01 ± 0.17	6.03 ± 0.22	3.35 ± 0.17	n = 48	[BC1] Beckman Coulter
3.75 ± 0.11	2.63 ± 0.09	4.66 ± 0.11	5.58 ± 0.14	3.15 ± 0.11	n = 49	[OL1] Beckman Coulter AU Series
4.31 ± 0.27	3.22 ± 0.41	5.07 ± 0.31	6.02 ± 0.44	3.73 ± 0.25	n = 4	[CR1] Carolina
4.28 ± 0.14	3.14 ± 0.10	5.19 ± 0.13	6.31 ± 0.16	3.52 ± 0.12	n = 46	[JJ1] Ortho Clinical Diagnostics
3.95 ± 0.11	2.75 ± 0.08	4.87 ± 0.10	5.84 ± 0.11	3.29 ± 0.09	n = 22	[RO4] Roche cobas c311/c501/c502/c701
3.92 ± 0.12	2.74 ± 0.11	4.85 ± 0.14	5.80 ± 0.13	3.29 ± 0.13	n = 34	[RO2] Roche Hitachi and Modular D/P
3.88 ± 0.11	2.72 ± 0.09	4.82 ± 0.12	5.76 ± 0.16	3.27 ± 0.08	n = 9	[RO1] Roche Integra and MIRA
3.88 ± 0.10	2.71 ± 0.07	4.81 ± 0.11	5.80 ± 0.11	3.25 ± 0.08	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
3.85 ± 0.13	2.68 ± 0.09	4.76 ± 0.12	5.73 ± 0.14	3.19 ± 0.13	n = 87	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Calcium (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
9.49 ± 0.28	8.58 ± 0.24	6.96 ± 0.19	8.34 ± 0.22	10.84 ± 0.33	n = 369	[---] All Methods & Instruments
						<Instruments>
9.16 ± 0.10	8.83 ± 0.05	6.92 ± 0.32	8.45 ± 0.19	11.13 ± 0.34	n = 3	[AXA] Abaxis Piccolo
9.54 ± 0.17	8.52 ± 0.16	6.88 ± 0.12	8.24 ± 0.14	10.67 ± 0.17	n = 15	[ABJ] Abbott Architect c System
9.55 ± 0.13	8.59 ± 0.12	6.95 ± 0.11	8.34 ± 0.13	10.77 ± 0.17	n = 52	[OLC] Beckman Coulter AU Chemistry System
9.39 ± 0.36	8.64 ± 0.48	7.05 ± 0.10	8.32 ± 0.32	10.70 ± 0.35	n = 8	[BCS] Beckman Coulter CX
9.46 ± 0.18	8.65 ± 0.15	7.14 ± 0.15	8.35 ± 0.15	10.82 ± 0.22	n = 6	[BCX] Beckman Coulter LX-20
9.34 ± 0.15	8.57 ± 0.16	7.05 ± 0.13	8.32 ± 0.14	10.72 ± 0.18	n = 21	[BCG] Beckman Coulter UniCel DxC 600
9.42 ± 0.16	8.65 ± 0.11	7.09 ± 0.10	8.38 ± 0.13	10.82 ± 0.17	n = 21	[BCH] Beckman Coulter UniCel DxC 800
9.54 ± 0.17	8.70 ± 0.16	6.94 ± 0.16	8.52 ± 0.18	11.48 ± 0.24	n = 12	[JJE] Ortho Vitros 250/350/950
9.47 ± 0.17	8.60 ± 0.18	6.85 ± 0.12	8.39 ± 0.19	11.20 ± 0.22	n = 22	[JJF] Ortho Vitros 5,1FS
9.37 ± 0.19	8.55 ± 0.15	6.81 ± 0.16	8.34 ± 0.16	11.20 ± 0.25	n = 14	[JJG] Ortho Vitros 5600
9.80 ± 0.15	8.77 ± 0.23	7.01 ± 0.13	8.49 ± 0.11	11.15 ± 0.22	n = 19	[ROC] Roche cobas c501
9.81 ± 0.29	8.81 ± 0.20	7.08 ± 0.15	8.47 ± 0.31	11.11 ± 0.29	n = 3	[ROH] Roche cobas c701
9.80 ± 0.19	8.72 ± 0.16	6.94 ± 0.08	8.45 ± 0.14	11.18 ± 0.17	n = 6	[ROS] Roche Cobas INTEGRA 400
9.57 ± 0.16	8.64 ± 0.11	6.80 ± 0.06	8.28 ± 0.04	10.87 ± 0.22	n = 5	[ROT] Roche Cobas INTEGRA 800
9.88 ± 0.21	8.87 ± 0.23	7.15 ± 0.14	8.58 ± 0.18	11.09 ± 0.24	n = 34	[ROD] Roche MODULAR D/P
9.79 ± 0.23	8.78 ± 0.22	7.07 ± 0.22	8.53 ± 0.20	10.91 ± 0.21	n = 19	[BYE] Siemens ADVIA 1800
9.75 ± 0.19	8.73 ± 0.23	7.13 ± 0.14	8.47 ± 0.23	10.66 ± 0.10	n = 3	[BYB] Siemens ADVIA 2400
9.26 ± 0.15	8.35 ± 0.19	6.83 ± 0.19	8.14 ± 0.19	10.63 ± 0.21	n = 11	[DUE] Siemens Dimension EXL
9.35 ± 0.17	8.40 ± 0.16	6.92 ± 0.16	8.27 ± 0.13	10.68 ± 0.20	n = 28	[DUR] Siemens Dimension RxL
9.20 ± 0.15	8.30 ± 0.13	6.82 ± 0.15	8.07 ± 0.15	10.46 ± 0.21	n = 35	[DUT] Siemens Dimension Vista
9.34 ± 0.23	8.42 ± 0.20	6.95 ± 0.22	8.25 ± 0.22	10.72 ± 0.25	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
9.16 ± 0.10	8.83 ± 0.05	6.92 ± 0.32	8.45 ± 0.19	11.13 ± 0.34	n = 3	[AX1] Abaxis
9.54 ± 0.17	8.52 ± 0.16	6.88 ± 0.12	8.24 ± 0.14	10.67 ± 0.17	n = 15	[AB1] Abbott
9.39 ± 0.18	8.62 ± 0.15	7.07 ± 0.13	8.34 ± 0.15	10.77 ± 0.20	n = 53	[BC1] Beckman Coulter
9.55 ± 0.12	8.60 ± 0.12	6.95 ± 0.11	8.34 ± 0.13	10.77 ± 0.17	n = 51	[OL1] Beckman Coulter AU Series
9.50 ± 0.18	8.75 ± 0.38	7.26 ± 0.43	8.45 ± 0.22	10.91 ± 0.23	n = 4	[CR1] Carolina
9.47 ± 0.19	8.62 ± 0.17	6.86 ± 0.15	8.41 ± 0.19	11.26 ± 0.26	n = 49	[JJ1] Ortho Clinical Diagnostics
9.78 ± 0.15	8.77 ± 0.18	7.02 ± 0.12	8.48 ± 0.14	11.14 ± 0.18	n = 20	[RO4] Roche cobas c311/c501/c502/c701
9.88 ± 0.21	8.87 ± 0.23	7.15 ± 0.14	8.58 ± 0.18	11.09 ± 0.24	n = 34	[RO2] Roche Hitachi and Modular D/P
9.69 ± 0.21	8.67 ± 0.14	6.87 ± 0.10	8.39 ± 0.15	11.05 ± 0.25	n = 11	[RO1] Roche Integra and MIRA
9.23 ± 0.32	8.53 ± 0.23	6.90 ± 0.09	8.17 ± 0.14	10.45 ± 0.27	n = 3	[GZ1] Sekisui Diagnostics (Genzyme)
9.79 ± 0.23	8.79 ± 0.23	7.10 ± 0.23	8.53 ± 0.22	10.89 ± 0.23	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
9.28 ± 0.19	8.35 ± 0.17	6.88 ± 0.18	8.17 ± 0.18	10.60 ± 0.24	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Magnesium (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
2.19 ± 0.11	1.57 ± 0.10	2.56 ± 0.10	3.08 ± 0.12	1.67 ± 0.11	n = 334	[---] All Methods & Instruments
						<Instruments>
2.20 ± 0.07	1.59 ± 0.06	2.52 ± 0.07	3.00 ± 0.06	1.61 ± 0.05	n = 14	[ABJ] Abbott Architect c System
2.16 ± 0.07	1.55 ± 0.07	2.52 ± 0.07	3.04 ± 0.09	1.66 ± 0.08	n = 49	[OLC] Beckman Coulter AU Chemistry System
2.30 ± 0.22	1.70 ± 0.14	2.55 ± 0.15	3.22 ± 0.08	1.72 ± 0.12	n = 6	[BCS] Beckman Coulter CX
2.28 ± 0.07	1.65 ± 0.06	2.58 ± 0.07	3.10 ± 0.00	1.70 ± 0.00	n = 6	[BCX] Beckman Coulter LX-20
2.28 ± 0.05	1.64 ± 0.06	2.62 ± 0.08	3.17 ± 0.09	1.72 ± 0.07	n = 20	[BCG] Beckman Coulter UniCel DxC 600
2.27 ± 0.06	1.63 ± 0.05	2.61 ± 0.09	3.18 ± 0.08	1.72 ± 0.05	n = 21	[BCH] Beckman Coulter UniCel DxC 800
2.15 ± 0.06	1.56 ± 0.08	2.52 ± 0.07	3.02 ± 0.07	1.70 ± 0.06	n = 6	[JJE] Ortho Vitros 250/350/950
2.10 ± 0.07	1.57 ± 0.05	2.50 ± 0.07	3.01 ± 0.05	1.70 ± 0.00	n = 22	[JJF] Ortho Vitros 5,1FS
2.10 ± 0.00	1.59 ± 0.05	2.52 ± 0.05	3.03 ± 0.07	1.69 ± 0.10	n = 13	[JJG] Ortho Vitros 5600
2.17 ± 0.07	1.60 ± 0.00	2.56 ± 0.06	3.02 ± 0.07	1.70 ± 0.00	n = 17	[ROC] Roche cobas c501
2.17 ± 0.05	1.53 ± 0.05	2.53 ± 0.05	3.07 ± 0.05	1.73 ± 0.05	n = 3	[ROH] Roche cobas c701
2.17 ± 0.05	1.57 ± 0.05	2.57 ± 0.05	3.02 ± 0.10	1.68 ± 0.07	n = 6	[ROT] Roche Cobas INTEGRA 800
2.22 ± 0.05	1.59 ± 0.04	2.60 ± 0.06	3.11 ± 0.09	1.70 ± 0.00	n = 31	[ROD] Roche MODULAR D/P
2.39 ± 0.07	1.69 ± 0.07	2.71 ± 0.07	3.25 ± 0.08	1.90 ± 0.00	n = 19	[BYE] Siemens ADVIA 1800
2.37 ± 0.05	1.63 ± 0.05	2.67 ± 0.05	3.23 ± 0.05	1.83 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
2.14 ± 0.06	1.46 ± 0.07	2.55 ± 0.07	3.04 ± 0.09	1.60 ± 0.07	n = 9	[DUE] Siemens Dimension EXL
2.18 ± 0.07	1.50 ± 0.06	2.58 ± 0.09	3.11 ± 0.09	1.63 ± 0.08	n = 27	[DUR] Siemens Dimension RxL
2.03 ± 0.12	1.35 ± 0.13	2.46 ± 0.12	3.02 ± 0.15	1.50 ± 0.12	n = 35	[DUT] Siemens Dimension Vista
2.19 ± 0.09	1.51 ± 0.07	2.61 ± 0.13	3.15 ± 0.14	1.63 ± 0.11	n = 19	[DUX] Siemens Dimension Xpand
						<Reagents>
2.20 ± 0.07	1.59 ± 0.06	2.52 ± 0.07	3.00 ± 0.06	1.61 ± 0.05	n = 14	[AB1] Abbott
2.28 ± 0.06	1.64 ± 0.06	2.61 ± 0.09	3.17 ± 0.08	1.72 ± 0.06	n = 50	[BC1] Beckman Coulter
2.17 ± 0.06	1.54 ± 0.07	2.52 ± 0.07	3.04 ± 0.08	1.65 ± 0.08	n = 48	[OL1] Beckman Coulter AU Series
2.35 ± 0.27	1.75 ± 0.19	2.47 ± 0.14	3.05 ± 0.27	1.70 ± 0.18	n = 3	[CR1] Carolina
2.12 ± 0.06	1.58 ± 0.06	2.51 ± 0.06	3.02 ± 0.06	1.69 ± 0.06	n = 41	[JJ1] Ortho Clinical Diagnostics
2.17 ± 0.06	1.58 ± 0.04	2.55 ± 0.06	3.03 ± 0.07	1.70 ± 0.00	n = 20	[RO4] Roche cobas c311/c501/c502/c701
2.22 ± 0.05	1.60 ± 0.00	2.60 ± 0.06	3.11 ± 0.09	1.70 ± 0.00	n = 31	[RO2] Roche Hitachi and Modular D/P
2.15 ± 0.06	1.57 ± 0.07	2.55 ± 0.06	3.01 ± 0.09	1.66 ± 0.07	n = 8	[RO1] Roche Integra and MIRA
2.39 ± 0.06	1.69 ± 0.07	2.70 ± 0.07	3.25 ± 0.08	1.90 ± 0.04	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
2.13 ± 0.11	1.45 ± 0.11	2.54 ± 0.12	3.08 ± 0.13	1.58 ± 0.12	n = 89	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Iron (µg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
136.9 ± 8.25	106.7 ± 8.48	94.9 ± 5.98	114.0 ± 7.94	85.4 ± 3.80	n = 270	[---] All Methods & Instruments
						<Instruments>
113.7 ± 12.19	78.1 ± 18.95	75.2 ± 15.85	86.2 ± 17.64	77.8 ± 4.21	n = 14	[ABJ] Abbott Architect c System
140.4 ± 4.18	108.1 ± 2.97	95.3 ± 2.30	115.1 ± 3.10	88.0 ± 2.71	n = 47	[OLC] Beckman Coulter AU Chemistry System
129.5 ± 6.09	96.4 ± 5.04	90.9 ± 4.35	107.5 ± 5.45	84.3 ± 2.86	n = 6	[BCS] Beckman Coulter CX
130.5 ± 4.63	94.9 ± 3.82	89.4 ± 2.88	107.2 ± 2.61	82.5 ± 2.76	n = 5	[BCX] Beckman Coulter LX-20
133.4 ± 2.94	97.6 ± 3.59	93.8 ± 3.20	111.2 ± 3.75	84.5 ± 1.49	n = 11	[BCG] Beckman Coulter UniCel DxC 600
130.2 ± 2.61	94.2 ± 3.99	89.4 ± 3.11	106.7 ± 3.36	83.1 ± 1.86	n = 15	[BCH] Beckman Coulter UniCel DxC 800
154.5 ± 5.33	124.9 ± 9.34	103.3 ± 7.94	132.2 ± 8.45	81.5 ± 5.65	n = 4	[JJE] Ortho Vitros 250/350/950
155.1 ± 9.29	127.4 ± 8.35	104.6 ± 6.37	131.5 ± 7.42	90.0 ± 5.87	n = 20	[JJF] Ortho Vitros 5,1FS
155.9 ± 6.64	126.6 ± 8.31	104.1 ± 4.49	129.8 ± 8.96	88.6 ± 4.83	n = 14	[JJG] Ortho Vitros 5600
139.6 ± 2.55	109.8 ± 1.71	97.8 ± 2.71	117.5 ± 1.61	87.4 ± 1.89	n = 10	[ROC] Roche cobas c501
142.3 ± 4.96	110.6 ± 5.58	101.9 ± 4.38	119.4 ± 6.23	88.5 ± 5.40	n = 3	[ROS] Roche Cobas INTEGRA 400
141.3 ± 2.26	110.7 ± 1.51	99.8 ± 1.46	120.8 ± 2.11	88.5 ± 3.77	n = 4	[ROT] Roche Cobas INTEGRA 800
137.4 ± 2.63	108.1 ± 2.77	96.3 ± 2.64	115.4 ± 2.73	85.7 ± 2.10	n = 32	[ROD] Roche MODULAR D/P
138.3 ± 2.77	109.6 ± 2.45	98.3 ± 2.28	118.1 ± 2.29	85.2 ± 1.98	n = 18	[BYE] Siemens ADVIA 1800
137.2 ± 3.23	111.8 ± 2.36	98.5 ± 3.63	120.5 ± 2.74	85.5 ± 1.86	n = 3	[BYB] Siemens ADVIA 2400
130.8 ± 0.82	103.1 ± 1.33	89.6 ± 2.09	107.1 ± 1.33	83.0 ± 0.00	n = 6	[DUE] Siemens Dimension EXL
132.0 ± 1.96	102.6 ± 2.16	88.8 ± 1.61	107.3 ± 2.07	83.3 ± 1.60	n = 16	[DUR] Siemens Dimension RxL
132.9 ± 2.51	102.9 ± 2.27	90.2 ± 2.00	108.4 ± 2.60	84.6 ± 1.63	n = 30	[DUT] Siemens Dimension Vista
130.8 ± 1.46	103.2 ± 1.46	89.3 ± 1.58	107.5 ± 1.22	83.5 ± 1.94	n = 4	[DUX] Siemens Dimension Xpand
						<Reagents>
131.7 ± 12.28	107.0 ± 14.80	96.0 ± 4.20	115.5 ± 4.61	84.6 ± 5.94	n = 5	[AB3] Abbott-Iron/6K95
108.8 ± 1.86	70.3 ± 0.54	66.3 ± 1.35	79.0 ± 1.71	76.4 ± 0.96	n = 9	[AB2] Abbott-Iron/7D68
131.5 ± 3.47	95.5 ± 4.19	91.0 ± 3.83	108.2 ± 4.14	83.8 ± 2.12	n = 34	[BC1] Beckman Coulter
141.3 ± 3.63	108.5 ± 3.06	95.3 ± 2.51	115.4 ± 3.17	88.6 ± 2.32	n = 38	[OL1] Beckman Coulter AU Series
126.4 ± 4.72	96.7 ± 3.37	89.0 ± 3.58	107.5 ± 4.61	82.7 ± 1.37	n = 3	[CR1] Carolina
155.4 ± 8.13	126.9 ± 8.47	104.5 ± 5.85	131.1 ± 8.17	88.6 ± 5.93	n = 38	[JJ1] Ortho Clinical Diagnostics
138.6 ± 3.02	109.5 ± 1.85	97.1 ± 2.57	116.8 ± 2.33	86.8 ± 1.67	n = 13	[RO4] Roche cobas c311/c501/c502/c701
137.4 ± 2.63	108.1 ± 2.77	96.3 ± 2.64	115.4 ± 2.73	85.7 ± 2.10	n = 32	[RO2] Roche Hitachi and Modular D/P
141.6 ± 3.51	110.2 ± 3.29	99.7 ± 1.22	120.1 ± 4.15	88.5 ± 4.52	n = 7	[RO1] Roche Integra and MIRA
136.1 ± 4.63	107.0 ± 2.46	95.0 ± 1.86	114.1 ± 2.70	85.5 ± 2.90	n = 8	[GZ1] Sekisui Diagnostics (Genzyme)
138.2 ± 2.65	109.8 ± 2.17	98.0 ± 2.35	118.3 ± 2.20	85.1 ± 1.95	n = 21	[BY1] Siemens ADVIA/ADVIA Centaur
132.2 ± 2.47	102.9 ± 2.15	89.7 ± 2.04	108.0 ± 2.29	84.0 ± 1.90	n = 54	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Sodium (mmol/L)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
147.7 ± 2.58	159.4 ± 2.52	127.0 ± 2.07	151.9 ± 2.53	133.9 ± 1.86	n = 377	[---] All Methods & Instruments
						<Instruments>
143.8 ± 1.54	156.0 ± 0.90	122.6 ± 1.02	145.3 ± 0.51	131.6 ± 1.02	n = 3	[AXA] Abaxis Piccolo
148.5 ± 1.51	159.4 ± 1.20	125.2 ± 0.83	151.2 ± 1.25	133.0 ± 0.96	n = 15	[ABJ] Abbott Architect c System
146.7 ± 1.45	157.7 ± 1.45	125.7 ± 1.36	150.4 ± 1.29	133.0 ± 1.16	n = 52	[OLC] Beckman Coulter AU Chemistry System
145.7 ± 2.40	157.0 ± 1.41	124.2 ± 1.36	149.1 ± 1.86	132.6 ± 0.57	n = 8	[BCS] Beckman Coulter CX
147.0 ± 1.60	158.9 ± 1.40	126.5 ± 1.52	150.9 ± 1.80	133.3 ± 1.63	n = 6	[BCX] Beckman Coulter LX-20
147.0 ± 0.94	158.9 ± 1.74	126.8 ± 1.38	150.8 ± 1.16	134.0 ± 1.13	n = 21	[BCG] Beckman Coulter UniCel DxC 600
146.5 ± 1.26	158.9 ± 1.30	126.4 ± 1.44	150.6 ± 1.72	133.6 ± 1.53	n = 21	[BCH] Beckman Coulter UniCel DxC 800
146.6 ± 0.56	156.2 ± 0.92	127.6 ± 0.56	152.3 ± 0.74	131.8 ± 0.47	n = 7	[IAA] i-STAT
155.2 ± 1.48	165.2 ± 1.46	130.1 ± 1.46	158.8 ± 1.55	136.7 ± 1.08	n = 12	[JJE] Ortho Vitros 250/350/950
154.6 ± 1.84	164.2 ± 2.12	128.7 ± 1.52	157.0 ± 1.81	134.5 ± 1.69	n = 22	[JJF] Ortho Vitros 5,1FS
154.6 ± 1.78	164.4 ± 2.57	128.8 ± 1.83	157.3 ± 2.88	134.8 ± 1.86	n = 14	[JJG] Ortho Vitros 5600
147.2 ± 1.60	158.9 ± 0.75	125.2 ± 1.59	151.2 ± 0.99	132.7 ± 1.23	n = 18	[ROC] Roche cobas c501
148.7 ± 1.37	161.2 ± 2.36	126.3 ± 1.37	152.5 ± 1.86	133.3 ± 0.51	n = 3	[ROH] Roche cobas c701
147.2 ± 1.07	159.5 ± 0.83	124.8 ± 1.07	150.6 ± 1.37	132.4 ± 1.09	n = 5	[ROS] Roche Cobas INTEGRA 400
147.0 ± 1.00	159.0 ± 0.64	125.4 ± 1.09	150.4 ± 1.09	132.0 ± 0.93	n = 5	[ROT] Roche Cobas INTEGRA 800
148.6 ± 1.74	160.5 ± 1.67	126.1 ± 1.37	152.2 ± 1.56	133.1 ± 1.06	n = 33	[ROD] Roche MODULAR D/P
149.1 ± 0.83	159.9 ± 0.98	128.1 ± 0.82	152.8 ± 1.02	135.2 ± 0.84	n = 19	[BYE] Siemens ADVIA 1800
148.3 ± 1.37	159.3 ± 0.51	127.0 ± 0.90	152.3 ± 0.51	134.3 ± 1.37	n = 3	[BYB] Siemens ADVIA 2400
147.3 ± 2.10	158.6 ± 2.00	127.2 ± 1.55	151.4 ± 2.10	134.5 ± 2.21	n = 12	[DUE] Siemens Dimension EXL
146.8 ± 1.76	158.1 ± 1.71	127.2 ± 1.37	151.0 ± 1.66	134.0 ± 1.60	n = 27	[DUR] Siemens Dimension RxL
146.4 ± 1.58	159.1 ± 1.81	129.5 ± 1.74	153.1 ± 1.82	136.7 ± 1.57	n = 35	[DUT] Siemens Dimension Vista
148.1 ± 1.29	159.7 ± 1.85	127.9 ± 1.22	152.4 ± 1.45	135.1 ± 1.31	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
143.8 ± 1.54	156.0 ± 0.90	122.6 ± 1.02	145.3 ± 0.51	131.6 ± 1.02	n = 3	[AX1] Abaxis
148.4 ± 1.52	159.3 ± 1.38	125.2 ± 0.93	151.3 ± 1.30	132.9 ± 0.97	n = 16	[AB1] Abbott
146.8 ± 1.23	158.7 ± 1.55	126.4 ± 1.61	150.6 ± 1.64	133.6 ± 1.42	n = 53	[BC1] Beckman Coulter
146.7 ± 1.47	157.7 ± 1.40	125.7 ± 1.33	150.4 ± 1.27	133.0 ± 1.18	n = 51	[OL1] Beckman Coulter AU Series
146.9 ± 1.88	158.1 ± 2.72	125.3 ± 2.47	150.0 ± 2.25	133.5 ± 1.23	n = 4	[CR1] Carolina
146.5 ± 0.57	156.0 ± 0.90	127.7 ± 0.51	152.2 ± 0.73	131.7 ± 0.51	n = 6	[IA1] i-STAT
150.0 ± 0.90	159.7 ± 1.37	128.5 ± 1.86	155.7 ± 1.37	133.6 ± 1.02	n = 3	[IL1] Instrumentation Lab
154.8 ± 1.74	164.6 ± 2.08	129.1 ± 1.74	157.7 ± 2.29	135.3 ± 1.98	n = 49	[JJ1] Ortho Clinical Diagnostics
147.5 ± 1.66	159.1 ± 1.23	125.5 ± 1.58	151.5 ± 1.26	132.9 ± 1.18	n = 22	[RO4] Roche cobas c311/c501/c502/c701
148.6 ± 1.74	160.5 ± 1.67	126.1 ± 1.37	152.2 ± 1.56	133.1 ± 1.06	n = 33	[RO2] Roche Hitachi and Modular D/P
147.1 ± 1.04	159.2 ± 0.81	125.1 ± 1.13	150.5 ± 1.23	132.2 ± 1.04	n = 10	[RO1] Roche Integra and MIRA
149.1 ± 1.02	159.9 ± 1.05	127.9 ± 0.90	152.8 ± 1.00	135.1 ± 0.98	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
147.0 ± 1.84	158.9 ± 1.92	128.1 ± 1.77	152.1 ± 1.90	135.3 ± 1.98	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Potassium (mmol/L)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
4.36 ± 0.12	6.13 ± 0.14	3.41 ± 0.09	4.11 ± 0.10	4.57 ± 0.10	n = 377	[---] All Methods & Instruments
						<Instruments>
4.57 ± 0.05	6.34 ± 0.10	3.50 ± 0.09	4.60 ± 0.18	4.86 ± 0.10	n = 3	[AXA] Abaxis Piccolo
4.38 ± 0.08	6.10 ± 0.00	3.40 ± 0.00	4.10 ± 0.00	4.53 ± 0.08	n = 15	[ABJ] Abbott Architect c System
4.35 ± 0.06	6.05 ± 0.08	3.40 ± 0.00	4.10 ± 0.00	4.54 ± 0.06	n = 52	[OLC] Beckman Coulter AU Chemistry System
4.29 ± 0.17	6.10 ± 0.00	3.34 ± 0.06	4.00 ± 0.15	4.56 ± 0.06	n = 8	[BCS] Beckman Coulter CX
4.38 ± 0.07	6.17 ± 0.10	3.36 ± 0.08	4.10 ± 0.06	4.56 ± 0.08	n = 6	[BCX] Beckman Coulter LX-20
4.36 ± 0.07	6.17 ± 0.07	3.39 ± 0.08	4.12 ± 0.07	4.59 ± 0.05	n = 21	[BCG] Beckman Coulter UniCel DxC 600
4.35 ± 0.07	6.15 ± 0.09	3.39 ± 0.06	4.11 ± 0.07	4.58 ± 0.08	n = 21	[BCH] Beckman Coulter UniCel DxC 800
4.30 ± 0.00	6.00 ± 0.00	3.40 ± 0.00	4.10 ± 0.00	4.46 ± 0.06	n = 7	[IAA] i-STAT
4.68 ± 0.04	6.44 ± 0.08	3.60 ± 0.00	4.37 ± 0.05	4.79 ± 0.05	n = 12	[JJE] Ortho Vitros 250/350/950
4.64 ± 0.09	6.37 ± 0.10	3.57 ± 0.08	4.32 ± 0.09	4.72 ± 0.07	n = 22	[JJF] Ortho Vitros 5,1FS
4.61 ± 0.09	6.37 ± 0.10	3.58 ± 0.05	4.29 ± 0.07	4.69 ± 0.06	n = 14	[JJG] Ortho Vitros 5600
4.26 ± 0.08	6.04 ± 0.12	3.30 ± 0.09	4.03 ± 0.11	4.49 ± 0.10	n = 17	[ROC] Roche cobas c501
4.34 ± 0.10	6.13 ± 0.14	3.37 ± 0.05	4.07 ± 0.05	4.57 ± 0.05	n = 3	[ROH] Roche cobas c701
