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Clinical Chemistry Proficiency Testing – May 7, 2012

Enclosed are results from the clinical chemistry proficiency survey shipped May 7, 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 (**C71, C72, C73, C74, C75**) 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 May 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: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
94.1 ± 3.02	282.0 ± 5.79	142.5 ± 4.04	63.9 ± 2.93	117.5 ± 3.88	n = 384	[---] All Methods & Instruments
						<Instruments>
98.0 ± 0.00	280.5 ± 1.86	145.5 ± 2.74	66.0 ± 0.00	120.4 ± 1.02	n = 3	[AXA] Abaxis Piccolo
93.2 ± 1.33	282.1 ± 4.43	139.4 ± 2.14	61.1 ± 1.27	115.3 ± 1.66	n = 22	[ABJ] Abbott Architect c System
94.9 ± 2.34	282.6 ± 5.99	141.8 ± 3.42	62.4 ± 1.46	118.1 ± 2.93	n = 52	[OLC] Beckman Coulter AU Chemistry System
90.9 ± 3.94	272.8 ± 9.10	138.5 ± 7.16	61.2 ± 2.32	114.1 ± 3.85	n = 5	[BCS] Beckman Coulter CX
94.7 ± 1.58	286.2 ± 3.07	143.1 ± 2.72	63.4 ± 1.80	120.4 ± 3.49	n = 4	[BCX] Beckman Coulter LX-20
93.1 ± 3.52	282.3 ± 5.51	141.8 ± 3.73	63.2 ± 3.24	117.6 ± 3.66	n = 19	[BCG] Beckman Coulter UniCel DxC 600
92.3 ± 2.41	283.0 ± 3.11	142.5 ± 1.73	63.2 ± 2.17	117.7 ± 1.48	n = 15	[BCH] Beckman Coulter UniCel DxC 800
116.0 ± 0.90	279.9 ± 3.72	157.3 ± 5.09	80.7 ± 0.51	135.5 ± 1.86	n = 3	[HEB] HemoCue B-Glucose
129.2 ± 3.09	287.1 ± 7.19	174.4 ± 1.90	92.7 ± 3.15	151.6 ± 3.79	n = 4	[HEC] HemoCue Glucose 201
97.1 ± 1.13	286.6 ± 0.94	143.4 ± 0.56	62.7 ± 0.97	117.5 ± 1.39	n = 6	[IAA] i-STAT
91.2 ± 1.82	283.0 ± 3.84	141.1 ± 2.35	66.0 ± 1.20	114.4 ± 2.29	n = 12	[JJE] Ortho Vitros 250/350/950
88.8 ± 1.95	279.9 ± 5.15	138.3 ± 2.85	64.0 ± 2.13	111.8 ± 1.98	n = 21	[JJF] Ortho Vitros 5,1FS
88.2 ± 1.82	279.0 ± 4.94	136.9 ± 2.50	63.5 ± 1.15	110.4 ± 1.91	n = 16	[JJG] Ortho Vitros 5600
95.1 ± 2.20	280.8 ± 5.29	142.4 ± 2.66	62.5 ± 1.12	117.5 ± 2.44	n = 17	[ROC] Roche cobas c501
93.1 ± 2.05	280.5 ± 4.53	141.5 ± 1.86	61.5 ± 1.86	116.3 ± 2.26	n = 3	[ROH] Roche cobas c701
95.1 ± 1.01	283.5 ± 4.19	142.0 ± 1.81	62.0 ± 1.23	118.4 ± 1.10	n = 7	[ROS] Roche Cobas INTEGRA 400
94.5 ± 0.83	279.5 ± 4.31	140.6 ± 1.89	61.6 ± 1.37	116.2 ± 1.78	n = 5	[ROT] Roche Cobas INTEGRA 800
95.0 ± 1.87	283.8 ± 6.12	142.9 ± 2.79	62.9 ± 1.21	117.9 ± 2.42	n = 33	[ROD] Roche MODULAR D/P
94.3 ± 1.34	282.2 ± 3.00	142.6 ± 1.53	62.6 ± 0.62	118.1 ± 0.98	n = 20	[BYE] Siemens ADVIA 1800
91.7 ± 4.96	280.2 ± 10.49	140.2 ± 6.79	62.5 ± 1.86	117.5 ± 3.63	n = 3	[BYB] Siemens ADVIA 2400
95.6 ± 1.82	282.3 ± 3.74	145.9 ± 2.82	67.7 ± 1.79	120.6 ± 2.29	n = 15	[DUE] Siemens Dimension EXL
96.5 ± 2.47	285.9 ± 8.37	147.4 ± 3.61	68.5 ± 1.66	121.6 ± 2.97	n = 25	[DUR] Siemens Dimension RxL
93.6 ± 2.16	277.6 ± 6.46	144.2 ± 3.64	66.3 ± 1.54	118.6 ± 3.30	n = 37	[DUT] Siemens Dimension Vista
95.9 ± 1.90	284.1 ± 4.68	146.9 ± 3.12	68.1 ± 1.98	121.1 ± 2.82	n = 21	[DUX] Siemens Dimension Xpand
						<Reagents>
98.0 ± 0.00	280.5 ± 1.86	145.5 ± 2.74	66.0 ± 0.00	120.4 ± 1.02	n = 3	[AX1] Abaxis
93.2 ± 1.33	282.1 ± 4.43	139.4 ± 2.14	61.1 ± 1.27	115.3 ± 1.66	n = 22	[AB1] Abbott
93.1 ± 2.95	282.9 ± 4.76	142.3 ± 2.84	63.3 ± 2.67	117.7 ± 2.65	n = 42	[BC1] Beckman Coulter
94.7 ± 2.26	282.3 ± 6.06	141.7 ± 3.30	62.3 ± 1.35	117.9 ± 2.85	n = 49	[OL1] Beckman Coulter AU Series
90.6 ± 6.45	273.6 ± 13.58	136.1 ± 9.19	62.9 ± 6.08	114.1 ± 6.58	n = 3	[CR1] Carolina
123.1 ± 7.50	283.4 ± 6.89	168.1 ± 9.91	87.6 ± 7.08	144.8 ± 9.59	n = 7	[HE1] HemoCue
97.1 ± 1.13	286.6 ± 0.94	143.4 ± 0.56	62.7 ± 0.97	117.5 ± 1.39	n = 6	[IA1] i-STAT
96.1 ± 2.86	288.8 ± 13.30	143.3 ± 3.07	69.6 ± 4.72	121.6 ± 4.72	n = 3	[JA1] JAS Diagnostics
89.2 ± 2.21	280.6 ± 5.08	138.5 ± 3.04	64.3 ± 1.95	111.8 ± 2.49	n = 50	[JJ1] Ortho Clinical Diagnostics
94.6 ± 2.34	280.5 ± 5.17	142.0 ± 2.69	62.3 ± 1.30	117.1 ± 2.58	n = 21	[RO4] Roche cobas c311/c501/c502/c701
95.0 ± 1.87	283.8 ± 6.12	142.9 ± 2.79	62.9 ± 1.21	117.9 ± 2.42	n = 33	[RO2] Roche Hitachi and Modular D/P
94.8 ± 0.97	281.8 ± 4.56	141.5 ± 1.99	61.8 ± 1.28	117.7 ± 1.77	n = 12	[RO1] Roche Integra and MIRA
94.4 ± 1.62	282.6 ± 3.61	142.8 ± 1.89	62.7 ± 0.76	118.2 ± 1.53	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
95.2 ± 2.49	281.6 ± 6.78	145.9 ± 3.67	67.5 ± 1.95	120.2 ± 3.22	n = 98	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Urea Nitrogen (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
13.7 ± 0.93	38.5 ± 2.26	22.7 ± 1.26	26.1 ± 1.46	18.8 ± 1.06	n = 366	[---] All Methods & Instruments
						<Instruments>
13.0 ± 0.00	37.7 ± 1.37	22.4 ± 1.02	24.7 ± 0.51	17.7 ± 0.51	n = 3	[AXA] Abaxis Piccolo
13.9 ± 0.37	37.9 ± 0.65	22.6 ± 0.56	26.0 ± 0.00	18.7 ± 0.51	n = 21	[ABJ] Abbott Architect c System
14.0 ± 0.53	39.1 ± 1.18	23.2 ± 0.70	26.4 ± 0.92	19.0 ± 0.70	n = 50	[OLC] Beckman Coulter AU Chemistry System
14.4 ± 0.55	38.8 ± 0.80	22.5 ± 0.83	26.4 ± 1.09	19.0 ± 0.00	n = 5	[BCS] Beckman Coulter CX
13.8 ± 1.46	35.8 ± 1.27	20.3 ± 1.58	23.2 ± 1.46	16.3 ± 1.51	n = 4	[BCX] Beckman Coulter LX-20
14.2 ± 0.53	39.5 ± 0.80	23.4 ± 0.56	27.3 ± 0.76	19.4 ± 0.56	n = 18	[BCG] Beckman Coulter UniCel DxC 600
13.2 ± 0.78	36.0 ± 1.43	20.0 ± 1.56	23.3 ± 1.75	16.6 ± 1.30	n = 16	[BCH] Beckman Coulter UniCel DxC 800
13.3 ± 0.51	44.8 ± 0.73	26.4 ± 0.79	30.4 ± 0.79	20.4 ± 0.79	n = 6	[IAA] i-STAT
12.3 ± 0.51	32.9 ± 0.93	20.9 ± 0.75	24.3 ± 0.77	17.8 ± 0.41	n = 12	[JJE] Ortho Vitros 250/350/950
11.9 ± 0.54	32.1 ± 0.69	20.1 ± 0.47	23.4 ± 0.60	16.9 ± 0.67	n = 21	[JJF] Ortho Vitros 5,1FS
11.6 ± 0.56	31.9 ± 0.75	19.9 ± 0.60	23.2 ± 0.73	16.5 ± 0.64	n = 16	[JJG] Ortho Vitros 5600
13.7 ± 0.53	38.7 ± 0.86	22.7 ± 0.59	26.0 ± 0.72	19.0 ± 0.00	n = 17	[ROC] Roche cobas c501
13.3 ± 0.51	38.4 ± 1.02	22.3 ± 0.51	25.7 ± 0.51	18.7 ± 0.51	n = 3	[ROH] Roche cobas c701
13.6 ± 0.55	38.6 ± 1.09	22.8 ± 0.80	26.8 ± 0.80	19.0 ± 0.64	n = 5	[ROS] Roche Cobas INTEGRA 400
14.0 ± 0.00	39.0 ± 0.00	22.6 ± 0.55	26.2 ± 0.80	18.4 ± 0.55	n = 5	[ROT] Roche Cobas INTEGRA 800
14.0 ± 0.70	39.0 ± 1.05	23.3 ± 0.69	26.6 ± 0.76	19.1 ± 0.50	n = 32	[ROD] Roche MODULAR D/P
14.1 ± 0.60	39.7 ± 0.82	22.9 ± 0.49	26.9 ± 0.63	19.1 ± 0.70	n = 20	[BYE] Siemens ADVIA 1800
14.3 ± 0.51	40.3 ± 0.51	23.7 ± 0.51	27.3 ± 0.51	19.7 ± 0.51	n = 3	[BYB] Siemens ADVIA 2400
14.0 ± 0.68	39.4 ± 1.23	23.3 ± 0.61	26.7 ± 0.81	19.3 ± 0.84	n = 14	[DUE] Siemens Dimension EXL
14.0 ± 0.71	39.5 ± 1.29	23.3 ± 0.68	26.9 ± 0.72	19.3 ± 0.58	n = 25	[DUR] Siemens Dimension RxL
13.6 ± 0.70	38.5 ± 1.18	22.7 ± 0.80	26.1 ± 0.96	18.6 ± 0.70	n = 37	[DUT] Siemens Dimension Vista
13.9 ± 0.92	39.5 ± 1.55	23.1 ± 0.96	26.7 ± 1.28	19.2 ± 1.13	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
13.0 ± 0.00	37.7 ± 1.37	22.4 ± 1.02	24.7 ± 0.51	17.7 ± 0.51	n = 3	[AX1] Abaxis
13.9 ± 0.37	37.9 ± 0.65	22.6 ± 0.56	26.0 ± 0.00	18.7 ± 0.51	n = 21	[AB1] Abbott
13.9 ± 0.92	37.8 ± 2.09	21.9 ± 2.04	25.4 ± 2.46	18.2 ± 1.80	n = 42	[BC1] Beckman Coulter
14.0 ± 0.54	39.1 ± 1.19	23.1 ± 0.70	26.4 ± 0.93	19.0 ± 0.72	n = 49	[OL1] Beckman Coulter AU Series
13.3 ± 0.51	44.8 ± 0.73	26.4 ± 0.79	30.4 ± 0.79	20.4 ± 0.79	n = 6	[IA1] i-STAT
14.3 ± 0.51	40.6 ± 1.02	24.0 ± 0.90	26.7 ± 0.51	19.3 ± 0.51	n = 3	[JA1] JAS Diagnostics
11.9 ± 0.63	32.2 ± 0.87	20.3 ± 0.75	23.6 ± 0.85	17.1 ± 0.81	n = 51	[JJ1] Ortho Clinical Diagnostics
13.7 ± 0.54	38.6 ± 0.87	22.7 ± 0.59	25.9 ± 0.67	19.0 ± 0.00	n = 21	[RO4] Roche cobas c311/c501/c502/c701
14.0 ± 0.70	39.0 ± 1.05	23.3 ± 0.69	26.6 ± 0.76	19.1 ± 0.50	n = 32	[RO2] Roche Hitachi and Modular D/P
13.8 ± 0.48	39.0 ± 0.74	22.7 ± 0.67	26.5 ± 0.83	18.7 ± 0.67	n = 10	[RO1] Roche Integra and MIRA
14.2 ± 0.62	39.8 ± 0.80	23.0 ± 0.55	27.0 ± 0.61	19.2 ± 0.72	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
13.8 ± 0.76	39.1 ± 1.38	23.0 ± 0.82	26.5 ± 1.00	19.0 ± 0.84	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Creatinine (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
1.04 ± 0.09	4.18 ± 0.15	1.72 ± 0.16	2.34 ± 0.16	1.39 ± 0.14	n = 371	[---] All Methods & Instruments
1.03 ± 0.10	4.22 ± 0.27	1.67 ± 0.13	2.33 ± 0.17	1.35 ± 0.09	n = 200	[---] All IDMS Traceable Methods
1.04 ± 0.09	4.19 ± 0.13	1.79 ± 0.18	2.35 ± 0.14	1.45 ± 0.15	n = 168	[---] All Non-IDMS Traceable Methods
1.03 ± 0.08	4.19 ± 0.13	1.81 ± 0.17	2.35 ± 0.12	1.47 ± 0.15	n = 141	[-G-] Alkaline picrate/Jaffe
1.01 ± 0.09	4.15 ± 0.13	1.67 ± 0.12	2.31 ± 0.13	1.35 ± 0.09	n = 136	[-H-] Alkaline picrate/Jaffe-IDMS calibration
1.09 ± 0.10	4.60 ± 0.49	1.65 ± 0.19	2.35 ± 0.25	1.36 ± 0.15	n = 27	[-I-] Enzymatic
1.09 ± 0.09	4.68 ± 0.45	1.66 ± 0.14	2.37 ± 0.23	1.34 ± 0.11	n = 64	[-J-] Enzymatic-IDMS-traceable calibration
1.03 ± 0.05	4.12 ± 0.14	1.67 ± 0.12	2.33 ± 0.05	1.31 ± 0.11	n = 3	[-Z-] Other
						<Instruments>
0.98 ± 0.09	4.08 ± 0.06	1.39 ± 0.02	2.02 ± 0.15	1.22 ± 0.05	n = 3	[AXA] Abaxis Piccolo
1.08 ± 0.03	4.37 ± 0.09	1.80 ± 0.03	2.53 ± 0.05	1.39 ± 0.03	n = 21	[ABJ] Abbott Architect c System
1.00 ± 0.02	4.11 ± 0.09	1.64 ± 0.05	2.28 ± 0.05	1.33 ± 0.05	n = 52	[OLC] Beckman Coulter AU Chemistry System
1.00 ± 0.00	4.19 ± 0.17	1.65 ± 0.07	2.31 ± 0.14	1.38 ± 0.08	n = 5	[BCS] Beckman Coulter CX
0.97 ± 0.04	4.18 ± 0.08	1.61 ± 0.03	2.25 ± 0.05	1.29 ± 0.05	n = 4	[BCX] Beckman Coulter LX-20
0.90 ± 0.05	4.19 ± 0.11	1.52 ± 0.07	2.23 ± 0.06	1.24 ± 0.06	n = 19	[BCG] Beckman Coulter UniCel DxC 600
0.97 ± 0.05	4.21 ± 0.05	1.63 ± 0.05	2.26 ± 0.06	1.32 ± 0.05	n = 16	[BCH] Beckman Coulter UniCel DxC 800
1.20 ± 0.00	5.34 ± 0.44	1.75 ± 0.16	2.39 ± 0.13	1.60 ± 0.06	n = 5	[IAA] i-STAT
1.19 ± 0.05	4.76 ± 0.16	1.77 ± 0.08	2.47 ± 0.13	1.43 ± 0.09	n = 12	[JJE] Ortho Vitros 250/350/950
1.10 ± 0.01	5.00 ± 0.13	1.73 ± 0.05	2.52 ± 0.06	1.40 ± 0.00	n = 21	[JJF] Ortho Vitros 5,1FS
1.10 ± 0.00	4.97 ± 0.19	1.71 ± 0.04	2.50 ± 0.07	1.38 ± 0.04	n = 16	[JJG] Ortho Vitros 5600
0.98 ± 0.09	4.19 ± 0.12	1.54 ± 0.11	2.18 ± 0.10	1.26 ± 0.09	n = 19	[ROC] Roche cobas c501
1.09 ± 0.06	4.04 ± 0.14	1.70 ± 0.09	2.32 ± 0.10	1.40 ± 0.07	n = 3	[ROH] Roche cobas c701
1.00 ± 0.00	4.03 ± 0.07	1.60 ± 0.00	2.20 ± 0.00	1.29 ± 0.06	n = 6	[ROS] Roche Cobas INTEGRA 400
1.00 ± 0.00	4.09 ± 0.12	1.50 ± 0.00	2.10 ± 0.00	1.20 ± 0.01	n = 5	[ROT] Roche Cobas INTEGRA 800
1.05 ± 0.07	4.20 ± 0.11	1.73 ± 0.19	2.35 ± 0.20	1.39 ± 0.14	n = 32	[ROD] Roche MODULAR D/P
1.09 ± 0.06	4.16 ± 0.10	1.67 ± 0.08	2.40 ± 0.10	1.33 ± 0.07	n = 20	[BYE] Siemens ADVIA 1800
1.10 ± 0.03	4.17 ± 0.05	1.76 ± 0.06	2.40 ± 0.09	1.43 ± 0.02	n = 3	[BYB] Siemens ADVIA 2400
1.05 ± 0.06	4.21 ± 0.10	1.95 ± 0.09	2.40 ± 0.00	1.59 ± 0.05	n = 14	[DUE] Siemens Dimension EXL
1.05 ± 0.09	4.20 ± 0.14	1.92 ± 0.13	2.39 ± 0.12	1.57 ± 0.10	n = 25	[DUR] Siemens Dimension RxL
1.00 ± 0.09	4.12 ± 0.12	1.86 ± 0.10	2.31 ± 0.11	1.52 ± 0.10	n = 37	[DUT] Siemens Dimension Vista
1.01 ± 0.08	4.18 ± 0.13	1.90 ± 0.11	2.33 ± 0.14	1.55 ± 0.09	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
0.98 ± 0.09	4.08 ± 0.06	1.39 ± 0.02	2.02 ± 0.15	1.22 ± 0.05	n = 3	[AX1] Abaxis
1.08 ± 0.04	4.37 ± 0.09	1.80 ± 0.03	2.53 ± 0.05	1.39 ± 0.03	n = 22	[AB1] Abbott
0.94 ± 0.07	4.19 ± 0.09	1.58 ± 0.08	2.24 ± 0.06	1.28 ± 0.07	n = 43	[BC1] Beckman Coulter
1.00 ± 0.02	4.11 ± 0.09	1.63 ± 0.05	2.28 ± 0.05	1.32 ± 0.04	n = 49	[OL1] Beckman Coulter AU Series
0.98 ± 0.05	4.30 ± 0.18	1.69 ± 0.07	2.41 ± 0.11	1.43 ± 0.05	n = 3	[CR1] Carolina
1.22 ± 0.04	5.47 ± 0.40	1.80 ± 0.15	2.43 ± 0.09	1.60 ± 0.08	n = 4	[IA1] i-STAT
1.09 ± 0.04	4.04 ± 0.16	1.70 ± 0.05	2.23 ± 0.08	1.40 ± 0.07	n = 3	[JA1] JAS Diagnostics
1.13 ± 0.05	4.94 ± 0.19	1.73 ± 0.06	2.51 ± 0.08	1.39 ± 0.05	n = 51	[JJ1] Ortho Clinical Diagnostics
1.00 ± 0.09	4.17 ± 0.13	1.57 ± 0.13	2.20 ± 0.11	1.28 ± 0.11	n = 23	[RO4] Roche cobas c311/c501/c502/c701
1.05 ± 0.07	4.20 ± 0.11	1.73 ± 0.19	2.35 ± 0.20	1.39 ± 0.14	n = 32	[RO2] Roche Hitachi and Modular D/P
1.00 ± 0.00	4.06 ± 0.10	1.56 ± 0.07	2.16 ± 0.06	1.26 ± 0.06	n = 11	[RO1] Roche Integra and MIRA
1.09 ± 0.06	4.16 ± 0.09	1.69 ± 0.09	2.41 ± 0.10	1.35 ± 0.08	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
1.02 ± 0.09	4.17 ± 0.13	1.89 ± 0.11	2.35 ± 0.13	1.55 ± 0.10	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Glomerular filtration rate (mL/min/1.73 m²)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
88.5 ± 9.81	17.1 ± 1.52	48.7 ± 5.51	34.1 ± 3.17	60.5 ± 7.24	n = 286	[---] All Methods & Instruments
87.0 ± 10.95	16.8 ± 1.57	49.7 ± 5.15	33.8 ± 3.22	61.3 ± 7.13	n = 164	[-A-] IDMS-traceable MDRD Study Equation
89.3 ± 10.71	17.9 ± 1.13	46.6 ± 5.47	34.6 ± 3.15	58.3 ± 6.93	n = 98	[-B-] Original MDRD Study Equation (4-variable)
90.0 ± 2.71	16.5 ± 1.00	49.8 ± 3.76	33.7 ± 2.07	64.1 ± 4.00	n = 20	[-F-] CKD-EPI Equation
89.5 ± 1.71	15.3 ± 2.26	47.8 ± 10.49	32.0 ± 7.27	61.1 ± 8.46	n = 3	[-Z-] Other

