Summary of Participant Performance (Mean and Standard Deviation)

Glucose (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
305.1 ± 8.67	87.1 ± 2.59	121.6 ± 3.73	51.6 ± 2.66	189.1 ± 5.28	n = 396	[---] All Methods & Instruments
						<Instruments>
308.7 ± 3.41	86.8 ± 1.33	120.6 ± 1.09	49.7 ± 0.96	186.6 ± 2.10	n = 10	[ABH] Abbott Architect
305.3 ± 9.62	87.8 ± 2.40	122.8 ± 3.36	51.2 ± 1.92	188.6 ± 5.37	n = 47	[OLC] Beckman Coulter AU Chemistry System
300.5 ± 8.64	86.6 ± 3.31	121.7 ± 3.15	50.1 ± 2.59	187.0 ± 5.15	n = 15	[BCS] Beckman Coulter CX
300.6 ± 7.35	85.5 ± 2.18	120.8 ± 3.37	49.2 ± 2.14	186.7 ± 4.53	n = 19	[BCX] Beckman Coulter LX-20
302.4 ± 3.06	85.3 ± 1.90	120.0 ± 1.77	49.5 ± 1.00	186.0 ± 2.71	n = 17	[BCG] Beckman Coulter UniCel DxC 600
303.3 ± 4.71	85.3 ± 1.55	119.8 ± 1.80	49.6 ± 1.17	186.3 ± 3.02	n = 22	[BCH] Beckman Coulter UniCel DxC 800
335.0 ± 5.98	103.5 ± 2.17	136.0 ± 2.88	62.0 ± 1.76	195.3 ± 5.23	n = 4	[HEB] HemoCue B-Glucose
345.0 ± 0.90	121.3 ± 0.51	154.1 ± 2.05	77.5 ± 1.86	209.7 ± 4.22	n = 3	[HEC] HemoCue Glucose 201
315.0 ± 3.12	87.9 ± 1.11	120.0 ± 1.12	49.5 ± 0.74	188.8 ± 1.65	n = 7	[IAA] i-STAT
311.9 ± 7.05	86.2 ± 1.61	118.4 ± 2.26	51.6 ± 2.22	194.1 ± 4.13	n = 15	[JJE] Ortho Vitros 250/350/950
311.7 ± 6.63	85.2 ± 2.48	116.2 ± 3.25	51.2 ± 2.61	191.3 ± 5.04	n = 28	[JJF] Ortho Vitros 5,1FS
307.2 ± 2.36	84.3 ± 0.51	114.4 ± 1.02	50.7 ± 1.37	188.3 ± 1.37	n = 3	[JJG] Ortho Vitros 5600
304.9 ± 6.78	86.5 ± 2.06	121.7 ± 2.12	51.0 ± 1.19	188.0 ± 3.77	n = 15	[ROC] Roche cobas c501
300.9 ± 8.54	87.0 ± 1.46	121.4 ± 2.36	50.0 ± 1.07	185.8 ± 5.59	n = 12	[ROT] Roche Cobas INTEGRA
302.1 ± 5.21	86.8 ± 1.72	121.4 ± 1.92	50.7 ± 1.11	187.3 ± 3.10	n = 40	[ROD] Roche MODULAR D/P
311.5 ± 7.44	89.7 ± 1.91	125.0 ± 2.64	52.2 ± 1.22	193.6 ± 4.13	n = 6	[BYA] Siemens ADVIA 1650
312.8 ± 5.87	89.6 ± 1.64	125.6 ± 2.21	52.6 ± 1.27	193.2 ± 3.68	n = 15	[BYE] Siemens ADVIA 1800
310.4 ± 1.02	88.7 ± 1.37	124.0 ± 1.80	51.7 ± 2.26	191.8 ± 2.36	n = 3	[BYB] Siemens ADVIA 2400
303.4 ± 7.48	88.7 ± 2.26	123.8 ± 3.69	54.6 ± 1.61	190.8 ± 5.34	n = 79	[DUD] Siemens Dimension
295.9 ± 6.45	86.3 ± 1.77	120.0 ± 1.77	53.1 ± 1.25	186.3 ± 4.83	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
309.4 ± 4.24	86.9 ± 1.32	120.8 ± 1.12	49.9 ± 1.01	186.8 ± 2.53	n = 11	[AB1] Abbott
301.7 ± 5.81	85.5 ± 1.96	120.3 ± 2.40	49.5 ± 1.59	186.3 ± 3.49	n = 68	[BC1] Beckman Coulter
305.7 ± 8.67	87.7 ± 2.29	122.8 ± 3.48	51.0 ± 1.76	188.5 ± 5.36	n = 44	[OL1] Beckman Coulter AU Series
303.5 ± 12.65	86.1 ± 4.41	121.3 ± 4.25	50.1 ± 3.24	189.6 ± 6.83	n = 7	[CR1] Carolina
339.8 ± 6.72	111.1 ± 9.99	143.6 ± 10.47	68.4 ± 8.88	201.0 ± 9.19	n = 7	[HE1] HemoCue
314.3 ± 2.75	87.6 ± 0.79	119.8 ± 0.73	49.3 ± 0.51	188.5 ± 1.46	n = 6	[IA1] i-STAT thermal cartridge
311.6 ± 7.01	85.6 ± 2.19	116.9 ± 3.01	51.2 ± 2.35	192.2 ± 4.88	n = 47	[JJ1] Ortho Clinical Diagnostics
304.9 ± 6.78	86.5 ± 2.06	121.7 ± 2.12	51.0 ± 1.19	188.0 ± 3.77	n = 15	[RO4] Roche cobas c501
302.1 ± 5.55	86.8 ± 1.76	121.4 ± 1.90	50.7 ± 1.15	187.4 ± 3.19	n = 42	[RO2] Roche Hitachi and Modular D/P
300.9 ± 8.54	87.0 ± 1.46	121.4 ± 2.36	50.0 ± 1.07	185.8 ± 5.59	n = 12	[RO1] Roche Integra and MIRA
312.5 ± 5.79	89.5 ± 1.61	125.4 ± 2.39	52.5 ± 1.31	193.3 ± 3.48	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
302.6 ± 7.78	88.4 ± 2.36	123.4 ± 3.81	54.4 ± 1.66	190.2 ± 5.45	n = 93	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Urea Nitrogen (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
19.9 ± 0.98	57.9 ± 2.10	27.5 ± 1.45	10.0 ± 0.81	16.5 ± 1.07	n = 377	[---] All Methods & Instruments
						<Instruments>
20.0 ± 0.00	57.8 ± 1.16	27.6 ± 0.56	10.0 ± 0.00	17.0 ± 0.00	n = 9	[ABH] Abbott Architect
20.5 ± 0.81	58.9 ± 2.27	28.2 ± 0.89	10.3 ± 0.53	17.0 ± 0.75	n = 44	[OLC] Beckman Coulter AU Chemistry System
20.6 ± 0.71	58.8 ± 0.99	28.4 ± 0.55	10.2 ± 0.53	17.0 ± 0.78	n = 15	[BCS] Beckman Coulter CX
18.5 ± 0.70	56.4 ± 1.12	26.6 ± 0.88	9.3 ± 0.90	15.6 ± 0.96	n = 19	[BCX] Beckman Coulter LX-20
20.4 ± 0.80	58.2 ± 1.20	28.1 ± 1.03	10.6 ± 0.56	17.1 ± 0.60	n = 16	[BCG] Beckman Coulter UniCel DxC 600
18.6 ± 0.93	55.7 ± 1.39	26.0 ± 0.99	9.1 ± 1.21	15.3 ± 0.99	n = 23	[BCH] Beckman Coulter UniCel DxC 800
20.4 ± 0.85	65.5 ± 1.24	26.3 ± 0.51	9.7 ± 0.59	17.2 ± 0.76	n = 7	[IAA] i-STAT
19.4 ± 0.64	56.0 ± 1.30	25.0 ± 0.69	9.0 ± 0.00	15.0 ± 0.00	n = 15	[JJE] Ortho Vitros 250/350/950
19.1 ± 0.38	56.4 ± 1.39	24.8 ± 0.61	8.8 ± 0.47	14.6 ± 0.65	n = 28	[JJF] Ortho Vitros 5,1FS
19.0 ± 0.90	55.7 ± 1.37	24.6 ± 1.02	8.7 ± 0.51	14.3 ± 0.51	n = 3	[JJG] Ortho Vitros 5600
19.8 ± 0.68	57.8 ± 1.96	27.5 ± 0.99	10.0 ± 0.00	16.5 ± 0.57	n = 15	[ROC] Roche cobas c501
19.3 ± 0.53	58.3 ± 1.30	27.3 ± 0.80	9.9 ± 0.70	16.2 ± 0.57	n = 11	[ROT] Roche Cobas INTEGRA
19.9 ± 0.61	57.9 ± 1.26	27.7 ± 0.68	10.2 ± 0.58	16.9 ± 0.41	n = 38	[ROD] Roche MODULAR D/P
20.6 ± 0.79	59.4 ± 0.79	28.0 ± 0.00	10.5 ± 0.57	17.0 ± 0.00	n = 6	[BYA] Siemens ADVIA 1650
20.6 ± 0.64	59.6 ± 0.88	28.5 ± 0.61	10.6 ± 0.55	17.0 ± 0.00	n = 15	[BYE] Siemens ADVIA 1800
20.7 ± 0.51	59.7 ± 1.37	28.7 ± 0.51	10.7 ± 0.51	17.0 ± 0.90	n = 3	[BYB] Siemens ADVIA 2400
20.0 ± 0.84	58.8 ± 2.04	28.0 ± 0.83	10.0 ± 0.65	16.7 ± 0.81	n = 79	[DUD] Siemens Dimension
20.0 ± 0.90	58.2 ± 2.09	27.9 ± 1.25	10.3 ± 0.61	17.0 ± 0.75	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