4.40 ± 0.00	6.20 ± 0.00	3.40 ± 0.00	4.10 ± 0.00	4.60 ± 0.00	n = 5	[ROS] Roche Cobas INTEGRA 400
4.40 ± 0.00	6.20 ± 0.00	3.40 ± 0.00	4.10 ± 0.00	4.68 ± 0.08	n = 5	[ROT] Roche Cobas INTEGRA 800
4.30 ± 0.10	6.09 ± 0.10	3.35 ± 0.10	4.04 ± 0.08	4.51 ± 0.08	n = 33	[ROD] Roche MODULAR D/P
4.46 ± 0.06	6.23 ± 0.10	3.50 ± 0.04	4.20 ± 0.04	4.64 ± 0.06	n = 19	[BYE] Siemens ADVIA 1800
4.40 ± 0.00	6.13 ± 0.05	3.40 ± 0.09	4.20 ± 0.00	4.63 ± 0.14	n = 3	[BYB] Siemens ADVIA 2400
4.33 ± 0.08	6.12 ± 0.08	3.40 ± 0.00	4.05 ± 0.07	4.54 ± 0.07	n = 11	[DUE] Siemens Dimension EXL
4.32 ± 0.04	6.10 ± 0.07	3.39 ± 0.04	4.07 ± 0.05	4.54 ± 0.07	n = 28	[DUR] Siemens Dimension RxL
4.30 ± 0.05	6.06 ± 0.07	3.40 ± 0.00	4.11 ± 0.05	4.52 ± 0.05	n = 35	[DUT] Siemens Dimension Vista
4.33 ± 0.06	6.15 ± 0.08	3.40 ± 0.00	4.10 ± 0.00	4.57 ± 0.05	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
4.57 ± 0.05	6.34 ± 0.10	3.50 ± 0.09	4.60 ± 0.18	4.86 ± 0.10	n = 3	[AX1] Abaxis
4.38 ± 0.08	6.10 ± 0.00	3.40 ± 0.00	4.10 ± 0.00	4.52 ± 0.08	n = 16	[AB1] Abbott
4.36 ± 0.07	6.16 ± 0.08	3.38 ± 0.07	4.11 ± 0.07	4.58 ± 0.07	n = 53	[BC1] Beckman Coulter
4.35 ± 0.06	6.05 ± 0.08	3.40 ± 0.00	4.10 ± 0.00	4.54 ± 0.06	n = 51	[OL1] Beckman Coulter AU Series
4.32 ± 0.13	6.09 ± 0.11	3.35 ± 0.06	4.05 ± 0.12	4.58 ± 0.04	n = 4	[CR1] Carolina
4.30 ± 0.00	6.00 ± 0.00	3.40 ± 0.00	4.10 ± 0.00	4.45 ± 0.06	n = 6	[IA1] i-STAT
4.43 ± 0.14	6.15 ± 0.19	3.43 ± 0.14	4.10 ± 0.09	4.47 ± 0.05	n = 3	[IL1] Instrumentation Lab
4.64 ± 0.08	6.39 ± 0.10	3.59 ± 0.07	4.33 ± 0.08	4.73 ± 0.07	n = 49	[JJ1] Ortho Clinical Diagnostics
4.28 ± 0.10	6.06 ± 0.13	3.32 ± 0.10	4.05 ± 0.10	4.51 ± 0.11	n = 21	[RO4] Roche cobas c311/c501/c502/c701
4.30 ± 0.10	6.09 ± 0.10	3.35 ± 0.10	4.04 ± 0.08	4.51 ± 0.08	n = 33	[RO2] Roche Hitachi and Modular D/P
4.38 ± 0.04	6.20 ± 0.00	3.41 ± 0.04	4.10 ± 0.00	4.62 ± 0.07	n = 11	[RO1] Roche Integra and MIRA
4.45 ± 0.06	6.22 ± 0.10	3.49 ± 0.05	4.20 ± 0.00	4.63 ± 0.07	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
4.32 ± 0.06	6.10 ± 0.08	3.40 ± 0.00	4.09 ± 0.05	4.54 ± 0.06	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Chloride (mmol/L)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
108.4 ± 2.89	120.1 ± 2.75	101.1 ± 3.40	122.2 ± 3.36	105.3 ± 2.21	n = 372	[---] All Methods & Instruments
						<Instruments>
109.3 ± 1.37	118.5 ± 1.86	101.6 ± 1.02	120.0 ± 0.90	104.3 ± 0.51	n = 3	[AXA] Abaxis Piccolo
110.2 ± 1.37	120.7 ± 1.79	103.3 ± 1.21	124.1 ± 1.62	106.5 ± 0.95	n = 14	[ABJ] Abbott Architect c System
106.7 ± 0.94	117.6 ± 1.09	100.5 ± 1.06	120.9 ± 1.09	104.9 ± 1.02	n = 51	[OLC] Beckman Coulter AU Chemistry System
109.2 ± 3.96	121.6 ± 3.46	103.3 ± 3.15	125.0 ± 1.54	105.6 ± 2.76	n = 8	[BCS] Beckman Coulter CX
110.0 ± 2.15	121.3 ± 1.98	103.4 ± 1.82	124.7 ± 2.31	106.8 ± 2.07	n = 6	[BCX] Beckman Coulter LX-20
110.3 ± 1.41	121.6 ± 1.97	104.1 ± 1.78	125.2 ± 1.92	107.0 ± 1.30	n = 21	[BCG] Beckman Coulter UniCel DxC 600
109.5 ± 1.56	120.8 ± 1.56	103.7 ± 1.70	124.3 ± 1.87	106.4 ± 1.60	n = 21	[BCH] Beckman Coulter UniCel DxC 800
118.2 ± 1.45	127.3 ± 0.97	105.2 ± 0.73	128.6 ± 1.02	109.0 ± 0.00	n = 6	[IAA] i-STAT
111.4 ± 0.90	123.8 ± 1.38	104.7 ± 0.83	126.5 ± 1.08	108.7 ± 1.28	n = 12	[JJE] Ortho Vitros 250/350/950
111.2 ± 1.28	122.9 ± 1.63	103.8 ± 1.10	125.0 ± 1.83	107.3 ± 1.29	n = 22	[JJF] Ortho Vitros 5,1FS
111.3 ± 1.02	122.9 ± 1.28	103.7 ± 0.91	125.1 ± 1.46	107.3 ± 1.02	n = 14	[JJG] Ortho Vitros 5600
103.7 ± 1.79	116.0 ± 1.41	96.1 ± 1.85	119.0 ± 1.56	102.4 ± 1.15	n = 18	[ROC] Roche cobas c501
104.7 ± 0.51	116.4 ± 1.02	96.3 ± 0.51	118.9 ± 2.05	102.3 ± 1.37	n = 3	[ROH] Roche cobas c701
109.4 ± 1.33	120.7 ± 1.38	101.0 ± 1.54	122.5 ± 0.83	105.0 ± 0.00	n = 5	[ROS] Roche Cobas INTEGRA 400
109.0 ± 0.93	119.8 ± 0.80	101.3 ± 1.38	122.6 ± 1.09	105.7 ± 1.38	n = 5	[ROT] Roche Cobas INTEGRA 800
105.9 ± 1.54	118.2 ± 1.13	98.7 ± 1.37	120.5 ± 1.17	103.6 ± 1.16	n = 33	[ROD] Roche MODULAR D/P
109.0 ± 0.84	119.6 ± 0.84	101.6 ± 0.77	122.7 ± 0.81	105.3 ± 0.58	n = 19	[BYE] Siemens ADVIA 1800
107.7 ± 1.37	118.7 ± 1.37	100.0 ± 0.90	121.3 ± 1.37	103.0 ± 0.90	n = 3	[BYB] Siemens ADVIA 2400
106.4 ± 1.40	119.3 ± 1.19	96.9 ± 1.38	117.8 ± 1.24	103.4 ± 1.43	n = 11	[DUE] Siemens Dimension EXL
106.6 ± 1.33	120.0 ± 1.74	96.2 ± 1.21	118.3 ± 1.50	103.4 ± 1.36	n = 28	[DUR] Siemens Dimension RxL
110.5 ± 1.41	121.9 ± 1.68	102.4 ± 1.32	124.1 ± 1.52	106.3 ± 1.24	n = 36	[DUT] Siemens Dimension Vista
106.3 ± 1.39	119.3 ± 1.62	96.5 ± 1.27	117.4 ± 1.61	103.1 ± 1.27	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
109.3 ± 1.37	118.5 ± 1.86	101.6 ± 1.02	120.0 ± 0.90	104.3 ± 0.51	n = 3	[AX1] Abaxis
110.2 ± 1.30	120.7 ± 1.71	103.3 ± 1.16	124.2 ± 1.56	106.6 ± 0.93	n = 15	[AB1] Abbott
109.8 ± 1.74	121.2 ± 2.02	103.9 ± 1.93	124.8 ± 2.05	106.6 ± 1.77	n = 53	[BC1] Beckman Coulter
106.7 ± 0.95	117.5 ± 1.08	100.4 ± 1.07	120.9 ± 1.09	104.9 ± 1.03	n = 50	[OL1] Beckman Coulter AU Series
110.6 ± 3.55	122.0 ± 0.75	103.5 ± 1.22	124.8 ± 0.41	106.0 ± 1.76	n = 4	[CR1] Carolina
118.2 ± 1.45	127.3 ± 0.97	105.2 ± 0.73	128.6 ± 1.02	109.0 ± 0.00	n = 6	[IA1] i-STAT
111.3 ± 1.11	123.1 ± 1.53	104.0 ± 1.11	125.5 ± 1.74	107.6 ± 1.36	n = 49	[JJ1] Ortho Clinical Diagnostics
103.7 ± 1.73	115.9 ± 1.44	96.0 ± 1.75	118.8 ± 1.73	102.4 ± 1.20	n = 21	[RO4] Roche cobas c311/c501/c502/c701
105.9 ± 1.54	118.2 ± 1.13	98.7 ± 1.37	120.5 ± 1.17	103.6 ± 1.16	n = 33	[RO2] Roche Hitachi and Modular D/P
108.9 ± 1.49	120.0 ± 1.41	100.9 ± 1.84	122.4 ± 1.17	105.4 ± 1.35	n = 11	[RO1] Roche Integra and MIRA
108.9 ± 0.91	119.5 ± 0.88	101.5 ± 0.88	122.6 ± 0.97	105.2 ± 0.71	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
107.9 ± 2.55	120.4 ± 1.98	98.5 ± 3.44	120.0 ± 3.65	104.4 ± 2.04	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Albumin (g/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
5.46 ± 0.23	4.22 ± 0.15	3.68 ± 0.19	4.39 ± 0.19	3.61 ± 0.20	n = 362	[---] All Methods & Instruments
						<Instruments>
5.27 ± 0.05	4.20 ± 0.00	3.77 ± 0.05	4.47 ± 0.05	3.97 ± 0.05	n = 3	[AXA] Abaxis Piccolo
5.30 ± 0.07	4.16 ± 0.14	3.66 ± 0.12	4.31 ± 0.12	3.54 ± 0.07	n = 15	[ABJ] Abbott Architect c System
5.44 ± 0.13	4.23 ± 0.09	3.73 ± 0.09	4.43 ± 0.09	3.67 ± 0.09	n = 53	[OLC] Beckman Coulter AU Chemistry System
5.25 ± 0.20	3.95 ± 0.13	3.45 ± 0.10	4.18 ± 0.15	3.44 ± 0.14	n = 8	[BCS] Beckman Coulter CX
5.30 ± 0.06	4.00 ± 0.06	3.47 ± 0.05	4.20 ± 0.00	3.40 ± 0.00	n = 6	[BCX] Beckman Coulter LX-20
5.30 ± 0.05	3.98 ± 0.10	3.51 ± 0.07	4.20 ± 0.09	3.39 ± 0.09	n = 20	[BCG] Beckman Coulter UniCel DxC 600
5.38 ± 0.11	4.06 ± 0.07	3.55 ± 0.07	4.22 ± 0.09	3.46 ± 0.06	n = 21	[BCH] Beckman Coulter UniCel DxC 800
5.27 ± 0.14	4.23 ± 0.13	3.22 ± 0.09	4.10 ± 0.12	3.26 ± 0.12	n = 11	[JJE] Ortho Vitros 250/350/950
5.22 ± 0.17	4.20 ± 0.15	3.21 ± 0.13	4.09 ± 0.14	3.22 ± 0.13	n = 21	[JJF] Ortho Vitros 5,1FS
5.24 ± 0.14	4.23 ± 0.12	3.24 ± 0.11	4.11 ± 0.13	3.27 ± 0.09	n = 14	[JJG] Ortho Vitros 5600
5.52 ± 0.10	4.38 ± 0.09	3.84 ± 0.09	4.56 ± 0.08	3.83 ± 0.07	n = 17	[ROC] Roche cobas c501
5.43 ± 0.14	4.37 ± 0.14	3.70 ± 0.09	4.43 ± 0.05	3.67 ± 0.05	n = 3	[ROH] Roche cobas c701
5.41 ± 0.13	4.27 ± 0.11	3.80 ± 0.15	4.45 ± 0.18	3.72 ± 0.08	n = 5	[ROS] Roche Cobas INTEGRA 400
5.30 ± 0.00	4.24 ± 0.06	3.72 ± 0.08	4.40 ± 0.10	3.70 ± 0.00	n = 5	[ROT] Roche Cobas INTEGRA 800
5.50 ± 0.10	4.37 ± 0.09	3.79 ± 0.09	4.49 ± 0.09	3.78 ± 0.09	n = 34	[ROD] Roche MODULAR D/P
5.37 ± 0.07	4.28 ± 0.06	3.75 ± 0.06	4.47 ± 0.06	3.70 ± 0.00	n = 19	[BYE] Siemens ADVIA 1800
5.44 ± 0.10	4.33 ± 0.05	3.77 ± 0.05	4.50 ± 0.00	3.74 ± 0.10	n = 3	[BYB] Siemens ADVIA 2400
5.71 ± 0.09	4.20 ± 0.07	3.71 ± 0.05	4.47 ± 0.07	3.67 ± 0.07	n = 11	[DUE] Siemens Dimension EXL
5.73 ± 0.15	4.22 ± 0.10	3.72 ± 0.08	4.50 ± 0.10	3.66 ± 0.09	n = 28	[DUR] Siemens Dimension RxL
5.79 ± 0.10	4.26 ± 0.10	3.79 ± 0.09	4.54 ± 0.10	3.72 ± 0.08	n = 35	[DUT] Siemens Dimension Vista
5.70 ± 0.11	4.20 ± 0.09	3.70 ± 0.00	4.46 ± 0.08	3.63 ± 0.07	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
5.27 ± 0.05	4.20 ± 0.00	3.77 ± 0.05	4.47 ± 0.05	3.97 ± 0.05	n = 3	[AX1] Abaxis
5.30 ± 0.07	4.16 ± 0.14	3.66 ± 0.12	4.31 ± 0.12	3.54 ± 0.07	n = 15	[AB1] Abbott
5.32 ± 0.11	4.01 ± 0.09	3.52 ± 0.08	4.21 ± 0.09	3.42 ± 0.08	n = 51	[BC1] Beckman Coulter
5.44 ± 0.12	4.23 ± 0.09	3.74 ± 0.08	4.43 ± 0.09	3.67 ± 0.09	n = 52	[OL1] Beckman Coulter AU Series
5.27 ± 0.09	3.93 ± 0.09	3.42 ± 0.04	4.13 ± 0.08	3.43 ± 0.09	n = 4	[CR1] Carolina
5.24 ± 0.15	4.22 ± 0.13	3.22 ± 0.11	4.10 ± 0.13	3.25 ± 0.12	n = 47	[JJ1] Ortho Clinical Diagnostics
5.51 ± 0.11	4.38 ± 0.09	3.82 ± 0.10	4.54 ± 0.09	3.80 ± 0.09	n = 21	[RO4] Roche cobas c311/c501/c502/c701
5.49 ± 0.10	4.37 ± 0.09	3.79 ± 0.09	4.48 ± 0.10	3.78 ± 0.09	n = 34	[RO2] Roche Hitachi and Modular D/P
5.36 ± 0.11	4.25 ± 0.08	3.75 ± 0.12	4.42 ± 0.14	3.72 ± 0.06	n = 10	[RO1] Roche Integra and MIRA
5.38 ± 0.08	4.29 ± 0.06	3.75 ± 0.06	4.48 ± 0.05	3.71 ± 0.07	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
5.75 ± 0.12	4.23 ± 0.10	3.74 ± 0.09	4.50 ± 0.10	3.68 ± 0.09	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Total Protein (g/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
8.22 ± 0.25	7.08 ± 0.22	6.04 ± 0.18	7.24 ± 0.21	5.99 ± 0.18	n = 363	[---] All Methods & Instruments
						<Instruments>
8.16 ± 0.10	7.07 ± 0.05	5.97 ± 0.05	7.17 ± 0.05	6.00 ± 0.00	n = 3	[AXA] Abaxis Piccolo
8.18 ± 0.08	7.08 ± 0.06	5.95 ± 0.06	7.20 ± 0.00	5.89 ± 0.05	n = 15	[ABJ] Abbott Architect c System
8.03 ± 0.12	6.94 ± 0.13	5.92 ± 0.12	7.08 ± 0.14	5.87 ± 0.11	n = 52	[OLC] Beckman Coulter AU Chemistry System
8.22 ± 0.09	6.97 ± 0.09	6.06 ± 0.17	7.24 ± 0.09	6.08 ± 0.16	n = 8	[BCS] Beckman Coulter CX
7.94 ± 0.13	6.79 ± 0.10	5.86 ± 0.13	7.02 ± 0.13	5.81 ± 0.10	n = 7	[BCX] Beckman Coulter LX-20
8.08 ± 0.25	6.95 ± 0.25	5.99 ± 0.21	7.20 ± 0.23	5.90 ± 0.20	n = 19	[BCG] Beckman Coulter UniCel DxC 600
7.95 ± 0.15	6.76 ± 0.13	5.86 ± 0.07	7.04 ± 0.11	5.81 ± 0.12	n = 21	[BCH] Beckman Coulter UniCel DxC 800
8.26 ± 0.26	7.11 ± 0.17	6.03 ± 0.19	7.27 ± 0.20	5.95 ± 0.21	n = 12	[JJE] Ortho Vitros 250/350/950
8.45 ± 0.22	7.10 ± 0.21	6.05 ± 0.19	7.25 ± 0.23	5.91 ± 0.22	n = 22	[JJF] Ortho Vitros 5,1FS
8.42 ± 0.18	7.16 ± 0.13	6.09 ± 0.11	7.30 ± 0.15	5.98 ± 0.13	n = 14	[JJG] Ortho Vitros 5600
8.16 ± 0.14	7.07 ± 0.14	6.03 ± 0.10	7.20 ± 0.14	5.98 ± 0.10	n = 17	[ROC] Roche cobas c501
7.93 ± 0.14	6.85 ± 0.19	5.83 ± 0.14	7.03 ± 0.14	5.86 ± 0.10	n = 3	[ROH] Roche cobas c701
8.04 ± 0.13	7.04 ± 0.15	5.99 ± 0.13	7.10 ± 0.10	5.99 ± 0.13	n = 5	[ROS] Roche Cobas INTEGRA 400
7.90 ± 0.00	6.90 ± 0.00	5.86 ± 0.06	7.00 ± 0.06	5.92 ± 0.04	n = 5	[ROT] Roche Cobas INTEGRA 800
8.13 ± 0.12	7.01 ± 0.10	5.98 ± 0.09	7.16 ± 0.10	5.97 ± 0.07	n = 34	[ROD] Roche MODULAR D/P
8.29 ± 0.12	7.13 ± 0.11	6.13 ± 0.09	7.35 ± 0.09	6.06 ± 0.10	n = 19	[BYE] Siemens ADVIA 1800
8.33 ± 0.05	7.20 ± 0.00	6.17 ± 0.05	7.43 ± 0.05	6.10 ± 0.09	n = 3	[BYB] Siemens ADVIA 2400
8.41 ± 0.08	7.29 ± 0.07	6.18 ± 0.06	7.44 ± 0.08	6.17 ± 0.06	n = 11	[DUE] Siemens Dimension EXL
8.45 ± 0.14	7.32 ± 0.15	6.21 ± 0.12	7.47 ± 0.14	6.18 ± 0.10	n = 28	[DUR] Siemens Dimension RxL
8.40 ± 0.09	7.28 ± 0.12	6.18 ± 0.09	7.42 ± 0.08	6.17 ± 0.08	n = 35	[DUT] Siemens Dimension Vista
8.43 ± 0.16	7.27 ± 0.10	6.21 ± 0.11	7.42 ± 0.13	6.15 ± 0.10	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
8.16 ± 0.10	7.07 ± 0.05	5.97 ± 0.05	7.17 ± 0.05	6.00 ± 0.00	n = 3	[AX1] Abaxis
8.18 ± 0.08	7.08 ± 0.06	5.95 ± 0.06	7.20 ± 0.00	5.89 ± 0.05	n = 15	[AB1] Abbott
8.02 ± 0.20	6.84 ± 0.19	5.91 ± 0.14	7.10 ± 0.17	5.85 ± 0.16	n = 52	[BC1] Beckman Coulter
8.04 ± 0.11	6.95 ± 0.12	5.92 ± 0.11	7.08 ± 0.13	5.87 ± 0.10	n = 51	[OL1] Beckman Coulter AU Series
8.35 ± 0.22	7.13 ± 0.25	6.20 ± 0.24	7.39 ± 0.31	6.20 ± 0.18	n = 4	[CR1] Carolina
8.39 ± 0.24	7.12 ± 0.19	6.06 ± 0.17	7.27 ± 0.20	5.94 ± 0.20	n = 48	[JJ1] Ortho Clinical Diagnostics
8.14 ± 0.16	7.05 ± 0.16	6.01 ± 0.12	7.17 ± 0.16	5.97 ± 0.11	n = 20	[RO4] Roche cobas c311/c501/c502/c701
8.13 ± 0.12	7.01 ± 0.10	5.98 ± 0.09	7.15 ± 0.10	5.97 ± 0.07	n = 35	[RO2] Roche Hitachi and Modular D/P
7.94 ± 0.12	6.93 ± 0.12	5.91 ± 0.11	7.04 ± 0.10	5.94 ± 0.13	n = 10	[RO1] Roche Integra and MIRA
8.30 ± 0.12	7.15 ± 0.11	6.15 ± 0.09	7.37 ± 0.10	6.07 ± 0.11	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
8.42 ± 0.12	7.29 ± 0.12	6.20 ± 0.10	7.44 ± 0.11	6.17 ± 0.09	n = 94	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Cholesterol (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
153.2 ± 6.19	284.8 ± 8.79	147.9 ± 5.87	178.4 ± 7.66	166.4 ± 4.71	n = 332	[---] All Methods & Instruments
						<Instruments>
158.0 ± 1.80	284.5 ± 5.43	154.2 ± 2.36	184.4 ± 1.02	170.4 ± 3.87	n = 3	[AXA] Abaxis Piccolo
155.9 ± 2.05	289.9 ± 2.98	148.7 ± 1.87	179.3 ± 2.20	168.8 ± 2.01	n = 14	[ABJ] Abbott Architect c System
149.6 ± 3.70	280.6 ± 6.54	142.6 ± 3.71	171.7 ± 4.08	163.1 ± 4.06	n = 57	[OLC] Beckman Coulter AU Chemistry System
149.8 ± 5.71	284.1 ± 7.11	146.3 ± 6.47	174.8 ± 7.49	165.0 ± 5.98	n = 9	[BCS] Beckman Coulter CX
150.2 ± 2.37	279.8 ± 1.27	146.2 ± 3.55	177.2 ± 3.34	163.9 ± 1.87	n = 5	[BCX] Beckman Coulter LX-20
153.5 ± 1.86	283.3 ± 4.11	150.0 ± 3.47	181.0 ± 3.03	166.9 ± 3.29	n = 17	[BCG] Beckman Coulter UniCel DxC 600
151.7 ± 2.31	279.0 ± 6.30	147.1 ± 3.95	178.1 ± 3.24	163.9 ± 4.00	n = 18	[BCH] Beckman Coulter UniCel DxC 800
171.0 ± 0.00	294.9 ± 7.28	158.5 ± 1.61	196.7 ± 4.58	169.4 ± 3.97	n = 5	[JJE] Ortho Vitros 250/350/950
171.5 ± 4.97	295.0 ± 4.34	157.4 ± 5.25	194.5 ± 5.65	166.7 ± 4.47	n = 21	[JJF] Ortho Vitros 5,1FS
172.0 ± 5.79	297.2 ± 5.41	157.4 ± 3.12	192.9 ± 5.18	168.1 ± 2.88	n = 14	[JJG] Ortho Vitros 5600
157.1 ± 3.12	287.9 ± 4.37	150.0 ± 2.71	180.7 ± 3.45	168.7 ± 2.45	n = 16	[ROC] Roche cobas c501
151.8 ± 7.69	283.4 ± 8.81	147.0 ± 6.37	176.9 ± 5.22	167.0 ± 6.37	n = 3	[ROH] Roche cobas c701
154.9 ± 4.05	292.5 ± 7.50	148.2 ± 3.40	179.9 ± 3.65	169.9 ± 3.65	n = 5	[ROS] Roche Cobas INTEGRA 400
152.8 ± 0.80	286.1 ± 3.37	146.4 ± 1.37	177.8 ± 3.31	168.8 ± 4.37	n = 5	[ROT] Roche Cobas INTEGRA 800
154.4 ± 3.49	286.6 ± 7.54	148.9 ± 3.55	178.9 ± 4.30	168.0 ± 3.78	n = 35	[ROD] Roche MODULAR D/P
155.3 ± 2.71	280.2 ± 2.76	151.3 ± 3.43	182.2 ± 3.54	165.4 ± 2.83	n = 19	[BYE] Siemens ADVIA 1800
156.3 ± 2.26	284.4 ± 4.72	150.8 ± 2.36	185.5 ± 3.63	166.0 ± 1.80	n = 3	[BYB] Siemens ADVIA 2400
150.6 ± 4.15	284.1 ± 7.78	145.3 ± 4.27	175.5 ± 4.28	167.3 ± 5.12	n = 11	[DUE] Siemens Dimension EXL
151.9 ± 5.42	286.9 ± 8.53	146.8 ± 4.95	178.3 ± 4.83	169.1 ± 5.37	n = 20	[DUR] Siemens Dimension RxL
149.6 ± 5.21	277.3 ± 8.66	144.1 ± 4.66	171.9 ± 5.86	164.6 ± 5.96	n = 30	[DUT] Siemens Dimension Vista
150.7 ± 3.48	285.0 ± 6.48	146.0 ± 4.06	176.7 ± 3.54	167.0 ± 4.37	n = 14	[DUX] Siemens Dimension Xpand
						<Reagents>
158.0 ± 1.80	284.5 ± 5.43	154.2 ± 2.36	184.4 ± 1.02	170.4 ± 3.87	n = 3	[AX1] Abaxis
155.9 ± 2.05	289.9 ± 2.98	148.7 ± 1.87	179.3 ± 2.20	168.8 ± 2.01	n = 14	[AB1] Abbott
152.4 ± 2.78	281.8 ± 5.45	148.3 ± 4.28	179.1 ± 4.16	165.3 ± 3.91	n = 46	[BC1] Beckman Coulter
149.5 ± 3.52	280.5 ± 6.38	142.4 ± 3.51	171.5 ± 3.87	163.0 ± 3.68	n = 54	[OL1] Beckman Coulter AU Series
148.8 ± 7.60	286.3 ± 13.72	145.0 ± 6.79	173.3 ± 9.18	164.9 ± 7.44	n = 4	[CR1] Carolina
171.7 ± 4.68	295.8 ± 5.43	157.5 ± 3.92	194.2 ± 5.47	167.5 ± 4.07	n = 40	[JJ1] Ortho Clinical Diagnostics
156.8 ± 3.84	287.5 ± 5.33	149.9 ± 3.47	180.3 ± 4.04	168.6 ± 3.31	n = 19	[RO4] Roche cobas c311/c501/c502/c701
154.4 ± 3.33	286.8 ± 7.40	148.9 ± 3.54	179.0 ± 4.14	168.1 ± 3.56	n = 36	[RO2] Roche Hitachi and Modular D/P
153.6 ± 2.84	288.8 ± 6.57	147.2 ± 2.64	178.8 ± 3.74	169.3 ± 4.17	n = 10	[RO1] Roche Integra and MIRA
155.6 ± 2.54	280.7 ± 3.96	151.4 ± 3.20	182.7 ± 3.64	165.7 ± 2.70	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
150.5 ± 4.91	282.3 ± 9.17	145.3 ± 4.75	175.1 ± 5.87	166.7 ± 5.75	n = 75	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