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

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Method
87 (65-110)	17 (14-20)	50 (42-58)	34 (29-40)	64 (54-80)	IDMS-traceable MDRD Study Equation
92 (68-115)	18 (15-22)	49 (41-57)	36 (30-42)	63 (53-79)	Original MDRD Study Equation
87 (65-110)	16 (13-19)	49 (41-56)	33 (27-38)	63 (53-79)	CKD-EPI Equation
101 (75-126)	25 (21-29)	61 (51-77)	45 (38-52)	75 (64-95)	Cockcroft-Gault Equation

Laboratories were asked to report Estimated Glomerular Filtration Rate (eGFR) for samples C71-C75 for a 66-year-old African American man weighing 102 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 C71 and C75. These data were removed from the calculations of mean and standard deviation since their inclusion would have skewed results. Participant results for specimens C71 and C75 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: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
7.27 ± 0.35	2.84 ± 0.16	5.83 ± 0.27	4.30 ± 0.24	4.83 ± 0.23	n = 332	[---] All Methods & Instruments
						<Instruments>
7.40 ± 0.23	2.85 ± 0.07	5.87 ± 0.14	4.24 ± 0.12	4.83 ± 0.10	n = 21	[ABJ] Abbott Architect c System
7.86 ± 0.18	3.08 ± 0.10	6.30 ± 0.17	4.59 ± 0.12	5.28 ± 0.16	n = 48	[OLC] Beckman Coulter AU Chemistry System
7.37 ± 0.23	2.89 ± 0.19	5.65 ± 0.27	4.00 ± 0.08	4.70 ± 0.08	n = 5	[BCS] Beckman Coulter CX
7.30 ± 0.00	2.87 ± 0.09	5.62 ± 0.04	4.10 ± 0.08	4.75 ± 0.06	n = 4	[BCX] Beckman Coulter LX-20
7.21 ± 0.08	2.72 ± 0.07	5.53 ± 0.11	3.99 ± 0.07	4.64 ± 0.09	n = 16	[BCG] Beckman Coulter UniCel DxC 600
7.21 ± 0.09	2.73 ± 0.05	5.51 ± 0.09	3.97 ± 0.05	4.63 ± 0.07	n = 16	[BCH] Beckman Coulter UniCel DxC 800
6.96 ± 0.12	2.69 ± 0.05	5.66 ± 0.06	4.19 ± 0.07	4.64 ± 0.10	n = 10	[JJE] Ortho Vitros 250/350/950
7.02 ± 0.17	2.74 ± 0.07	5.67 ± 0.13	4.20 ± 0.12	4.66 ± 0.09	n = 21	[JJF] Ortho Vitros 5,1FS
7.03 ± 0.14	2.70 ± 0.00	5.63 ± 0.11	4.18 ± 0.09	4.64 ± 0.11	n = 16	[JJG] Ortho Vitros 5600
7.42 ± 0.15	2.83 ± 0.07	5.86 ± 0.14	4.25 ± 0.10	4.84 ± 0.15	n = 17	[ROC] Roche cobas c501
7.37 ± 0.16	2.80 ± 0.06	5.77 ± 0.11	4.14 ± 0.11	4.77 ± 0.11	n = 5	[ROT] Roche Cobas INTEGRA 800
7.35 ± 0.16	2.77 ± 0.06	5.80 ± 0.12	4.16 ± 0.09	4.78 ± 0.11	n = 31	[ROD] Roche MODULAR D/P
7.39 ± 0.11	2.86 ± 0.06	5.81 ± 0.07	4.23 ± 0.06	4.82 ± 0.09	n = 20	[BYE] Siemens ADVIA 1800
7.53 ± 0.14	2.87 ± 0.05	5.93 ± 0.05	4.33 ± 0.05	4.90 ± 0.09	n = 3	[BYB] Siemens ADVIA 2400
7.20 ± 0.16	2.96 ± 0.09	5.97 ± 0.13	4.59 ± 0.12	4.97 ± 0.11	n = 14	[DUE] Siemens Dimension EXL
7.22 ± 0.22	3.04 ± 0.13	6.04 ± 0.17	4.58 ± 0.18	4.96 ± 0.15	n = 22	[DUR] Siemens Dimension RxL
6.74 ± 0.12	2.76 ± 0.06	5.70 ± 0.12	4.35 ± 0.09	4.75 ± 0.12	n = 36	[DUT] Siemens Dimension Vista
7.26 ± 0.14	3.00 ± 0.09	6.05 ± 0.10	4.56 ± 0.11	5.01 ± 0.11	n = 14	[DUX] Siemens Dimension Xpand
						<Reagents>
7.40 ± 0.23	2.85 ± 0.07	5.87 ± 0.14	4.24 ± 0.12	4.83 ± 0.10	n = 21	[AB1] Abbott
7.22 ± 0.08	2.73 ± 0.07	5.53 ± 0.10	3.99 ± 0.07	4.65 ± 0.08	n = 41	[BC1] Beckman Coulter
7.86 ± 0.18	3.07 ± 0.10	6.30 ± 0.17	4.58 ± 0.12	5.27 ± 0.16	n = 47	[OL1] Beckman Coulter AU Series
7.90 ± 0.46	3.20 ± 0.09	6.27 ± 0.23	4.63 ± 0.14	5.15 ± 0.27	n = 3	[JA1] JAS Diagnostics
7.01 ± 0.15	2.71 ± 0.05	5.65 ± 0.11	4.19 ± 0.10	4.65 ± 0.10	n = 47	[JJ1] Ortho Clinical Diagnostics
7.40 ± 0.15	2.82 ± 0.07	5.84 ± 0.13	4.24 ± 0.10	4.82 ± 0.15	n = 20	[RO4] Roche cobas c311/c501/c502/c701
7.35 ± 0.16	2.77 ± 0.06	5.80 ± 0.12	4.16 ± 0.09	4.78 ± 0.11	n = 31	[RO2] Roche Hitachi and Modular D/P
7.34 ± 0.13	2.80 ± 0.05	5.76 ± 0.10	4.16 ± 0.09	4.76 ± 0.10	n = 7	[RO1] Roche Integra and MIRA
7.40 ± 0.12	2.86 ± 0.06	5.83 ± 0.09	4.25 ± 0.07	4.84 ± 0.09	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
7.02 ± 0.31	2.90 ± 0.16	5.89 ± 0.22	4.48 ± 0.17	4.89 ± 0.17	n = 86	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Bilirubin (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
2.05 ± 0.18	0.82 ± 0.12	3.32 ± 0.22	1.25 ± 0.15	2.68 ± 0.18	n = 355	[---] All Methods & Instruments
						<Instruments>
2.13 ± 0.05	0.90 ± 0.00	3.47 ± 0.05	1.30 ± 0.00	2.77 ± 0.05	n = 3	[AXA] Abaxis Piccolo
2.19 ± 0.19	0.85 ± 0.09	3.47 ± 0.20	1.29 ± 0.12	2.80 ± 0.15	n = 21	[ABJ] Abbott Architect c System
2.09 ± 0.07	0.90 ± 0.00	3.18 ± 0.09	1.29 ± 0.04	2.63 ± 0.08	n = 50	[OLC] Beckman Coulter AU Chemistry System
2.32 ± 0.21	1.09 ± 0.11	3.68 ± 0.38	1.56 ± 0.19	2.97 ± 0.32	n = 4	[BCS] Beckman Coulter CX
2.30 ± 0.17	1.05 ± 0.06	3.47 ± 0.20	1.47 ± 0.15	2.97 ± 0.09	n = 4	[BCX] Beckman Coulter LX-20
2.25 ± 0.14	1.01 ± 0.12	3.59 ± 0.19	1.47 ± 0.17	2.90 ± 0.18	n = 18	[BCG] Beckman Coulter UniCel DxC 600
2.25 ± 0.16	1.01 ± 0.08	3.51 ± 0.22	1.46 ± 0.12	2.86 ± 0.18	n = 16	[BCH] Beckman Coulter UniCel DxC 800
2.16 ± 0.08	0.87 ± 0.06	3.40 ± 0.09	1.41 ± 0.07	2.75 ± 0.07	n = 11	[JJE] Ortho Vitros 250/350/950
2.13 ± 0.10	0.80 ± 0.07	3.46 ± 0.16	1.37 ± 0.09	2.77 ± 0.13	n = 21	[JJF] Ortho Vitros 5,1FS
2.00 ± 0.15	0.75 ± 0.07	3.30 ± 0.20	1.30 ± 0.13	2.64 ± 0.14	n = 16	[JJG] Ortho Vitros 5600
1.74 ± 0.06	0.67 ± 0.05	3.04 ± 0.10	1.02 ± 0.07	2.38 ± 0.06	n = 16	[ROC] Roche cobas c501
1.67 ± 0.05	0.60 ± 0.00	2.97 ± 0.05	0.93 ± 0.05	2.30 ± 0.09	n = 3	[ROH] Roche cobas c701
1.72 ± 0.07	0.67 ± 0.05	3.00 ± 0.00	1.00 ± 0.06	2.33 ± 0.10	n = 6	[ROS] Roche Cobas INTEGRA 400
1.80 ± 0.00	0.68 ± 0.08	3.15 ± 0.16	1.06 ± 0.06	2.44 ± 0.14	n = 5	[ROT] Roche Cobas INTEGRA 800
1.89 ± 0.12	0.71 ± 0.05	3.20 ± 0.13	1.11 ± 0.08	2.54 ± 0.12	n = 32	[ROD] Roche MODULAR D/P
2.09 ± 0.07	0.90 ± 0.00	3.50 ± 0.11	1.26 ± 0.06	2.80 ± 0.09	n = 20	[BYE] Siemens ADVIA 1800
2.16 ± 0.26	0.87 ± 0.05	3.59 ± 0.29	1.27 ± 0.14	2.92 ± 0.15	n = 3	[BYB] Siemens ADVIA 2400
1.99 ± 0.10	0.76 ± 0.06	3.33 ± 0.11	1.20 ± 0.00	2.65 ± 0.08	n = 14	[DUE] Siemens Dimension EXL
2.04 ± 0.09	0.78 ± 0.05	3.37 ± 0.09	1.23 ± 0.07	2.69 ± 0.06	n = 25	[DUR] Siemens Dimension RxL
2.00 ± 0.07	0.80 ± 0.00	3.33 ± 0.10	1.24 ± 0.08	2.67 ± 0.07	n = 37	[DUT] Siemens Dimension Vista
2.04 ± 0.09	0.79 ± 0.06	3.36 ± 0.15	1.22 ± 0.10	2.68 ± 0.10	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
2.13 ± 0.05	0.90 ± 0.00	3.47 ± 0.05	1.30 ± 0.00	2.77 ± 0.05	n = 3	[AX1] Abaxis
2.19 ± 0.19	0.85 ± 0.09	3.47 ± 0.20	1.29 ± 0.12	2.80 ± 0.15	n = 21	[AB1] Abbott
2.25 ± 0.16	1.02 ± 0.10	3.54 ± 0.23	1.47 ± 0.16	2.88 ± 0.20	n = 43	[BC1] Beckman Coulter
2.09 ± 0.07	0.90 ± 0.00	3.18 ± 0.09	1.30 ± 0.00	2.63 ± 0.08	n = 48	[OL1] Beckman Coulter AU Series
2.10 ± 0.13	0.80 ± 0.08	3.40 ± 0.17	1.36 ± 0.11	2.73 ± 0.14	n = 50	[JJ1] Ortho Clinical Diagnostics
1.73 ± 0.06	0.66 ± 0.06	3.03 ± 0.09	1.01 ± 0.07	2.36 ± 0.07	n = 20	[RO4] Roche cobas c311/c501/c502/c701
1.89 ± 0.12	0.71 ± 0.05	3.20 ± 0.13	1.11 ± 0.08	2.54 ± 0.12	n = 32	[RO2] Roche Hitachi and Modular D/P
1.77 ± 0.08	0.67 ± 0.06	3.05 ± 0.10	1.03 ± 0.06	2.37 ± 0.12	n = 11	[RO1] Roche Integra and MIRA
2.11 ± 0.11	0.90 ± 0.00	3.51 ± 0.15	1.27 ± 0.07	2.81 ± 0.11	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
2.01 ± 0.09	0.79 ± 0.05	3.34 ± 0.11	1.23 ± 0.08	2.67 ± 0.07	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Phosphorus (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
2.64 ± 0.16	6.39 ± 0.30	3.77 ± 0.21	3.87 ± 0.22	3.24 ± 0.18	n = 336	[---] All Methods & Instruments
						<Instruments>
2.60 ± 0.06	6.30 ± 0.06	3.72 ± 0.11	3.84 ± 0.10	3.21 ± 0.07	n = 20	[ABJ] Abbott Architect c System
2.57 ± 0.09	6.15 ± 0.16	3.63 ± 0.10	3.75 ± 0.10	3.14 ± 0.08	n = 49	[OLC] Beckman Coulter AU Chemistry System
2.68 ± 0.27	6.54 ± 0.62	3.99 ± 0.47	4.35 ± 0.52	3.44 ± 0.29	n = 4	[BCS] Beckman Coulter CX
2.77 ± 0.08	6.85 ± 0.12	4.00 ± 0.11	4.10 ± 0.08	3.40 ± 0.08	n = 4	[BCX] Beckman Coulter LX-20
2.73 ± 0.14	6.40 ± 0.19	3.93 ± 0.17	3.96 ± 0.10	3.36 ± 0.16	n = 17	[BCG] Beckman Coulter UniCel DxC 600
2.69 ± 0.05	6.65 ± 0.08	3.84 ± 0.07	3.90 ± 0.07	3.32 ± 0.04	n = 16	[BCH] Beckman Coulter UniCel DxC 800
3.01 ± 0.12	7.10 ± 0.15	4.20 ± 0.10	4.37 ± 0.14	3.65 ± 0.12	n = 10	[JJE] Ortho Vitros 250/350/950
2.99 ± 0.13	7.00 ± 0.15	4.13 ± 0.14	4.30 ± 0.14	3.58 ± 0.13	n = 21	[JJF] Ortho Vitros 5,1FS
3.03 ± 0.16	6.99 ± 0.12	4.16 ± 0.15	4.32 ± 0.17	3.60 ± 0.16	n = 16	[JJG] Ortho Vitros 5600
2.67 ± 0.07	6.42 ± 0.09	3.82 ± 0.10	3.89 ± 0.11	3.26 ± 0.12	n = 18	[ROC] Roche cobas c501
2.53 ± 0.14	6.27 ± 0.14	3.70 ± 0.09	3.77 ± 0.14	3.20 ± 0.09	n = 3	[ROH] Roche cobas c701
2.67 ± 0.09	6.45 ± 0.12	3.83 ± 0.08	3.90 ± 0.08	3.33 ± 0.09	n = 4	[ROS] Roche Cobas INTEGRA 400
2.65 ± 0.08	6.38 ± 0.08	3.72 ± 0.08	3.85 ± 0.08	3.22 ± 0.08	n = 5	[ROT] Roche Cobas INTEGRA 800
2.62 ± 0.10	6.33 ± 0.17	3.77 ± 0.13	3.87 ± 0.13	3.24 ± 0.11	n = 31	[ROD] Roche MODULAR D/P
2.63 ± 0.06	6.33 ± 0.13	3.78 ± 0.11	3.86 ± 0.09	3.26 ± 0.09	n = 20	[BYE] Siemens ADVIA 1800
2.67 ± 0.05	6.37 ± 0.05	3.83 ± 0.05	3.90 ± 0.00	3.20 ± 0.09	n = 3	[BYB] Siemens ADVIA 2400
2.58 ± 0.10	6.25 ± 0.10	3.63 ± 0.08	3.73 ± 0.09	3.13 ± 0.08	n = 13	[DUE] Siemens Dimension EXL
2.62 ± 0.09	6.31 ± 0.12	3.66 ± 0.12	3.78 ± 0.12	3.16 ± 0.12	n = 23	[DUR] Siemens Dimension RxL
2.50 ± 0.09	6.25 ± 0.16	3.58 ± 0.14	3.68 ± 0.11	3.10 ± 0.10	n = 36	[DUT] Siemens Dimension Vista
2.63 ± 0.06	6.35 ± 0.12	3.70 ± 0.08	3.80 ± 0.13	3.18 ± 0.09	n = 17	[DUX] Siemens Dimension Xpand
						<Reagents>
2.60 ± 0.06	6.30 ± 0.06	3.72 ± 0.11	3.84 ± 0.10	3.21 ± 0.07	n = 20	[AB1] Abbott
2.71 ± 0.11	6.56 ± 0.22	3.88 ± 0.13	3.94 ± 0.12	3.33 ± 0.09	n = 40	[BC1] Beckman Coulter
2.57 ± 0.09	6.15 ± 0.15	3.63 ± 0.10	3.74 ± 0.10	3.14 ± 0.09	n = 48	[OL1] Beckman Coulter AU Series
2.70 ± 0.36	6.61 ± 0.37	3.88 ± 0.24	4.15 ± 0.19	3.31 ± 0.29	n = 3	[JA1] JAS Diagnostics
3.01 ± 0.13	7.02 ± 0.15	4.15 ± 0.14	4.32 ± 0.15	3.60 ± 0.14	n = 47	[JJ1] Ortho Clinical Diagnostics
2.66 ± 0.08	6.40 ± 0.11	3.80 ± 0.11	3.88 ± 0.12	3.25 ± 0.11	n = 21	[RO4] Roche cobas c311/c501/c502/c701
2.62 ± 0.10	6.33 ± 0.17	3.77 ± 0.13	3.87 ± 0.13	3.24 ± 0.11	n = 31	[RO2] Roche Hitachi and Modular D/P
2.66 ± 0.09	6.40 ± 0.10	3.77 ± 0.09	3.87 ± 0.08	3.27 ± 0.10	n = 9	[RO1] Roche Integra and MIRA
2.63 ± 0.06	6.34 ± 0.12	3.80 ± 0.10	3.87 ± 0.08	3.25 ± 0.09	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
2.57 ± 0.11	6.28 ± 0.14	3.63 ± 0.13	3.74 ± 0.13	3.14 ± 0.11	n = 89	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Calcium (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
10.07 ± 0.25	6.89 ± 0.23	9.95 ± 0.27	11.60 ± 0.29	8.19 ± 0.20	n = 363	[---] All Methods & Instruments
						<Instruments>
10.10 ± 0.18	6.80 ± 0.18	10.10 ± 0.09	11.43 ± 0.05	8.66 ± 0.10	n = 3	[AXA] Abaxis Piccolo
10.04 ± 0.12	7.03 ± 0.05	9.94 ± 0.10	11.75 ± 0.18	8.15 ± 0.07	n = 21	[ABJ] Abbott Architect c System
10.07 ± 0.16	7.01 ± 0.12	9.99 ± 0.14	11.64 ± 0.16	8.23 ± 0.15	n = 51	[OLC] Beckman Coulter AU Chemistry System
9.82 ± 0.32	7.02 ± 0.27	9.66 ± 0.17	11.28 ± 0.33	8.13 ± 0.16	n = 5	[BCS] Beckman Coulter CX
10.25 ± 0.12	7.03 ± 0.09	9.55 ± 0.23	11.38 ± 0.13	8.15 ± 0.17	n = 4	[BCX] Beckman Coulter LX-20
9.97 ± 0.18	6.89 ± 0.12	9.69 ± 0.25	11.33 ± 0.27	8.10 ± 0.15	n = 19	[BCG] Beckman Coulter UniCel DxC 600
10.07 ± 0.11	6.92 ± 0.10	9.72 ± 0.13	11.28 ± 0.15	8.16 ± 0.11	n = 16	[BCH] Beckman Coulter UniCel DxC 800
10.10 ± 0.17	6.74 ± 0.19	10.21 ± 0.26	11.85 ± 0.22	8.30 ± 0.24	n = 12	[JJE] Ortho Vitros 250/350/950
10.03 ± 0.16	6.63 ± 0.13	10.06 ± 0.19	11.68 ± 0.20	8.18 ± 0.17	n = 21	[JJF] Ortho Vitros 5,1FS
10.01 ± 0.14	6.64 ± 0.14	10.08 ± 0.18	11.69 ± 0.18	8.19 ± 0.16	n = 16	[JJG] Ortho Vitros 5600
10.46 ± 0.19	6.95 ± 0.16	10.08 ± 0.20	11.86 ± 0.14	8.27 ± 0.13	n = 18	[ROC] Roche cobas c501
10.55 ± 0.19	7.04 ± 0.10	10.34 ± 0.10	12.05 ± 0.19	8.43 ± 0.14	n = 3	[ROH] Roche cobas c701
10.41 ± 0.25	6.78 ± 0.15	10.21 ± 0.21	11.77 ± 0.31	8.25 ± 0.23	n = 6	[ROS] Roche Cobas INTEGRA 400
10.10 ± 0.30	6.77 ± 0.18	9.98 ± 0.30	11.55 ± 0.23	8.06 ± 0.20	n = 5	[ROT] Roche Cobas INTEGRA 800
10.29 ± 0.25	7.04 ± 0.20	10.13 ± 0.26	11.80 ± 0.26	8.33 ± 0.20	n = 32	[ROD] Roche MODULAR D/P
10.22 ± 0.21	7.20 ± 0.23	10.17 ± 0.19	11.76 ± 0.20	8.39 ± 0.14	n = 20	[BYE] Siemens ADVIA 1800
10.32 ± 0.15	7.40 ± 0.09	9.85 ± 0.36	11.68 ± 0.24	8.34 ± 0.10	n = 3	[BYB] Siemens ADVIA 2400
9.91 ± 0.13	6.72 ± 0.16	9.83 ± 0.14	11.41 ± 0.19	8.02 ± 0.16	n = 14	[DUE] Siemens Dimension EXL
10.01 ± 0.14	6.80 ± 0.14	9.87 ± 0.19	11.54 ± 0.18	8.16 ± 0.14	n = 25	[DUR] Siemens Dimension RxL
9.81 ± 0.22	6.74 ± 0.15	9.66 ± 0.25	11.37 ± 0.27	8.01 ± 0.21	n = 37	[DUT] Siemens Dimension Vista
9.87 ± 0.20	6.77 ± 0.15	9.78 ± 0.21	11.43 ± 0.23	8.05 ± 0.19	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
10.10 ± 0.18	6.80 ± 0.18	10.10 ± 0.09	11.43 ± 0.05	8.66 ± 0.10	n = 3	[AX1] Abaxis
10.04 ± 0.12	7.03 ± 0.05	9.94 ± 0.10	11.75 ± 0.18	8.15 ± 0.07	n = 21	[AB1] Abbott
10.02 ± 0.18	6.91 ± 0.11	9.70 ± 0.20	11.31 ± 0.21	8.13 ± 0.14	n = 43	[BC1] Beckman Coulter
10.07 ± 0.16	7.01 ± 0.12	10.00 ± 0.14	11.64 ± 0.15	8.23 ± 0.16	n = 50	[OL1] Beckman Coulter AU Series
10.19 ± 0.20	6.92 ± 0.32	9.93 ± 0.23	11.36 ± 0.39	8.15 ± 0.19	n = 3	[JA1] JAS Diagnostics
10.04 ± 0.17	6.66 ± 0.15	10.10 ± 0.20	11.73 ± 0.22	8.20 ± 0.18	n = 50	[JJ1] Ortho Clinical Diagnostics
10.48 ± 0.18	6.99 ± 0.14	10.14 ± 0.18	11.90 ± 0.13	8.31 ± 0.12	n = 20	[RO4] Roche cobas c311/c501/c502/c701
10.29 ± 0.26	7.04 ± 0.20	10.13 ± 0.26	11.81 ± 0.27	8.32 ± 0.20	n = 31	[RO2] Roche Hitachi and Modular D/P
10.29 ± 0.30	6.78 ± 0.16	10.13 ± 0.26	11.65 ± 0.29	8.16 ± 0.23	n = 11	[RO1] Roche Integra and MIRA
10.12 ± 0.41	7.10 ± 0.27	10.04 ± 0.39	11.48 ± 0.41	8.35 ± 0.19	n = 3	[GZ1] Sekisui Diagnostics (Genzyme)
10.25 ± 0.21	7.25 ± 0.23	10.16 ± 0.21	11.77 ± 0.23	8.39 ± 0.15	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
9.90 ± 0.20	6.76 ± 0.15	9.77 ± 0.23	11.44 ± 0.24	8.06 ± 0.19	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Magnesium (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
1.75 ± 0.08	2.26 ± 0.11	3.55 ± 0.15	1.09 ± 0.09	2.94 ± 0.12	n = 328	[---] All Methods & Instruments
						<Instruments>
1.68 ± 0.05	2.20 ± 0.00	3.24 ± 0.06	1.04 ± 0.06	2.69 ± 0.07	n = 20	[ABJ] Abbott Architect c System
1.71 ± 0.06	2.24 ± 0.07	3.46 ± 0.08	1.10 ± 0.00	2.88 ± 0.08	n = 48	[OLC] Beckman Coulter AU Chemistry System
1.78 ± 0.04	2.35 ± 0.06	3.48 ± 0.26	1.20 ± 0.00	2.90 ± 0.18	n = 4	[BCS] Beckman Coulter CX
1.75 ± 0.06	2.40 ± 0.00	3.63 ± 0.08	1.18 ± 0.04	3.02 ± 0.04	n = 4	[BCX] Beckman Coulter LX-20
1.80 ± 0.05	2.36 ± 0.07	3.61 ± 0.12	1.15 ± 0.07	3.02 ± 0.08	n = 19	[BCG] Beckman Coulter UniCel DxC 600
1.77 ± 0.05	2.32 ± 0.05	3.58 ± 0.08	1.12 ± 0.05	2.98 ± 0.06	n = 16	[BCH] Beckman Coulter UniCel DxC 800
1.80 ± 0.09	2.10 ± 0.09	3.52 ± 0.12	1.03 ± 0.05	2.94 ± 0.08	n = 6	[JJE] Ortho Vitros 250/350/950
1.80 ± 0.00	2.12 ± 0.07	3.52 ± 0.04	1.07 ± 0.05	2.95 ± 0.06	n = 21	[JJF] Ortho Vitros 5,1FS
1.79 ± 0.05	2.10 ± 0.00	3.52 ± 0.07	1.05 ± 0.06	2.93 ± 0.08	n = 15	[JJG] Ortho Vitros 5600
1.73 ± 0.06	2.22 ± 0.06	3.42 ± 0.08	1.13 ± 0.05	2.87 ± 0.07	n = 16	[ROC] Roche cobas c501
1.77 ± 0.05	2.27 ± 0.05	3.53 ± 0.05	1.10 ± 0.00	2.90 ± 0.00	n = 3	[ROH] Roche cobas c701
1.72 ± 0.07	2.23 ± 0.05	3.47 ± 0.05	1.15 ± 0.06	2.87 ± 0.05	n = 6	[ROT] Roche Cobas INTEGRA 800
1.76 ± 0.06	2.28 ± 0.08	3.54 ± 0.08	1.11 ± 0.05	2.92 ± 0.09	n = 29	[ROD] Roche MODULAR D/P
1.85 ± 0.08	2.34 ± 0.08	3.68 ± 0.08	1.34 ± 0.08	3.04 ± 0.06	n = 20	[BYE] Siemens ADVIA 1800
1.90 ± 0.09	2.37 ± 0.05	3.77 ± 0.05	1.32 ± 0.15	3.07 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
1.70 ± 0.00	2.23 ± 0.06	3.53 ± 0.10	0.98 ± 0.04	2.89 ± 0.11	n = 11	[DUE] Siemens Dimension EXL
1.68 ± 0.09	2.25 ± 0.09	3.62 ± 0.11	1.02 ± 0.08	2.98 ± 0.12	n = 24	[DUR] Siemens Dimension RxL
1.75 ± 0.07	2.34 ± 0.07	3.71 ± 0.10	1.06 ± 0.06	3.07 ± 0.08	n = 37	[DUT] Siemens Dimension Vista
1.70 ± 0.09	2.29 ± 0.10	3.59 ± 0.12	1.02 ± 0.09	2.98 ± 0.11	n = 18	[DUX] Siemens Dimension Xpand
						<Reagents>
1.68 ± 0.05	2.20 ± 0.00	3.24 ± 0.06	1.04 ± 0.06	2.69 ± 0.07	n = 20	[AB1] Abbott
1.78 ± 0.05	2.35 ± 0.07	3.61 ± 0.10	1.15 ± 0.06	3.00 ± 0.07	n = 41	[BC1] Beckman Coulter
1.71 ± 0.06	2.24 ± 0.07	3.47 ± 0.08	1.10 ± 0.00	2.89 ± 0.08	n = 48	[OL1] Beckman Coulter AU Series
1.80 ± 0.05	2.11 ± 0.07	3.52 ± 0.06	1.06 ± 0.06	2.94 ± 0.07	n = 42	[JJ1] Ortho Clinical Diagnostics
1.74 ± 0.06	2.23 ± 0.06	3.43 ± 0.09	1.12 ± 0.05	2.88 ± 0.06	n = 19	[RO4] Roche cobas c311/c501/c502/c701
1.77 ± 0.06	2.29 ± 0.07	3.54 ± 0.08	1.12 ± 0.05	2.92 ± 0.09	n = 29	[RO2] Roche Hitachi and Modular D/P
1.71 ± 0.06	2.22 ± 0.04	3.45 ± 0.06	1.15 ± 0.06	2.85 ± 0.06	n = 8	[RO1] Roche Integra and MIRA
1.86 ± 0.09	2.34 ± 0.08	3.70 ± 0.10	1.34 ± 0.10	3.05 ± 0.07	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
1.71 ± 0.09	2.29 ± 0.10	3.64 ± 0.13	1.03 ± 0.08	3.00 ± 0.12	n = 89	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Iron (µg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
85.7 ± 4.09	111.9 ± 8.22	104.2 ± 4.27	125.4 ± 4.94	85.5 ± 5.13	n = 266	[---] All Methods & Instruments
						<Instruments>
77.2 ± 10.88	97.2 ± 21.19	99.4 ± 6.35	118.8 ± 6.92	77.7 ± 14.45	n = 16	[ABJ] Abbott Architect c System
86.5 ± 2.83	113.8 ± 3.12	105.1 ± 3.57	127.9 ± 4.35	85.6 ± 2.20	n = 45	[OLC] Beckman Coulter AU Chemistry System
82.8 ± 7.18	100.5 ± 8.23	96.1 ± 9.52	115.3 ± 14.38	75.8 ± 10.08	n = 4	[BCS] Beckman Coulter CX
85.0 ± 2.88	101.5 ± 2.83	103.8 ± 2.58	122.3 ± 2.26	81.2 ± 2.80	n = 4	[BCX] Beckman Coulter LX-20
84.8 ± 2.27	101.8 ± 3.21	105.2 ± 1.85	123.8 ± 2.10	81.4 ± 1.61	n = 11	[BCG] Beckman Coulter UniCel DxC 600
85.2 ± 1.52	102.4 ± 2.30	104.7 ± 2.06	124.2 ± 2.03	82.0 ± 1.65	n = 13	[BCH] Beckman Coulter UniCel DxC 800
92.7 ± 6.84	142.0 ± 4.01	106.3 ± 5.23	140.9 ± 7.04	96.7 ± 3.15	n = 4	[JJE] Ortho Vitros 250/350/950
89.6 ± 6.34	137.0 ± 6.80	110.2 ± 5.97	143.3 ± 7.11	96.4 ± 7.47	n = 18	[JJF] Ortho Vitros 5,1FS
90.9 ± 6.53	139.5 ± 6.61	110.0 ± 6.94	144.3 ± 9.06	97.5 ± 5.73	n = 16	[JJG] Ortho Vitros 5600
88.4 ± 3.70	114.4 ± 4.01	107.2 ± 4.86	127.7 ± 4.64	88.8 ± 3.24	n = 10	[ROC] Roche cobas c501
87.7 ± 3.37	113.7 ± 3.16	105.6 ± 1.02	125.2 ± 2.36	87.7 ± 2.26	n = 3	[ROS] Roche Cobas INTEGRA 400
90.0 ± 1.76	115.0 ± 1.65	105.8 ± 4.33	126.6 ± 3.05	87.5 ± 2.67	n = 4	[ROT] Roche Cobas INTEGRA 800
85.8 ± 2.34	112.8 ± 1.98	103.8 ± 2.15	124.7 ± 2.26	86.2 ± 1.65	n = 29	[ROD] Roche MODULAR D/P
88.0 ± 1.57	115.8 ± 2.33	106.0 ± 1.93	126.2 ± 2.14	88.4 ± 1.92	n = 19	[BYE] Siemens ADVIA 1800
86.5 ± 3.63	115.0 ± 5.48	105.8 ± 3.23	126.3 ± 4.22	88.7 ± 2.26	n = 3	[BYB] Siemens ADVIA 2400
82.0 ± 0.00	108.2 ± 0.85	101.0 ± 0.00	123.2 ± 2.22	81.0 ± 0.00	n = 7	[DUE] Siemens Dimension EXL
81.9 ± 1.20	107.8 ± 1.25	100.7 ± 1.60	122.3 ± 1.41	81.1 ± 1.12	n = 15	[DUR] Siemens Dimension RxL
82.7 ± 2.27	108.8 ± 2.13	101.5 ± 1.86	124.2 ± 2.29	82.4 ± 1.95	n = 32	[DUT] Siemens Dimension Vista
81.7 ± 0.90	107.7 ± 0.90	101.0 ± 0.75	122.3 ± 1.51	81.3 ± 0.90	n = 4	[DUX] Siemens Dimension Xpand
						<Reagents>
83.2 ± 1.79	110.3 ± 2.29	103.1 ± 1.23	122.4 ± 2.44	86.3 ± 0.97	n = 7	[AB3] Abbott-Iron/6K95
67.0 ± 1.13	75.9 ± 2.27	93.4 ± 1.34	112.6 ± 1.85	63.3 ± 1.50	n = 9	[AB2] Abbott-Iron/7D68
85.1 ± 2.12	101.9 ± 3.10	104.8 ± 2.19	123.8 ± 2.35	81.7 ± 2.13	n = 30	[BC1] Beckman Coulter
87.1 ± 2.86	114.5 ± 3.04	105.9 ± 3.15	129.0 ± 3.52	86.0 ± 2.18	n = 36	[OL1] Beckman Coulter AU Series
90.4 ± 6.52	138.7 ± 6.66	109.6 ± 6.49	143.4 ± 7.99	96.9 ± 6.31	n = 38	[JJ1] Ortho Clinical Diagnostics
87.3 ± 3.69	113.8 ± 3.57	105.9 ± 4.65	126.5 ± 4.43	88.1 ± 3.03	n = 13	[RO4] Roche cobas c311/c501/c502/c701
85.8 ± 2.34	112.8 ± 1.98	103.8 ± 2.15	124.7 ± 2.26	86.2 ± 1.65	n = 29	[RO2] Roche Hitachi and Modular D/P
89.5 ± 2.13	114.5 ± 2.40	105.7 ± 3.19	125.9 ± 2.78	87.6 ± 2.50	n = 7	[RO1] Roche Integra and MIRA
84.4 ± 1.47	111.4 ± 1.96	101.7 ± 2.57	123.1 ± 3.03	84.3 ± 1.52	n = 8	[GZ1] Sekisui Diagnostics (Genzyme)
87.8 ± 2.20	115.4 ± 2.70	106.0 ± 2.11	125.9 ± 2.55	88.5 ± 1.92	n = 22	[BY1] Siemens ADVIA/ADVIA Centaur
82.3 ± 1.76	108.4 ± 1.79	101.2 ± 1.68	123.4 ± 2.23	81.8 ± 1.66	n = 58	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Sodium (mmol/L)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
121.7 ± 1.90	147.7 ± 2.41	152.4 ± 2.49	157.8 ± 3.64	126.9 ± 1.84	n = 370	[---] All Methods & Instruments
						<Instruments>
120.0 ± 0.00	145.6 ± 1.02	153.2 ± 1.54	159.3 ± 1.37	128.3 ± 1.37	n = 3	[AXA] Abaxis Piccolo
120.3 ± 0.90	147.8 ± 0.89	152.8 ± 0.78	159.7 ± 1.14	125.9 ± 0.67	n = 21	[ABJ] Abbott Architect c System