20.0 ± 0.00	57.6 ± 1.10	27.6 ± 0.55	10.0 ± 0.00	17.0 ± 0.00	n = 10	[AB1] Abbott
19.3 ± 1.31	57.0 ± 1.82	27.0 ± 1.46	9.7 ± 0.95	16.1 ± 1.20	n = 67	[BC1] Beckman Coulter
20.4 ± 0.82	59.0 ± 2.23	28.2 ± 0.90	10.3 ± 0.53	17.0 ± 0.74	n = 43	[OL1] Beckman Coulter AU Series
20.6 ± 1.82	57.6 ± 1.63	28.2 ± 0.73	10.5 ± 1.02	17.2 ± 0.73	n = 6	[CR1] Carolina
20.4 ± 0.79	65.5 ± 1.24	26.3 ± 0.51	9.7 ± 0.51	17.2 ± 0.73	n = 6	[IA1] i-STAT thermal cartridge
19.2 ± 0.58	56.2 ± 1.37	24.8 ± 0.69	9.0 ± 0.00	14.7 ± 0.63	n = 48	[JJ1] Ortho Clinical Diagnostics
19.8 ± 0.68	57.8 ± 1.96	27.5 ± 0.99	10.0 ± 0.00	16.5 ± 0.57	n = 15	[RO4] Roche cobas c501
19.9 ± 0.58	57.9 ± 1.23	27.7 ± 0.67	10.3 ± 0.58	16.9 ± 0.44	n = 40	[RO2] Roche Hitachi and Modular D/P
19.3 ± 0.53	58.3 ± 1.30	27.3 ± 0.80	9.9 ± 0.70	16.2 ± 0.57	n = 11	[RO1] Roche Integra and MIRA
20.6 ± 0.66	59.6 ± 0.90	28.4 ± 0.63	10.6 ± 0.56	17.0 ± 0.00	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
20.0 ± 0.86	58.7 ± 2.08	28.0 ± 0.90	10.0 ± 0.64	16.8 ± 0.80	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Creatinine (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
2.43 ± 0.11	3.33 ± 0.12	1.01 ± 0.13	1.06 ± 0.12	1.74 ± 0.16	n = 384	[---] All Methods & Instruments
2.43 ± 0.11	3.34 ± 0.13	1.02 ± 0.14	1.08 ± 0.12	1.76 ± 0.18	n = 140	[---] All IDMS Traceable Methods
2.43 ± 0.10	3.32 ± 0.12	1.01 ± 0.12	1.06 ± 0.12	1.74 ± 0.15	n = 241	[---] All Non-IDMS Traceable Methods
2.43 ± 0.10	3.30 ± 0.10	0.99 ± 0.11	1.05 ± 0.12	1.72 ± 0.14	n = 202	[-G-] Alkaline picrate/Jaffe
2.41 ± 0.11	3.29 ± 0.11	1.02 ± 0.16	1.10 ± 0.12	1.77 ± 0.20	n = 92	[-H-] Alkaline picrate/Jaffe - IDMS calibration
2.48 ± 0.08	3.58 ± 0.24	1.07 ± 0.12	1.07 ± 0.11	1.83 ± 0.16	n = 39	[-I-] Enzymatic
2.45 ± 0.10	3.44 ± 0.13	1.01 ± 0.10	1.04 ± 0.12	1.74 ± 0.14	n = 48	[-J-] Enzymatic - IDMS-traceable calibration
2.44 ± 0.10	3.30 ± 0.09	0.97 ± 0.23	1.06 ± 0.10	1.77 ± 0.14	n = 3	[-Z-] Other
						<Instruments>
2.43 ± 0.14	3.26 ± 0.11	1.02 ± 0.10	1.20 ± 0.11	1.89 ± 0.22	n = 9	[ABH] Abbott Architect
2.40 ± 0.08	3.30 ± 0.09	1.02 ± 0.05	1.11 ± 0.04	1.76 ± 0.06	n = 47	[OLC] Beckman Coulter AU Chemistry System
2.38 ± 0.06	3.35 ± 0.11	0.91 ± 0.11	1.08 ± 0.14	1.62 ± 0.08	n = 15	[BCS] Beckman Coulter CX
2.35 ± 0.09	3.27 ± 0.08	0.91 ± 0.09	0.95 ± 0.08	1.63 ± 0.08	n = 19	[BCX] Beckman Coulter LX-20
2.37 ± 0.07	3.23 ± 0.10	0.68 ± 0.11	0.93 ± 0.06	1.50 ± 0.08	n = 17	[BCG] Beckman Coulter UniCel DxC 600
2.32 ± 0.06	3.26 ± 0.09	0.88 ± 0.06	0.90 ± 0.00	1.58 ± 0.05	n = 23	[BCH] Beckman Coulter UniCel DxC 800
3.03 ± 0.07	4.12 ± 0.07	1.22 ± 0.07	1.05 ± 0.06	2.05 ± 0.06	n = 6	[IAA] i-STAT
2.50 ± 0.00	3.52 ± 0.09	1.05 ± 0.06	1.08 ± 0.04	1.81 ± 0.08	n = 15	[JJE] Ortho Vitros 250/350/950
2.51 ± 0.05	3.55 ± 0.07	1.08 ± 0.08	1.11 ± 0.08	1.82 ± 0.06	n = 28	[JJF] Ortho Vitros 5,1FS
2.47 ± 0.05	3.53 ± 0.05	1.10 ± 0.09	1.17 ± 0.05	1.87 ± 0.05	n = 3	[JJG] Ortho Vitros 5600
2.35 ± 0.11	3.31 ± 0.10	0.89 ± 0.15	1.02 ± 0.10	1.65 ± 0.13	n = 16	[ROC] Roche cobas c501
2.35 ± 0.10	3.32 ± 0.12	0.94 ± 0.06	0.96 ± 0.10	1.59 ± 0.11	n = 12	[ROT] Roche Cobas INTEGRA
2.44 ± 0.10	3.35 ± 0.09	1.06 ± 0.12	1.11 ± 0.14	1.81 ± 0.16	n = 38	[ROD] Roche MODULAR D/P
2.52 ± 0.06	3.31 ± 0.07	1.19 ± 0.04	1.24 ± 0.05	2.03 ± 0.14	n = 6	[BYA] Siemens ADVIA 1650
2.55 ± 0.09	3.30 ± 0.09	1.21 ± 0.06	1.22 ± 0.04	2.10 ± 0.09	n = 15	[BYE] Siemens ADVIA 1800
2.47 ± 0.05	3.22 ± 0.05	1.22 ± 0.05	1.19 ± 0.02	2.06 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
2.47 ± 0.07	3.32 ± 0.08	1.01 ± 0.06	1.04 ± 0.07	1.75 ± 0.07	n = 79	[DUD] Siemens Dimension
2.50 ± 0.07	3.38 ± 0.10	1.04 ± 0.06	1.09 ± 0.08	1.75 ± 0.08	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
2.41 ± 0.13	3.25 ± 0.11	1.00 ± 0.09	1.20 ± 0.10	1.85 ± 0.21	n = 11	[AB1] Abbott
2.35 ± 0.07	3.27 ± 0.10	0.85 ± 0.13	0.94 ± 0.07	1.58 ± 0.09	n = 69	[BC1] Beckman Coulter
2.39 ± 0.08	3.31 ± 0.09	1.02 ± 0.04	1.11 ± 0.04	1.77 ± 0.06	n = 44	[OL1] Beckman Coulter AU Series
2.40 ± 0.00	3.27 ± 0.11	0.93 ± 0.07	1.20 ± 0.06	1.67 ± 0.08	n = 6	[CR1] Carolina
3.03 ± 0.07	4.12 ± 0.07	1.22 ± 0.07	1.05 ± 0.06	2.05 ± 0.06	n = 6	[IA1] i-STAT thermal cartridge
2.50 ± 0.05	3.54 ± 0.08	1.07 ± 0.08	1.10 ± 0.08	1.82 ± 0.07	n = 48	[JJ1] Ortho Clinical Diagnostics
2.35 ± 0.11	3.31 ± 0.10	0.89 ± 0.15	1.02 ± 0.10	1.65 ± 0.13	n = 16	[RO4] Roche cobas c501
2.44 ± 0.10	3.35 ± 0.09	1.06 ± 0.12	1.11 ± 0.14	1.81 ± 0.17	n = 41	[RO2] Roche Hitachi and Modular D/P
2.35 ± 0.10	3.32 ± 0.12	0.94 ± 0.06	0.96 ± 0.10	1.59 ± 0.11	n = 12	[RO1] Roche Integra and MIRA
2.53 ± 0.07	3.29 ± 0.08	1.21 ± 0.05	1.22 ± 0.05	2.09 ± 0.09	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
2.47 ± 0.07	3.33 ± 0.09	1.02 ± 0.06	1.04 ± 0.07	1.75 ± 0.07	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Glomerular filtration rate (mL/min/1.73 m²)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
33.0 ± 2.20	23.0 ± 1.62	93.6 ± 19.60	86.5 ± 14.37	48.4 ± 5.62	n = 265	[---] All Methods & Instruments
32.3 ± 1.85	22.4 ± 1.49	90.3 ± 19.10	84.1 ± 14.45	47.1 ± 5.50	n = 127	[-A-] IDMS-traceable MDRD Study Equation
33.7 ± 2.14	23.5 ± 1.37	93.4 ± 16.92	86.9 ± 12.74	49.5 ± 5.23	n = 124	[-B-] Original MDRD Study Equation (4-variable)
36.0 ± 1.80	23.6 ± 1.02	93.1 ± 25.29	91.6 ± 11.95	50.5 ± 3.63	n = 3	[-C-] Original MDRD Study Equation (6-variable)