HDL-Cholesterol (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
40.9 ± 5.09	81.4 ± 9.01	35.2 ± 4.14	42.6 ± 5.73	71.0 ± 15.62	n = 316	[---] All Methods & Instruments
42.8 ± 6.19	85.0 ± 9.37	35.1 ± 4.91	43.3 ± 6.54	71.3 ± 8.80	n = 19	[---] All Precipitation Methods
40.8 ± 5.00	81.1 ± 8.92	35.2 ± 4.10	42.5 ± 5.67	70.9 ± 16.04	n = 297	[---] All Homogeneous (Direct) Methods
30.3 ± 1.37	69.5 ± 4.61	25.3 ± 0.51	31.4 ± 2.56	60.0 ± 1.80	n = 3	[AX1] Abaxis
43.3 ± 1.37	82.9 ± 2.94	38.6 ± 1.39	46.0 ± 1.90	51.9 ± 1.93	n = 13	[AB1] Abbott
45.6 ± 2.02	94.1 ± 4.18	39.9 ± 1.65	49.1 ± 1.95	73.4 ± 3.32	n = 38	[BC1] Beckman Coulter
44.0 ± 1.74	84.8 ± 3.55	38.5 ± 1.72	46.8 ± 1.94	53.2 ± 3.61	n = 38	[OL1] Beckman Coulter AU Series
49.3 ± 4.22	96.0 ± 7.21	44.5 ± 3.63	53.5 ± 4.53	67.7 ± 8.57	n = 3	[CR1] Carolina
44.9 ± 1.27	86.7 ± 4.43	40.9 ± 1.83	49.2 ± 1.89	55.2 ± 2.32	n = 5	[EQ1/GZ1] Equal/Sekisui(Genzyme)
47.9 ± 1.42	93.6 ± 2.91	38.4 ± 1.53	48.4 ± 1.43	67.2 ± 2.43	n = 32	[JJ1] Ortho Clinical Diagnostics
37.8 ± 1.82	74.9 ± 3.38	32.6 ± 1.50	38.3 ± 2.00	83.0 ± 4.71	n = 16	[RO4] Roche cobas c311/c501/c502/c701
38.8 ± 1.71	77.6 ± 3.28	33.6 ± 1.64	39.9 ± 1.96	85.2 ± 4.20	n = 31	[RO2] Roche Hitachi and Modular D/P
38.2 ± 1.28	76.1 ± 0.83	33.1 ± 1.12	39.0 ± 1.49	84.3 ± 4.59	n = 9	[RO1] Roche Integra and MIRA
34.5 ± 1.35	73.2 ± 3.27	30.5 ± 1.23	37.4 ± 1.40	31.4 ± 1.67	n = 22	[BY1] Siemens ADVIA/ADVIA Centaur
37.3 ± 1.61	75.2 ± 2.65	32.2 ± 1.19	38.4 ± 1.51	80.2 ± 2.99	n = 69	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