120.9 ± 1.19	146.4 ± 1.24	151.1 ± 1.27	156.7 ± 1.17	126.0 ± 1.30	n = 51	[OLC] Beckman Coulter AU Chemistry System
120.9 ± 2.86	145.5 ± 0.57	151.1 ± 1.83	157.0 ± 0.93	125.4 ± 1.98	n = 5	[BCS] Beckman Coulter CX
121.3 ± 0.90	147.5 ± 1.23	151.8 ± 0.41	157.8 ± 1.27	127.0 ± 0.75	n = 4	[BCX] Beckman Coulter LX-20
121.4 ± 1.39	146.9 ± 1.18	151.9 ± 1.38	158.0 ± 1.22	127.1 ± 1.74	n = 19	[BCG] Beckman Coulter UniCel DxC 600
121.0 ± 1.18	146.2 ± 1.00	150.7 ± 1.16	156.7 ± 1.14	126.7 ± 1.36	n = 16	[BCH] Beckman Coulter UniCel DxC 800
119.5 ± 0.74	144.0 ± 0.47	148.4 ± 0.56	151.5 ± 0.74	123.6 ± 0.56	n = 7	[IAA] i-STAT
122.1 ± 1.70	152.8 ± 1.81	158.1 ± 2.01	165.1 ± 2.63	129.7 ± 2.19	n = 12	[JJE] Ortho Vitros 250/350/950
121.9 ± 1.31	151.9 ± 1.17	156.9 ± 1.38	164.8 ± 1.76	128.4 ± 1.38	n = 21	[JJF] Ortho Vitros 5,1FS
122.2 ± 1.09	152.2 ± 1.43	157.4 ± 1.44	164.8 ± 1.31	128.8 ± 1.17	n = 16	[JJG] Ortho Vitros 5600
120.1 ± 0.98	146.9 ± 1.80	152.3 ± 1.50	157.8 ± 1.85	125.8 ± 1.19	n = 17	[ROC] Roche cobas c501
122.7 ± 1.37	148.7 ± 1.37	153.3 ± 3.16	159.2 ± 2.36	126.8 ± 1.54	n = 3	[ROH] Roche cobas c701
120.5 ± 0.83	147.0 ± 0.64	151.0 ± 0.64	156.1 ± 1.27	125.0 ± 1.00	n = 5	[ROS] Roche Cobas INTEGRA 400
120.6 ± 1.33	146.6 ± 1.52	150.7 ± 1.38	156.3 ± 1.61	125.0 ± 0.93	n = 5	[ROT] Roche Cobas INTEGRA 800
121.9 ± 1.83	148.6 ± 1.45	153.0 ± 1.55	159.6 ± 1.03	126.1 ± 1.20	n = 31	[ROD] Roche MODULAR D/P
123.6 ± 1.08	149.3 ± 1.46	153.9 ± 1.21	159.9 ± 1.71	128.3 ± 1.23	n = 20	[BYE] Siemens ADVIA 1800
122.7 ± 0.51	148.6 ± 1.02	153.0 ± 0.90	159.0 ± 0.90	128.0 ± 0.90	n = 3	[BYB] Siemens ADVIA 2400
122.1 ± 1.28	147.4 ± 1.52	151.8 ± 1.44	155.9 ± 1.38	126.8 ± 0.78	n = 15	[DUE] Siemens Dimension EXL
121.5 ± 1.49	146.0 ± 2.01	150.4 ± 1.94	154.7 ± 2.09	126.3 ± 1.80	n = 24	[DUR] Siemens Dimension RxL
124.7 ± 1.69	146.7 ± 1.44	151.8 ± 1.76	153.5 ± 1.61	128.2 ± 1.70	n = 37	[DUT] Siemens Dimension Vista
122.7 ± 1.36	147.6 ± 1.19	152.0 ± 1.15	157.3 ± 1.73	127.2 ± 0.94	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
120.0 ± 0.00	145.6 ± 1.02	153.2 ± 1.54	159.3 ± 1.37	128.3 ± 1.37	n = 3	[AX1] Abaxis
120.3 ± 0.87	147.7 ± 0.96	152.8 ± 0.79	159.7 ± 1.14	125.9 ± 0.71	n = 22	[AB1] Abbott
121.2 ± 1.30	146.5 ± 1.24	151.4 ± 1.33	157.4 ± 1.32	126.8 ± 1.53	n = 43	[BC1] Beckman Coulter
120.9 ± 1.14	146.4 ± 1.26	151.0 ± 1.30	156.7 ± 1.19	125.9 ± 1.23	n = 50	[OL1] Beckman Coulter AU Series
119.4 ± 0.79	144.0 ± 0.55	148.5 ± 0.57	151.7 ± 0.51	123.7 ± 0.51	n = 6	[IA1] i-STAT
119.1 ± 2.05	148.0 ± 1.80	154.0 ± 1.80	159.7 ± 0.51	126.7 ± 1.37	n = 3	[IL1] Instrumentation Lab
122.1 ± 1.42	152.1 ± 1.41	157.3 ± 1.62	164.8 ± 1.85	128.8 ± 1.64	n = 50	[JJ1] Ortho Clinical Diagnostics
120.5 ± 1.43	147.2 ± 1.82	152.3 ± 1.67	158.0 ± 1.96	125.9 ± 1.20	n = 21	[RO4] Roche cobas c311/c501/c502/c701
121.9 ± 1.83	148.6 ± 1.45	153.0 ± 1.55	159.6 ± 1.03	126.1 ± 1.20	n = 31	[RO2] Roche Hitachi and Modular D/P
120.6 ± 1.11	146.9 ± 1.13	150.9 ± 1.02	156.2 ± 1.45	125.0 ± 0.97	n = 10	[RO1] Roche Integra and MIRA
123.4 ± 1.19	149.2 ± 1.41	153.9 ± 1.22	159.9 ± 1.69	128.2 ± 1.26	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
123.0 ± 2.06	146.9 ± 1.68	151.5 ± 1.79	154.9 ± 2.30	127.3 ± 1.71	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Potassium (mmol/L)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
2.45 ± 0.08	4.13 ± 0.10	5.36 ± 0.11	6.44 ± 0.15	4.42 ± 0.09	n = 370	[---] All Methods & Instruments
						<Instruments>
2.40 ± 0.18	4.37 ± 0.14	5.68 ± 0.24	6.55 ± 0.19	4.47 ± 0.05	n = 3	[AXA] Abaxis Piccolo
2.43 ± 0.08	4.11 ± 0.07	5.33 ± 0.08	6.44 ± 0.10	4.39 ± 0.08	n = 21	[ABJ] Abbott Architect c System
2.49 ± 0.05	4.10 ± 0.00	5.31 ± 0.05	6.40 ± 0.07	4.40 ± 0.00	n = 51	[OLC] Beckman Coulter AU Chemistry System
2.40 ± 0.09	4.08 ± 0.11	5.36 ± 0.11	6.45 ± 0.08	4.38 ± 0.08	n = 5	[BCS] Beckman Coulter CX
2.40 ± 0.00	4.20 ± 0.08	5.40 ± 0.08	6.57 ± 0.09	4.45 ± 0.06	n = 4	[BCX] Beckman Coulter LX-20
2.37 ± 0.07	4.11 ± 0.05	5.40 ± 0.00	6.51 ± 0.07	4.43 ± 0.05	n = 19	[BCG] Beckman Coulter UniCel DxC 600
2.34 ± 0.06	4.08 ± 0.07	5.33 ± 0.07	6.46 ± 0.07	4.37 ± 0.08	n = 16	[BCH] Beckman Coulter UniCel DxC 800
2.40 ± 0.00	4.04 ± 0.06	5.20 ± 0.00	6.20 ± 0.00	4.36 ± 0.06	n = 7	[IAA] i-STAT
2.53 ± 0.05	4.33 ± 0.06	5.57 ± 0.08	6.71 ± 0.13	4.63 ± 0.07	n = 12	[JJE] Ortho Vitros 250/350/950
2.51 ± 0.04	4.31 ± 0.05	5.56 ± 0.07	6.70 ± 0.09	4.59 ± 0.05	n = 21	[JJF] Ortho Vitros 5,1FS
2.50 ± 0.00	4.28 ± 0.05	5.51 ± 0.06	6.65 ± 0.10	4.56 ± 0.09	n = 16	[JJG] Ortho Vitros 5600
2.35 ± 0.11	4.03 ± 0.06	5.32 ± 0.09	6.38 ± 0.10	4.36 ± 0.10	n = 16	[ROC] Roche cobas c501
2.43 ± 0.05	4.14 ± 0.10	5.33 ± 0.05	6.44 ± 0.10	4.40 ± 0.09	n = 3	[ROH] Roche cobas c701
2.46 ± 0.06	4.20 ± 0.00	5.40 ± 0.00	6.46 ± 0.06	4.50 ± 0.00	n = 5	[ROS] Roche Cobas INTEGRA 400
2.46 ± 0.06	4.16 ± 0.06	5.36 ± 0.06	6.42 ± 0.08	4.44 ± 0.06	n = 5	[ROT] Roche Cobas INTEGRA 800
2.46 ± 0.09	4.10 ± 0.07	5.31 ± 0.09	6.45 ± 0.09	4.37 ± 0.09	n = 31	[ROD] Roche MODULAR D/P
2.53 ± 0.06	4.23 ± 0.06	5.43 ± 0.08	6.54 ± 0.12	4.48 ± 0.06	n = 20	[BYE] Siemens ADVIA 1800
2.50 ± 0.00	4.17 ± 0.05	5.40 ± 0.00	6.47 ± 0.05	4.40 ± 0.09	n = 3	[BYB] Siemens ADVIA 2400
2.40 ± 0.00	4.10 ± 0.00	5.34 ± 0.06	6.41 ± 0.06	4.40 ± 0.00	n = 14	[DUE] Siemens Dimension EXL
2.40 ± 0.00	4.07 ± 0.06	5.31 ± 0.07	6.36 ± 0.08	4.39 ± 0.05	n = 25	[DUR] Siemens Dimension RxL
2.47 ± 0.05	4.10 ± 0.00	5.30 ± 0.00	6.24 ± 0.07	4.38 ± 0.05	n = 37	[DUT] Siemens Dimension Vista
2.40 ± 0.00	4.10 ± 0.00	5.35 ± 0.07	6.43 ± 0.08	4.40 ± 0.00	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
2.40 ± 0.18	4.37 ± 0.14	5.68 ± 0.24	6.55 ± 0.19	4.47 ± 0.05	n = 3	[AX1] Abaxis
2.43 ± 0.07	4.11 ± 0.07	5.32 ± 0.09	6.43 ± 0.10	4.39 ± 0.09	n = 22	[AB1] Abbott
2.36 ± 0.07	4.10 ± 0.07	5.37 ± 0.07	6.49 ± 0.08	4.40 ± 0.07	n = 43	[BC1] Beckman Coulter
2.49 ± 0.05	4.10 ± 0.00	5.31 ± 0.06	6.40 ± 0.07	4.40 ± 0.00	n = 50	[OL1] Beckman Coulter AU Series
2.40 ± 0.00	4.03 ± 0.05	5.20 ± 0.00	6.20 ± 0.00	4.37 ± 0.05	n = 6	[IA1] i-STAT
2.30 ± 0.00	4.07 ± 0.05	5.27 ± 0.05	6.40 ± 0.09	4.37 ± 0.05	n = 3	[IL1] Instrumentation Lab
2.51 ± 0.04	4.31 ± 0.05	5.55 ± 0.07	6.69 ± 0.11	4.59 ± 0.07	n = 50	[JJ1] Ortho Clinical Diagnostics
2.37 ± 0.11	4.06 ± 0.09	5.33 ± 0.09	6.40 ± 0.12	4.37 ± 0.10	n = 20	[RO4] Roche cobas c311/c501/c502/c701
2.46 ± 0.09	4.10 ± 0.07	5.31 ± 0.09	6.45 ± 0.09	4.37 ± 0.09	n = 31	[RO2] Roche Hitachi and Modular D/P
2.45 ± 0.07	4.17 ± 0.05	5.38 ± 0.04	6.45 ± 0.07	4.46 ± 0.06	n = 11	[RO1] Roche Integra and MIRA
2.52 ± 0.05	4.23 ± 0.07	5.43 ± 0.07	6.54 ± 0.12	4.48 ± 0.06	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
2.42 ± 0.05	4.10 ± 0.00	5.32 ± 0.06	6.33 ± 0.11	4.39 ± 0.04	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Chloride (mmol/L)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
87.2 ± 2.02	105.4 ± 2.70	112.4 ± 2.13	105.4 ± 2.64	92.5 ± 2.17	n = 365	[---] All Methods & Instruments
						<Instruments>
88.6 ± 1.02	105.8 ± 1.54	111.6 ± 1.02	104.3 ± 0.51	92.0 ± 0.90	n = 3	[AXA] Abaxis Piccolo
88.7 ± 0.74	106.2 ± 0.84	112.8 ± 0.84	105.1 ± 0.86	93.6 ± 0.82	n = 20	[ABJ] Abbott Architect c System
86.3 ± 1.02	103.3 ± 1.30	110.6 ± 1.11	102.8 ± 0.81	92.0 ± 0.96	n = 50	[OLC] Beckman Coulter AU Chemistry System
89.9 ± 3.37	107.5 ± 3.43	113.3 ± 2.06	107.0 ± 5.19	94.6 ± 2.30	n = 5	[BCS] Beckman Coulter CX
88.7 ± 0.90	106.8 ± 1.27	113.3 ± 0.82	106.0 ± 0.75	93.5 ± 1.22	n = 4	[BCX] Beckman Coulter LX-20
88.8 ± 0.99	107.2 ± 0.82	113.8 ± 1.19	106.3 ± 1.09	94.6 ± 1.03	n = 19	[BCG] Beckman Coulter UniCel DxC 600
88.8 ± 0.86	107.2 ± 1.02	113.3 ± 1.44	105.8 ± 1.23	94.3 ± 1.34	n = 16	[BCH] Beckman Coulter UniCel DxC 800
90.4 ± 0.56	113.3 ± 0.97	118.8 ± 0.73	112.9 ± 1.23	97.1 ± 0.59	n = 6	[IAA] i-STAT
88.7 ± 1.32	108.5 ± 1.33	114.6 ± 1.34	107.6 ± 1.42	94.8 ± 1.67	n = 12	[JJE] Ortho Vitros 250/350/950
88.7 ± 1.09	108.2 ± 1.43	114.1 ± 1.64	106.8 ± 1.30	93.9 ± 1.12	n = 21	[JJF] Ortho Vitros 5,1FS
88.5 ± 0.70	108.1 ± 1.15	113.9 ± 1.07	106.8 ± 1.41	94.0 ± 0.97	n = 16	[JJG] Ortho Vitros 5600
81.5 ± 1.50	100.0 ± 1.66	108.9 ± 1.30	101.2 ± 1.25	87.7 ± 1.25	n = 17	[ROC] Roche cobas c501
84.5 ± 1.86	101.2 ± 2.36	110.7 ± 0.51	102.5 ± 1.86	89.7 ± 1.37	n = 3	[ROH] Roche cobas c701
87.2 ± 1.07	106.2 ± 0.41	112.5 ± 1.07	105.2 ± 0.80	93.0 ± 0.00	n = 5	[ROS] Roche Cobas INTEGRA 400
87.4 ± 1.09	105.6 ± 1.09	112.8 ± 0.80	105.1 ± 1.27	93.0 ± 0.64	n = 5	[ROT] Roche Cobas INTEGRA 800
84.8 ± 1.38	102.7 ± 1.30	110.9 ± 1.04	103.2 ± 1.02	90.1 ± 0.94	n = 31	[ROD] Roche MODULAR D/P
87.2 ± 0.90	104.9 ± 1.00	111.7 ± 1.46	103.5 ± 1.66	91.4 ± 1.86	n = 20	[BYE] Siemens ADVIA 1800
87.3 ± 0.51	105.0 ± 0.90	112.3 ± 0.51	104.7 ± 0.51	92.0 ± 0.90	n = 3	[BYB] Siemens ADVIA 2400
86.7 ± 0.70	104.7 ± 0.98	112.2 ± 0.69	107.3 ± 0.60	91.8 ± 0.79	n = 14	[DUE] Siemens Dimension EXL
85.2 ± 1.09	104.3 ± 1.78	112.4 ± 1.59	107.5 ± 1.71	90.7 ± 1.18	n = 25	[DUR] Siemens Dimension RxL
87.5 ± 1.29	107.0 ± 1.39	114.2 ± 1.36	107.0 ± 1.25	93.3 ± 1.28	n = 37	[DUT] Siemens Dimension Vista
87.1 ± 1.12	104.9 ± 1.23	111.9 ± 1.25	107.9 ± 1.30	92.1 ± 1.04	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
88.6 ± 1.02	105.8 ± 1.54	111.6 ± 1.02	104.3 ± 0.51	92.0 ± 0.90	n = 3	[AX1] Abaxis
88.7 ± 0.74	106.2 ± 0.81	112.8 ± 0.81	105.1 ± 0.82	93.6 ± 0.81	n = 21	[AB1] Abbott
88.7 ± 0.96	107.1 ± 1.12	113.5 ± 1.41	106.0 ± 1.35	94.2 ± 1.37	n = 43	[BC1] Beckman Coulter
86.3 ± 0.99	103.3 ± 1.31	110.6 ± 1.09	102.8 ± 0.79	91.9 ± 0.95	n = 49	[OL1] Beckman Coulter AU Series
90.4 ± 0.56	113.3 ± 0.97	118.8 ± 0.73	112.9 ± 1.23	97.1 ± 0.59	n = 6	[IA1] i-STAT
88.6 ± 1.11	108.2 ± 1.40	114.2 ± 1.55	107.0 ± 1.46	94.1 ± 1.31	n = 50	[JJ1] Ortho Clinical Diagnostics
81.5 ± 1.63	99.9 ± 1.77	109.0 ± 1.51	101.2 ± 1.45	87.7 ± 1.47	n = 20	[RO4] Roche cobas c311/c501/c502/c701
84.8 ± 1.38	102.7 ± 1.30	110.9 ± 1.04	103.2 ± 1.02	90.1 ± 0.94	n = 31	[RO2] Roche Hitachi and Modular D/P
87.1 ± 1.26	105.5 ± 1.42	112.5 ± 1.03	105.0 ± 1.19	93.0 ± 0.00	n = 11	[RO1] Roche Integra and MIRA
87.1 ± 0.93	105.0 ± 0.99	111.8 ± 1.34	103.7 ± 1.56	91.4 ± 1.76	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
86.7 ± 1.48	105.5 ± 1.86	112.9 ± 1.67	107.3 ± 1.35	92.2 ± 1.59	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Albumin (g/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
3.35 ± 0.16	4.51 ± 0.15	4.13 ± 0.21	5.02 ± 0.25	3.41 ± 0.22	n = 354	[---] All Methods & Instruments
						<Instruments>
3.47 ± 0.05	4.34 ± 0.10	4.50 ± 0.09	5.30 ± 0.09	3.77 ± 0.05	n = 3	[AXA] Abaxis Piccolo
3.27 ± 0.11	4.38 ± 0.13	3.93 ± 0.13	4.70 ± 0.14	3.27 ± 0.12	n = 21	[ABJ] Abbott Architect c System
3.41 ± 0.09	4.54 ± 0.08	4.17 ± 0.08	4.94 ± 0.10	3.51 ± 0.09	n = 51	[OLC] Beckman Coulter AU Chemistry System
3.29 ± 0.13	4.41 ± 0.13	3.86 ± 0.19	4.63 ± 0.18	3.18 ± 0.04	n = 5	[BCS] Beckman Coulter CX
3.17 ± 0.09	4.27 ± 0.09	3.75 ± 0.06	4.50 ± 0.11	3.07 ± 0.09	n = 4	[BCX] Beckman Coulter LX-20
3.20 ± 0.00	4.32 ± 0.08	3.74 ± 0.07	4.50 ± 0.10	3.10 ± 0.00	n = 18	[BCG] Beckman Coulter UniCel DxC 600
3.25 ± 0.07	4.40 ± 0.00	3.81 ± 0.08	4.60 ± 0.08	3.15 ± 0.07	n = 16	[BCH] Beckman Coulter UniCel DxC 800
3.07 ± 0.06	4.50 ± 0.07	4.07 ± 0.09	5.38 ± 0.12	3.22 ± 0.06	n = 11	[JJE] Ortho Vitros 250/350/950
3.01 ± 0.13	4.38 ± 0.16	4.01 ± 0.18	5.28 ± 0.19	3.11 ± 0.14	n = 20	[JJF] Ortho Vitros 5,1FS
2.99 ± 0.07	4.38 ± 0.13	3.95 ± 0.15	5.22 ± 0.21	3.09 ± 0.10	n = 16	[JJG] Ortho Vitros 5600
3.49 ± 0.10	4.63 ± 0.11	4.39 ± 0.14	5.17 ± 0.15	3.67 ± 0.11	n = 16	[ROC] Roche cobas c501
3.50 ± 0.09	4.67 ± 0.05	4.33 ± 0.14	5.23 ± 0.14	3.67 ± 0.05	n = 3	[ROH] Roche cobas c701
3.46 ± 0.06	4.60 ± 0.17	4.26 ± 0.06	5.08 ± 0.08	3.60 ± 0.06	n = 5	[ROS] Roche Cobas INTEGRA 400
3.40 ± 0.00	4.50 ± 0.10	4.20 ± 0.00	5.00 ± 0.00	3.60 ± 0.00	n = 5	[ROT] Roche Cobas INTEGRA 800
3.48 ± 0.10	4.63 ± 0.13	4.33 ± 0.11	5.11 ± 0.13	3.63 ± 0.12	n = 32	[ROD] Roche MODULAR D/P
3.42 ± 0.07	4.50 ± 0.06	4.30 ± 0.06	5.11 ± 0.08	3.60 ± 0.00	n = 20	[BYE] Siemens ADVIA 1800
3.44 ± 0.10	4.53 ± 0.05	4.30 ± 0.09	5.20 ± 0.00	3.60 ± 0.09	n = 3	[BYB] Siemens ADVIA 2400
3.36 ± 0.06	4.57 ± 0.06	4.12 ± 0.06	5.04 ± 0.06	3.41 ± 0.06	n = 14	[DUE] Siemens Dimension EXL
3.34 ± 0.07	4.54 ± 0.11	4.12 ± 0.11	5.04 ± 0.11	3.39 ± 0.08	n = 25	[DUR] Siemens Dimension RxL
3.40 ± 0.09	4.60 ± 0.11	4.16 ± 0.10	5.07 ± 0.09	3.45 ± 0.09	n = 37	[DUT] Siemens Dimension Vista
3.37 ± 0.10	4.57 ± 0.10	4.16 ± 0.10	5.08 ± 0.14	3.41 ± 0.06	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
3.47 ± 0.05	4.34 ± 0.10	4.50 ± 0.09	5.30 ± 0.09	3.77 ± 0.05	n = 3	[AX1] Abaxis
3.27 ± 0.11	4.38 ± 0.13	3.93 ± 0.13	4.70 ± 0.14	3.27 ± 0.12	n = 21	[AB1] Abbott
3.21 ± 0.08	4.34 ± 0.08	3.77 ± 0.09	4.54 ± 0.11	3.12 ± 0.07	n = 41	[BC1] Beckman Coulter
3.41 ± 0.08	4.54 ± 0.08	4.17 ± 0.08	4.94 ± 0.09	3.51 ± 0.08	n = 50	[OL1] Beckman Coulter AU Series
3.37 ± 0.14	4.48 ± 0.24	4.10 ± 0.18	4.77 ± 0.23	3.50 ± 0.18	n = 3	[JA1] JAS Diagnostics
3.02 ± 0.10	4.42 ± 0.15	4.01 ± 0.16	5.28 ± 0.19	3.13 ± 0.12	n = 48	[JJ1] Ortho Clinical Diagnostics
3.49 ± 0.10	4.63 ± 0.10	4.37 ± 0.14	5.17 ± 0.14	3.66 ± 0.11	n = 20	[RO4] Roche cobas c311/c501/c502/c701
3.48 ± 0.11	4.63 ± 0.14	4.34 ± 0.09	5.12 ± 0.13	3.64 ± 0.11	n = 31	[RO2] Roche Hitachi and Modular D/P
3.42 ± 0.06	4.53 ± 0.12	4.22 ± 0.06	5.02 ± 0.08	3.60 ± 0.00	n = 10	[RO1] Roche Integra and MIRA
3.42 ± 0.07	4.51 ± 0.06	4.30 ± 0.07	5.13 ± 0.09	3.60 ± 0.07	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
3.37 ± 0.09	4.57 ± 0.10	4.15 ± 0.10	5.06 ± 0.10	3.42 ± 0.08	n = 96	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Total Protein (g/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
5.47 ± 0.16	7.15 ± 0.21	7.18 ± 0.19	8.70 ± 0.24	5.97 ± 0.17	n = 355	[---] All Methods & Instruments
						<Instruments>
5.50 ± 0.09	7.14 ± 0.10	7.33 ± 0.14	8.90 ± 0.09	6.03 ± 0.14	n = 3	[AXA] Abaxis Piccolo
5.35 ± 0.07	7.15 ± 0.08	7.17 ± 0.08	8.77 ± 0.10	5.90 ± 0.09	n = 21	[ABJ] Abbott Architect c System
5.37 ± 0.10	7.02 ± 0.14	7.02 ± 0.11	8.49 ± 0.14	5.84 ± 0.11	n = 50	[OLC] Beckman Coulter AU Chemistry System
5.43 ± 0.29	7.20 ± 0.18	7.29 ± 0.21	8.59 ± 0.23	6.08 ± 0.23	n = 5	[BCS] Beckman Coulter CX
5.27 ± 0.14	6.82 ± 0.16	6.94 ± 0.14	8.42 ± 0.08	5.74 ± 0.14	n = 5	[BCX] Beckman Coulter LX-20
5.45 ± 0.08	7.11 ± 0.09	7.12 ± 0.09	8.62 ± 0.17	5.89 ± 0.17	n = 17	[BCG] Beckman Coulter UniCel DxC 600
5.27 ± 0.08	6.88 ± 0.12	7.01 ± 0.11	8.48 ± 0.16	5.81 ± 0.08	n = 16	[BCH] Beckman Coulter UniCel DxC 800
5.50 ± 0.00	7.20 ± 0.10	7.21 ± 0.09	8.81 ± 0.14	6.03 ± 0.09	n = 12	[JJE] Ortho Vitros 250/350/950
5.43 ± 0.11	7.05 ± 0.20	7.13 ± 0.15	8.64 ± 0.19	5.91 ± 0.14	n = 21	[JJF] Ortho Vitros 5,1FS
5.45 ± 0.15	7.08 ± 0.16	7.11 ± 0.12	8.71 ± 0.15	5.90 ± 0.15	n = 16	[JJG] Ortho Vitros 5600
5.43 ± 0.12	7.02 ± 0.11	7.07 ± 0.13	8.56 ± 0.12	5.91 ± 0.10	n = 16	[ROC] Roche cobas c501
5.43 ± 0.05	7.00 ± 0.00	7.00 ± 0.00	8.50 ± 0.09	5.90 ± 0.00	n = 3	[ROH] Roche cobas c701
5.33 ± 0.11	7.01 ± 0.13	7.04 ± 0.11	8.52 ± 0.18	5.89 ± 0.13	n = 5	[ROS] Roche Cobas INTEGRA 400
5.34 ± 0.11	7.00 ± 0.09	7.00 ± 0.09	8.50 ± 0.06	5.80 ± 0.10	n = 5	[ROT] Roche Cobas INTEGRA 800
5.46 ± 0.09	7.09 ± 0.12	7.09 ± 0.11	8.58 ± 0.15	5.92 ± 0.11	n = 32	[ROD] Roche MODULAR D/P
5.58 ± 0.08	7.24 ± 0.08	7.28 ± 0.12	8.78 ± 0.11	6.07 ± 0.09	n = 20	[BYE] Siemens ADVIA 1800
5.62 ± 0.15	7.27 ± 0.05	7.30 ± 0.09	8.80 ± 0.09	6.06 ± 0.10	n = 3	[BYB] Siemens ADVIA 2400
5.62 ± 0.12	7.36 ± 0.13	7.39 ± 0.11	8.97 ± 0.13	6.13 ± 0.10	n = 14	[DUE] Siemens Dimension EXL
5.62 ± 0.12	7.38 ± 0.13	7.37 ± 0.10	8.95 ± 0.12	6.14 ± 0.10	n = 25	[DUR] Siemens Dimension RxL
5.63 ± 0.09	7.36 ± 0.10	7.37 ± 0.10	8.91 ± 0.10	6.11 ± 0.07	n = 37	[DUT] Siemens Dimension Vista
5.62 ± 0.08	7.40 ± 0.12	7.42 ± 0.11	8.96 ± 0.13	6.17 ± 0.09	n = 20	[DUX] Siemens Dimension Xpand
						<Reagents>
5.50 ± 0.09	7.14 ± 0.10	7.33 ± 0.14	8.90 ± 0.09	6.03 ± 0.14	n = 3	[AX1] Abaxis
5.35 ± 0.07	7.15 ± 0.08	7.17 ± 0.08	8.77 ± 0.10	5.90 ± 0.09	n = 21	[AB1] Abbott
5.35 ± 0.14	6.98 ± 0.18	7.05 ± 0.14	8.52 ± 0.18	5.84 ± 0.14	n = 42	[BC1] Beckman Coulter
5.37 ± 0.10	7.02 ± 0.14	7.02 ± 0.11	8.49 ± 0.14	5.84 ± 0.11	n = 49	[OL1] Beckman Coulter AU Series
5.50 ± 0.18	7.28 ± 0.32	7.20 ± 0.27	8.73 ± 0.34	6.07 ± 0.23	n = 3	[JA1] JAS Diagnostics
5.46 ± 0.13	7.10 ± 0.18	7.15 ± 0.14	8.71 ± 0.18	5.94 ± 0.15	n = 49	[JJ1] Ortho Clinical Diagnostics
5.43 ± 0.11	7.02 ± 0.10	7.05 ± 0.10	8.55 ± 0.12	5.90 ± 0.06	n = 19	[RO4] Roche cobas c311/c501/c502/c701
5.46 ± 0.09	7.09 ± 0.12	7.09 ± 0.11	8.58 ± 0.15	5.92 ± 0.11	n = 32	[RO2] Roche Hitachi and Modular D/P
5.33 ± 0.11	7.00 ± 0.11	7.02 ± 0.10	8.51 ± 0.13	5.84 ± 0.12	n = 10	[RO1] Roche Integra and MIRA
5.58 ± 0.10	7.25 ± 0.08	7.28 ± 0.11	8.79 ± 0.10	6.07 ± 0.09	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
5.62 ± 0.10	7.38 ± 0.12	7.39 ± 0.11	8.94 ± 0.12	6.13 ± 0.09	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Cholesterol (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
118.8 ± 4.51	268.7 ± 8.56	167.3 ± 7.75	185.1 ± 9.17	138.1 ± 6.79	n = 327	[---] All Methods & Instruments
						<Instruments>
122.5 ± 4.61	270.0 ± 4.51	175.0 ± 2.70	190.3 ± 3.16	143.7 ± 2.26	n = 3	[AXA] Abaxis Piccolo
121.3 ± 0.90	272.6 ± 1.59	170.8 ± 1.15	191.6 ± 1.42	141.1 ± 1.65	n = 17	[ABJ] Abbott Architect c System
116.1 ± 2.68	264.8 ± 5.83	163.8 ± 4.15	182.4 ± 3.83	135.2 ± 3.06	n = 56	[OLC] Beckman Coulter AU Chemistry System
117.4 ± 7.48	269.8 ± 14.28	162.6 ± 11.27	176.3 ± 12.49	131.5 ± 11.06	n = 6	[BCS] Beckman Coulter CX
119.5 ± 2.83	267.9 ± 5.29	165.3 ± 4.78	179.8 ± 6.55	134.6 ± 4.19	n = 4	[BCX] Beckman Coulter LX-20
117.4 ± 3.19	266.7 ± 4.01	164.8 ± 2.97	179.2 ± 4.08	133.9 ± 3.38	n = 16	[BCG] Beckman Coulter UniCel DxC 600
117.3 ± 2.30	265.4 ± 3.67	163.9 ± 2.45	179.0 ± 3.38	135.2 ± 2.44	n = 15	[BCH] Beckman Coulter UniCel DxC 800
125.6 ± 1.33	284.7 ± 4.29	184.2 ± 4.80	211.0 ± 5.85	153.1 ± 3.64	n = 5	[JJE] Ortho Vitros 250/350/950
122.9 ± 3.40	283.0 ± 6.41	181.2 ± 4.45	206.9 ± 6.90	147.6 ± 4.77	n = 20	[JJF] Ortho Vitros 5,1FS
124.9 ± 2.48	286.5 ± 4.37	184.5 ± 3.50	210.4 ± 4.24	148.3 ± 3.21	n = 16	[JJG] Ortho Vitros 5600
122.9 ± 4.27	272.1 ± 8.74	172.8 ± 5.31	190.7 ± 6.55	144.1 ± 5.17	n = 15	[ROC] Roche cobas c501
119.2 ± 1.54	269.2 ± 1.54	169.5 ± 1.86	186.5 ± 1.86	138.5 ± 1.86	n = 3	[ROH] Roche cobas c701
121.5 ± 1.80	272.2 ± 5.27	170.8 ± 4.48	189.9 ± 3.11	141.5 ± 3.12	n = 5	[ROS] Roche Cobas INTEGRA 400
119.9 ± 1.83	271.6 ± 5.95	169.4 ± 2.57	187.7 ± 2.18	141.7 ± 2.81	n = 5	[ROT] Roche Cobas INTEGRA 800
120.1 ± 2.65	271.5 ± 6.27	170.0 ± 3.45	189.5 ± 4.38	141.0 ± 2.69	n = 33	[ROD] Roche MODULAR D/P
121.6 ± 1.81	265.7 ± 3.18	171.7 ± 2.81	185.7 ± 2.64	142.8 ± 1.70	n = 20	[BYE] Siemens ADVIA 1800
121.5 ± 4.53	269.4 ± 2.56	169.9 ± 5.72	186.7 ± 3.16	144.9 ± 4.38	n = 3	[BYB] Siemens ADVIA 2400
113.3 ± 2.83	262.7 ± 7.06	157.0 ± 3.00	172.9 ± 4.71	128.0 ± 3.68	n = 13	[DUE] Siemens Dimension EXL
116.2 ± 4.30	267.4 ± 6.92	161.3 ± 5.26	178.6 ± 6.24	131.8 ± 4.97	n = 18	[DUR] Siemens Dimension RxL
115.9 ± 3.70	263.9 ± 6.16	163.2 ± 3.62	182.3 ± 4.75	134.5 ± 3.27	n = 32	[DUT] Siemens Dimension Vista
117.6 ± 3.31	269.5 ± 6.83	162.4 ± 4.90	179.6 ± 4.64	133.5 ± 4.43	n = 14	[DUX] Siemens Dimension Xpand
						<Reagents>
122.5 ± 4.61	270.0 ± 4.51	175.0 ± 2.70	190.3 ± 3.16	143.7 ± 2.26	n = 3	[AX1] Abaxis
121.3 ± 0.90	272.6 ± 1.59	170.8 ± 1.15	191.6 ± 1.42	141.1 ± 1.65	n = 17	[AB1] Abbott
117.4 ± 3.03	266.0 ± 4.13	164.3 ± 3.03	178.9 ± 4.66	134.5 ± 3.18	n = 40	[BC1] Beckman Coulter
116.0 ± 2.73	264.8 ± 6.05	163.8 ± 4.19	182.6 ± 3.70	135.3 ± 3.10	n = 53	[OL1] Beckman Coulter AU Series
117.4 ± 3.87	265.3 ± 13.23	165.2 ± 8.71	181.3 ± 6.93	134.3 ± 7.67	n = 3	[JA1] JAS Diagnostics
124.2 ± 2.96	284.7 ± 5.51	182.9 ± 4.49	208.8 ± 6.31	148.6 ± 4.55	n = 41	[JJ1] Ortho Clinical Diagnostics
122.1 ± 4.26	271.2 ± 7.45	172.1 ± 4.94	189.8 ± 6.14	143.0 ± 5.40	n = 18	[RO4] Roche cobas c311/c501/c502/c701
119.9 ± 2.63	271.4 ± 6.32	169.9 ± 3.71	189.4 ± 4.68	141.0 ± 2.76	n = 33	[RO2] Roche Hitachi and Modular D/P
120.7 ± 1.92	272.0 ± 5.52	170.0 ± 3.63	188.7 ± 2.90	141.6 ± 3.03	n = 10	[RO1] Roche Integra and MIRA
121.8 ± 2.29	266.4 ± 3.36	171.8 ± 2.93	185.9 ± 2.71	142.9 ± 1.70	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
115.8 ± 3.92	265.5 ± 6.98	161.6 ± 4.78	179.5 ± 6.11	132.8 ± 4.59	n = 77	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