49.0 ± 15.97	36.2 ± 12.87	141.1 ± 24.44	123.3 ± 18.36	71.9 ± 13.45	n = 4	[-D-] Cockcroft-Gault Equation

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

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Method
32 (27-37)	22 (19-26)	88 (65-110)	82 (61-103)	47 (39-54)	IDMS-traceable MDRD Study Equation
34 (29-40)	24 (20-28)	94 (70-118)	89 (66-112)	50 (42-58)	Original MDRD Study Equation
66 (56-83)	48 (40-56)	159 (118-199)	151 (113-189)	92 (69-115)	Cockcroft-Gault Equation
35 (29-41)	24 (20-28)	100 (75-126)	94 (70-117)	52 (44-60)	CKD-EPI Equation

Laboratories were asked to report Estimated Glomerular Filtration Rate for samples C36-C40 for a 27-year-old non-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 for specimens C38 and C39 as > 60 mL/min/1.73 m2. These data were removed from the calculations of mean and SD for those specimens since their inclusion would have skewed results. Participant results for specimens C38 and C39 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: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
6.10 ± 0.20	7.96 ± 0.30	2.90 ± 0.17	4.23 ± 0.19	9.23 ± 0.39	n = 335	[---] All Methods & Instruments
						<Instruments>
6.40 ± 0.08	8.36 ± 0.07	3.05 ± 0.06	4.56 ± 0.07	9.82 ± 0.10	n = 8	[ABH] Abbott Architect
6.45 ± 0.14	8.60 ± 0.19	3.28 ± 0.09	4.72 ± 0.12	10.14 ± 0.22	n = 42	[OLC] Beckman Coulter AU Chemistry System
6.00 ± 0.10	7.85 ± 0.15	3.00 ± 0.00	4.14 ± 0.14	8.96 ± 0.23	n = 12	[BCS] Beckman Coulter CX
6.06 ± 0.10	7.85 ± 0.17	3.00 ± 0.00	4.20 ± 0.08	8.86 ± 0.18	n = 16	[BCX] Beckman Coulter LX-20
6.02 ± 0.06	7.84 ± 0.10	2.92 ± 0.06	4.10 ± 0.00	8.90 ± 0.11	n = 14	[BCG] Beckman Coulter UniCel DxC 600
6.02 ± 0.12	7.83 ± 0.14	2.93 ± 0.07	4.09 ± 0.10	8.88 ± 0.18	n = 21	[BCH] Beckman Coulter UniCel DxC 800
6.10 ± 0.15	7.94 ± 0.17	2.74 ± 0.07	4.18 ± 0.11	9.25 ± 0.23	n = 13	[JJE] Ortho Vitros 250/350/950
6.10 ± 0.14	7.92 ± 0.16	2.73 ± 0.08	4.16 ± 0.14	9.25 ± 0.20	n = 28	[JJF] Ortho Vitros 5,1FS
6.10 ± 0.09	7.91 ± 0.20	2.67 ± 0.05	4.10 ± 0.09	9.25 ± 0.19	n = 3	[JJG] Ortho Vitros 5600
6.13 ± 0.16	8.03 ± 0.23	2.82 ± 0.09	4.20 ± 0.12	9.38 ± 0.18	n = 14	[ROC] Roche cobas c501
6.05 ± 0.17	7.97 ± 0.17	2.80 ± 0.00	4.17 ± 0.09	9.27 ± 0.24	n = 10	[ROT] Roche Cobas INTEGRA
5.99 ± 0.10	7.95 ± 0.15	2.78 ± 0.06	4.14 ± 0.08	9.25 ± 0.18	n = 36	[ROD] Roche MODULAR D/P
6.18 ± 0.18	8.05 ± 0.21	2.83 ± 0.05	4.21 ± 0.14	9.30 ± 0.27	n = 6	[BYA] Siemens ADVIA 1650
6.10 ± 0.14	8.04 ± 0.15	2.85 ± 0.07	4.25 ± 0.13	9.31 ± 0.19	n = 15	[BYE] Siemens ADVIA 1800
6.17 ± 0.14	8.22 ± 0.15	2.87 ± 0.14	4.24 ± 0.10	9.40 ± 0.27	n = 3	[BYB] Siemens ADVIA 2400
6.07 ± 0.18	7.81 ± 0.24	2.91 ± 0.11	4.26 ± 0.12	9.16 ± 0.22	n = 70	[DUD] Siemens Dimension
5.88 ± 0.14	7.61 ± 0.14	2.97 ± 0.09	4.29 ± 0.11	8.87 ± 0.09	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
6.42 ± 0.09	8.37 ± 0.09	3.06 ± 0.07	4.56 ± 0.09	9.83 ± 0.13	n = 9	[AB1] Abbott
6.02 ± 0.10	7.83 ± 0.14	2.95 ± 0.07	4.13 ± 0.10	8.88 ± 0.16	n = 57	[BC1] Beckman Coulter
6.45 ± 0.14	8.61 ± 0.18	3.28 ± 0.08	4.73 ± 0.12	10.14 ± 0.22	n = 41	[OL1] Beckman Coulter AU Series
6.14 ± 0.18	7.93 ± 0.14	3.00 ± 0.06	4.06 ± 0.06	9.10 ± 0.19	n = 6	[CR1] Carolina
6.10 ± 0.14	7.93 ± 0.17	2.73 ± 0.08	4.16 ± 0.13	9.25 ± 0.21	n = 44	[JJ1] Ortho Clinical Diagnostics
6.13 ± 0.16	8.03 ± 0.23	2.82 ± 0.09	4.20 ± 0.12	9.38 ± 0.18	n = 14	[RO4] Roche cobas c501
6.00 ± 0.11	7.96 ± 0.15	2.78 ± 0.06	4.14 ± 0.09	9.26 ± 0.18	n = 38	[RO2] Roche Hitachi and Modular D/P
6.05 ± 0.17	7.97 ± 0.17	2.80 ± 0.00	4.17 ± 0.09	9.27 ± 0.24	n = 10	[RO1] Roche Integra and MIRA
6.13 ± 0.15	8.06 ± 0.17	2.84 ± 0.08	4.24 ± 0.12	9.31 ± 0.22	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
6.05 ± 0.19	7.78 ± 0.24	2.92 ± 0.11	4.27 ± 0.12	9.11 ± 0.24	n = 82	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Bilirubin (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
1.97 ± 0.17	1.27 ± 0.16	4.21 ± 0.28	0.65 ± 0.15	2.11 ± 0.26	n = 363	[---] All Methods & Instruments
						<Instruments>
1.99 ± 0.18	1.26 ± 0.11	4.13 ± 0.35	0.59 ± 0.06	2.03 ± 0.22	n = 8	[ABH] Abbott Architect
2.04 ± 0.12	1.36 ± 0.10	4.13 ± 0.23	0.75 ± 0.06	2.09 ± 0.18	n = 45	[OLC] Beckman Coulter AU Chemistry System
2.11 ± 0.19	1.37 ± 0.18	4.40 ± 0.19	0.88 ± 0.17	2.39 ± 0.29	n = 12	[BCS] Beckman Coulter CX
2.18 ± 0.14	1.47 ± 0.16	4.41 ± 0.24	0.85 ± 0.13	2.40 ± 0.23	n = 19	[BCX] Beckman Coulter LX-20
2.22 ± 0.23	1.51 ± 0.19	4.49 ± 0.25	0.85 ± 0.15	2.46 ± 0.24	n = 16	[BCG] Beckman Coulter UniCel DxC 600
2.15 ± 0.16	1.43 ± 0.15	4.41 ± 0.23	0.81 ± 0.12	2.40 ± 0.16	n = 23	[BCH] Beckman Coulter UniCel DxC 800
1.92 ± 0.08	1.31 ± 0.07	4.25 ± 0.13	0.74 ± 0.13	2.03 ± 0.09	n = 14	[JJE] Ortho Vitros 250/350/950
1.85 ± 0.14	1.17 ± 0.12	4.08 ± 0.21	0.58 ± 0.10	1.92 ± 0.14	n = 28	[JJF] Ortho Vitros 5,1FS
1.83 ± 0.05	1.17 ± 0.05	4.13 ± 0.05	0.57 ± 0.05	1.97 ± 0.05	n = 3	[JJG] Ortho Vitros 5600
1.81 ± 0.09	1.09 ± 0.09	3.87 ± 0.21	0.47 ± 0.06	1.82 ± 0.20	n = 14	[ROC] Roche cobas c501
1.78 ± 0.17	1.10 ± 0.11	3.76 ± 0.28	0.50 ± 0.07	1.81 ± 0.23	n = 11	[ROT] Roche Cobas INTEGRA
1.86 ± 0.09	1.16 ± 0.08	4.00 ± 0.20	0.54 ± 0.07	1.94 ± 0.17	n = 38	[ROD] Roche MODULAR D/P
2.03 ± 0.05	1.30 ± 0.00	4.34 ± 0.12	0.63 ± 0.05	2.24 ± 0.06	n = 6	[BYA] Siemens ADVIA 1650