LDL-Cholesterol (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
92.0 ± 13.33	164.0 ± 18.31	91.0 ± 12.67	109.8 ± 14.18	80.4 ± 14.53	n = 303	[---] All Methods & Instruments
99.1 ± 7.63	172.8 ± 11.30	97.5 ± 7.06	116.7 ± 9.17	83.1 ± 14.36	n = 159	[-A-] All Calculated Results Friedewald formula [LDL=TC-HDL-(Trigs÷5)]
81.9 ± 12.38	151.3 ± 18.93	82.1 ± 11.99	100.7 ± 13.94	77.1 ± 13.98	n = 141	[---] All Homogeneous (Direct) Methods
78.3 ± 1.51	142.6 ± 2.31	79.0 ± 0.75	95.6 ± 1.64	74.5 ± 1.23	n = 4	[AB1] Abbott
71.6 ± 1.87	135.8 ± 4.03	72.8 ± 2.38	89.8 ± 2.72	69.4 ± 1.94	n = 17	[BC1] Beckman Coulter
67.3 ± 3.92	125.9 ± 6.06	68.5 ± 3.77	82.8 ± 2.87	65.1 ± 3.57	n = 19	[OL1] Beckman Coulter AU Series
74.8 ± 8.97	136.1 ± 15.46	75.1 ± 9.05	91.8 ± 9.59	71.5 ± 9.14	n = 13	[EQ1/GZ1] Equal/Sekisui(Genzyme)
82.4 ± 2.42	165.3 ± 4.61	81.7 ± 2.01	103.4 ± 3.00	67.7 ± 2.43	n = 15	[JJ1] Ortho Clinical Diagnostics
107.0 ± 4.18	181.6 ± 6.59	106.5 ± 3.77	128.4 ± 4.85	109.4 ± 3.79	n = 6	[RO4] Roche cobas c311/c501/c502/c701
103.5 ± 2.22	177.1 ± 4.67	103.3 ± 3.10	125.2 ± 2.66	105.5 ± 2.42	n = 16	[RO2] Roche Hitachi and Modular D/P
79.9 ± 8.09	146.2 ± 9.60	81.2 ± 3.61	98.3 ± 8.65	92.8 ± 1.46	n = 4	[RO1] Roche Integra and MIRA
81.1 ± 5.30	156.9 ± 9.05	81.6 ± 5.43	101.2 ± 6.80	71.6 ± 4.53	n = 12	[BY1] Siemens ADVIA/ADVIA Centaur
87.5 ± 4.81	155.3 ± 7.74	87.3 ± 4.90	106.1 ± 5.36	83.9 ± 6.38	n = 33	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Triglycerides (mg/dL)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
79.4 ± 4.91	156.0 ± 6.92	80.7 ± 4.94	106.2 ± 5.80	67.8 ± 4.35	n = 324	[---] All Methods & Instruments
						<Instruments>
90.3 ± 1.37	177.8 ± 4.10	91.7 ± 1.37	119.0 ± 2.70	78.5 ± 1.86	n = 3	[AXA] Abaxis Piccolo
78.8 ± 2.38	150.1 ± 3.09	84.0 ± 2.41	107.5 ± 3.02	65.8 ± 2.06	n = 15	[ABJ] Abbott Architect c System
76.5 ± 1.88	152.9 ± 3.71	76.9 ± 2.15	101.2 ± 2.46	65.5 ± 1.95	n = 55	[OLC] Beckman Coulter AU Chemistry System
89.0 ± 12.96	179.8 ± 22.23	84.8 ± 6.97	112.8 ± 7.16	69.7 ± 6.43	n = 8	[BCS] Beckman Coulter CX
82.1 ± 1.83	159.9 ± 1.13	80.5 ± 1.62	107.3 ± 2.77	70.3 ± 2.18	n = 5	[BCX] Beckman Coulter LX-20
81.0 ± 3.57	161.7 ± 5.26	81.8 ± 3.26	109.1 ± 3.24	71.5 ± 2.47	n = 14	[BCG] Beckman Coulter UniCel DxC 600
80.8 ± 2.17	161.1 ± 4.83	80.1 ± 2.60	106.6 ± 2.85	70.2 ± 3.03	n = 15	[BCH] Beckman Coulter UniCel DxC 800
85.8 ± 0.80	161.0 ± 1.54	83.0 ± 0.00	112.6 ± 1.09	73.6 ± 0.55	n = 5	[JJE] Ortho Vitros 250/350/950
82.4 ± 2.32	154.5 ± 3.94	78.8 ± 1.96	106.9 ± 3.13	69.6 ± 1.64	n = 21	[JJF] Ortho Vitros 5,1FS
81.9 ± 2.93	154.1 ± 5.14	79.3 ± 2.91	106.7 ± 3.77	70.0 ± 2.04	n = 14	[JJG] Ortho Vitros 5600
80.8 ± 1.79	159.1 ± 3.51	85.0 ± 2.18	108.2 ± 2.53	70.7 ± 2.17	n = 16	[ROC] Roche cobas c501
79.3 ± 0.51	157.0 ± 4.60	85.7 ± 1.37	107.3 ± 2.26	70.5 ± 1.86	n = 3	[ROH] Roche cobas c701
76.1 ± 1.14	151.2 ± 6.53	78.5 ± 3.40	100.1 ± 4.35	67.2 ± 0.41	n = 5	[ROS] Roche Cobas INTEGRA 400
75.5 ± 1.22	153.0 ± 2.28	78.7 ± 0.90	100.8 ± 0.41	67.5 ± 1.22	n = 4	[ROT] Roche Cobas INTEGRA 800
78.4 ± 2.97	155.0 ± 4.49	82.8 ± 3.43	106.7 ± 4.14	67.4 ± 2.95	n = 35	[ROD] Roche MODULAR D/P
80.4 ± 2.58	155.2 ± 2.72	82.0 ± 2.48	107.8 ± 2.37	67.4 ± 2.56	n = 19	[BYE] Siemens ADVIA 1800
79.7 ± 1.37	156.7 ± 3.07	82.5 ± 2.74	107.3 ± 4.06	65.2 ± 1.54	n = 3	[BYB] Siemens ADVIA 2400
75.0 ± 2.23	151.8 ± 2.64	77.6 ± 2.65	103.1 ± 2.69	61.7 ± 2.08	n = 11	[DUE] Siemens Dimension EXL
74.0 ± 2.88	151.6 ± 5.96	76.9 ± 2.57	101.7 ± 3.95	61.1 ± 3.09	n = 20	[DUR] Siemens Dimension RxL
86.6 ± 3.03	166.8 ± 4.43	89.0 ± 2.39	115.6 ± 3.03	72.2 ± 2.16	n = 32	[DUT] Siemens Dimension Vista
73.0 ± 5.41	151.0 ± 6.90	76.6 ± 3.88	101.9 ± 4.37	61.2 ± 2.04	n = 12	[DUX] Siemens Dimension Xpand
						<Reagents>
90.3 ± 1.37	177.8 ± 4.10	91.7 ± 1.37	119.0 ± 2.70	78.5 ± 1.86	n = 3	[AX1] Abaxis
78.8 ± 2.38	150.1 ± 3.09	84.0 ± 2.41	107.5 ± 3.02	65.8 ± 2.06	n = 15	[AB1] Abbott
81.1 ± 3.34	161.3 ± 5.48	80.6 ± 2.87	107.6 ± 3.39	70.2 ± 3.22	n = 40	[BC1] Beckman Coulter
76.4 ± 1.75	152.7 ± 3.57	76.9 ± 2.02	101.2 ± 2.30	65.6 ± 1.79	n = 51	[OL1] Beckman Coulter AU Series
93.5 ± 15.09	191.4 ± 21.77	89.7 ± 9.36	120.8 ± 20.15	74.4 ± 3.24	n = 5	[CR1] Carolina
82.7 ± 2.83	155.2 ± 4.86	79.5 ± 2.81	107.5 ± 3.85	70.2 ± 2.23	n = 40	[JJ1] Ortho Clinical Diagnostics
80.5 ± 1.72	158.8 ± 3.83	85.1 ± 2.06	108.1 ± 2.51	70.7 ± 2.09	n = 19	[RO4] Roche cobas c311/c501/c502/c701
78.1 ± 2.93	154.7 ± 4.73	82.5 ± 3.45	106.5 ± 4.32	67.3 ± 2.90	n = 35	[RO2] Roche Hitachi and Modular D/P
75.8 ± 1.25	153.4 ± 3.23	79.1 ± 2.60	101.2 ± 3.05	67.5 ± 1.17	n = 10	[RO1] Roche Integra and MIRA
80.2 ± 2.27	155.5 ± 2.70	82.1 ± 2.46	107.9 ± 2.73	67.0 ± 2.45	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
79.4 ± 7.75	158.3 ± 10.14	82.1 ± 7.46	108.1 ± 8.56	65.7 ± 6.56	n = 74	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Homocysteine (µmol/L)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
27.32 ± 2.41	10.55 ± 1.43	14.49 ± 1.54	17.76 ± 1.66	7.90 ± 3.29	n = 124	[---] All Methods & Instruments
						<Instruments>
27.93 ± 0.68	10.86 ± 0.33	14.97 ± 0.65	17.94 ± 0.53	3.31 ± 0.31	n = 10	[ABH] Abbott Architect i System
26.36 ± 2.25	10.98 ± 1.06	13.77 ± 0.94	16.50 ± 1.37	3.80 ± 0.44	n = 4	[ABB] Abbott AxSym
28.88 ± 1.09	11.51 ± 0.53	15.72 ± 0.79	19.08 ± 0.91	11.02 ± 0.55	n = 23	[OLC] Beckman Coulter AU Chemistry System
30.62 ± 0.45	11.99 ± 0.51	16.27 ± 0.49	19.47 ± 0.40	11.61 ± 0.56	n = 4	[BCH] Beckman Coulter UniCel DxC 800
27.57 ± 1.40	11.23 ± 0.77	14.26 ± 0.93	17.51 ± 0.80	10.40 ± 0.43	n = 4	[JJG] Ortho Vitros 5600
28.89 ± 1.08	11.82 ± 0.33	16.12 ± 1.02	19.63 ± 1.04	10.93 ± 1.14	n = 6	[ROD] Roche MODULAR D/P
24.78 ± 1.30	8.97 ± 0.69	13.05 ± 0.73	16.46 ± 0.82	7.39 ± 0.54	n = 24	[COB] Siemens ADVIA Centaur
25.68 ± 1.92	9.42 ± 0.70	12.85 ± 0.94	15.60 ± 1.81	7.87 ± 0.72	n = 7	[DUT] Siemens Dimension Vista
27.75 ± 2.07	10.07 ± 1.24	14.37 ± 1.09	17.58 ± 1.28	3.98 ± 0.64	n = 20	[DPD] Siemens Immulite 2000
26.19 ± 1.89	9.75 ± 0.19	13.80 ± 1.09	17.00 ± 1.27	4.64 ± 0.26	n = 3	[DPE] Siemens Immulite 2500
						<Reagents>
27.83 ± 1.08	10.89 ± 0.59	14.71 ± 0.85	17.76 ± 0.78	3.42 ± 0.35	n = 14	[AB1] Abbott
29.47 ± 1.56	12.68 ± 0.81	15.87 ± 0.54	19.34 ± 0.29	11.47 ± 0.16	n = 9	[CR1] Carolina
28.90 ± 1.28	11.42 ± 0.49	15.71 ± 0.86	18.99 ± 1.01	10.81 ± 0.71	n = 26	[DZ1] Diazyme
26.73 ± 1.73	10.79 ± 0.88	13.66 ± 1.14	16.86 ± 1.13	9.92 ± 0.78	n = 6	[JJ1] Ortho Clinical Diagnostics
24.78 ± 1.30	8.97 ± 0.69	13.05 ± 0.73	16.46 ± 0.82	7.39 ± 0.54	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
26.21 ± 1.53	9.59 ± 0.56	13.05 ± 0.86	15.91 ± 1.80	8.02 ± 0.68	n = 6	[DA5] Siemens Dimension
27.55 ± 2.13	9.99 ± 1.14	14.29 ± 1.11	17.50 ± 1.28	4.09 ± 0.66	n = 23	[DP5] Siemens Immulite