HDL-Cholesterol (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
31.3 ± 3.15	78.3 ± 8.85	40.0 ± 4.39	34.8 ± 4.21	33.0 ± 3.55	n = 311	[---] All Methods & Instruments
31.3 ± 3.95	82.4 ± 9.95	41.5 ± 5.19	37.5 ± 5.52	33.2 ± 4.52	n = 18	[---] All Precipitation Methods
31.3 ± 3.12	78.1 ± 8.70	39.9 ± 4.29	34.6 ± 4.07	33.0 ± 3.47	n = 293	[---] All Homogeneous (Direct) Methods
21.3 ± 1.37	63.8 ± 1.54	25.5 ± 1.86	23.8 ± 2.36	20.5 ± 2.74	n = 3	[AX1] Abaxis
33.5 ± 1.39	81.8 ± 3.19	37.4 ± 1.71	34.7 ± 1.70	30.8 ± 1.73	n = 16	[AB1] Abbott
35.4 ± 1.89	90.6 ± 2.86	40.2 ± 1.84	37.6 ± 1.72	32.4 ± 1.57	n = 33	[BC1] Beckman Coulter
33.6 ± 1.67	82.8 ± 2.86	37.1 ± 1.31	34.6 ± 1.27	30.6 ± 1.12	n = 37	[OL1] Beckman Coulter AU Series
34.5 ± 0.57	83.6 ± 3.40	38.5 ± 0.57	35.0 ± 0.75	31.0 ± 0.75	n = 5	[EQ1/GZ1] Equal/Sekisui Diagnostics (Genzyme)
33.5 ± 1.34	91.8 ± 3.70	44.3 ± 1.85	41.6 ± 1.84	34.8 ± 1.41	n = 33	[JJ1] Ortho Clinical Diagnostics
30.6 ± 1.30	73.4 ± 2.00	40.4 ± 2.57	33.5 ± 2.23	34.4 ± 2.40	n = 9	[RO1] Roche Integra and MIRA
30.3 ± 1.62	74.1 ± 3.84	43.7 ± 3.68	35.7 ± 3.58	36.8 ± 3.45	n = 30	[RO2] Roche Hitachi and Modular D/P
29.5 ± 0.95	70.9 ± 2.01	39.3 ± 1.79	32.4 ± 1.61	33.1 ± 1.46	n = 15	[RO4] Roche cobas c311/c501/c502/c701
26.1 ± 0.90	71.3 ± 2.40	28.1 ± 0.89	26.4 ± 0.99	22.5 ± 0.78	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
29.7 ± 1.22	73.0 ± 2.49	40.7 ± 1.97	33.4 ± 1.74	34.1 ± 1.58	n = 71	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