2.00 ± 0.05	1.30 ± 0.00	4.36 ± 0.09	0.66 ± 0.06	2.22 ± 0.07	n = 15	[BYE] Siemens ADVIA 1800
2.07 ± 0.05	1.33 ± 0.05	4.53 ± 0.05	0.67 ± 0.05	2.33 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
1.95 ± 0.10	1.24 ± 0.08	4.25 ± 0.16	0.61 ± 0.07	2.18 ± 0.11	n = 79	[DUD] Siemens Dimension
1.94 ± 0.10	1.23 ± 0.14	4.18 ± 0.18	0.60 ± 0.00	2.15 ± 0.19	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
2.02 ± 0.18	1.27 ± 0.11	4.17 ± 0.31	0.59 ± 0.05	2.06 ± 0.21	n = 9	[AB1] Abbott
2.17 ± 0.18	1.47 ± 0.17	4.44 ± 0.22	0.85 ± 0.14	2.43 ± 0.21	n = 65	[BC1] Beckman Coulter
2.04 ± 0.12	1.36 ± 0.10	4.14 ± 0.22	0.75 ± 0.06	2.09 ± 0.18	n = 44	[OL1] Beckman Coulter AU Series
2.06 ± 0.11	1.26 ± 0.06	4.20 ± 0.19	0.74 ± 0.11	2.17 ± 0.24	n = 5	[CR1] Carolina
1.87 ± 0.13	1.21 ± 0.13	4.15 ± 0.20	0.63 ± 0.15	1.96 ± 0.14	n = 47	[JJ1] Ortho Clinical Diagnostics
1.81 ± 0.09	1.09 ± 0.09	3.87 ± 0.21	0.47 ± 0.06	1.82 ± 0.20	n = 14	[RO4] Roche cobas c501
1.85 ± 0.09	1.15 ± 0.08	4.00 ± 0.21	0.53 ± 0.07	1.95 ± 0.17	n = 40	[RO2] Roche Hitachi and Modular D/P
1.78 ± 0.17	1.10 ± 0.11	3.76 ± 0.28	0.50 ± 0.07	1.81 ± 0.23	n = 11	[RO1] Roche Integra and MIRA
2.01 ± 0.06	1.30 ± 0.00	4.36 ± 0.13	0.65 ± 0.06	2.23 ± 0.08	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
1.95 ± 0.10	1.24 ± 0.09	4.24 ± 0.16	0.60 ± 0.07	2.18 ± 0.12	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Phosphorus (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
4.57 ± 0.20	3.21 ± 0.15	2.45 ± 0.14	7.88 ± 0.27	3.82 ± 0.18	n = 339	[---] All Methods & Instruments
						<Instruments>
4.50 ± 0.09	3.17 ± 0.11	2.40 ± 0.09	7.79 ± 0.06	3.75 ± 0.07	n = 8	[ABH] Abbott Architect
4.39 ± 0.11	3.11 ± 0.10	2.39 ± 0.08	7.62 ± 0.21	3.70 ± 0.09	n = 43	[OLC] Beckman Coulter AU Chemistry System
4.60 ± 0.18	3.19 ± 0.09	2.50 ± 0.12	8.03 ± 0.27	3.93 ± 0.12	n = 11	[BCS] Beckman Coulter CX
4.69 ± 0.11	3.30 ± 0.08	2.52 ± 0.06	8.03 ± 0.19	3.91 ± 0.14	n = 17	[BCX] Beckman Coulter LX-20
4.66 ± 0.16	3.23 ± 0.13	2.56 ± 0.14	7.94 ± 0.24	3.82 ± 0.17	n = 14	[BCG] Beckman Coulter UniCel DxC 600
4.74 ± 0.07	3.31 ± 0.04	2.52 ± 0.06	8.07 ± 0.09	3.91 ± 0.04	n = 21	[BCH] Beckman Coulter UniCel DxC 800
4.90 ± 0.09	3.48 ± 0.11	2.70 ± 0.10	8.27 ± 0.13	4.26 ± 0.06	n = 13	[JJE] Ortho Vitros 250/350/950
4.90 ± 0.11	3.47 ± 0.10	2.68 ± 0.12	8.28 ± 0.20	4.25 ± 0.11	n = 28	[JJF] Ortho Vitros 5,1FS
4.83 ± 0.05	3.40 ± 0.00	2.60 ± 0.00	8.27 ± 0.05	4.16 ± 0.10	n = 3	[JJG] Ortho Vitros 5600
4.53 ± 0.15	3.17 ± 0.11	2.44 ± 0.09	7.76 ± 0.22	3.79 ± 0.13	n = 15	[ROC] Roche cobas c501
4.50 ± 0.13	3.19 ± 0.09	2.41 ± 0.07	7.88 ± 0.21	3.80 ± 0.10	n = 10	[ROT] Roche Cobas INTEGRA
4.49 ± 0.13	3.14 ± 0.10	2.41 ± 0.10	7.78 ± 0.18	3.76 ± 0.12	n = 36	[ROD] Roche MODULAR D/P
4.56 ± 0.08	3.22 ± 0.07	2.45 ± 0.06	7.89 ± 0.12	3.82 ± 0.07	n = 6	[BYA] Siemens ADVIA 1650
4.57 ± 0.10	3.20 ± 0.06	2.45 ± 0.06	7.89 ± 0.14	3.83 ± 0.09	n = 15	[BYE] Siemens ADVIA 1800
4.60 ± 0.09	3.13 ± 0.05	2.43 ± 0.05	7.87 ± 0.14	3.73 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
4.54 ± 0.11	3.18 ± 0.10	2.38 ± 0.09	7.81 ± 0.16	3.76 ± 0.10	n = 74	[DUD] Siemens Dimension
4.35 ± 0.14	3.04 ± 0.11	2.24 ± 0.09	7.71 ± 0.15	3.64 ± 0.08	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
4.49 ± 0.12	3.16 ± 0.10	2.40 ± 0.08	7.79 ± 0.05	3.76 ± 0.07	n = 9	[AB1] Abbott
4.70 ± 0.11	3.29 ± 0.09	2.52 ± 0.08	8.05 ± 0.16	3.90 ± 0.12	n = 58	[BC1] Beckman Coulter
4.39 ± 0.11	3.11 ± 0.11	2.39 ± 0.08	7.62 ± 0.21	3.70 ± 0.09	n = 42	[OL1] Beckman Coulter AU Series
4.48 ± 0.26	3.14 ± 0.11	2.46 ± 0.19	7.78 ± 0.33	3.92 ± 0.21	n = 5	[CR1] Carolina
4.89 ± 0.10	3.47 ± 0.10	2.68 ± 0.11	8.27 ± 0.17	4.25 ± 0.10	n = 44	[JJ1] Ortho Clinical Diagnostics
4.53 ± 0.15	3.17 ± 0.11	2.44 ± 0.09	7.76 ± 0.22	3.79 ± 0.13	n = 15	[RO4] Roche cobas c501
4.49 ± 0.12	3.14 ± 0.10	2.41 ± 0.10	7.78 ± 0.17	3.76 ± 0.12	n = 38	[RO2] Roche Hitachi and Modular D/P
4.50 ± 0.13	3.19 ± 0.09	2.41 ± 0.07	7.88 ± 0.21	3.80 ± 0.10	n = 10	[RO1] Roche Integra and MIRA
4.57 ± 0.09	3.19 ± 0.07	2.44 ± 0.06	7.88 ± 0.14	3.81 ± 0.08	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
4.52 ± 0.13	3.17 ± 0.11	2.37 ± 0.11	7.79 ± 0.16	3.74 ± 0.11	n = 86	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Calcium (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
10.75 ± 0.32	8.39 ± 0.23	7.93 ± 0.22	9.09 ± 0.24	13.44 ± 0.39	n = 371	[---] All Methods & Instruments
						<Instruments>
10.94 ± 0.11	8.46 ± 0.07	7.95 ± 0.10	9.11 ± 0.16	13.63 ± 0.15	n = 8	[ABH] Abbott Architect
10.72 ± 0.21	8.40 ± 0.16	7.87 ± 0.18	9.07 ± 0.16	13.29 ± 0.29	n = 45	[OLC] Beckman Coulter AU Chemistry System
10.72 ± 0.24	8.43 ± 0.18	7.96 ± 0.23	9.02 ± 0.24	13.33 ± 0.37	n = 15	[BCS] Beckman Coulter CX
10.67 ± 0.16	8.40 ± 0.09	7.91 ± 0.08	9.00 ± 0.11	13.14 ± 0.16	n = 19	[BCX] Beckman Coulter LX-20
10.55 ± 0.18	8.30 ± 0.14	7.82 ± 0.12	8.88 ± 0.13	13.07 ± 0.14	n = 17	[BCG] Beckman Coulter UniCel DxC 600
10.69 ± 0.15	8.37 ± 0.11	7.91 ± 0.10	8.97 ± 0.11	13.15 ± 0.18	n = 23	[BCH] Beckman Coulter UniCel DxC 800
11.18 ± 0.28	8.63 ± 0.22	8.21 ± 0.24	9.30 ± 0.23	13.74 ± 0.34	n = 15	[JJE] Ortho Vitros 250/350/950
11.10 ± 0.22	8.57 ± 0.19	8.16 ± 0.18	9.22 ± 0.19	13.59 ± 0.23	n = 28	[JJF] Ortho Vitros 5,1FS
11.05 ± 0.19	8.57 ± 0.14	8.07 ± 0.05	9.23 ± 0.05	13.72 ± 0.15	n = 3	[JJG] Ortho Vitros 5600