Summary of Participant Performance (Mean and Standard Deviation)

Troponin I (µg/L)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
0.018 ± 0.018	4.899 ± 1.220	0.391 ± 0.119	0.435 ± 0.107	0.018 ± 0.018	n = 226	[---] All Methods & Instruments
						<Instruments>
0.010 ± 0.006	33.514 ± 2.048	2.737 ± 0.194	3.154 ± 0.239	0.009 ± 0.007	n = 17	[ABH] Abbott Architect i System
0.010 ± 0.000	4.266 ± 0.419	0.334 ± 0.036	0.374 ± 0.041	0.010 ± 0.000	n = 31	[SAA] Beckman Coulter ACCESS
0.050 ± 0.000	3.746 ± 0.890	0.050 ± 0.000	0.062 ± 0.011	0.050 ± 0.000	n = 10	[BSA] BioSite Triage
0.037 ± 0.043	28.447 ± 4.311	1.805 ± 0.276	2.070 ± 0.214	0.037 ± 0.043	n = 4	[IAA] i-STAT
0.010 ± 0.000	19.076 ± 0.858	1.573 ± 0.053	1.730 ± 0.079	0.010 ± 0.000	n = 12	[JJG] Ortho Vitros 5600
0.010 ± 0.000	18.665 ± 1.021	1.586 ± 0.084	1.758 ± 0.073	0.010 ± 0.000	n = 13	[JJC] Ortho Vitros ECi/ECiQ
0.010 ± 0.006	6.665 ± 0.523	0.366 ± 0.033	0.408 ± 0.034	0.010 ± 0.006	n = 41	[COB] Siemens ADVIA Centaur
0.055 ± 0.034	6.953 ± 0.722	0.407 ± 0.052	0.422 ± 0.076	0.055 ± 0.034	n = 4	[BYP] Siemens ADVIA Centaur CP
0.076 ± 0.038	4.554 ± 0.286	0.545 ± 0.030	0.566 ± 0.044	0.066 ± 0.045	n = 9	[DUE] Siemens Dimension EXL
0.040 ± 0.000	4.624 ± 0.380	0.354 ± 0.062	0.417 ± 0.062	0.040 ± 0.000	n = 20	[DUR] Siemens Dimension RxL
0.020 ± 0.000	4.495 ± 0.289	0.537 ± 0.035	0.570 ± 0.036	0.020 ± 0.000	n = 33	[DUT] Siemens Dimension Vista
0.023 ± 0.028	4.563 ± 0.347	0.353 ± 0.053	0.428 ± 0.036	0.023 ± 0.028	n = 11	[DUX] Siemens Dimension Xpand
0.200 ± 0.000	11.374 ± 0.991	1.043 ± 0.058	1.184 ± 0.048	0.200 ± 0.000	n = 4	[DPD] Siemens Immulite 2000
0.060 ± 0.000	34.252 ± 1.796	3.071 ± 0.241	3.541 ± 0.263	0.060 ± 0.000	n = 6	[TOM] Tosoh Bioscience
						<Reagents>
0.009 ± 0.007	33.069 ± 2.347	2.705 ± 0.254	3.086 ± 0.386	0.009 ± 0.007	n = 22	[AB1] Abbott
0.010 ± 0.000	4.253 ± 0.405	0.334 ± 0.034	0.373 ± 0.040	0.010 ± 0.006	n = 33	[BC1] Beckman Coulter
0.050 ± 0.000	3.746 ± 0.890	0.050 ± 0.000	0.062 ± 0.011	0.050 ± 0.000	n = 10	[BS1] Biosite Diagnostics
0.010 ± 0.000	18.870 ± 0.973	1.579 ± 0.069	1.744 ± 0.079	0.010 ± 0.000	n = 25	[JJ1] Ortho Clinical Diagnostics
0.305 ± 0.006	2.506 ± 0.115	0.321 ± 0.039	0.336 ± 0.039	0.305 ± 0.006	n = 4	[RO3] Roche Elecsys/Modular E/e601/e411
0.010 ± 0.006	6.684 ± 0.544	0.369 ± 0.038	0.410 ± 0.037	0.010 ± 0.006	n = 45	[BY1] Siemens ADVIA/ADVIA Centaur
0.036 ± 0.023	4.596 ± 0.366	0.357 ± 0.067	0.425 ± 0.055	0.034 ± 0.023	n = 32	[DA5] Siemens Dimension
0.032 ± 0.032	4.510 ± 0.295	0.539 ± 0.034	0.571 ± 0.038	0.020 ± 0.000	n = 41	[DA6] Siemens Dimension LOCI
0.200 ± 0.000	10.839 ± 1.756	1.012 ± 0.109	1.184 ± 0.049	0.200 ± 0.000	n = 5	[DP5] Siemens Immulite
0.060 ± 0.000	33.864 ± 1.557	3.033 ± 0.257	3.491 ± 0.281	0.060 ± 0.000	n = 5	[TO2] Tosoh ST AIA

Summary of Participant Performance (Mean and Standard Deviation)

Troponin T (µg/L)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
0.010 ± 0.000	2.190 ± 0.175	0.362 ± 0.024	0.422 ± 0.030	0.010 ± 0.000	n = 34	[---] All Methods & Instruments
						<Instruments>
0.847 ± 1.531	1.535 ± 1.112	0.254 ± 0.184	0.305 ± 0.219	2.493 ± 4.541	n = 3	[ROF] Roche cobas e411
0.010 ± 0.000	2.263 ± 0.142	0.367 ± 0.022	0.439 ± 0.023	0.010 ± 0.000	n = 8	[ROA] Roche cobas e601
0.010 ± 0.000	2.278 ± 0.162	0.369 ± 0.030	0.421 ± 0.032	0.010 ± 0.000	n = 11	[BME] Roche Elecsys
0.010 ± 0.000	2.065 ± 0.111	0.355 ± 0.020	0.410 ± 0.023	0.010 ± 0.000	n = 10	[ROE] Roche MODULAR E
						<Reagents>
0.010 ± 0.000	2.181 ± 0.182	0.360 ± 0.024	0.418 ± 0.030	0.010 ± 0.000	n = 30	[RO3] Roche Elecsys/Modular E/e601/e411