LDL-Cholesterol (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
70.3 ± 10.55	154.2 ± 16.98	104.0 ± 12.99	124.4 ± 13.46	84.7 ± 11.52	n = 300	[---] All Methods & Instruments
75.6 ± 5.28	161.9 ± 9.55	110.7 ± 8.78	132.1 ± 9.56	90.4 ± 8.05	n = 156	[-A-] All Calculated Results Friedewald formula [LDL=TC-HDL-(Trigs÷5)]
62.6 ± 10.24	142.7 ± 18.67	95.2 ± 12.43	115.6 ± 11.24	77.3 ± 10.86	n = 143	[---] All Homogeneous (Direct) Methods
59.1 ± 1.27	133.1 ± 3.27	94.4 ± 2.61	115.3 ± 2.17	76.7 ± 2.16	n = 6	[AB1] Abbott
55.4 ± 2.30	129.6 ± 5.69	88.9 ± 4.93	111.4 ± 4.92	73.4 ± 3.12	n = 15	[BC1] Beckman Coulter
53.1 ± 2.77	117.5 ± 4.49	80.3 ± 5.04	100.5 ± 5.34	65.1 ± 3.29	n = 19	[OL1] Beckman Coulter AU Series
55.9 ± 4.83	124.6 ± 9.74	84.6 ± 9.12	106.4 ± 10.43	69.0 ± 7.40	n = 13	[EQ1/GZ1] Equal/Sekisui Diagnostics (Genzyme)
57.5 ± 3.26	155.8 ± 7.44	95.8 ± 4.18	121.5 ± 4.65	74.3 ± 3.50	n = 15	[JJ1] Ortho Clinical Diagnostics
82.7 ± 1.99	172.3 ± 4.76	117.2 ± 3.16	133.6 ± 4.82	97.0 ± 3.52	n = 5	[RO4] Roche cobas c311/c501/c502/c701
81.5 ± 2.16	169.4 ± 6.52	109.0 ± 3.61	124.6 ± 4.03	90.3 ± 3.63	n = 14	[RO2] Roche Hitachi and Modular D/P
63.9 ± 7.62	147.2 ± 10.59	63.3 ± 12.84	70.5 ± 10.92	54.2 ± 9.57	n = 4	[RO1] Roche Integra and MIRA
58.0 ± 2.87	143.5 ± 6.24	89.6 ± 4.30	111.3 ± 4.42	71.1 ± 3.56	n = 12	[BY1] Siemens ADVIA/ADVIA Centaur
69.1 ± 4.49	146.4 ± 7.41	103.6 ± 5.46	120.4 ± 5.71	85.4 ± 4.95	n = 34	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Triglycerides (mg/dL)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
63.2 ± 4.11	147.0 ± 6.78	95.3 ± 5.24	104.1 ± 6.26	82.6 ± 4.64	n = 319	[---] All Methods & Instruments
						<Instruments>
69.7 ± 0.51	168.3 ± 1.37	111.0 ± 0.90	124.6 ± 1.02	95.8 ± 1.54	n = 3	[AXA] Abaxis Piccolo
66.6 ± 2.37	142.0 ± 2.65	96.9 ± 2.46	100.8 ± 2.05	84.9 ± 2.46	n = 18	[ABJ] Abbott Architect c System
60.3 ± 1.55	145.1 ± 3.57	91.4 ± 2.70	100.8 ± 2.70	79.5 ± 2.46	n = 54	[OLC] Beckman Coulter AU Chemistry System
65.2 ± 10.78	162.6 ± 11.78	101.4 ± 11.21	113.6 ± 10.71	85.9 ± 9.27	n = 5	[BCS] Beckman Coulter CX
61.4 ± 1.80	154.7 ± 4.21	100.4 ± 3.79	111.4 ± 3.39	84.3 ± 3.17	n = 4	[BCX] Beckman Coulter LX-20
63.2 ± 1.98	155.8 ± 4.27	97.8 ± 2.59	109.0 ± 3.05	84.1 ± 2.36	n = 13	[BCG] Beckman Coulter UniCel DxC 600
63.3 ± 1.99	154.4 ± 5.10	98.1 ± 2.96	109.0 ± 3.91	83.5 ± 3.23	n = 13	[BCH] Beckman Coulter UniCel DxC 800
65.6 ± 0.55	153.5 ± 1.62	102.1 ± 2.23	116.4 ± 3.04	87.8 ± 1.07	n = 5	[JJE] Ortho Vitros 250/350/950
63.1 ± 2.08	147.2 ± 5.54	97.0 ± 3.12	110.6 ± 3.81	83.1 ± 2.50	n = 20	[JJF] Ortho Vitros 5,1FS
63.0 ± 1.79	147.0 ± 3.15	97.5 ± 3.11	110.8 ± 3.65	83.4 ± 2.80	n = 16	[JJG] Ortho Vitros 5600
67.2 ± 2.26	146.5 ± 3.35	96.2 ± 2.92	104.5 ± 2.36	85.5 ± 2.59	n = 15	[ROC] Roche cobas c501
66.2 ± 1.54	146.0 ± 1.80	95.3 ± 1.37	103.4 ± 1.02	85.0 ± 0.90	n = 3	[ROH] Roche cobas c701
62.7 ± 1.38	143.8 ± 3.60	90.4 ± 2.05	100.1 ± 3.11	80.1 ± 1.83	n = 5	[ROS] Roche Cobas INTEGRA 400
61.5 ± 1.22	142.5 ± 2.83	89.3 ± 1.51	99.7 ± 1.58	79.3 ± 0.90	n = 4	[ROT] Roche Cobas INTEGRA 800
64.6 ± 1.76	144.5 ± 2.48	95.2 ± 2.67	102.7 ± 2.53	83.7 ± 2.24	n = 33	[ROD] Roche MODULAR D/P
63.3 ± 1.42	146.3 ± 2.75	96.2 ± 2.31	102.5 ± 2.68	83.2 ± 1.47	n = 20	[BYE] Siemens ADVIA 1800
63.9 ± 3.72	148.9 ± 2.86	97.5 ± 4.53	106.7 ± 3.37	84.8 ± 3.23	n = 3	[BYB] Siemens ADVIA 2400
57.5 ± 2.26	142.4 ± 2.82	89.9 ± 2.45	97.6 ± 2.96	77.9 ± 2.38	n = 13	[DUE] Siemens Dimension EXL
57.7 ± 2.84	142.0 ± 3.40	91.5 ± 3.20	98.1 ± 4.26	77.7 ± 3.08	n = 18	[DUR] Siemens Dimension RxL
69.0 ± 2.36	158.8 ± 3.10	104.2 ± 3.22	111.4 ± 4.69	90.0 ± 2.98	n = 34	[DUT] Siemens Dimension Vista
57.0 ± 4.40	141.2 ± 2.25	90.3 ± 3.40	96.5 ± 2.97	76.3 ± 2.74	n = 12	[DUX] Siemens Dimension Xpand
						<Reagents>
69.7 ± 0.51	168.3 ± 1.37	111.0 ± 0.90	124.6 ± 1.02	95.8 ± 1.54	n = 3	[AX1] Abaxis
66.6 ± 2.37	142.0 ± 2.65	96.9 ± 2.46	100.8 ± 2.05	84.9 ± 2.46	n = 18	[AB1] Abbott
62.7 ± 2.21	155.1 ± 5.05	98.0 ± 3.36	109.2 ± 3.79	83.5 ± 3.13	n = 34	[BC1] Beckman Coulter
60.4 ± 1.56	144.8 ± 3.37	91.5 ± 2.61	100.7 ± 2.76	79.7 ± 2.36	n = 50	[OL1] Beckman Coulter AU Series
64.5 ± 12.80	177.6 ± 21.95	132.9 ± 36.87	144.5 ± 48.31	116.9 ± 51.68	n = 3	[CR1] Carolina
60.1 ± 2.86	152.2 ± 6.79	83.5 ± 5.43	101.7 ± 6.76	74.1 ± 3.72	n = 3	[JA1] JAS Diagnostics
63.5 ± 2.12	148.2 ± 4.69	97.8 ± 3.50	111.4 ± 4.17	83.8 ± 3.09	n = 41	[JJ1] Ortho Clinical Diagnostics
67.0 ± 2.19	146.4 ± 2.92	96.1 ± 2.72	104.3 ± 2.17	85.5 ± 2.35	n = 18	[RO4] Roche cobas c311/c501/c502/c701
64.6 ± 1.76	144.5 ± 2.48	95.2 ± 2.67	102.7 ± 2.53	83.7 ± 2.24	n = 33	[RO2] Roche Hitachi and Modular D/P
62.2 ± 1.42	143.2 ± 3.33	89.9 ± 1.91	99.8 ± 2.48	79.6 ± 1.40	n = 9	[RO1] Roche Integra and MIRA
63.5 ± 1.89	146.6 ± 2.82	96.4 ± 2.64	103.0 ± 2.99	83.3 ± 1.67	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
62.6 ± 7.37	149.2 ± 10.36	96.3 ± 8.31	103.4 ± 8.82	82.5 ± 7.95	n = 76	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Homocysteine (µmol/L)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
8.29 ± 1.14	30.77 ± 3.20	10.72 ± 1.25	13.17 ± 1.50	8.87 ± 1.21	n = 121	[---] All Methods & Instruments
						<Instruments>
8.56 ± 0.44	30.46 ± 0.72	11.22 ± 0.46	13.62 ± 0.42	9.37 ± 0.39	n = 11	[ABH] Abbott Architect i System
8.25 ± 0.28	31.01 ± 0.78	10.82 ± 0.20	13.45 ± 0.06	8.83 ± 0.08	n = 4	[ABB] Abbott AxSym
9.23 ± 0.45	33.07 ± 1.29	11.49 ± 1.05	14.09 ± 1.37	9.59 ± 0.40	n = 23	[OLC] Beckman Coulter AU Chemistry System
9.13 ± 0.24	32.80 ± 0.51	11.65 ± 0.46	14.22 ± 0.82	9.75 ± 0.19	n = 4	[BCH] Beckman Coulter UniCel DxC 800
8.63 ± 0.25	31.47 ± 0.55	12.05 ± 0.39	15.08 ± 0.21	9.89 ± 0.11	n = 4	[JJG] Ortho Vitros 5600
9.12 ± 0.81	32.55 ± 1.75	10.73 ± 0.72	13.24 ± 0.57	9.33 ± 0.29	n = 6	[ROD] Roche MODULAR D/P
6.73 ± 0.53	25.56 ± 1.41	9.28 ± 0.68	11.64 ± 0.66	7.23 ± 0.54	n = 25	[COB] Siemens ADVIA Centaur
7.60 ± 0.10	29.28 ± 1.12	9.27 ± 0.45	10.93 ± 0.24	7.47 ± 0.27	n = 7	[DUT] Siemens Dimension Vista
7.98 ± 0.77	31.45 ± 2.43	10.98 ± 1.14	13.63 ± 0.97	9.13 ± 0.81	n = 16	[DPD] Siemens Immulite 2000
8.35 ± 0.27	32.22 ± 1.23	11.13 ± 0.14	14.19 ± 0.92	9.09 ± 0.83	n = 3	[DPE] Siemens Immulite 2500
						<Reagents>
8.46 ± 0.42	30.60 ± 0.77	11.08 ± 0.45	13.56 ± 0.36	9.21 ± 0.42	n = 15	[AB1] Abbott
9.01 ± 0.56	32.48 ± 1.44	12.81 ± 1.00	15.77 ± 1.40	10.33 ± 1.09	n = 8	[CR1] Carolina
9.20 ± 0.45	33.10 ± 1.17	10.99 ± 0.60	13.36 ± 0.81	9.40 ± 0.37	n = 27	[DZ1] Diazyme
8.62 ± 0.44	31.40 ± 0.93	12.01 ± 0.50	15.08 ± 0.40	9.90 ± 0.09	n = 6	[JJ1] Ortho Clinical Diagnostics
6.73 ± 0.53	25.56 ± 1.41	9.28 ± 0.68	11.64 ± 0.66	7.23 ± 0.54	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
7.60 ± 0.09	29.02 ± 0.98	9.15 ± 0.36	10.92 ± 0.21	7.40 ± 0.19	n = 6	[DA5] Siemens Dimension
8.05 ± 0.72	31.56 ± 2.25	11.01 ± 1.03	13.72 ± 0.99	9.13 ± 0.82	n = 19	[DP5] Siemens Immulite