11.12 ± 0.29	8.51 ± 0.24	8.06 ± 0.19	9.34 ± 0.24	14.22 ± 0.33	n = 15	[ROC] Roche cobas c501
10.80 ± 0.25	8.31 ± 0.17	7.89 ± 0.16	9.27 ± 0.20	13.98 ± 0.38	n = 11	[ROT] Roche Cobas INTEGRA
10.89 ± 0.24	8.47 ± 0.20	7.96 ± 0.19	9.21 ± 0.24	13.66 ± 0.33	n = 38	[ROD] Roche MODULAR D/P
10.93 ± 0.31	8.55 ± 0.36	8.02 ± 0.15	9.17 ± 0.14	13.87 ± 0.42	n = 3	[HIJ] Roche/Hitachi 917
10.94 ± 0.27	8.54 ± 0.28	8.04 ± 0.28	9.27 ± 0.22	13.58 ± 0.25	n = 6	[BYA] Siemens ADVIA 1650
10.94 ± 0.22	8.58 ± 0.25	8.02 ± 0.23	9.27 ± 0.20	13.56 ± 0.11	n = 15	[BYE] Siemens ADVIA 1800
10.97 ± 0.23	8.32 ± 0.32	7.89 ± 0.37	9.12 ± 0.32	13.32 ± 0.50	n = 3	[BYB] Siemens ADVIA 2400
10.52 ± 0.21	8.23 ± 0.20	7.81 ± 0.20	9.00 ± 0.21	13.42 ± 0.30	n = 79	[DUD] Siemens Dimension
10.50 ± 0.31	8.16 ± 0.18	7.79 ± 0.26	8.83 ± 0.28	13.19 ± 0.32	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
10.96 ± 0.12	8.47 ± 0.09	7.99 ± 0.15	9.14 ± 0.21	13.63 ± 0.15	n = 9	[AB1] Abbott
10.64 ± 0.19	8.37 ± 0.13	7.89 ± 0.13	8.96 ± 0.14	13.13 ± 0.17	n = 69	[BC1] Beckman Coulter
10.72 ± 0.20	8.39 ± 0.15	7.86 ± 0.17	9.07 ± 0.15	13.28 ± 0.29	n = 44	[OL1] Beckman Coulter AU Series
10.84 ± 0.14	8.52 ± 0.17	8.02 ± 0.25	9.11 ± 0.29	13.45 ± 0.27	n = 5	[CR1] Carolina
10.55 ± 0.54	8.56 ± 0.39	8.15 ± 0.72	9.19 ± 0.61	13.15 ± 0.27	n = 3	[GZ1] Genzyme
11.12 ± 0.24	8.59 ± 0.20	8.17 ± 0.19	9.25 ± 0.20	13.63 ± 0.27	n = 47	[JJ1] Ortho Clinical Diagnostics
11.15 ± 0.25	8.52 ± 0.25	8.05 ± 0.20	9.37 ± 0.22	14.23 ± 0.29	n = 14	[RO4] Roche cobas c501
10.90 ± 0.24	8.47 ± 0.22	7.96 ± 0.17	9.21 ± 0.22	13.68 ± 0.33	n = 39	[RO2] Roche Hitachi and Modular D/P
10.80 ± 0.25	8.31 ± 0.17	7.89 ± 0.16	9.27 ± 0.20	13.98 ± 0.38	n = 11	[RO1] Roche Integra and MIRA
10.95 ± 0.22	8.55 ± 0.26	8.03 ± 0.24	9.28 ± 0.21	13.57 ± 0.20	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
10.51 ± 0.22	8.22 ± 0.20	7.81 ± 0.21	8.97 ± 0.23	13.39 ± 0.32	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Magnesium (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
1.24 ± 0.15	2.56 ± 0.13	1.96 ± 0.10	4.39 ± 0.18	1.68 ± 0.11	n = 332	[---] All Methods & Instruments
						<Instruments>
1.50 ± 0.00	2.67 ± 0.13	1.90 ± 0.08	4.26 ± 0.11	1.65 ± 0.07	n = 7	[ABH] Abbott Architect
1.25 ± 0.07	2.53 ± 0.09	1.93 ± 0.07	4.36 ± 0.16	1.64 ± 0.06	n = 41	[OLC] Beckman Coulter AU Chemistry System
1.36 ± 0.08	2.69 ± 0.13	2.02 ± 0.07	4.54 ± 0.18	1.74 ± 0.10	n = 11	[BCS] Beckman Coulter CX
1.34 ± 0.06	2.69 ± 0.10	2.01 ± 0.08	4.50 ± 0.15	1.77 ± 0.08	n = 18	[BCX] Beckman Coulter LX-20
1.30 ± 0.00	2.68 ± 0.07	1.98 ± 0.07	4.49 ± 0.15	1.74 ± 0.06	n = 16	[BCG] Beckman Coulter UniCel DxC 600
1.32 ± 0.05	2.64 ± 0.08	2.00 ± 0.06	4.49 ± 0.11	1.75 ± 0.07	n = 22	[BCH] Beckman Coulter UniCel DxC 800
1.16 ± 0.07	2.52 ± 0.10	1.98 ± 0.06	4.19 ± 0.18	1.68 ± 0.06	n = 8	[JJE] Ortho Vitros 250/350/950
1.14 ± 0.06	2.48 ± 0.08	1.99 ± 0.07	4.13 ± 0.11	1.65 ± 0.06	n = 28	[JJF] Ortho Vitros 5,1FS
1.29 ± 0.07	2.54 ± 0.08	1.99 ± 0.06	4.25 ± 0.10	1.69 ± 0.05	n = 14	[ROC] Roche cobas c501
1.27 ± 0.07	2.55 ± 0.07	1.97 ± 0.09	4.27 ± 0.20	1.69 ± 0.07	n = 10	[ROT] Roche Cobas INTEGRA
1.29 ± 0.06	2.61 ± 0.07	1.97 ± 0.06	4.43 ± 0.11	1.70 ± 0.00	n = 34	[ROD] Roche MODULAR D/P
1.30 ± 0.00	2.63 ± 0.05	1.73 ± 0.67	4.37 ± 0.05	1.76 ± 0.10	n = 3	[HIJ] Roche/Hitachi 917
1.40 ± 0.06	2.62 ± 0.07	2.06 ± 0.08	4.41 ± 0.11	1.90 ± 0.00	n = 6	[BYA] Siemens ADVIA 1650
1.38 ± 0.08	2.60 ± 0.00	2.01 ± 0.05	4.42 ± 0.09	1.91 ± 0.07	n = 15	[BYE] Siemens ADVIA 1800
1.50 ± 0.09	2.70 ± 0.09	2.07 ± 0.05	4.53 ± 0.05	1.97 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
1.05 ± 0.07	2.46 ± 0.08	1.87 ± 0.08	4.40 ± 0.13	1.56 ± 0.08	n = 75	[DUD] Siemens Dimension
1.30 ± 0.00	2.72 ± 0.07	2.12 ± 0.05	4.61 ± 0.09	1.76 ± 0.07	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
1.50 ± 0.00	2.69 ± 0.13	1.91 ± 0.09	4.28 ± 0.11	1.67 ± 0.09	n = 8	[AB1] Abbott
1.32 ± 0.05	2.67 ± 0.09	2.00 ± 0.07	4.51 ± 0.13	1.75 ± 0.07	n = 62	[BC1] Beckman Coulter
1.25 ± 0.07	2.53 ± 0.09	1.93 ± 0.07	4.37 ± 0.15	1.64 ± 0.06	n = 40	[OL1] Beckman Coulter AU Series
1.67 ± 0.30	2.76 ± 0.19	1.96 ± 0.14	4.08 ± 0.30	1.86 ± 0.20	n = 5	[CR1] Carolina
1.15 ± 0.07	2.49 ± 0.08	1.99 ± 0.06	4.14 ± 0.11	1.66 ± 0.06	n = 38	[JJ1] Ortho Clinical Diagnostics
1.29 ± 0.07	2.54 ± 0.08	1.99 ± 0.06	4.25 ± 0.10	1.69 ± 0.05	n = 14	[RO4] Roche cobas c501
1.29 ± 0.06	2.61 ± 0.07	1.98 ± 0.06	4.42 ± 0.11	1.70 ± 0.00	n = 37	[RO2] Roche Hitachi and Modular D/P
1.27 ± 0.07	2.55 ± 0.06	1.96 ± 0.08	4.27 ± 0.20	1.68 ± 0.06	n = 10	[RO1] Roche Integra and MIRA
1.40 ± 0.08	2.62 ± 0.07	2.03 ± 0.07	4.44 ± 0.11	1.91 ± 0.08	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
1.07 ± 0.11	2.48 ± 0.11	1.89 ± 0.11	4.42 ± 0.15	1.59 ± 0.11	n = 88	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Iron (µg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
117.3 ± 5.52	99.7 ± 4.14	83.0 ± 12.43	118.4 ± 13.01	129.0 ± 20.34	n = 271	[---] All Methods & Instruments
						<Instruments>
108.8 ± 2.05	93.4 ± 2.09	34.4 ± 6.05	73.0 ± 3.91	56.2 ± 6.44	n = 8	[ABH] Abbott Architect
121.3 ± 3.66	103.1 ± 3.89	84.0 ± 3.74	121.5 ± 4.18	130.5 ± 3.92	n = 40	[OLC] Beckman Coulter AU Chemistry System
113.1 ± 6.63	99.5 ± 3.20	62.0 ± 1.78	98.1 ± 3.45	92.0 ± 5.46	n = 6	[BCS] Beckman Coulter CX