Summary of Participant Performance (Mean and Standard Deviation)

Alanine Aminotransferase (U/L 37°C)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
173.8 ± 10.65	44.7 ± 6.81	75.5 ± 9.01	90.0 ± 8.97	146.9 ± 12.45	n = 363	[---] All Methods & Instruments
						<Instruments>
155.0 ± 0.90	42.6 ± 2.56	71.6 ± 3.87	81.5 ± 1.86	132.1 ± 3.72	n = 3	[AXA] Abaxis Piccolo
174.3 ± 4.98	41.0 ± 1.82	72.0 ± 2.30	87.3 ± 2.81	144.2 ± 3.69	n = 15	[ABJ] Abbott Architect c System
152.7 ± 3.91	37.7 ± 1.68	64.0 ± 1.87	77.5 ± 1.96	128.0 ± 3.56	n = 52	[OLC] Beckman Coulter AU Chemistry System
166.2 ± 7.00	41.5 ± 1.93	70.9 ± 4.61	85.1 ± 4.91	141.3 ± 8.83	n = 8	[BCS] Beckman Coulter CX
168.3 ± 4.29	42.6 ± 1.34	72.0 ± 1.94	86.4 ± 1.95	139.7 ± 3.07	n = 7	[BCX] Beckman Coulter LX-20
170.7 ± 3.38	42.9 ± 1.06	72.5 ± 1.84	87.4 ± 1.91	142.0 ± 2.68	n = 19	[BCG] Beckman Coulter UniCel DxC 600
170.9 ± 3.76	43.2 ± 1.28	73.0 ± 1.95	87.5 ± 2.35	142.8 ± 3.76	n = 20	[BCH] Beckman Coulter UniCel DxC 800
180.2 ± 4.45	52.3 ± 3.41	89.4 ± 4.01	102.5 ± 4.19	169.5 ± 4.12	n = 12	[JJE] Ortho Vitros 250/350/950
179.5 ± 3.93	54.7 ± 3.33	90.8 ± 3.69	102.5 ± 3.52	168.0 ± 4.97	n = 22	[JJF] Ortho Vitros 5,1FS
178.8 ± 4.16	53.6 ± 1.97	88.2 ± 4.23	101.0 ± 5.16	168.6 ± 3.97	n = 14	[JJG] Ortho Vitros 5600
173.6 ± 5.31	41.4 ± 1.32	73.1 ± 2.82	87.7 ± 2.87	146.3 ± 4.67	n = 17	[ROC] Roche cobas c501
171.7 ± 3.16	40.7 ± 0.51	71.7 ± 2.26	86.1 ± 2.86	143.0 ± 0.90	n = 3	[ROH] Roche cobas c701
172.5 ± 5.73	39.2 ± 1.41	71.6 ± 2.61	85.9 ± 3.10	145.8 ± 4.78	n = 6	[ROS] Roche Cobas INTEGRA 400
166.6 ± 8.43	39.3 ± 1.81	69.4 ± 3.23	84.0 ± 3.74	139.6 ± 7.89	n = 5	[ROT] Roche Cobas INTEGRA 800
171.0 ± 5.19	41.5 ± 1.79	71.8 ± 2.44	86.1 ± 2.96	142.5 ± 4.51	n = 34	[ROD] Roche MODULAR D/P
182.4 ± 3.09	45.6 ± 2.33	77.2 ± 1.54	92.8 ± 2.20	151.3 ± 3.17	n = 19	[BYE] Siemens ADVIA 1800
181.1 ± 9.28	44.7 ± 1.37	76.2 ± 5.00	93.3 ± 5.09	149.5 ± 7.22	n = 3	[BYB] Siemens ADVIA 2400
182.3 ± 4.02	55.0 ± 1.20	85.6 ± 1.49	99.4 ± 2.07	156.4 ± 2.17	n = 12	[DUE] Siemens Dimension EXL
183.0 ± 6.67	54.6 ± 2.84	84.9 ± 2.75	99.7 ± 3.41	155.4 ± 4.45	n = 27	[DUR] Siemens Dimension RxL
177.6 ± 3.11	44.5 ± 1.59	75.6 ± 1.91	90.8 ± 2.00	148.0 ± 2.30	n = 35	[DUT] Siemens Dimension Vista
183.0 ± 4.89	55.3 ± 1.97	85.6 ± 2.68	100.2 ± 3.08	156.8 ± 3.53	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
155.0 ± 0.90	42.6 ± 2.56	71.6 ± 3.87	81.5 ± 1.86	132.1 ± 3.72	n = 3	[AX1] Abaxis
174.3 ± 4.98	41.0 ± 1.82	72.0 ± 2.30	87.3 ± 2.81	144.2 ± 3.69	n = 15	[AB1] Abbott
170.1 ± 4.20	42.9 ± 1.30	72.4 ± 2.29	87.1 ± 2.40	141.6 ± 3.77	n = 53	[BC1] Beckman Coulter
152.8 ± 3.82	37.7 ± 1.56	64.0 ± 1.70	77.5 ± 1.84	128.1 ± 3.49	n = 50	[OL1] Beckman Coulter AU Series
166.6 ± 10.24	41.0 ± 4.04	73.1 ± 7.16	87.4 ± 6.89	145.4 ± 11.23	n = 4	[CR1] Carolina
179.5 ± 4.12	53.8 ± 3.52	89.7 ± 4.20	102.0 ± 4.36	168.5 ± 4.51	n = 49	[JJ1] Ortho Clinical Diagnostics
172.9 ± 5.24	41.1 ± 1.29	72.6 ± 2.91	87.2 ± 3.16	145.3 ± 4.57	n = 21	[RO4] Roche cobas c311/c501/c502/c701
170.9 ± 5.18	41.4 ± 1.78	71.7 ± 2.48	85.9 ± 2.99	142.4 ± 4.45	n = 35	[RO2] Roche Hitachi and Modular D/P
169.9 ± 7.90	39.2 ± 1.58	70.6 ± 3.25	85.0 ± 3.65	143.0 ± 7.30	n = 11	[RO1] Roche Integra and MIRA
182.0 ± 4.47	45.3 ± 2.43	77.4 ± 2.34	92.7 ± 3.00	151.1 ± 4.01	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
180.7 ± 5.41	51.2 ± 6.03	81.8 ± 5.82	96.5 ± 5.70	153.0 ± 5.59	n = 83	[DA5] Siemens Dimension
178.8 ± 2.34	49.5 ± 6.52	78.3 ± 5.66	94.0 ± 4.65	149.9 ± 3.52	n = 9	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

Aspartate Aminotransferase (U/L 37°C)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
380.6 ± 20.39	74.3 ± 4.10	65.4 ± 3.92	78.8 ± 4.62	133.2 ± 7.65	n = 363	[---] All Methods & Instruments
						<Instruments>
376.2 ± 4.11	76.3 ± 0.51	66.7 ± 1.37	80.7 ± 1.37	131.5 ± 1.86	n = 3	[AXA] Abaxis Piccolo
380.5 ± 8.90	73.7 ± 2.21	64.4 ± 1.38	77.5 ± 1.98	130.9 ± 3.13	n = 15	[ABJ] Abbott Architect c System
342.1 ± 11.83	67.3 ± 2.18	58.5 ± 2.17	70.3 ± 2.54	117.3 ± 3.77	n = 52	[OLC] Beckman Coulter AU Chemistry System
373.5 ± 22.76	75.2 ± 6.30	65.2 ± 6.38	78.1 ± 7.83	132.5 ± 11.02	n = 8	[BCS] Beckman Coulter CX
375.0 ± 7.55	75.7 ± 2.38	64.9 ± 1.35	77.3 ± 1.68	129.1 ± 1.91	n = 6	[BCX] Beckman Coulter LX-20
370.2 ± 10.35	75.4 ± 2.76	64.9 ± 2.07	78.0 ± 1.83	131.6 ± 2.27	n = 20	[BCG] Beckman Coulter UniCel DxC 600
372.1 ± 8.28	75.5 ± 2.13	64.9 ± 1.43	78.0 ± 1.93	130.9 ± 2.71	n = 20	[BCH] Beckman Coulter UniCel DxC 800
402.8 ± 8.02	74.2 ± 1.68	68.2 ± 1.84	83.2 ± 1.88	141.1 ± 3.87	n = 12	[JJE] Ortho Vitros 250/350/950
391.6 ± 15.51	73.5 ± 2.53	67.0 ± 1.95	81.6 ± 3.49	139.8 ± 4.77	n = 22	[JJF] Ortho Vitros 5,1FS
393.0 ± 11.31	74.4 ± 2.33	67.6 ± 3.02	81.8 ± 3.46	141.4 ± 5.41	n = 14	[JJG] Ortho Vitros 5600
389.8 ± 13.63	75.3 ± 1.84	66.0 ± 1.76	79.0 ± 2.14	134.8 ± 3.96	n = 17	[ROC] Roche cobas c501
393.6 ± 11.12	73.7 ± 0.51	64.3 ± 1.37	77.7 ± 3.07	131.8 ± 3.23	n = 3	[ROH] Roche cobas c701
401.1 ± 9.66	75.7 ± 1.66	66.0 ± 1.60	79.6 ± 2.09	137.1 ± 2.88	n = 6	[ROS] Roche Cobas INTEGRA 400
389.4 ± 10.42	74.4 ± 1.89	65.6 ± 1.09	78.5 ± 1.80	134.4 ± 3.40	n = 5	[ROT] Roche Cobas INTEGRA 800
384.2 ± 10.92	76.8 ± 1.96	66.3 ± 2.27	80.0 ± 2.45	131.8 ± 3.38	n = 34	[ROD] Roche MODULAR D/P
412.4 ± 7.87	81.8 ± 1.64	71.6 ± 1.48	85.3 ± 1.80	141.0 ± 3.51	n = 19	[BYE] Siemens ADVIA 1800
408.2 ± 26.77	79.6 ± 4.72	71.3 ± 4.22	84.7 ± 5.91	140.6 ± 7.44	n = 3	[BYB] Siemens ADVIA 2400
377.7 ± 9.41	73.2 ± 1.55	66.1 ± 2.44	80.8 ± 1.66	135.9 ± 3.22	n = 11	[DUE] Siemens Dimension EXL
380.1 ± 12.56	74.8 ± 3.43	66.7 ± 3.09	80.0 ± 3.60	134.8 ± 4.38	n = 28	[DUR] Siemens Dimension RxL
383.3 ± 6.45	73.3 ± 2.96	64.2 ± 2.56	77.9 ± 2.26	133.2 ± 3.83	n = 35	[DUT] Siemens Dimension Vista
382.7 ± 8.14	75.4 ± 2.21	67.6 ± 2.47	80.8 ± 2.18	135.5 ± 3.53	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
376.2 ± 4.11	76.3 ± 0.51	66.7 ± 1.37	80.7 ± 1.37	131.5 ± 1.86	n = 3	[AX1] Abaxis
380.5 ± 8.90	73.7 ± 2.21	64.4 ± 1.38	77.5 ± 1.98	130.9 ± 3.13	n = 15	[AB1] Abbott
371.6 ± 10.37	75.3 ± 2.72	64.8 ± 2.12	77.9 ± 2.27	130.7 ± 3.17	n = 53	[BC1] Beckman Coulter
342.0 ± 11.27	67.3 ± 2.10	58.5 ± 2.06	70.3 ± 2.40	117.4 ± 3.64	n = 50	[OL1] Beckman Coulter AU Series
383.6 ± 34.20	78.4 ± 6.95	69.2 ± 7.29	82.6 ± 8.95	138.0 ± 13.29	n = 4	[CR1] Carolina
395.5 ± 13.19	74.0 ± 2.26	67.6 ± 2.38	82.2 ± 3.13	140.7 ± 4.71	n = 49	[JJ1] Ortho Clinical Diagnostics
390.5 ± 12.82	75.0 ± 1.73	65.8 ± 1.77	78.9 ± 2.36	134.4 ± 3.93	n = 21	[RO4] Roche cobas c311/c501/c502/c701
383.9 ± 10.74	76.8 ± 1.96	66.3 ± 2.25	80.0 ± 2.42	131.8 ± 3.32	n = 35	[RO2] Roche Hitachi and Modular D/P
395.7 ± 11.51	75.1 ± 1.86	65.8 ± 1.34	79.0 ± 1.98	135.9 ± 3.36	n = 11	[RO1] Roche Integra and MIRA
410.6 ± 11.48	81.5 ± 2.66	71.3 ± 2.18	84.9 ± 2.64	140.4 ± 4.39	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
381.8 ± 9.53	74.2 ± 3.02	66.0 ± 2.93	79.4 ± 3.04	134.7 ± 3.94	n = 87	[DA5] Siemens Dimension
381.2 ± 6.73	73.6 ± 3.50	63.0 ± 2.78	79.4 ± 2.21	131.7 ± 4.62	n = 6	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