Summary of Participant Performance (Mean and Standard Deviation)

Troponin I (µg/L)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
1.048 ± 0.251	0.093 ± 0.026	0.017 ± 0.016	0.017 ± 0.015	0.412 ± 0.138	n = 224	[---] All Methods & Instruments
						<Instruments>
5.731 ± 0.227	0.660 ± 0.042	0.010 ± 0.005	0.010 ± 0.005	2.769 ± 0.134	n = 22	[ABH] Abbott Architect i System
0.887 ± 0.073	0.092 ± 0.010	0.012 ± 0.008	0.011 ± 0.008	0.367 ± 0.036	n = 25	[SAA] Beckman Coulter ACCESS
0.163 ± 0.039	0.050 ± 0.000	0.050 ± 0.000	0.050 ± 0.000	0.054 ± 0.006	n = 10	[BSA] BioSite Triage
3.472 ± 0.345	0.343 ± 0.025	0.034 ± 0.045	0.034 ± 0.045	1.086 ± 0.069	n = 4	[IAA] i-STAT
2.877 ± 0.096	0.416 ± 0.034	0.012 ± 0.004	0.012 ± 0.004	1.674 ± 0.073	n = 14	[JJG] Ortho Vitros 5600
3.075 ± 0.090	0.436 ± 0.027	0.010 ± 0.000	0.010 ± 0.000	1.765 ± 0.093	n = 13	[JJC] Ortho Vitros ECi/ECiQ
1.033 ± 0.083	0.080 ± 0.010	0.009 ± 0.007	0.009 ± 0.007	0.411 ± 0.037	n = 42	[COB] Siemens ADVIA Centaur
1.017 ± 0.047	0.083 ± 0.009	0.018 ± 0.020	0.018 ± 0.020	0.370 ± 0.051	n = 4	[BYP] Siemens ADVIA Centaur CP
1.316 ± 0.081	0.121 ± 0.017	0.082 ± 0.037	0.082 ± 0.037	0.569 ± 0.041	n = 10	[DUE] Siemens Dimension EXL
0.948 ± 0.112	0.084 ± 0.022	0.040 ± 0.000	0.038 ± 0.016	0.314 ± 0.034	n = 16	[DUR] Siemens Dimension RxL
1.304 ± 0.056	0.123 ± 0.008	0.020 ± 0.000	0.020 ± 0.000	0.563 ± 0.035	n = 35	[DUT] Siemens Dimension Vista
0.927 ± 0.094	0.088 ± 0.022	0.025 ± 0.022	0.026 ± 0.021	0.284 ± 0.034	n = 10	[DUX] Siemens Dimension Xpand
2.098 ± 0.315	0.334 ± 0.023	0.200 ± 0.000	0.200 ± 0.000	1.004 ± 0.133	n = 4	[DPD] Siemens Immulite 2000
6.201 ± 0.474	0.917 ± 0.079	0.060 ± 0.000	0.060 ± 0.000	3.275 ± 0.286	n = 4	[TOM] Tosoh Bioscience
						<Reagents>
5.732 ± 0.228	0.660 ± 0.042	0.009 ± 0.007	0.009 ± 0.007	2.769 ± 0.135	n = 27	[AB1] Abbott
0.889 ± 0.069	0.092 ± 0.011	0.011 ± 0.009	0.010 ± 0.007	0.367 ± 0.034	n = 27	[BC1] Beckman Coulter
0.163 ± 0.039	0.050 ± 0.000	0.050 ± 0.000	0.050 ± 0.000	0.054 ± 0.006	n = 10	[BS1] Biosite Diagnostics
2.960 ± 0.147	0.427 ± 0.032	0.010 ± 0.000	0.010 ± 0.000	1.714 ± 0.093	n = 27	[JJ1] Ortho Clinical Diagnostics
0.483 ± 0.016	0.305 ± 0.006	0.305 ± 0.006	0.305 ± 0.006	0.305 ± 0.006	n = 4	[RO3] Roche Elecsys/Modular E/e601/e411
1.032 ± 0.079	0.080 ± 0.009	0.009 ± 0.006	0.009 ± 0.006	0.409 ± 0.039	n = 46	[BY1] Siemens ADVIA/ADVIA Centaur
0.943 ± 0.113	0.087 ± 0.023	0.035 ± 0.017	0.033 ± 0.019	0.303 ± 0.038	n = 27	[DA5] Siemens Dimension
1.305 ± 0.061	0.122 ± 0.011	0.032 ± 0.030	0.029 ± 0.028	0.565 ± 0.037	n = 44	[DA6] Siemens Dimension LOCI
1.995 ± 0.343	0.318 ± 0.050	0.200 ± 0.000	0.200 ± 0.000	0.961 ± 0.142	n = 5	[DP5] Siemens Immulite
6.359 ± 0.492	0.930 ± 0.091	0.060 ± 0.000	0.060 ± 0.000	3.388 ± 0.246	n = 3	[TO2] Tosoh ST AIA

Summary of Participant Performance (Mean and Standard Deviation)

Troponin T (µg/L)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
0.616 ± 0.050	0.111 ± 0.011	0.010 ± 0.000	0.010 ± 0.000	0.305 ± 0.023	n = 34	[---] All Methods & Instruments
						<Instruments>
0.574 ± 0.010	0.120 ± 0.009	0.024 ± 0.010	0.024 ± 0.010	0.306 ± 0.010	n = 3	[ROF] Roche cobas e411
0.606 ± 0.048	0.104 ± 0.007	0.010 ± 0.000	0.010 ± 0.000	0.294 ± 0.022	n = 10	[ROA] Roche cobas e601
0.649 ± 0.017	0.118 ± 0.013	0.010 ± 0.000	0.010 ± 0.000	0.317 ± 0.028	n = 10	[BME] Roche Elecsys
0.611 ± 0.033	0.112 ± 0.007	0.010 ± 0.000	0.010 ± 0.000	0.307 ± 0.013	n = 9	[ROE] Roche MODULAR E
						<Reagents>
0.613 ± 0.048	0.111 ± 0.010	0.010 ± 0.000	0.010 ± 0.000	0.305 ± 0.022	n = 30	[RO3] Roche Elecsys/Modular E/e601/e411

Summary of Participant Performance (Mean and Standard Deviation)

Alanine Aminotransferase (U/L 37°C)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
121.0 ± 9.40	50.5 ± 6.65	169.4 ± 11.16	47.7 ± 6.61	140.5 ± 11.29	n = 356	[---] All Methods & Instruments
						<Instruments>
106.0 ± 4.60	46.6 ± 1.02	149.0 ± 3.61	41.8 ± 3.23	126.5 ± 2.74	n = 3	[AXA] Abaxis Piccolo
118.2 ± 3.12	46.8 ± 1.85	166.6 ± 3.54	43.5 ± 1.88	137.9 ± 3.23	n = 21	[ABJ] Abbott Architect c System
105.3 ± 3.20	42.0 ± 1.30	151.3 ± 4.37	42.4 ± 1.88	123.5 ± 3.42	n = 51	[OLC] Beckman Coulter AU Chemistry System
115.3 ± 5.72	47.5 ± 3.18	160.4 ± 5.54	45.1 ± 1.38	132.0 ± 6.57	n = 5	[BCS] Beckman Coulter CX
117.0 ± 1.54	49.5 ± 1.07	161.1 ± 4.24	45.0 ± 0.93	132.2 ± 0.41	n = 5	[BCX] Beckman Coulter LX-20
117.8 ± 2.59	50.6 ± 1.41	163.2 ± 3.54	45.5 ± 2.12	134.4 ± 3.69	n = 17	[BCG] Beckman Coulter UniCel DxC 600
118.7 ± 1.32	51.6 ± 1.47	164.7 ± 3.51	46.2 ± 1.58	136.4 ± 2.84	n = 15	[BCH] Beckman Coulter UniCel DxC 800
129.9 ± 5.29	55.8 ± 3.96	182.9 ± 6.27	58.4 ± 3.30	158.5 ± 5.06	n = 12	[JJE] Ortho Vitros 250/350/950
132.2 ± 4.49	58.2 ± 4.12	185.5 ± 5.04	60.8 ± 5.02	159.3 ± 4.56	n = 21	[JJF] Ortho Vitros 5,1FS
131.3 ± 4.94	57.3 ± 3.23	183.4 ± 4.43	60.1 ± 2.80	158.2 ± 2.62	n = 16	[JJG] Ortho Vitros 5600
118.7 ± 4.71	46.7 ± 1.72	173.1 ± 6.33	46.8 ± 1.97	140.7 ± 4.99	n = 16	[ROC] Roche cobas c501
115.0 ± 2.70	44.8 ± 2.36	166.3 ± 6.73	43.2 ± 2.36	135.2 ± 5.00	n = 3	[ROH] Roche cobas c701
118.5 ± 4.53	46.0 ± 2.15	167.4 ± 6.19	42.7 ± 1.97	137.4 ± 4.76	n = 6	[ROS] Roche Cobas INTEGRA 400
116.5 ± 3.20	45.5 ± 0.83	163.6 ± 5.67	43.0 ± 0.93	136.5 ± 3.86	n = 5	[ROT] Roche Cobas INTEGRA 800
117.4 ± 3.50	46.8 ± 2.09	167.8 ± 5.00	45.1 ± 2.02	137.7 ± 4.02	n = 32	[ROD] Roche MODULAR D/P
124.7 ± 3.98	50.9 ± 2.59	175.0 ± 4.56	46.3 ± 3.64	143.7 ± 4.25	n = 20	[BYE] Siemens ADVIA 1800
123.7 ± 7.74	51.5 ± 1.86	171.5 ± 1.86	49.8 ± 4.11	141.3 ± 4.22	n = 3	[BYB] Siemens ADVIA 2400
127.7 ± 2.97	59.6 ± 1.61	175.0 ± 2.66	55.5 ± 1.93	146.0 ± 3.32	n = 15	[DUE] Siemens Dimension EXL
130.0 ± 4.63	60.5 ± 3.27	175.1 ± 4.72	56.1 ± 2.81	147.5 ± 4.22	n = 24	[DUR] Siemens Dimension RxL
122.9 ± 1.91	51.0 ± 1.35	171.2 ± 3.53	46.6 ± 1.65	141.7 ± 2.87	n = 37	[DUT] Siemens Dimension Vista
130.8 ± 2.87	60.8 ± 0.68	177.1 ± 2.90	56.0 ± 1.16	148.9 ± 3.19	n = 19	[DUX] Siemens Dimension Xpand
						<Reagents>
106.0 ± 4.60	46.6 ± 1.02	149.0 ± 3.61	41.8 ± 3.23	126.5 ± 2.74	n = 3	[AX1] Abaxis
118.2 ± 3.12	46.8 ± 1.85	166.6 ± 3.54	43.5 ± 1.88	137.9 ± 3.23	n = 21	[AB1] Abbott
118.2 ± 2.51	50.7 ± 1.75	163.4 ± 4.09	45.6 ± 1.75	134.6 ± 4.01	n = 43	[BC1] Beckman Coulter
105.3 ± 3.10	42.0 ± 1.23	151.3 ± 4.11	42.5 ± 1.83	123.6 ± 3.20	n = 49	[OL1] Beckman Coulter AU Series
111.8 ± 10.29	45.8 ± 2.36	157.7 ± 10.61	40.5 ± 1.86	126.5 ± 7.22	n = 3	[JA1] JAS Diagnostics
131.3 ± 5.00	57.3 ± 4.04	184.1 ± 5.39	59.8 ± 4.09	158.7 ± 4.22	n = 50	[JJ1] Ortho Clinical Diagnostics
117.6 ± 4.69	46.4 ± 1.92	171.5 ± 6.96	46.3 ± 2.21	139.5 ± 5.43	n = 20	[RO4] Roche cobas c311/c501/c502/c701
117.4 ± 3.50	46.8 ± 2.09	167.8 ± 5.00	45.1 ± 2.02	137.7 ± 4.02	n = 32	[RO2] Roche Hitachi and Modular D/P
117.5 ± 4.08	45.8 ± 1.61	165.6 ± 6.30	43.0 ± 1.50	137.0 ± 4.40	n = 11	[RO1] Roche Integra and MIRA
124.5 ± 5.16	50.8 ± 2.74	174.4 ± 4.50	46.4 ± 4.11	143.4 ± 4.42	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
127.0 ± 5.01	56.8 ± 5.52	174.2 ± 4.44	52.1 ± 5.69	145.4 ± 4.55	n = 82	[DA5] Siemens Dimension
124.5 ± 3.49	53.9 ± 5.37	172.9 ± 2.24	49.6 ± 4.71	143.3 ± 4.40	n = 12	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