116.2 ± 3.97	97.8 ± 1.85	62.1 ± 5.92	98.4 ± 4.48	91.2 ± 4.02	n = 14	[BCX] Beckman Coulter LX-20
118.5 ± 4.25	101.0 ± 3.48	62.3 ± 4.68	98.8 ± 3.78	93.2 ± 3.80	n = 9	[BCG] Beckman Coulter UniCel DxC 600
116.5 ± 3.58	99.0 ± 3.25	61.2 ± 1.83	98.4 ± 3.86	90.7 ± 4.44	n = 17	[BCH] Beckman Coulter UniCel DxC 800
119.9 ± 3.36	97.1 ± 3.83	98.5 ± 3.10	140.7 ± 8.10	154.7 ± 6.64	n = 5	[JJE] Ortho Vitros 250/350/950
127.9 ± 5.36	103.7 ± 3.36	95.9 ± 5.31	139.0 ± 6.02	151.3 ± 7.50	n = 25	[JJF] Ortho Vitros 5,1FS
126.6 ± 3.87	101.2 ± 2.36	95.4 ± 4.72	138.7 ± 8.64	151.5 ± 4.61	n = 3	[JJG] Ortho Vitros 5600
119.1 ± 2.61	102.0 ± 2.42	92.7 ± 2.08	125.1 ± 4.21	141.1 ± 3.51	n = 12	[ROC] Roche cobas c501
120.1 ± 2.74	102.8 ± 1.86	91.1 ± 2.05	125.2 ± 2.19	139.9 ± 2.37	n = 7	[ROT] Roche Cobas INTEGRA
118.0 ± 2.82	100.5 ± 2.52	89.8 ± 2.20	122.5 ± 3.22	137.9 ± 3.25	n = 33	[ROD] Roche MODULAR D/P
118.2 ± 3.23	102.0 ± 0.90	90.1 ± 2.05	122.9 ± 2.86	138.7 ± 2.26	n = 3	[HIJ] Roche/Hitachi 917
116.0 ± 2.98	99.4 ± 2.42	88.8 ± 2.93	123.1 ± 2.97	137.3 ± 3.87	n = 6	[BYA] Siemens ADVIA 1650
115.7 ± 3.19	99.2 ± 2.67	88.9 ± 1.95	122.9 ± 3.16	138.7 ± 3.10	n = 15	[BYE] Siemens ADVIA 1800
114.5 ± 1.86	98.0 ± 0.90	87.6 ± 1.02	121.4 ± 1.02	137.8 ± 1.54	n = 3	[BYB] Siemens ADVIA 2400
112.8 ± 1.81	96.6 ± 1.49	78.5 ± 7.16	114.7 ± 4.16	124.5 ± 8.61	n = 46	[DUD] Siemens Dimension
115.6 ± 3.01	98.2 ± 2.81	75.0 ± 2.57	113.2 ± 2.91	119.5 ± 2.89	n = 11	[DUT] Siemens Dimension Vista
						<Reagents>
108.8 ± 2.05	93.4 ± 2.09	34.4 ± 6.05	73.0 ± 3.91	56.2 ± 6.44	n = 8	[AB1] Abbott
117.3 ± 3.91	99.6 ± 3.44	61.7 ± 3.27	98.3 ± 3.66	91.1 ± 3.89	n = 41	[BC1] Beckman Coulter
122.3 ± 3.06	103.8 ± 4.24	83.7 ± 4.13	121.9 ± 4.33	130.2 ± 4.60	n = 32	[OL1] Beckman Coulter AU Series
109.5 ± 3.31	96.2 ± 3.18	62.8 ± 6.45	98.4 ± 5.20	94.6 ± 6.28	n = 5	[CR1] Carolina
120.1 ± 4.93	102.0 ± 3.46	86.0 ± 4.10	122.0 ± 4.22	132.0 ± 3.64	n = 6	[DG1] Diagnostic Chemicals Ltd - Endpoint
113.9 ± 5.72	97.4 ± 4.72	84.3 ± 0.51	117.3 ± 2.26	130.3 ± 0.51	n = 3	[GZ1] Genzyme
126.6 ± 5.81	102.6 ± 4.05	96.3 ± 5.04	139.2 ± 6.63	151.9 ± 7.12	n = 33	[JJ1] Ortho Clinical Diagnostics
119.1 ± 2.61	102.0 ± 2.42	92.7 ± 2.08	125.1 ± 4.21	141.1 ± 3.51	n = 12	[RO4] Roche cobas c501
118.0 ± 2.87	100.7 ± 2.44	89.9 ± 2.18	122.5 ± 3.19	138.0 ± 3.16	n = 36	[RO2] Roche Hitachi and Modular D/P
120.1 ± 2.74	102.8 ± 1.86	91.1 ± 2.05	125.2 ± 2.19	139.9 ± 2.37	n = 7	[RO1] Roche Integra and MIRA
115.5 ± 2.74	98.9 ± 2.14	88.5 ± 2.06	122.5 ± 2.55	138.2 ± 3.03	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
113.2 ± 2.17	96.8 ± 1.84	77.5 ± 6.51	114.3 ± 3.94	123.1 ± 7.91	n = 57	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Sodium (mmol/L)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
131.3 ± 2.02	146.2 ± 1.87	138.8 ± 1.76	159.1 ± 2.49	139.1 ± 2.26	n = 378	[---] All Methods & Instruments
						<Instruments>
131.4 ± 1.06	145.8 ± 1.02	139.1 ± 1.13	159.4 ± 1.07	139.2 ± 1.02	n = 8	[ABH] Abbott Architect
130.4 ± 1.59	145.3 ± 1.14	138.8 ± 1.51	158.3 ± 1.38	138.5 ± 1.41	n = 45	[OLC] Beckman Coulter AU Chemistry System
130.1 ± 1.16	145.3 ± 1.81	137.8 ± 1.43	158.7 ± 2.09	139.4 ± 1.94	n = 15	[BCS] Beckman Coulter CX
130.5 ± 1.45	145.5 ± 1.11	138.5 ± 1.54	158.1 ± 1.40	139.2 ± 1.35	n = 19	[BCX] Beckman Coulter LX-20
130.2 ± 1.28	145.3 ± 1.62	137.8 ± 0.68	158.6 ± 1.07	139.0 ± 1.19	n = 17	[BCG] Beckman Coulter UniCel DxC 600
130.2 ± 1.66	145.3 ± 1.48	138.0 ± 1.44	158.3 ± 1.74	139.1 ± 1.41	n = 23	[BCH] Beckman Coulter UniCel DxC 800
132.3 ± 0.69	146.7 ± 0.69	136.0 ± 0.47	155.1 ± 0.75	135.9 ± 0.85	n = 8	[IAA] i-STAT
131.0 ± 0.90	146.0 ± 1.80	139.5 ± 1.86	161.4 ± 1.02	140.5 ± 2.74	n = 3	[MAA] IL Gem Premier 3000
135.3 ± 1.48	148.9 ± 1.72	139.8 ± 2.33	164.2 ± 2.26	145.6 ± 2.97	n = 15	[JJE] Ortho Vitros 250/350/950
134.9 ± 1.58	148.9 ± 1.74	139.4 ± 1.82	163.8 ± 2.05	144.7 ± 2.35	n = 28	[JJF] Ortho Vitros 5,1FS
133.6 ± 1.02	147.9 ± 2.05	138.0 ± 0.90	162.6 ± 1.02	144.0 ± 0.90	n = 3	[JJG] Ortho Vitros 5600
129.7 ± 1.08	145.2 ± 0.68	137.9 ± 0.43	158.5 ± 1.02	138.3 ± 0.88	n = 15	[ROC] Roche cobas c501
129.7 ± 1.62	145.1 ± 0.57	137.3 ± 1.19	157.8 ± 0.93	137.2 ± 1.13	n = 10	[ROT] Roche Cobas INTEGRA
131.5 ± 1.22	146.4 ± 1.31	138.8 ± 1.32	159.4 ± 1.52	138.8 ± 1.20	n = 37	[ROD] Roche MODULAR D/P
132.6 ± 2.05	147.8 ± 1.55	140.2 ± 1.78	161.1 ± 2.16	141.5 ± 1.62	n = 5	[BYA] Siemens ADVIA 1650
132.8 ± 0.83	147.7 ± 0.96	140.4 ± 1.18	160.7 ± 0.87	140.3 ± 1.18	n = 15	[BYE] Siemens ADVIA 1800
132.7 ± 0.51	147.0 ± 0.00	140.0 ± 0.00	159.4 ± 1.02	139.7 ± 0.51	n = 3	[BYB] Siemens ADVIA 2400
131.6 ± 1.23	146.8 ± 1.52	140.0 ± 1.34	159.2 ± 2.07	139.2 ± 1.59	n = 37	[DUD] Siemens Dimension
130.9 ± 1.31	145.6 ± 1.68	138.8 ± 1.44	157.7 ± 1.45	138.0 ± 1.62	n = 43	[DUF] Siemens Dimension QuikLYTE
129.7 ± 1.79	145.6 ± 2.23	138.0 ± 2.14	157.0 ± 2.65	135.9 ± 2.08	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
131.5 ± 1.02	146.0 ± 1.21	139.3 ± 1.27	159.6 ± 1.40	139.4 ± 1.38	n = 9	[AB1] Abbott
130.1 ± 1.51	145.3 ± 1.54	138.0 ± 1.39	158.4 ± 1.64	139.0 ± 1.45	n = 69	[BC1] Beckman Coulter
130.5 ± 1.54	145.4 ± 1.12	138.8 ± 1.49	158.4 ± 1.34	138.5 ± 1.40	n = 44	[OL1] Beckman Coulter AU Series
131.0 ± 0.75	146.1 ± 1.13	138.7 ± 2.02	158.8 ± 1.27	140.7 ± 1.58	n = 4	[CR1] Carolina
132.3 ± 0.74	146.8 ± 0.66	136.0 ± 0.00	155.0 ± 0.00	136.0 ± 0.82	n = 7	[IA1] i-STAT thermal cartridge