α-Amylase (U/L 37°C)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
162.3 ± 21.32	420.0 ± 77.05	72.2 ± 7.99	86.8 ± 8.91	47.8 ± 6.14	n = 323	[---] All Methods & Instruments
						<Instruments>
173.1 ± 5.34	459.0 ± 14.06	78.2 ± 3.05	93.7 ± 3.17	48.5 ± 1.27	n = 13	[ABJ] Abbott Architect c System
139.0 ± 8.40	368.1 ± 21.41	61.6 ± 4.10	73.8 ± 4.66	38.0 ± 2.28	n = 44	[OLC] Beckman Coulter AU Chemistry System
174.5 ± 3.11	443.5 ± 6.39	79.2 ± 1.59	94.2 ± 2.11	54.5 ± 1.02	n = 6	[BCX] Beckman Coulter LX-20
173.3 ± 2.79	442.1 ± 8.63	79.4 ± 2.20	95.5 ± 1.93	54.0 ± 1.39	n = 16	[BCG] Beckman Coulter UniCel DxC 600
174.0 ± 3.00	443.7 ± 8.86	79.4 ± 1.67	95.0 ± 1.54	54.4 ± 1.32	n = 20	[BCH] Beckman Coulter UniCel DxC 800
111.6 ± 7.93	227.8 ± 16.36	57.9 ± 2.63	71.3 ± 6.21	48.1 ± 3.38	n = 9	[JJE] Ortho Vitros 250/350/950
113.1 ± 7.90	231.6 ± 11.55	58.0 ± 3.47	70.2 ± 4.31	47.3 ± 3.09	n = 21	[JJF] Ortho Vitros 5,1FS
122.5 ± 7.10	234.7 ± 16.38	58.7 ± 4.60	76.9 ± 6.76	50.1 ± 4.54	n = 14	[JJG] Ortho Vitros 5600
163.0 ± 2.67	406.7 ± 5.94	75.1 ± 1.37	90.3 ± 1.45	52.1 ± 0.78	n = 17	[ROC] Roche cobas c501
157.8 ± 4.11	394.2 ± 8.71	73.5 ± 1.86	89.7 ± 1.37	52.0 ± 0.90	n = 3	[ROS] Roche Cobas INTEGRA 400
159.5 ± 1.62	402.3 ± 3.25	74.1 ± 1.27	88.7 ± 1.38	51.2 ± 0.80	n = 5	[ROT] Roche Cobas INTEGRA 800
162.2 ± 3.47	403.3 ± 6.37	74.7 ± 1.44	90.0 ± 1.92	51.6 ± 1.12	n = 31	[ROD] Roche MODULAR D/P
163.1 ± 3.16	413.0 ± 8.45	74.4 ± 1.46	89.6 ± 1.92	51.1 ± 0.96	n = 19	[BYE] Siemens ADVIA 1800
154.3 ± 3.07	388.9 ± 2.05	69.5 ± 1.86	85.0 ± 0.90	47.4 ± 1.02	n = 3	[BYB] Siemens ADVIA 2400
182.2 ± 2.82	502.1 ± 6.89	75.3 ± 0.80	90.1 ± 1.61	44.4 ± 1.86	n = 9	[DUE] Siemens Dimension EXL
181.8 ± 4.35	501.2 ± 12.02	75.5 ± 1.62	90.4 ± 2.13	45.0 ± 0.77	n = 26	[DUR] Siemens Dimension RxL
171.5 ± 3.11	471.8 ± 7.16	70.7 ± 1.33	84.7 ± 1.35	41.6 ± 0.92	n = 34	[DUT] Siemens Dimension Vista
183.9 ± 3.82	507.6 ± 9.87	76.4 ± 1.91	91.1 ± 2.35	44.9 ± 1.17	n = 17	[DUX] Siemens Dimension Xpand
						<Reagents>
173.1 ± 5.34	459.0 ± 14.06	78.2 ± 3.05	93.7 ± 3.17	48.5 ± 1.27	n = 13	[AB1] Abbott
174.4 ± 3.05	447.4 ± 6.48	79.4 ± 1.54	95.6 ± 1.78	54.8 ± 1.26	n = 14	[BC1] Beckman Coulter
138.7 ± 8.17	367.3 ± 20.97	61.5 ± 3.97	73.7 ± 4.47	38.0 ± 2.24	n = 43	[OL1] Beckman Coulter AU Series
174.0 ± 3.36	442.0 ± 9.30	79.5 ± 2.02	95.2 ± 2.19	54.2 ± 1.44	n = 32	[BC2] Beckman Coulter IFCC Standardized
116.4 ± 9.76	232.4 ± 14.96	58.2 ± 3.71	72.5 ± 6.52	48.7 ± 4.36	n = 46	[JJ1] Ortho Clinical Diagnostics
163.1 ± 2.50	406.8 ± 5.44	75.3 ± 1.24	90.5 ± 1.38	52.2 ± 0.78	n = 20	[RO4] Roche cobas c311/c501/c502/c701
162.0 ± 3.43	403.2 ± 6.37	74.6 ± 1.43	89.9 ± 1.86	51.5 ± 1.13	n = 33	[RO2] Roche Hitachi and Modular D/P
158.9 ± 2.88	401.1 ± 4.15	74.0 ± 1.46	89.1 ± 1.48	51.5 ± 0.90	n = 8	[RO1] Roche Integra and MIRA
162.0 ± 4.61	409.6 ± 12.46	73.9 ± 2.19	88.9 ± 2.56	50.7 ± 1.52	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
178.1 ± 7.00	491.0 ± 19.91	73.8 ± 3.06	88.2 ± 3.65	43.5 ± 2.12	n = 86	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Alkaline Phosphatase (U/L 37°C)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
101.2 ± 13.98	204.6 ± 23.96	209.2 ± 20.25	253.2 ± 26.61	51.8 ± 8.96	n = 362	[---] All Methods & Instruments
						<Instruments>
86.3 ± 3.16	177.6 ± 3.87	182.8 ± 4.10	222.2 ± 2.36	42.0 ± 1.80	n = 3	[AXA] Abaxis Piccolo
103.0 ± 3.82	212.1 ± 6.54	220.8 ± 7.90	264.0 ± 9.60	51.4 ± 2.10	n = 15	[ABJ] Abbott Architect c System
91.5 ± 5.33	189.5 ± 10.36	196.6 ± 10.96	234.9 ± 12.06	46.0 ± 2.80	n = 51	[OLC] Beckman Coulter AU Chemistry System
82.6 ± 8.98	171.4 ± 15.08	176.4 ± 16.88	209.6 ± 22.88	41.7 ± 4.86	n = 8	[BCS] Beckman Coulter CX
88.5 ± 2.53	180.5 ± 6.30	191.2 ± 5.03	224.8 ± 5.72	44.4 ± 1.61	n = 6	[BCX] Beckman Coulter LX-20
89.1 ± 4.08	183.3 ± 10.16	190.6 ± 8.65	228.8 ± 12.66	43.9 ± 2.08	n = 20	[BCG] Beckman Coulter UniCel DxC 600
92.1 ± 3.06	187.4 ± 5.81	193.9 ± 5.82	233.7 ± 8.00	45.7 ± 2.26	n = 21	[BCH] Beckman Coulter UniCel DxC 800
127.0 ± 3.64	245.5 ± 3.12	230.7 ± 6.67	294.7 ± 7.85	67.5 ± 1.96	n = 11	[JJE] Ortho Vitros 250/350/950
122.8 ± 5.21	238.0 ± 11.40	221.5 ± 8.63	283.6 ± 11.04	64.5 ± 3.35	n = 22	[JJF] Ortho Vitros 5,1FS
123.9 ± 3.40	239.0 ± 8.55	218.0 ± 6.63	286.7 ± 10.86	65.7 ± 2.35	n = 14	[JJG] Ortho Vitros 5600
101.5 ± 2.84	204.8 ± 5.10	211.4 ± 5.00	252.4 ± 7.00	51.2 ± 1.47	n = 17	[ROC] Roche cobas c501
99.3 ± 2.26	201.5 ± 3.63	209.9 ± 2.86	247.2 ± 2.36	49.6 ± 1.02	n = 3	[ROH] Roche cobas c701
101.0 ± 2.33	206.9 ± 5.82	212.9 ± 4.41	256.4 ± 6.13	50.6 ± 1.33	n = 5	[ROS] Roche Cobas INTEGRA 400
97.6 ± 0.55	201.4 ± 4.37	209.4 ± 3.64	250.6 ± 4.93	48.8 ± 0.80	n = 5	[ROT] Roche Cobas INTEGRA 800
98.2 ± 2.81	197.5 ± 6.12	205.0 ± 5.98	245.2 ± 7.24	49.4 ± 1.43	n = 33	[ROD] Roche MODULAR D/P
104.5 ± 5.12	215.1 ± 8.95	222.3 ± 8.13	267.1 ± 10.20	52.1 ± 2.35	n = 19	[BYE] Siemens ADVIA 1800
100.5 ± 1.86	208.0 ± 3.61	212.7 ± 0.51	257.8 ± 8.71	49.7 ± 0.51	n = 3	[BYB] Siemens ADVIA 2400
129.3 ± 9.46	242.3 ± 10.20	249.9 ± 10.48	301.2 ± 10.85	69.5 ± 4.84	n = 11	[DUE] Siemens Dimension EXL
118.3 ± 9.63	230.4 ± 13.30	239.4 ± 10.64	283.7 ± 11.81	64.0 ± 5.33	n = 28	[DUR] Siemens Dimension RxL
91.6 ± 4.63	183.2 ± 7.23	191.4 ± 8.77	234.5 ± 8.01	46.8 ± 3.28	n = 35	[DUT] Siemens Dimension Vista
111.3 ± 5.05	225.1 ± 9.18	233.7 ± 10.62	277.4 ± 10.27	63.5 ± 3.36	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
86.3 ± 3.16	177.6 ± 3.87	182.8 ± 4.10	222.2 ± 2.36	42.0 ± 1.80	n = 3	[AX1] Abaxis
103.0 ± 3.82	212.1 ± 6.54	220.8 ± 7.90	264.0 ± 9.60	51.4 ± 2.10	n = 15	[AB1] Abbott
89.8 ± 4.40	183.9 ± 9.16	191.4 ± 8.33	229.3 ± 11.33	44.5 ± 2.44	n = 52	[BC1] Beckman Coulter
91.4 ± 5.11	189.2 ± 10.04	196.3 ± 10.58	234.6 ± 11.59	46.0 ± 2.69	n = 50	[OL1] Beckman Coulter AU Series
84.6 ± 13.47	172.8 ± 25.93	179.6 ± 24.58	216.6 ± 29.87	42.6 ± 7.08	n = 3	[CR1] Carolina
124.1 ± 4.93	239.9 ± 10.08	221.7 ± 9.66	286.5 ± 11.63	65.5 ± 3.21	n = 48	[JJ1] Ortho Clinical Diagnostics
101.2 ± 2.83	204.2 ± 4.88	211.1 ± 4.54	251.4 ± 6.48	51.0 ± 1.52	n = 21	[RO4] Roche cobas c311/c501/c502/c701
98.2 ± 2.70	197.6 ± 6.01	205.1 ± 5.77	245.3 ± 6.98	49.4 ± 1.37	n = 35	[RO2] Roche Hitachi and Modular D/P
98.7 ± 1.92	203.6 ± 5.22	210.7 ± 4.12	252.8 ± 5.94	49.5 ± 1.30	n = 11	[RO1] Roche Integra and MIRA
103.6 ± 4.86	213.5 ± 8.54	220.2 ± 8.34	265.2 ± 10.62	51.6 ± 2.34	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
107.8 ± 16.19	213.9 ± 27.94	222.7 ± 28.07	266.9 ± 30.78	58.3 ± 10.69	n = 94	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

γ-Glutamyltransferase (U/L 37°C)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
50.2 ± 10.90	126.9 ± 29.91	70.4 ± 17.02	84.2 ± 20.30	34.9 ± 7.00	n = 306	[---] All Methods & Instruments
						<Instruments>
50.9 ± 3.05	128.7 ± 8.15	69.7 ± 4.56	84.0 ± 5.48	35.1 ± 2.39	n = 14	[ABJ] Abbott Architect c System
40.2 ± 2.12	98.1 ± 5.08	54.8 ± 3.09	65.7 ± 3.52	28.1 ± 1.71	n = 48	[OLC] Beckman Coulter AU Chemistry System
39.7 ± 3.98	100.9 ± 16.14	56.6 ± 8.08	66.8 ± 9.41	28.5 ± 3.27	n = 7	[BCS] Beckman Coulter CX
47.9 ± 1.83	124.4 ± 5.00	67.8 ± 2.69	80.8 ± 3.65	33.4 ± 1.89	n = 5	[BCX] Beckman Coulter LX-20
47.1 ± 0.99	125.9 ± 3.52	68.8 ± 2.32	82.2 ± 2.65	33.2 ± 2.00	n = 15	[BCG] Beckman Coulter UniCel DxC 600
47.2 ± 1.97	126.1 ± 3.59	68.4 ± 2.32	81.5 ± 1.96	33.1 ± 0.89	n = 17	[BCH] Beckman Coulter UniCel DxC 800
71.4 ± 2.15	199.0 ± 6.05	107.9 ± 3.42	128.6 ± 3.51	45.3 ± 1.52	n = 8	[JJE] Ortho Vitros 250/350/950
69.8 ± 2.06	192.8 ± 4.12	105.3 ± 2.89	125.0 ± 2.96	44.2 ± 1.27	n = 21	[JJF] Ortho Vitros 5,1FS
69.8 ± 2.78	193.6 ± 6.79	105.4 ± 4.23	125.9 ± 4.44	43.7 ± 1.67	n = 13	[JJG] Ortho Vitros 5600
43.4 ± 0.71	108.3 ± 1.93	59.4 ± 0.90	70.7 ± 1.13	30.2 ± 0.76	n = 15	[ROC] Roche cobas c501
41.3 ± 0.51	106.4 ± 1.02	58.0 ± 0.90	69.7 ± 0.51	29.3 ± 0.51	n = 3	[ROS] Roche Cobas INTEGRA 400
40.5 ± 0.57	104.7 ± 0.82	57.5 ± 1.22	68.7 ± 0.82	28.1 ± 1.13	n = 4	[ROT] Roche Cobas INTEGRA 800
43.4 ± 1.30	109.5 ± 2.98	59.4 ± 1.81	71.0 ± 1.70	30.1 ± 1.16	n = 33	[ROD] Roche MODULAR D/P
46.4 ± 2.06	117.7 ± 3.39	64.5 ± 2.20	77.4 ± 2.62	32.4 ± 1.72	n = 19	[BYE] Siemens ADVIA 1800
45.2 ± 3.23	111.9 ± 6.08	61.4 ± 1.02	76.0 ± 3.61	32.0 ± 0.90	n = 3	[BYB] Siemens ADVIA 2400
60.7 ± 1.60	146.5 ± 3.12	83.9 ± 2.61	99.4 ± 1.60	44.2 ± 1.47	n = 10	[DUE] Siemens Dimension EXL
59.9 ± 2.53	144.3 ± 3.83	82.1 ± 2.53	98.2 ± 2.65	43.1 ± 1.45	n = 21	[DUR] Siemens Dimension RxL
58.3 ± 2.35	149.2 ± 2.33	83.6 ± 2.01	99.9 ± 2.45	40.1 ± 2.29	n = 32	[DUT] Siemens Dimension Vista
59.6 ± 2.95	145.3 ± 2.57	82.8 ± 1.67	99.1 ± 2.79	44.4 ± 1.97	n = 9	[DUX] Siemens Dimension Xpand
						<Reagents>
50.6 ± 2.87	127.8 ± 7.76	69.2 ± 4.42	83.4 ± 5.35	34.8 ± 2.16	n = 13	[AB1] Abbott
47.2 ± 1.95	125.4 ± 4.27	68.2 ± 2.56	81.4 ± 2.81	32.9 ± 1.58	n = 41	[BC1] Beckman Coulter
40.2 ± 1.98	98.1 ± 4.76	54.8 ± 2.87	65.7 ± 3.32	28.1 ± 1.61	n = 46	[OL1] Beckman Coulter AU Series
37.0 ± 1.76	89.3 ± 0.90	50.5 ± 2.83	60.0 ± 1.50	26.3 ± 1.58	n = 4	[CR1] Carolina
70.1 ± 2.38	194.1 ± 5.54	105.8 ± 3.62	126.0 ± 3.72	44.2 ± 1.59	n = 42	[JJ1] Ortho Clinical Diagnostics
43.2 ± 0.79	107.7 ± 2.31	59.0 ± 1.21	70.3 ± 1.42	30.0 ± 0.95	n = 18	[RO4] Roche cobas c311/c501/c502/c701
43.4 ± 1.38	109.5 ± 3.01	59.4 ± 1.85	71.0 ± 1.71	30.2 ± 1.23	n = 34	[RO2] Roche Hitachi and Modular D/P
40.8 ± 0.66	105.3 ± 1.32	57.7 ± 1.11	69.2 ± 0.76	28.7 ± 1.11	n = 7	[RO1] Roche Integra and MIRA
46.2 ± 2.22	117.1 ± 4.12	63.9 ± 2.44	77.1 ± 2.83	32.3 ± 1.58	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
59.3 ± 2.60	147.0 ± 3.71	83.1 ± 2.45	99.1 ± 2.58	42.2 ± 2.69	n = 67	[DA5] Siemens Dimension
58.1 ± 2.33	149.5 ± 2.45	83.2 ± 0.80	100.6 ± 1.37	41.4 ± 2.30	n = 5	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