Aspartate Aminotransferase (U/L 37°C)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
74.5 ± 3.99	288.9 ± 13.88	175.1 ± 8.40	67.2 ± 3.67	144.4 ± 7.04	n = 356	[---] All Methods & Instruments
						<Instruments>
76.5 ± 1.86	290.0 ± 4.60	174.7 ± 3.37	68.6 ± 2.56	145.3 ± 3.07	n = 3	[AXA] Abaxis Piccolo
74.7 ± 1.76	291.1 ± 5.31	172.5 ± 3.48	66.0 ± 1.56	143.3 ± 3.09	n = 21	[ABJ] Abbott Architect c System
67.7 ± 2.46	259.7 ± 8.82	156.8 ± 5.29	61.9 ± 2.58	130.0 ± 4.56	n = 51	[OLC] Beckman Coulter AU Chemistry System
71.1 ± 3.94	274.4 ± 15.16	165.9 ± 7.76	64.0 ± 3.15	136.6 ± 7.87	n = 5	[BCS] Beckman Coulter CX
74.2 ± 0.41	286.5 ± 3.77	171.5 ± 1.22	66.0 ± 0.75	141.7 ± 2.02	n = 4	[BCX] Beckman Coulter LX-20
74.4 ± 1.77	286.8 ± 6.51	172.0 ± 2.84	66.2 ± 1.91	141.7 ± 3.86	n = 18	[BCG] Beckman Coulter UniCel DxC 600
75.2 ± 2.13	287.5 ± 5.59	172.7 ± 2.57	67.0 ± 0.96	142.3 ± 3.66	n = 15	[BCH] Beckman Coulter UniCel DxC 800
74.6 ± 2.00	290.5 ± 9.11	180.5 ± 4.62	72.7 ± 1.16	146.6 ± 3.46	n = 12	[JJE] Ortho Vitros 250/350/950
73.9 ± 2.08	289.4 ± 7.44	180.6 ± 3.66	71.7 ± 1.99	144.7 ± 3.48	n = 21	[JJF] Ortho Vitros 5,1FS
74.1 ± 3.07	290.3 ± 9.12	180.0 ± 4.26	71.4 ± 1.84	143.5 ± 3.53	n = 16	[JJG] Ortho Vitros 5600
75.6 ± 2.86	293.2 ± 13.37	178.6 ± 5.98	67.8 ± 2.25	147.0 ± 5.29	n = 16	[ROC] Roche cobas c501
75.0 ± 0.90	297.2 ± 8.77	175.1 ± 3.72	67.7 ± 1.37	142.8 ± 4.11	n = 3	[ROH] Roche cobas c701
77.3 ± 2.31	304.5 ± 7.47	180.7 ± 3.47	67.3 ± 1.38	150.2 ± 3.29	n = 6	[ROS] Roche Cobas INTEGRA 400
77.4 ± 1.52	298.3 ± 6.07	178.9 ± 3.82	67.7 ± 1.10	148.2 ± 3.38	n = 5	[ROT] Roche Cobas INTEGRA 800
75.6 ± 2.59	290.5 ± 5.68	175.3 ± 3.97	67.4 ± 1.40	144.5 ± 2.45	n = 33	[ROD] Roche MODULAR D/P
83.1 ± 2.93	315.0 ± 7.01	187.2 ± 3.97	72.0 ± 2.85	155.6 ± 3.20	n = 20	[BYE] Siemens ADVIA 1800
82.0 ± 4.60	312.1 ± 13.79	185.1 ± 8.31	73.0 ± 5.48	153.8 ± 7.82	n = 3	[BYB] Siemens ADVIA 2400
74.2 ± 1.92	285.9 ± 5.35	174.2 ± 3.10	66.7 ± 1.40	145.0 ± 2.13	n = 14	[DUE] Siemens Dimension EXL
75.8 ± 3.04	288.1 ± 7.37	176.1 ± 4.73	67.6 ± 2.65	147.3 ± 4.43	n = 25	[DUR] Siemens Dimension RxL
73.9 ± 3.11	292.2 ± 5.90	176.7 ± 4.74	66.1 ± 2.95	146.2 ± 4.08	n = 36	[DUT] Siemens Dimension Vista
76.3 ± 1.63	292.6 ± 5.46	178.2 ± 3.41	68.0 ± 1.68	149.0 ± 2.70	n = 19	[DUX] Siemens Dimension Xpand
						<Reagents>
76.5 ± 1.86	290.0 ± 4.60	174.7 ± 3.37	68.6 ± 2.56	145.3 ± 3.07	n = 3	[AX1] Abaxis
74.7 ± 1.76	291.1 ± 5.31	172.5 ± 3.48	66.0 ± 1.56	143.3 ± 3.09	n = 21	[AB1] Abbott
74.5 ± 1.96	286.5 ± 6.50	172.0 ± 2.86	66.4 ± 1.69	141.6 ± 4.10	n = 43	[BC1] Beckman Coulter
67.8 ± 2.29	259.9 ± 8.32	156.9 ± 4.90	61.9 ± 2.48	130.1 ± 4.19	n = 49	[OL1] Beckman Coulter AU Series
73.1 ± 5.22	277.1 ± 25.28	166.4 ± 10.30	63.5 ± 2.74	134.5 ± 6.32	n = 3	[JA1] JAS Diagnostics
74.2 ± 2.42	290.0 ± 8.37	180.3 ± 4.19	72.0 ± 1.87	144.8 ± 3.61	n = 50	[JJ1] Ortho Clinical Diagnostics
75.4 ± 2.55	293.7 ± 12.34	177.7 ± 5.78	67.8 ± 1.99	146.2 ± 5.17	n = 20	[RO4] Roche cobas c311/c501/c502/c701
75.6 ± 2.59	290.5 ± 5.68	175.3 ± 3.97	67.4 ± 1.40	144.5 ± 2.45	n = 33	[RO2] Roche Hitachi and Modular D/P
77.3 ± 1.93	301.5 ± 7.66	179.8 ± 3.95	67.6 ± 1.08	149.2 ± 3.63	n = 11	[RO1] Roche Integra and MIRA
82.7 ± 3.67	314.0 ± 9.13	186.5 ± 5.26	71.8 ± 3.49	155.0 ± 4.62	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
75.0 ± 2.92	290.5 ± 6.97	176.5 ± 4.53	67.1 ± 2.61	146.9 ± 3.85	n = 87	[DA5] Siemens Dimension
74.0 ± 2.91	289.4 ± 5.93	174.7 ± 2.65	65.9 ± 1.40	146.0 ± 4.26	n = 6	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

α-Amylase (U/L 37°C)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
402.0 ± 76.68	48.3 ± 5.66	102.3 ± 9.17	176.5 ± 20.60	85.1 ± 8.98	n = 316	[---] All Methods & Instruments
						<Instruments>
448.2 ± 8.31	50.2 ± 0.84	109.4 ± 2.03	189.5 ± 4.22	91.3 ± 1.66	n = 19	[ABJ] Abbott Architect c System
352.1 ± 21.89	38.8 ± 2.56	85.6 ± 5.35	148.5 ± 9.11	71.6 ± 4.57	n = 44	[OLC] Beckman Coulter AU Chemistry System
426.2 ± 4.80	54.3 ± 0.90	111.6 ± 1.80	192.7 ± 0.90	92.7 ± 2.47	n = 4	[BCX] Beckman Coulter LX-20
424.5 ± 12.76	53.2 ± 1.70	111.5 ± 1.93	191.8 ± 5.99	93.1 ± 2.28	n = 15	[BCG] Beckman Coulter UniCel DxC 600
426.4 ± 6.17	54.3 ± 0.76	112.3 ± 2.09	192.1 ± 3.15	94.3 ± 1.85	n = 15	[BCH] Beckman Coulter UniCel DxC 800
226.9 ± 13.83	47.3 ± 3.03	90.4 ± 7.62	138.4 ± 10.08	71.8 ± 5.30	n = 9	[JJE] Ortho Vitros 250/350/950
233.5 ± 10.89	51.3 ± 5.42	91.5 ± 6.14	145.9 ± 10.36	71.3 ± 4.33	n = 20	[JJF] Ortho Vitros 5,1FS
232.1 ± 11.01	53.3 ± 5.55	93.8 ± 5.10	145.0 ± 9.39	71.8 ± 4.83	n = 16	[JJG] Ortho Vitros 5600
389.9 ± 3.37	51.6 ± 1.13	105.4 ± 2.01	179.3 ± 2.42	87.8 ± 1.55	n = 16	[ROC] Roche cobas c501
385.4 ± 6.23	51.3 ± 1.37	104.3 ± 3.37	176.3 ± 4.22	86.8 ± 1.54	n = 3	[ROS] Roche Cobas INTEGRA 400
384.2 ± 5.25	50.8 ± 0.80	103.4 ± 1.33	176.1 ± 2.41	86.6 ± 1.09	n = 5	[ROT] Roche Cobas INTEGRA 800
383.4 ± 7.63	51.5 ± 1.27	103.3 ± 2.10	176.1 ± 2.57	86.2 ± 1.63	n = 30	[ROD] Roche MODULAR D/P
395.1 ± 8.78	50.5 ± 1.23	105.5 ± 2.55	180.9 ± 3.73	87.5 ± 1.66	n = 20	[BYE] Siemens ADVIA 1800
387.3 ± 6.93	50.0 ± 0.90	103.5 ± 1.86	180.0 ± 4.51	87.2 ± 1.54	n = 3	[BYB] Siemens ADVIA 2400
479.8 ± 8.74	46.0 ± 1.11	107.0 ± 2.68	193.7 ± 4.25	89.9 ± 2.16	n = 11	[DUE] Siemens Dimension EXL
485.1 ± 10.72	46.2 ± 1.55	107.6 ± 2.13	195.0 ± 4.09	90.9 ± 2.31	n = 23	[DUR] Siemens Dimension RxL
453.8 ± 5.58	42.5 ± 0.78	99.9 ± 1.86	181.4 ± 2.96	84.0 ± 1.45	n = 36	[DUT] Siemens Dimension Vista
488.7 ± 8.63	46.3 ± 1.08	108.3 ± 2.26	196.4 ± 3.35	91.1 ± 2.07	n = 16	[DUX] Siemens Dimension Xpand
						<Reagents>
448.2 ± 8.31	50.2 ± 0.84	109.4 ± 2.03	189.5 ± 4.22	91.3 ± 1.66	n = 19	[AB1] Abbott
428.3 ± 10.48	54.3 ± 1.37	112.2 ± 2.04	192.8 ± 5.04	94.3 ± 2.12	n = 13	[BC1] Beckman Coulter
352.4 ± 22.20	38.7 ± 2.52	85.5 ± 5.41	148.2 ± 9.11	71.5 ± 4.59	n = 43	[OL1] Beckman Coulter AU Series
425.9 ± 5.53	54.0 ± 1.00	111.8 ± 2.05	192.5 ± 3.70	93.7 ± 2.38	n = 24	[BC2] Beckman Coulter IFCC Standardized
231.9 ± 12.14	51.2 ± 5.45	92.4 ± 6.33	144.3 ± 10.08	71.6 ± 4.86	n = 47	[JJ1] Ortho Clinical Diagnostics
389.1 ± 3.84	51.6 ± 1.11	105.3 ± 1.78	179.2 ± 2.08	87.6 ± 1.50	n = 19	[RO4] Roche cobas c311/c501/c502/c701
383.4 ± 7.63	51.5 ± 1.27	103.3 ± 2.10	176.1 ± 2.57	86.2 ± 1.63	n = 30	[RO2] Roche Hitachi and Modular D/P
384.6 ± 5.65	50.9 ± 1.01	103.2 ± 1.53	176.1 ± 3.09	86.7 ± 1.24	n = 8	[RO1] Roche Integra and MIRA
394.1 ± 8.96	50.5 ± 1.20	105.2 ± 2.57	180.8 ± 3.88	87.5 ± 1.63	n = 23	[BY1] Siemens ADVIA/ADVIA Centaur
472.3 ± 19.18	44.6 ± 2.30	104.5 ± 4.73	189.7 ± 8.34	88.0 ± 4.37	n = 86	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

Alkaline Phosphatase (U/L 37°C)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
225.0 ± 20.38	52.5 ± 10.25	164.5 ± 19.85	151.1 ± 17.97	134.1 ± 14.63	n = 355	[---] All Methods & Instruments
						<Instruments>
207.3 ± 10.37	50.1 ± 3.72	145.7 ± 6.85	137.8 ± 9.49	116.5 ± 2.74	n = 3	[AXA] Abaxis Piccolo
241.2 ± 7.00	52.7 ± 1.85	170.5 ± 4.46	156.0 ± 3.76	140.8 ± 4.44	n = 21	[ABJ] Abbott Architect c System
213.5 ± 11.35	45.4 ± 2.80	149.5 ± 7.27	136.6 ± 6.51	123.0 ± 6.47	n = 50	[OLC] Beckman Coulter AU Chemistry System
206.7 ± 1.59	44.7 ± 0.90	144.3 ± 3.98	132.5 ± 7.48	120.7 ± 1.52	n = 5	[BCS] Beckman Coulter CX
205.0 ± 13.12	43.0 ± 3.00	145.8 ± 8.34	131.7 ± 6.64	118.0 ± 7.42	n = 4	[BCX] Beckman Coulter LX-20
205.0 ± 9.60	44.8 ± 1.06	144.7 ± 7.02	133.2 ± 6.10	119.6 ± 5.63	n = 18	[BCG] Beckman Coulter UniCel DxC 600
210.4 ± 7.48	45.7 ± 2.29	148.5 ± 5.29	135.2 ± 4.52	122.7 ± 4.28	n = 16	[BCH] Beckman Coulter UniCel DxC 800
225.5 ± 5.14	72.9 ± 3.48	193.8 ± 7.31	176.6 ± 6.95	151.8 ± 7.14	n = 11	[JJE] Ortho Vitros 250/350/950
223.1 ± 8.16	72.7 ± 2.56	193.2 ± 5.52	176.6 ± 6.43	150.4 ± 4.63	n = 21	[JJF] Ortho Vitros 5,1FS
212.6 ± 6.78	72.7 ± 2.23	191.0 ± 7.15	171.4 ± 6.52	145.3 ± 2.82	n = 16	[JJG] Ortho Vitros 5600
228.5 ± 7.45	49.9 ± 1.17	161.3 ± 3.48	149.1 ± 3.60	131.7 ± 3.88	n = 16	[ROC] Roche cobas c501
229.3 ± 3.16	50.4 ± 1.02	158.6 ± 1.02	149.5 ± 1.86	130.7 ± 0.51	n = 3	[ROH] Roche cobas c701
229.1 ± 3.11	49.8 ± 1.07	161.2 ± 2.69	149.3 ± 2.55	132.1 ± 1.83	n = 5	[ROS] Roche Cobas INTEGRA 400
228.6 ± 5.36	48.2 ± 1.07	160.2 ± 2.28	147.6 ± 2.31	132.1 ± 2.61	n = 5	[ROT] Roche Cobas INTEGRA 800
222.2 ± 5.59	49.6 ± 1.54	157.3 ± 3.86	145.6 ± 3.74	129.0 ± 3.14	n = 31	[ROD] Roche MODULAR D/P
245.2 ± 7.45	53.4 ± 2.03	173.4 ± 5.49	159.2 ± 5.28	141.8 ± 4.76	n = 20	[BYE] Siemens ADVIA 1800
237.9 ± 6.58	52.0 ± 1.80	168.2 ± 2.36	154.1 ± 2.86	138.3 ± 5.86	n = 3	[BYB] Siemens ADVIA 2400
268.9 ± 8.09	68.2 ± 3.73	195.8 ± 9.44	179.7 ± 7.23	160.8 ± 6.26	n = 14	[DUE] Siemens Dimension EXL
263.1 ± 10.85	65.3 ± 6.81	191.4 ± 9.61	173.9 ± 9.69	155.5 ± 7.58	n = 25	[DUR] Siemens Dimension RxL
212.1 ± 12.74	46.7 ± 3.44	151.2 ± 7.43	138.2 ± 7.70	123.3 ± 5.97	n = 37	[DUT] Siemens Dimension Vista
250.0 ± 11.18	59.3 ± 3.94	177.8 ± 7.73	165.5 ± 5.67	147.3 ± 5.57	n = 19	[DUX] Siemens Dimension Xpand
						<Reagents>
207.3 ± 10.37	50.1 ± 3.72	145.7 ± 6.85	137.8 ± 9.49	116.5 ± 2.74	n = 3	[AX1] Abaxis
241.2 ± 7.00	52.7 ± 1.85	170.5 ± 4.46	156.0 ± 3.76	140.8 ± 4.44	n = 21	[AB1] Abbott
206.7 ± 8.91	44.8 ± 1.94	145.9 ± 6.24	133.8 ± 5.40	120.4 ± 5.38	n = 42	[BC1] Beckman Coulter
213.2 ± 10.89	45.3 ± 2.67	149.3 ± 6.96	136.4 ± 6.22	122.7 ± 6.22	n = 49	[OL1] Beckman Coulter AU Series
229.9 ± 8.46	52.3 ± 4.06	158.2 ± 5.90	149.7 ± 11.27	131.5 ± 4.61	n = 3	[JA1] JAS Diagnostics
219.7 ± 10.05	72.8 ± 2.82	192.6 ± 6.96	174.8 ± 7.54	148.7 ± 6.58	n = 49	[JJ1] Ortho Clinical Diagnostics
228.8 ± 6.60	50.0 ± 1.16	160.9 ± 3.39	149.3 ± 3.22	131.7 ± 3.49	n = 20	[RO4] Roche cobas c311/c501/c502/c701
222.4 ± 5.53	49.6 ± 1.51	157.3 ± 3.75	145.6 ± 3.64	129.1 ± 3.10	n = 32	[RO2] Roche Hitachi and Modular D/P
228.3 ± 3.98	49.1 ± 1.32	160.7 ± 2.35	148.4 ± 2.35	132.0 ± 2.12	n = 11	[RO1] Roche Integra and MIRA
243.4 ± 8.37	53.1 ± 2.11	172.1 ± 6.12	157.9 ± 5.75	141.0 ± 5.34	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
242.2 ± 29.06	57.1 ± 10.86	173.5 ± 22.40	159.5 ± 20.51	142.5 ± 18.59	n = 95	[DA5] Siemens Dimension

Summary of Participant Performance (Mean and Standard Deviation)