131.0 ± 0.90	146.0 ± 1.80	139.5 ± 1.86	161.4 ± 1.02	140.5 ± 2.74	n = 3	[IL1] Instrumentation Lab
134.9 ± 1.59	148.9 ± 1.83	139.5 ± 2.05	163.9 ± 2.13	144.8 ± 2.53	n = 47	[JJ1] Ortho Clinical Diagnostics
129.7 ± 1.08	145.2 ± 0.68	137.9 ± 0.43	158.5 ± 1.02	138.3 ± 0.88	n = 15	[RO4] Roche cobas c501
131.5 ± 1.22	146.5 ± 1.34	138.9 ± 1.29	159.5 ± 1.53	138.9 ± 1.18	n = 39	[RO2] Roche Hitachi and Modular D/P
129.7 ± 1.63	145.1 ± 0.57	137.3 ± 1.31	157.8 ± 0.93	137.2 ± 1.14	n = 11	[RO1] Roche Integra and MIRA
132.6 ± 1.13	147.4 ± 1.21	140.2 ± 1.32	160.4 ± 1.77	140.3 ± 1.45	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
131.1 ± 1.39	146.1 ± 1.77	139.2 ± 1.63	158.2 ± 1.98	138.3 ± 1.90	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Potassium (mmol/L)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
2.65 ± 0.10	4.55 ± 0.10	3.75 ± 0.09	6.24 ± 0.12	5.06 ± 0.12	n = 379	[---] All Methods & Instruments
						<Instruments>
2.68 ± 0.11	4.51 ± 0.13	3.73 ± 0.17	6.21 ± 0.10	5.04 ± 0.13	n = 8	[ABH] Abbott Architect
2.71 ± 0.06	4.55 ± 0.06	3.80 ± 0.00	6.21 ± 0.07	5.05 ± 0.06	n = 46	[OLC] Beckman Coulter AU Chemistry System
2.60 ± 0.00	4.53 ± 0.11	3.72 ± 0.06	6.24 ± 0.12	5.08 ± 0.10	n = 15	[BCS] Beckman Coulter CX
2.60 ± 0.04	4.50 ± 0.04	3.71 ± 0.05	6.25 ± 0.06	5.07 ± 0.07	n = 19	[BCX] Beckman Coulter LX-20
2.60 ± 0.00	4.53 ± 0.08	3.70 ± 0.00	6.26 ± 0.10	5.07 ± 0.06	n = 17	[BCG] Beckman Coulter UniCel DxC 600
2.60 ± 0.00	4.53 ± 0.06	3.71 ± 0.06	6.27 ± 0.10	5.08 ± 0.06	n = 23	[BCH] Beckman Coulter UniCel DxC 800
2.65 ± 0.06	4.50 ± 0.00	3.70 ± 0.00	6.11 ± 0.06	4.97 ± 0.05	n = 8	[IAA] i-STAT
2.60 ± 0.00	4.50 ± 0.00	3.60 ± 0.00	6.10 ± 0.00	4.94 ± 0.10	n = 3	[MAA] IL Gem Premier 3000
2.81 ± 0.05	4.69 ± 0.08	3.85 ± 0.07	6.44 ± 0.12	5.39 ± 0.08	n = 15	[JJE] Ortho Vitros 250/350/950
2.82 ± 0.06	4.72 ± 0.10	3.86 ± 0.06	6.45 ± 0.13	5.35 ± 0.07	n = 28	[JJF] Ortho Vitros 5,1FS
2.80 ± 0.00	4.70 ± 0.00	3.80 ± 0.00	6.43 ± 0.05	5.33 ± 0.05	n = 3	[JJG] Ortho Vitros 5600
2.55 ± 0.06	4.46 ± 0.06	3.63 ± 0.05	6.13 ± 0.06	5.00 ± 0.00	n = 14	[ROC] Roche cobas c501
2.70 ± 0.00	4.60 ± 0.00	3.80 ± 0.00	6.27 ± 0.07	5.10 ± 0.00	n = 10	[ROT] Roche Cobas INTEGRA
2.60 ± 0.00	4.47 ± 0.08	3.67 ± 0.07	6.15 ± 0.09	4.97 ± 0.07	n = 37	[ROD] Roche MODULAR D/P
2.57 ± 0.05	4.47 ± 0.05	3.67 ± 0.05	6.17 ± 0.05	5.00 ± 0.00	n = 3	[HIJ] Roche/Hitachi 917
2.70 ± 0.00	4.62 ± 0.08	3.82 ± 0.08	6.35 ± 0.18	5.16 ± 0.06	n = 5	[BYA] Siemens ADVIA 1650
2.77 ± 0.05	4.63 ± 0.06	3.85 ± 0.06	6.32 ± 0.06	5.13 ± 0.07	n = 15	[BYE] Siemens ADVIA 1800
2.77 ± 0.05	4.60 ± 0.00	3.80 ± 0.00	6.27 ± 0.05	5.07 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
2.60 ± 0.00	4.57 ± 0.06	3.75 ± 0.06	6.25 ± 0.07	5.06 ± 0.06	n = 37	[DUD] Siemens Dimension
2.60 ± 0.00	4.52 ± 0.06	3.72 ± 0.05	6.20 ± 0.06	5.01 ± 0.06	n = 43	[DUF] Siemens Dimension QuikLYTE
2.66 ± 0.06	4.54 ± 0.08	3.75 ± 0.07	6.16 ± 0.14	4.93 ± 0.08	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
2.65 ± 0.13	4.49 ± 0.13	3.71 ± 0.16	6.21 ± 0.09	5.03 ± 0.12	n = 9	[AB1] Abbott
2.60 ± 0.00	4.52 ± 0.07	3.71 ± 0.05	6.25 ± 0.09	5.07 ± 0.07	n = 69	[BC1] Beckman Coulter
2.71 ± 0.06	4.55 ± 0.06	3.80 ± 0.00	6.21 ± 0.07	5.05 ± 0.06	n = 45	[OL1] Beckman Coulter AU Series
2.60 ± 0.00	4.50 ± 0.08	3.68 ± 0.04	6.21 ± 0.11	5.13 ± 0.09	n = 4	[CR1] Carolina
2.64 ± 0.06	4.50 ± 0.00	3.70 ± 0.00	6.12 ± 0.07	4.98 ± 0.05	n = 7	[IA1] i-STAT thermal cartridge
2.60 ± 0.00	4.50 ± 0.00	3.60 ± 0.00	6.10 ± 0.00	4.94 ± 0.10	n = 3	[IL1] Instrumentation Lab
2.81 ± 0.06	4.71 ± 0.09	3.85 ± 0.06	6.45 ± 0.12	5.36 ± 0.08	n = 47	[JJ1] Ortho Clinical Diagnostics
2.55 ± 0.06	4.46 ± 0.06	3.63 ± 0.05	6.13 ± 0.06	5.00 ± 0.00	n = 14	[RO4] Roche cobas c501
2.60 ± 0.00	4.47 ± 0.07	3.68 ± 0.07	6.15 ± 0.09	4.97 ± 0.07	n = 39	[RO2] Roche Hitachi and Modular D/P
2.70 ± 0.00	4.60 ± 0.00	3.79 ± 0.06	6.26 ± 0.09	5.10 ± 0.00	n = 12	[RO1] Roche Integra and MIRA
2.75 ± 0.06	4.62 ± 0.06	3.83 ± 0.06	6.30 ± 0.06	5.12 ± 0.06	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
2.60 ± 0.00	4.54 ± 0.07	3.73 ± 0.06	6.22 ± 0.08	5.03 ± 0.08	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Chloride (mmol/L)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
94.0 ± 2.29	112.1 ± 2.09	98.3 ± 2.08	120.9 ± 2.42	99.0 ± 2.69	n = 373	[---] All Methods & Instruments
						<Instruments>
95.9 ± 1.13	113.5 ± 1.23	99.0 ± 0.00	122.1 ± 0.87	99.7 ± 0.87	n = 8	[ABH] Abbott Architect
94.0 ± 1.26	111.8 ± 1.32	97.7 ± 1.45	120.0 ± 1.43	98.3 ± 1.36	n = 44	[OLC] Beckman Coulter AU Chemistry System
98.0 ± 1.86	115.2 ± 2.33	101.5 ± 1.70	123.6 ± 1.72	103.1 ± 1.65	n = 15	[BCS] Beckman Coulter CX
95.2 ± 1.21	113.0 ± 1.33	99.0 ± 1.58	121.2 ± 1.37	100.6 ± 1.74	n = 19	[BCX] Beckman Coulter LX-20
95.5 ± 1.41	113.2 ± 1.28	98.9 ± 0.97	122.1 ± 0.88	100.5 ± 0.79	n = 17	[BCG] Beckman Coulter UniCel DxC 600
95.3 ± 1.69	113.5 ± 1.08	99.0 ± 1.46	122.1 ± 1.65	100.5 ± 1.42	n = 23	[BCH] Beckman Coulter UniCel DxC 800
97.0 ± 0.00	115.7 ± 0.59	101.0 ± 0.90	128.3 ± 0.51	107.4 ± 0.94	n = 7	[IAA] i-STAT
94.7 ± 1.35	113.0 ± 1.76	99.3 ± 1.39	123.7 ± 1.91	101.2 ± 1.73	n = 15	[JJE] Ortho Vitros 250/350/950
95.7 ± 1.22	113.8 ± 1.40	99.7 ± 1.37	123.8 ± 1.52	101.6 ± 1.45	n = 28	[JJF] Ortho Vitros 5,1FS