Creatine Kinase (U/L 37°C)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
96.1 ± 6.59	265.7 ± 21.65	185.3 ± 15.21	222.0 ± 16.22	57.9 ± 7.37	n = 331	[---] All Methods & Instruments
						<Instruments>
100.9 ± 2.39	284.3 ± 14.95	193.2 ± 7.21	232.8 ± 8.63	47.9 ± 2.05	n = 15	[ABJ] Abbott Architect c System
84.3 ± 3.41	236.2 ± 10.47	163.7 ± 6.74	196.4 ± 7.36	49.3 ± 1.87	n = 46	[OLC] Beckman Coulter AU Chemistry System
86.9 ± 9.87	230.7 ± 19.61	161.7 ± 13.11	195.6 ± 16.90	57.1 ± 13.01	n = 7	[BCS] Beckman Coulter CX
98.5 ± 2.53	264.0 ± 9.38	186.6 ± 1.37	221.0 ± 11.83	72.6 ± 2.42	n = 6	[BCX] Beckman Coulter LX-20
98.9 ± 2.32	263.9 ± 7.72	187.3 ± 5.27	223.5 ± 3.85	72.5 ± 2.54	n = 17	[BCG] Beckman Coulter UniCel DxC 600
98.5 ± 3.30	259.3 ± 10.23	186.2 ± 4.44	221.5 ± 6.93	71.6 ± 3.43	n = 21	[BCH] Beckman Coulter UniCel DxC 800
101.9 ± 4.59	299.3 ± 13.31	218.7 ± 11.45	247.9 ± 13.47	57.0 ± 2.18	n = 9	[JJE] Ortho Vitros 250/350/950
105.4 ± 4.17	299.3 ± 14.63	222.5 ± 11.91	248.8 ± 12.80	58.4 ± 3.50	n = 20	[JJF] Ortho Vitros 5,1FS
103.8 ± 4.51	289.9 ± 13.44	216.5 ± 9.92	245.7 ± 12.26	58.6 ± 2.25	n = 13	[JJG] Ortho Vitros 5600
96.7 ± 3.49	269.7 ± 15.42	188.0 ± 8.84	225.5 ± 10.24	54.6 ± 2.76	n = 17	[ROC] Roche cobas c501
98.0 ± 0.90	271.0 ± 0.90	185.0 ± 0.90	223.3 ± 1.37	59.3 ± 0.51	n = 3	[ROH] Roche cobas c701
87.8 ± 6.85	253.1 ± 19.37	175.5 ± 11.96	212.4 ± 13.01	46.3 ± 3.66	n = 5	[ROT] Roche Cobas INTEGRA 800
97.7 ± 2.57	270.8 ± 8.92	188.0 ± 4.99	225.4 ± 6.47	58.4 ± 2.06	n = 33	[ROD] Roche MODULAR D/P
92.0 ± 2.83	261.9 ± 9.92	180.9 ± 4.90	217.0 ± 5.92	59.9 ± 1.53	n = 19	[BYE] Siemens ADVIA 1800
89.0 ± 1.80	257.4 ± 13.58	174.0 ± 9.01	210.7 ± 8.57	57.0 ± 1.80	n = 3	[BYB] Siemens ADVIA 2400
96.8 ± 3.40	274.4 ± 7.31	188.8 ± 5.57	226.2 ± 6.65	59.6 ± 2.57	n = 10	[DUE] Siemens Dimension EXL
95.8 ± 3.11	272.6 ± 13.10	187.1 ± 6.88	224.9 ± 8.03	58.7 ± 2.30	n = 28	[DUR] Siemens Dimension RxL
96.9 ± 2.11	271.4 ± 7.29	187.0 ± 5.67	223.9 ± 7.46	60.4 ± 2.02	n = 34	[DUT] Siemens Dimension Vista
94.8 ± 3.75	271.7 ± 11.14	187.8 ± 5.13	224.3 ± 7.42	59.1 ± 2.87	n = 16	[DUX] Siemens Dimension Xpand
						<Reagents>
100.9 ± 2.39	284.3 ± 14.95	193.2 ± 7.21	232.8 ± 8.63	47.9 ± 2.05	n = 15	[AB1] Abbott
98.5 ± 2.97	260.8 ± 10.14	186.3 ± 5.02	222.6 ± 6.43	72.0 ± 3.16	n = 49	[BC1] Beckman Coulter
84.1 ± 3.28	236.5 ± 9.87	163.8 ± 6.34	196.6 ± 7.06	49.3 ± 1.59	n = 44	[OL1] Beckman Coulter AU Series
78.8 ± 3.68	214.2 ± 8.24	151.8 ± 3.73	182.9 ± 3.00	45.2 ± 1.46	n = 4	[CR1] Carolina
104.2 ± 4.46	295.9 ± 15.20	219.6 ± 11.49	247.7 ± 12.76	58.1 ± 3.05	n = 42	[JJ1] Ortho Clinical Diagnostics
96.9 ± 3.13	269.9 ± 14.36	186.6 ± 8.61	224.3 ± 10.11	55.1 ± 3.24	n = 21	[RO4] Roche cobas c311/c501/c502/c701
97.7 ± 2.57	270.9 ± 8.61	188.3 ± 4.83	225.7 ± 6.19	58.5 ± 2.09	n = 33	[RO2] Roche Hitachi and Modular D/P
88.8 ± 7.70	256.6 ± 20.79	177.3 ± 13.46	214.6 ± 14.73	48.9 ± 5.72	n = 7	[RO1] Roche Integra and MIRA
91.3 ± 3.05	260.6 ± 10.95	179.4 ± 6.76	215.7 ± 7.14	59.4 ± 1.86	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
96.6 ± 3.31	273.3 ± 7.02	187.3 ± 5.99	225.0 ± 7.02	59.7 ± 2.78	n = 29	[DA5] Siemens Dimension
96.0 ± 2.96	271.6 ± 10.52	187.2 ± 6.03	224.2 ± 7.69	59.5 ± 2.34	n = 56	[DA8] Siemens Dimension IFCC Standardized
97.0 ± 1.80	270.1 ± 14.19	188.0 ± 6.37	226.1 ± 7.95	60.5 ± 1.86	n = 3	[DA6] Siemens Dimension LOCI

Summary of Participant Performance (Mean and Standard Deviation)

Creatine Kinase-MB (ng/mL, U/L 37°C, %)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
1.09 ± 0.36	47.60 ± 7.52	23.93 ± 3.63	28.25 ± 4.17	0.59 ± 0.26	n = 200	[-A-] All Methods – Results reported in ng/mL
1.11 ± 0.13	46.50 ± 3.71	22.92 ± 1.70	27.07 ± 2.05	0.47 ± 0.09	n = 17	[AB1] Abbott
2.17 ± 1.79	56.95 ± 2.51	28.00 ± 1.17	33.43 ± 1.50	1.64 ± 2.11	n = 20	[SAA] Beckman Coulter ACCESS
1.40 ± 0.11	59.95 ± 3.19	29.23 ± 1.06	34.62 ± 1.38	0.60 ± 0.00	n = 13	[BC-] Beckman Coulter DxC 600/DxI 800
0.91 ± 0.16	46.52 ± 1.88	24.62 ± 1.04	28.82 ± 1.29	0.48 ± 0.21	n = 31	[BY1] Siemens ADVIA/ADVIA Centaur
1.00 ± 0.00	32.10 ± 2.97	13.05 ± 0.29	19.83 ± 2.80	1.00 ± 0.00	n = 6	[BSA] BioSite Triage
0.69 ± 0.26	50.23 ± 3.46	22.60 ± 1.40	27.55 ± 1.73	0.46 ± 0.26	n = 27	[DA5] Siemens Dimension
0.92 ± 0.19	42.66 ± 1.08	21.47 ± 0.58	25.47 ± 0.73	0.57 ± 0.11	n = 24	[DA6] Siemens Dimension LOCI
2.47 ± 0.71	52.37 ± 1.23	26.80 ± 0.87	29.43 ± 1.50	1.37 ± 0.47	n = 5	[DP5] Siemens Immulite
0.92 ± 0.10	36.96 ± 1.64	19.03 ± 0.97	22.07 ± 1.10	0.34 ± 0.07	n = 23	[JJ1] Ortho Clinical Diagnostics
1.60 ± 0.09	48.67 ± 2.50	25.51 ± 1.39	29.83 ± 1.52	0.90 ± 0.07	n = 28	[RO3] Roche Elecsys/Modular E/e601/e411
1.54 ± 0.10	66.55 ± 4.30	34.37 ± 3.53	40.65 ± 4.66	0.70 ± 0.00	n = 3	[TO2] Tosoh ST AIA
1.93 ± 2.12	49.47 ± 9.08	25.74 ± 5.43	30.46 ± 6.53	0.53 ± 0.33	n = 13	[-B-] All Methods – Results reported in U/L
0.00 ± 0.00	14.50 ± 1.22	11.15 ± 0.41	11.51 ± 2.57	0.00 ± 0.00	n = 5	[-P-] All Methods – Results reported as %
0.00 ± 0.00	16.53 ± 5.71	12.06 ± 2.86	11.96 ± 3.17	0.00 ± 0.00	n = 4	[HL1] Helena Laboratories

Summary of Participant Performance (Mean and Standard Deviation)

Lactate Dehydrogenase (U/L 37°C)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
112.0 ± 11.79	245.7 ± 26.66	165.2 ± 16.36	200.1 ± 19.52	87.0 ± 8.84	n = 318	[---] All Methods & Instruments
112.3 ± 11.66	246.4 ± 26.21	165.6 ± 16.10	200.6 ± 19.30	87.2 ± 8.74	n = 269	[-A-] Lactate to Pyruvate
337.2 ± 23.95	676.7 ± 18.68	447.1 ± 15.34	551.4 ± 15.30	268.1 ± 15.76	n = 45	[-B-] Pyruvate to Lactate
						<Instruments>
120.9 ± 7.84	245.9 ± 14.58	166.8 ± 9.64	204.8 ± 11.88	93.2 ± 6.66	n = 15	[ABJ] Abbott Architect c System
102.9 ± 4.99	224.9 ± 10.23	154.1 ± 7.33	185.7 ± 8.84	79.7 ± 4.00	n = 46	[OLC] Beckman Coulter AU Chemistry System
93.3 ± 1.77	198.0 ± 4.94	139.0 ± 4.61	166.6 ± 2.65	72.6 ± 2.19	n = 7	[BCS] Beckman Coulter CX
94.9 ± 2.91	208.0 ± 6.11	139.7 ± 3.98	171.8 ± 5.72	75.0 ± 3.05	n = 6	[BCX] Beckman Coulter LX-20
96.1 ± 2.56	209.7 ± 4.59	144.1 ± 3.88	174.8 ± 6.01	77.6 ± 2.28	n = 18	[BCG] Beckman Coulter UniCel DxC 600
97.8 ± 2.73	210.9 ± 5.43	143.6 ± 4.26	176.0 ± 3.92	77.4 ± 2.49	n = 20	[BCH] Beckman Coulter UniCel DxC 800
339.2 ± 20.24	678.5 ± 11.71	448.0 ± 10.49	555.0 ± 11.03	267.2 ± 12.72	n = 9	[JJE] Ortho Vitros 250/350/950
337.5 ± 27.85	676.6 ± 20.94	445.1 ± 18.21	548.1 ± 15.10	265.5 ± 17.91	n = 22	[JJF] Ortho Vitros 5,1FS
332.7 ± 18.79	673.3 ± 20.57	449.1 ± 14.44	548.9 ± 17.85	267.6 ± 13.80	n = 14	[JJG] Ortho Vitros 5600
118.7 ± 2.93	262.3 ± 5.26	175.3 ± 5.38	211.5 ± 5.17	91.3 ± 3.09	n = 17	[ROC] Roche cobas c501
118.0 ± 0.75	258.1 ± 4.71	174.0 ± 1.66	205.7 ± 5.32	89.8 ± 3.60	n = 5	[ROT] Roche Cobas INTEGRA 800
115.5 ± 3.25	256.5 ± 4.65	169.7 ± 4.34	205.0 ± 4.78	88.7 ± 2.57	n = 31	[ROD] Roche MODULAR D/P
117.8 ± 2.93	257.9 ± 5.92	174.8 ± 4.09	211.7 ± 4.72	92.8 ± 2.16	n = 19	[BYE] Siemens ADVIA 1800
115.3 ± 4.06	252.0 ± 8.11	169.5 ± 6.32	205.2 ± 7.69	90.8 ± 4.11	n = 3	[BYB] Siemens ADVIA 2400
120.0 ± 7.24	266.9 ± 8.40	176.5 ± 7.54	215.4 ± 8.19	92.7 ± 4.82	n = 9	[DUE] Siemens Dimension EXL
121.1 ± 7.05	271.2 ± 8.76	180.1 ± 6.42	219.8 ± 6.18	94.9 ± 5.67	n = 19	[DUR] Siemens Dimension RxL
120.6 ± 5.53	267.6 ± 9.90	179.5 ± 5.84	216.0 ± 5.78	94.4 ± 4.41	n = 35	[DUT] Siemens Dimension Vista
120.7 ± 4.18	268.0 ± 7.52	174.7 ± 8.05	217.1 ± 5.73	90.9 ± 6.75	n = 12	[DUX] Siemens Dimension Xpand
						<Reagents>
120.9 ± 7.84	245.9 ± 14.58	166.8 ± 9.64	204.8 ± 11.88	93.2 ± 6.66	n = 15	[AB1] Abbott
96.5 ± 3.12	209.4 ± 5.84	142.9 ± 4.43	174.5 ± 5.63	77.0 ± 2.74	n = 47	[BC1] Beckman Coulter
102.7 ± 4.89	224.6 ± 10.04	153.9 ± 7.17	185.5 ± 8.76	79.6 ± 3.92	n = 45	[OL1] Beckman Coulter AU Series
93.9 ± 1.88	198.0 ± 4.60	140.3 ± 5.08	167.6 ± 3.39	72.3 ± 1.51	n = 4	[CR1] Carolina
336.5 ± 23.16	676.3 ± 18.91	447.1 ± 15.31	549.9 ± 15.35	266.9 ± 15.20	n = 45	[JJ1] Ortho Clinical Diagnostics
118.5 ± 3.13	262.3 ± 6.47	175.2 ± 6.32	211.2 ± 5.99	91.1 ± 3.40	n = 20	[RO4] Roche cobas c311/c501/c502/c701
115.4 ± 3.15	256.5 ± 4.46	169.5 ± 4.35	204.9 ± 4.65	88.6 ± 2.57	n = 32	[RO2] Roche Hitachi and Modular D/P
117.6 ± 2.72	258.6 ± 5.82	173.5 ± 5.55	206.4 ± 6.17	90.1 ± 3.30	n = 7	[RO1] Roche Integra and MIRA
117.3 ± 3.37	256.9 ± 7.02	174.0 ± 4.88	210.8 ± 5.64	92.3 ± 2.75	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
116.8 ± 8.80	262.3 ± 18.72	175.5 ± 13.12	211.2 ± 14.94	92.2 ± 7.02	n = 24	[DA5] Siemens Dimension
121.4 ± 5.98	269.1 ± 9.73	178.6 ± 6.79	218.0 ± 6.83	94.5 ± 5.11	n = 48	[DA8] Siemens Dimension IFCC Standardized
120.7 ± 2.26	268.3 ± 1.37	177.0 ± 1.80	215.8 ± 6.79	90.7 ± 1.37	n = 3	[DA6] Siemens Dimension LOCI

Summary of Participant Performance (Mean and Standard Deviation)

LDH Isoenzyme 1 (%)

Specimen: C66	Specimen: C67	Specimen: C68	Specimen: C69	Specimen: C70	Number	[Code] Instrument or Reagent System
32.9 ± 3.01	47.4 ± 1.15	22.2 ± 3.23	22.2 ± 3.09	31.5 ± 4.55	n = 9	[-P-] All Methods – Results reported as %±
						<Instruments>
34.9 ± 1.87	47.5 ± 0.83	24.0 ± 2.97	24.2 ± 3.31	34.2 ± 3.27	n = 5	[HLS] Helena SPIFE
30.3 ± 1.58	47.2 ± 1.46	20.2 ± 2.11	20.5 ± 1.22	27.9 ± 3.47	n = 4	[SEE] Sebia Electrophoresis
						<Reagents>
34.9 ± 1.87	47.5 ± 0.83	24.0 ± 2.97	24.2 ± 3.31	34.2 ± 3.27	n = 5	[HL1] Helena Laboratories
30.3 ± 1.58	47.2 ± 1.46	20.2 ± 2.11	20.5 ± 1.22	27.9 ± 3.47	n = 4	[SE1] Sebia