γ-Glutamyltransferase (U/L 37°C)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
65.0 ± 15.36	23.3 ± 5.55	80.7 ± 19.12	156.5 ± 35.99	67.9 ± 16.59	n = 302	[---] All Methods & Instruments
						<Instruments>
64.9 ± 3.78	23.1 ± 1.65	81.9 ± 4.66	160.1 ± 9.10	67.8 ± 4.11	n = 17	[ABJ] Abbott Architect c System
50.6 ± 2.77	19.3 ± 1.26	62.9 ± 3.17	120.6 ± 5.54	52.6 ± 2.79	n = 47	[OLC] Beckman Coulter AU Chemistry System
52.8 ± 12.28	18.0 ± 1.65	65.2 ± 12.28	125.0 ± 25.67	53.7 ± 9.49	n = 4	[BCS] Beckman Coulter CX
60.9 ± 2.72	17.7 ± 2.26	76.5 ± 3.45	152.6 ± 3.54	64.8 ± 1.46	n = 4	[BCX] Beckman Coulter LX-20
63.8 ± 3.28	19.6 ± 1.35	79.9 ± 3.49	158.0 ± 6.56	66.4 ± 2.77	n = 15	[BCG] Beckman Coulter UniCel DxC 600
63.5 ± 2.25	19.1 ± 1.81	78.6 ± 1.89	157.0 ± 3.21	66.6 ± 2.49	n = 14	[BCH] Beckman Coulter UniCel DxC 800
100.1 ± 2.44	27.2 ± 1.37	127.8 ± 3.13	255.1 ± 6.54	106.0 ± 1.55	n = 8	[JJE] Ortho Vitros 250/350/950
98.4 ± 3.98	27.8 ± 1.90	124.8 ± 4.86	246.4 ± 8.78	104.0 ± 4.03	n = 20	[JJF] Ortho Vitros 5,1FS
99.4 ± 2.97	27.1 ± 1.02	126.0 ± 3.00	247.3 ± 4.92	105.0 ± 2.77	n = 15	[JJG] Ortho Vitros 5600
54.4 ± 1.99	19.4 ± 0.81	66.8 ± 1.59	132.2 ± 4.05	55.7 ± 1.56	n = 15	[ROC] Roche cobas c501
54.0 ± 0.90	18.7 ± 0.51	67.0 ± 0.90	132.9 ± 2.86	55.7 ± 1.37	n = 3	[ROS] Roche Cobas INTEGRA 400
52.9 ± 1.13	18.0 ± 0.75	65.5 ± 0.57	129.5 ± 1.22	55.0 ± 0.00	n = 4	[ROT] Roche Cobas INTEGRA 800
55.2 ± 1.69	19.2 ± 1.37	68.1 ± 2.18	136.1 ± 3.74	56.3 ± 1.77	n = 30	[ROD] Roche MODULAR D/P
60.4 ± 1.67	22.0 ± 1.68	76.7 ± 1.94	149.1 ± 3.40	63.3 ± 1.91	n = 20	[BYE] Siemens ADVIA 1800
58.5 ± 1.86	22.2 ± 1.54	77.0 ± 1.80	148.3 ± 1.37	65.0 ± 1.80	n = 3	[BYB] Siemens ADVIA 2400
75.3 ± 2.05	33.0 ± 2.06	92.1 ± 2.27	174.9 ± 2.62	78.6 ± 2.43	n = 11	[DUE] Siemens Dimension EXL
74.5 ± 2.63	32.4 ± 2.27	91.2 ± 3.40	172.9 ± 5.35	78.0 ± 3.20	n = 19	[DUR] Siemens Dimension RxL
74.3 ± 2.16	29.0 ± 2.10	92.4 ± 2.01	179.3 ± 3.38	78.4 ± 2.04	n = 34	[DUT] Siemens Dimension Vista
75.5 ± 1.73	32.4 ± 1.21	92.6 ± 1.93	175.5 ± 3.46	78.9 ± 2.01	n = 10	[DUX] Siemens Dimension Xpand
						<Reagents>
64.6 ± 3.62	23.0 ± 1.50	81.6 ± 4.48	159.3 ± 8.64	67.4 ± 3.85	n = 16	[AB1] Abbott
63.4 ± 2.87	19.2 ± 1.73	78.8 ± 3.28	156.5 ± 6.01	66.1 ± 2.71	n = 36	[BC1] Beckman Coulter
50.7 ± 2.77	19.4 ± 1.24	63.1 ± 3.06	120.9 ± 5.45	52.7 ± 2.79	n = 45	[OL1] Beckman Coulter AU Series
50.8 ± 1.54	19.8 ± 1.54	59.5 ± 3.63	113.2 ± 10.38	51.5 ± 2.74	n = 3	[JA1] JAS Diagnostics
99.1 ± 3.46	27.4 ± 1.53	125.8 ± 4.13	248.3 ± 7.80	104.8 ± 3.32	n = 43	[JJ1] Ortho Clinical Diagnostics
54.3 ± 2.10	19.5 ± 0.78	66.8 ± 1.66	131.8 ± 4.05	55.5 ± 1.67	n = 18	[RO4] Roche cobas c311/c501/c502/c701
55.2 ± 1.69	19.2 ± 1.37	68.1 ± 2.18	136.1 ± 3.74	56.3 ± 1.77	n = 30	[RO2] Roche Hitachi and Modular D/P
53.4 ± 1.13	18.3 ± 0.74	66.1 ± 1.01	130.6 ± 2.63	55.2 ± 0.86	n = 7	[RO1] Roche Integra and MIRA
60.2 ± 1.75	22.1 ± 1.68	76.6 ± 1.98	148.7 ± 3.30	63.5 ± 1.94	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
74.5 ± 2.23	30.9 ± 2.83	92.1 ± 2.56	176.7 ± 4.51	78.4 ± 2.49	n = 69	[DA5] Siemens Dimension
76.6 ± 1.09	31.1 ± 1.83	92.4 ± 1.09	179.4 ± 3.78	77.8 ± 0.41	n = 5	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

Creatine Kinase (U/L 37°C)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
72.7 ± 6.12	290.3 ± 21.08	61.8 ± 5.80	71.8 ± 7.06	405.0 ± 28.21	n = 325	[---] All Methods & Instruments
						<Instruments>
75.3 ± 2.01	299.6 ± 6.62	67.3 ± 1.35	78.9 ± 1.91	415.3 ± 9.34	n = 21	[ABJ] Abbott Architect c System
62.9 ± 3.03	261.3 ± 9.48	52.6 ± 2.92	61.8 ± 3.06	362.0 ± 14.20	n = 46	[OLC] Beckman Coulter AU Chemistry System
69.6 ± 10.60	271.3 ± 46.08	59.9 ± 12.92	68.4 ± 14.76	387.6 ± 66.33	n = 4	[BCS] Beckman Coulter CX
74.6 ± 1.64	296.0 ± 3.36	64.3 ± 0.82	75.3 ± 1.58	417.0 ± 6.68	n = 4	[BCX] Beckman Coulter LX-20
74.4 ± 2.24	297.5 ± 4.49	65.8 ± 2.72	77.2 ± 2.48	422.4 ± 8.94	n = 16	[BCG] Beckman Coulter UniCel DxC 600
75.5 ± 2.63	299.6 ± 7.49	66.0 ± 3.81	78.9 ± 3.44	425.6 ± 10.34	n = 16	[BCH] Beckman Coulter UniCel DxC 800
83.8 ± 7.10	357.6 ± 27.59	65.1 ± 4.57	71.1 ± 3.76	452.7 ± 27.23	n = 9	[JJE] Ortho Vitros 250/350/950
82.7 ± 3.57	353.1 ± 12.27	63.4 ± 2.62	68.5 ± 3.39	447.7 ± 12.14	n = 19	[JJF] Ortho Vitros 5,1FS
82.5 ± 2.87	345.2 ± 15.51	63.3 ± 2.64	67.7 ± 2.24	443.1 ± 14.53	n = 15	[JJG] Ortho Vitros 5600
72.6 ± 2.00	304.1 ± 9.68	58.1 ± 1.98	69.4 ± 2.32	424.7 ± 12.50	n = 16	[ROC] Roche cobas c501
76.5 ± 1.86	293.9 ± 4.38	67.7 ± 1.37	78.0 ± 0.90	407.0 ± 7.24	n = 3	[ROH] Roche cobas c701
63.4 ± 6.86	292.2 ± 20.50	48.7 ± 5.78	58.9 ± 6.19	412.9 ± 25.89	n = 5	[ROT] Roche Cobas INTEGRA 800
74.2 ± 2.27	289.2 ± 6.77	64.1 ± 1.92	75.4 ± 2.30	402.8 ± 10.42	n = 31	[ROD] Roche MODULAR D/P
69.5 ± 1.83	285.5 ± 6.76	54.4 ± 1.72	63.9 ± 1.98	384.7 ± 10.03	n = 20	[BYE] Siemens ADVIA 1800
66.7 ± 3.37	279.6 ± 14.48	53.8 ± 4.11	64.7 ± 3.07	377.7 ± 20.24	n = 3	[BYB] Siemens ADVIA 2400
70.7 ± 3.66	283.1 ± 6.73	62.0 ± 3.26	73.7 ± 2.72	395.7 ± 12.13	n = 13	[DUE] Siemens Dimension EXL
72.1 ± 2.47	289.5 ± 4.88	63.0 ± 2.68	74.2 ± 2.62	402.7 ± 8.82	n = 25	[DUR] Siemens Dimension RxL
73.3 ± 2.34	287.1 ± 7.05	64.1 ± 2.31	75.8 ± 2.24	397.7 ± 9.98	n = 36	[DUT] Siemens Dimension Vista
71.8 ± 1.85	287.5 ± 5.28	62.9 ± 1.66	74.0 ± 2.19	400.2 ± 11.25	n = 15	[DUX] Siemens Dimension Xpand
						<Reagents>
75.3 ± 2.01	299.6 ± 6.62	67.3 ± 1.35	78.9 ± 1.91	415.3 ± 9.34	n = 21	[AB1] Abbott
74.9 ± 2.72	298.4 ± 6.38	65.7 ± 3.20	77.7 ± 3.27	423.4 ± 11.17	n = 40	[BC1] Beckman Coulter
62.8 ± 2.94	260.8 ± 9.41	52.5 ± 2.84	61.7 ± 2.99	361.5 ± 14.24	n = 44	[OL1] Beckman Coulter AU Series
82.9 ± 3.93	351.3 ± 17.08	63.7 ± 3.05	68.6 ± 3.25	446.8 ± 16.27	n = 43	[JJ1] Ortho Clinical Diagnostics
73.1 ± 2.35	302.8 ± 9.93	59.0 ± 3.29	70.4 ± 3.79	421.4 ± 13.95	n = 20	[RO4] Roche cobas c311/c501/c502/c701
74.2 ± 2.30	289.3 ± 6.89	64.2 ± 1.88	75.5 ± 2.27	402.9 ± 10.68	n = 30	[RO2] Roche Hitachi and Modular D/P
67.2 ± 8.09	297.9 ± 17.38	53.4 ± 8.81	63.5 ± 9.50	419.1 ± 21.93	n = 7	[RO1] Roche Integra and MIRA
69.2 ± 2.01	284.5 ± 8.57	54.3 ± 2.15	63.8 ± 2.07	383.2 ± 12.42	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
72.2 ± 3.04	287.2 ± 7.39	63.5 ± 1.98	74.8 ± 2.33	400.0 ± 11.01	n = 28	[DA5] Siemens Dimension
72.4 ± 2.57	287.8 ± 5.76	63.3 ± 2.66	74.8 ± 2.77	399.5 ± 10.02	n = 59	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

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

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
0.88 ± 0.27	39.60 ± 5.87	0.54 ± 0.27	0.60 ± 0.28	62.47 ± 9.32	n = 201	[-A-] All Methods – Results reported in ng/mL
0.79 ± 0.16	38.26 ± 4.72	0.47 ± 0.11	0.54 ± 0.10	59.41 ± 6.34	n = 23	[AB1] Abbott
0.98 ± 0.05	46.78 ± 1.68	0.60 ± 0.00	0.70 ± 0.00	75.24 ± 3.37	n = 15	[SAA] Beckman Coulter ACCESS
1.03 ± 0.06	48.32 ± 2.76	0.60 ± 0.06	0.76 ± 0.06	75.57 ± 4.41	n = 13	[BC-] Beckman Coulter DxC 600/DxI 800
1.00 ± 0.00	26.09 ± 4.86	1.00 ± 0.00	1.00 ± 0.00	27.85 ± 2.26	n = 6	[BS1] Biosite Diagnostics
0.72 ± 0.09	31.15 ± 1.80	0.31 ± 0.08	0.40 ± 0.09	47.67 ± 2.74	n = 23	[JJ1] Ortho Clinical Diagnostics
1.34 ± 0.10	41.97 ± 2.02	0.81 ± 0.09	0.89 ± 0.10	62.91 ± 2.87	n = 27	[RO3] Roche Elecsys/Modular E/e601/e411
0.87 ± 0.16	40.10 ± 1.99	0.28 ± 0.20	0.29 ± 0.18	62.70 ± 3.13	n = 32	[BY1] Siemens ADVIA/ADVIA Centaur
0.59 ± 0.25	40.95 ± 3.48	0.42 ± 0.27	0.48 ± 0.24	67.55 ± 6.11	n = 31	[DA5] Siemens Dimension
0.81 ± 0.15	35.07 ± 0.71	0.63 ± 0.18	0.65 ± 0.17	57.04 ± 1.20	n = 24	[DA6] Siemens Dimension LOCI
1.40 ± 0.73	42.59 ± 1.19	0.67 ± 0.31	0.78 ± 0.51	66.41 ± 4.22	n = 3	[DP5] Siemens Immulite
2.14 ± 1.60	42.34 ± 9.97	1.30 ± 1.14	1.39 ± 1.10	67.65 ± 16.48	n = 8	[-B-] All Methods – Results reported in U/L
0.00 ± 0.00	18.33 ± 5.82	0.00 ± 0.00	0.00 ± 0.00	20.18 ± 5.63	n = 4	[-P-] All Methods – Results reported as %
0.00 ± 0.00	20.00 ± 6.31	0.00 ± 0.00	0.00 ± 0.00	21.70 ± 5.97	n = 3	[HL1] Helena Laboratories

Summary of Participant Performance (Mean and Standard Deviation)

Lactate Dehydrogenase (U/L 37°C)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
90.1 ± 8.95	252.8 ± 26.44	120.1 ± 11.79	143.3 ± 13.29	274.3 ± 24.00	n = 312	[---] All Methods & Instruments
90.3 ± 8.90	253.2 ± 26.29	120.3 ± 11.75	143.5 ± 13.18	274.7 ± 23.81	n = 260	[-A-] Lactate to Pyruvate
242.8 ± 16.79	664.4 ± 22.23	355.7 ± 18.67	417.5 ± 23.27	707.8 ± 29.85	n = 47	[-B-] Pyruvate to Lactate
						<Instruments>
94.0 ± 5.74	259.1 ± 6.92	127.8 ± 8.72	153.5 ± 5.04	290.9 ± 10.04	n = 20	[ABJ] Abbott Architect c System
82.2 ± 3.82	226.5 ± 9.66	109.6 ± 4.54	129.8 ± 5.85	254.3 ± 10.51	n = 45	[OLC] Beckman Coulter AU Chemistry System
74.7 ± 0.82	202.5 ± 5.33	98.7 ± 3.89	115.8 ± 5.43	225.6 ± 7.65	n = 4	[BCS] Beckman Coulter CX
79.8 ± 4.62	215.7 ± 2.02	103.6 ± 4.28	124.6 ± 4.28	234.3 ± 2.65	n = 4	[BCX] Beckman Coulter LX-20
76.9 ± 2.68	212.9 ± 4.15	104.1 ± 3.74	122.9 ± 4.16	237.3 ± 6.59	n = 17	[BCG] Beckman Coulter UniCel DxC 600
80.1 ± 2.67	216.4 ± 6.41	105.3 ± 3.94	126.8 ± 3.92	243.0 ± 5.43	n = 16	[BCH] Beckman Coulter UniCel DxC 800
240.7 ± 14.92	666.4 ± 15.33	355.3 ± 9.94	430.2 ± 29.04	714.4 ± 27.25	n = 9	[JJE] Ortho Vitros 250/350/950
241.1 ± 15.60	665.5 ± 27.94	355.9 ± 24.22	415.8 ± 25.36	706.0 ± 32.45	n = 21	[JJF] Ortho Vitros 5,1FS
244.3 ± 18.77	659.5 ± 20.29	351.3 ± 16.06	411.4 ± 16.58	704.4 ± 24.99	n = 16	[JJG] Ortho Vitros 5600
94.4 ± 2.23	265.0 ± 6.58	122.1 ± 3.91	145.9 ± 2.27	279.3 ± 7.44	n = 16	[ROC] Roche cobas c501
96.6 ± 3.04	267.8 ± 2.46	124.5 ± 1.62	146.7 ± 2.77	284.3 ± 4.65	n = 5	[ROT] Roche Cobas INTEGRA 800
92.8 ± 2.68	263.4 ± 5.45	121.4 ± 5.17	145.6 ± 3.51	278.8 ± 7.93	n = 29	[ROD] Roche MODULAR D/P
95.7 ± 2.74	262.4 ± 7.31	128.5 ± 4.45	152.4 ± 4.78	286.6 ± 7.75	n = 20	[BYE] Siemens ADVIA 1800
91.2 ± 4.11	253.6 ± 9.68	123.0 ± 7.27	148.3 ± 6.73	275.8 ± 16.67	n = 3	[BYB] Siemens ADVIA 2400
93.2 ± 4.81	269.9 ± 8.24	126.8 ± 4.19	150.4 ± 5.55	289.0 ± 9.29	n = 12	[DUE] Siemens Dimension EXL
98.5 ± 6.85	275.2 ± 7.87	129.5 ± 4.60	152.4 ± 6.78	293.9 ± 11.80	n = 16	[DUR] Siemens Dimension RxL
96.0 ± 4.95	275.2 ± 6.93	129.3 ± 4.29	153.2 ± 6.07	293.4 ± 9.01	n = 37	[DUT] Siemens Dimension Vista
96.4 ± 5.34	272.9 ± 10.29	129.8 ± 3.98	149.6 ± 4.33	291.5 ± 9.57	n = 11	[DUX] Siemens Dimension Xpand
						<Reagents>
94.0 ± 5.74	259.1 ± 6.92	127.8 ± 8.72	153.5 ± 5.04	290.9 ± 10.04	n = 20	[AB1] Abbott
78.2 ± 3.29	214.3 ± 5.36	104.4 ± 3.85	124.6 ± 4.57	238.9 ± 6.95	n = 39	[BC1] Beckman Coulter
82.1 ± 3.85	226.4 ± 9.77	109.5 ± 4.54	129.7 ± 5.88	254.1 ± 10.64	n = 44	[OL1] Beckman Coulter AU Series
78.0 ± 6.31	219.9 ± 7.95	104.4 ± 6.23	123.6 ± 7.44	246.7 ± 9.49	n = 3	[JA1] JAS Diagnostics
241.8 ± 16.45	662.7 ± 22.59	354.1 ± 19.14	416.1 ± 23.06	706.9 ± 28.94	n = 46	[JJ1] Ortho Clinical Diagnostics
94.2 ± 2.09	265.1 ± 6.15	122.6 ± 3.91	146.3 ± 2.33	279.9 ± 7.15	n = 19	[RO4] Roche cobas c311/c501/c502/c701
92.8 ± 2.68	263.4 ± 5.45	121.4 ± 5.17	145.6 ± 3.51	278.8 ± 7.93	n = 29	[RO2] Roche Hitachi and Modular D/P
97.6 ± 2.98	268.5 ± 2.84	125.2 ± 2.16	147.7 ± 2.70	284.6 ± 4.81	n = 7	[RO1] Roche Integra and MIRA
94.8 ± 3.77	260.9 ± 8.60	127.5 ± 5.38	151.6 ± 5.47	284.4 ± 10.81	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
94.9 ± 7.85	273.9 ± 8.82	128.1 ± 6.73	151.1 ± 8.11	288.3 ± 14.80	n = 25	[DA5] Siemens Dimension
96.3 ± 4.93	274.5 ± 7.79	129.0 ± 4.17	152.1 ± 5.80	293.6 ± 9.49	n = 49	[DA8] Siemens Dimension IFCC Standardized

Summary of Participant Performance (Mean and Standard Deviation)

LDH Isoenzyme 1 (%)

Specimen: C71	Specimen: C72	Specimen: C73	Specimen: C74	Specimen: C75	Number	[Code] Instrument or Reagent System
33.9 ± 2.57	49.6 ± 1.47	30.8 ± 2.08	31.2 ± 2.91	14.8 ± 2.50	n = 8	[-P-] All Methods – Results reported as %
						<Instruments>
36.0 ± 1.76	50.2 ± 0.41	32.4 ± 2.91	33.8 ± 2.58	16.2 ± 3.21	n = 4	[HLS] Helena SPIFE
32.0 ± 1.14	48.5 ± 1.94	30.0 ± 0.75	29.2 ± 0.41	13.8 ± 1.27	n = 4	[SEE] Sebia Electrophoresis
						<Reagents>
36.0 ± 1.76	50.2 ± 0.41	32.4 ± 2.91	33.8 ± 2.58	16.2 ± 3.21	n = 4	[HL1] Helena Laboratories
32.0 ± 1.14	48.5 ± 1.94	30.0 ± 0.75	29.2 ± 0.41	13.8 ± 1.27	n = 4	[SE1] Sebia