94.7 ± 0.51	112.3 ± 0.51	98.7 ± 0.51	122.6 ± 1.02	100.6 ± 1.02	n = 3	[JJG] Ortho Vitros 5600
90.1 ± 1.29	109.2 ± 1.06	93.4 ± 0.83	117.2 ± 1.13	94.1 ± 0.94	n = 15	[ROC] Roche cobas c501
93.4 ± 0.81	111.2 ± 0.50	98.5 ± 0.57	121.0 ± 0.97	99.9 ± 1.04	n = 10	[ROT] Roche Cobas INTEGRA
92.8 ± 1.03	110.8 ± 0.79	95.4 ± 0.87	118.8 ± 1.00	95.8 ± 1.00	n = 37	[ROD] Roche MODULAR D/P
95.8 ± 0.80	112.8 ± 0.80	98.0 ± 0.00	120.6 ± 0.55	98.0 ± 0.00	n = 5	[BYA] Siemens ADVIA 1650
95.7 ± 0.68	113.2 ± 1.23	98.4 ± 0.83	121.5 ± 1.07	99.3 ± 0.74	n = 15	[BYE] Siemens ADVIA 1800
95.2 ± 1.54	112.7 ± 1.37	97.4 ± 1.02	119.3 ± 1.37	97.3 ± 0.51	n = 3	[BYB] Siemens ADVIA 2400
92.2 ± 1.28	110.5 ± 1.77	98.6 ± 1.42	119.9 ± 1.37	98.0 ± 1.12	n = 38	[DUD] Siemens Dimension
91.7 ± 1.30	110.6 ± 1.52	98.2 ± 1.54	120.3 ± 1.61	97.7 ± 1.35	n = 41	[DUF] Siemens Dimension QuikLYTE
93.3 ± 1.60	111.6 ± 1.59	98.0 ± 1.30	120.8 ± 2.21	98.9 ± 1.11	n = 13	[DUT] Siemens Dimension Vista
						<Reagents>
96.1 ± 1.12	113.7 ± 1.25	99.1 ± 0.83	122.2 ± 1.39	99.9 ± 1.10	n = 9	[AB1] Abbott
95.6 ± 1.83	113.5 ± 1.39	99.2 ± 1.63	122.0 ± 1.43	100.8 ± 1.55	n = 69	[BC1] Beckman Coulter
94.0 ± 1.20	111.8 ± 1.25	97.6 ± 1.35	120.0 ± 1.33	98.3 ± 1.27	n = 43	[OL1] Beckman Coulter AU Series
97.2 ± 2.11	113.3 ± 3.01	102.2 ± 1.96	124.6 ± 1.90	104.0 ± 1.65	n = 4	[CR1] Carolina
97.0 ± 0.00	115.7 ± 0.51	101.2 ± 0.80	128.4 ± 0.55	107.5 ± 1.02	n = 6	[IA1] i-STAT thermal cartridge
95.4 ± 1.38	113.5 ± 1.61	99.5 ± 1.34	123.7 ± 1.73	101.5 ± 1.58	n = 47	[JJ1] Ortho Clinical Diagnostics
90.1 ± 1.29	109.2 ± 1.06	93.4 ± 0.83	117.2 ± 1.13	94.1 ± 0.94	n = 15	[RO4] Roche cobas c501
92.9 ± 1.01	110.9 ± 0.87	95.5 ± 0.89	118.9 ± 1.03	95.9 ± 1.05	n = 39	[RO2] Roche Hitachi and Modular D/P
93.4 ± 0.81	111.2 ± 0.51	98.5 ± 0.57	121.0 ± 0.99	99.9 ± 1.07	n = 11	[RO1] Roche Integra and MIRA
95.6 ± 0.86	112.9 ± 1.15	98.2 ± 0.79	120.9 ± 1.30	98.7 ± 1.09	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
92.1 ± 1.44	110.7 ± 1.66	98.3 ± 1.48	120.2 ± 1.62	98.0 ± 1.30	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Albumin (g/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
5.16 ± 0.18	4.34 ± 0.14	3.27 ± 0.17	4.20 ± 0.19	5.10 ± 0.25	n = 362	[---] All Methods & Instruments
						<Instruments>
4.83 ± 0.15	4.11 ± 0.11	3.05 ± 0.09	3.92 ± 0.13	4.73 ± 0.12	n = 8	[ABH] Abbott Architect
5.18 ± 0.13	4.38 ± 0.10	3.31 ± 0.07	4.23 ± 0.11	5.08 ± 0.11	n = 47	[OLC] Beckman Coulter AU Chemistry System
5.03 ± 0.08	4.23 ± 0.09	3.13 ± 0.06	4.02 ± 0.14	5.02 ± 0.18	n = 12	[BCS] Beckman Coulter CX
4.99 ± 0.13	4.17 ± 0.08	3.09 ± 0.07	3.95 ± 0.10	4.91 ± 0.12	n = 19	[BCX] Beckman Coulter LX-20
4.96 ± 0.13	4.16 ± 0.10	3.10 ± 0.06	3.95 ± 0.08	4.89 ± 0.10	n = 16	[BCG] Beckman Coulter UniCel DxC 600
4.99 ± 0.09	4.20 ± 0.07	3.14 ± 0.07	3.99 ± 0.05	4.95 ± 0.09	n = 23	[BCH] Beckman Coulter UniCel DxC 800
5.07 ± 0.11	4.25 ± 0.13	3.00 ± 0.09	4.00 ± 0.11	4.86 ± 0.17	n = 14	[JJE] Ortho Vitros 250/350/950
5.20 ± 0.13	4.38 ± 0.13	3.04 ± 0.09	4.08 ± 0.12	4.95 ± 0.15	n = 27	[JJF] Ortho Vitros 5,1FS
5.07 ± 0.14	4.37 ± 0.14	3.04 ± 0.10	4.07 ± 0.14	4.92 ± 0.15	n = 3	[JJG] Ortho Vitros 5600
5.22 ± 0.12	4.44 ± 0.10	3.46 ± 0.08	4.40 ± 0.12	5.22 ± 0.12	n = 14	[ROC] Roche cobas c501
4.97 ± 0.06	4.26 ± 0.08	3.31 ± 0.10	4.19 ± 0.09	4.96 ± 0.13	n = 10	[ROT] Roche Cobas INTEGRA
5.20 ± 0.09	4.44 ± 0.08	3.41 ± 0.10	4.35 ± 0.09	5.18 ± 0.08	n = 38	[ROD] Roche MODULAR D/P
5.13 ± 0.10	4.32 ± 0.07	3.26 ± 0.08	4.21 ± 0.11	4.93 ± 0.07	n = 6	[BYA] Siemens ADVIA 1650
5.11 ± 0.09	4.32 ± 0.07	3.29 ± 0.05	4.22 ± 0.06	4.96 ± 0.07	n = 15	[BYE] Siemens ADVIA 1800
5.13 ± 0.05	4.30 ± 0.09	3.27 ± 0.05	4.23 ± 0.05	5.04 ± 0.10	n = 3	[BYB] Siemens ADVIA 2400
5.31 ± 0.11	4.42 ± 0.10	3.38 ± 0.08	4.35 ± 0.10	5.44 ± 0.11	n = 80	[DUD] Siemens Dimension
5.15 ± 0.11	4.27 ± 0.08	3.29 ± 0.10	4.17 ± 0.06	5.22 ± 0.09	n = 11	[DUT] Siemens Dimension Vista
						<Reagents>
4.83 ± 0.15	4.11 ± 0.11	3.05 ± 0.09	3.92 ± 0.13	4.73 ± 0.12	n = 9	[AB1] Abbott
4.98 ± 0.10	4.18 ± 0.08	3.11 ± 0.06	3.96 ± 0.07	4.91 ± 0.10	n = 62	[BC1] Beckman Coulter
5.19 ± 0.13	4.39 ± 0.10	3.31 ± 0.07	4.23 ± 0.11	5.08 ± 0.11	n = 46	[OL1] Beckman Coulter AU Series
5.10 ± 0.14	4.28 ± 0.07	3.18 ± 0.07	4.14 ± 0.08	5.12 ± 0.14	n = 6	[CR1] Carolina
5.27 ± 0.05	4.50 ± 0.09	3.40 ± 0.00	4.33 ± 0.05	5.17 ± 0.05	n = 3	[DG1] Diagnostic Chemicals Ltd - Endpoint
5.15 ± 0.14	4.34 ± 0.14	3.03 ± 0.09	4.06 ± 0.13	4.93 ± 0.16	n = 45	[JJ1] Ortho Clinical Diagnostics
5.22 ± 0.12	4.44 ± 0.10	3.46 ± 0.08	4.40 ± 0.12	5.22 ± 0.12	n = 14	[RO4] Roche cobas c501
5.20 ± 0.09	4.44 ± 0.08	3.42 ± 0.10	4.35 ± 0.09	5.19 ± 0.08	n = 39	[RO2] Roche Hitachi and Modular D/P
4.97 ± 0.06	4.26 ± 0.08	3.31 ± 0.10	4.19 ± 0.09	4.96 ± 0.13	n = 10	[RO1] Roche Integra and MIRA
5.12 ± 0.08	4.32 ± 0.07	3.28 ± 0.06	4.21 ± 0.07	4.97 ± 0.08	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
5.30 ± 0.12	4.40 ± 0.11	3.37 ± 0.09	4.33 ± 0.11	5.42 ± 0.13	n = 92	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Total Protein (g/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
8.40 ± 0.26	7.04 ± 0.19	5.36 ± 0.16	7.08 ± 0.21	7.94 ± 0.25	n = 365	[---] All Methods & Instruments
						<Instruments>
8.29 ± 0.06	6.95 ± 0.09	5.30 ± 0.00	7.01 ± 0.06	7.83 ± 0.07	n = 8	[ABH] Abbott Architect
8.29 ± 0.16	7.00 ± 0.14	5.29 ± 0.10	7.04 ± 0.15	7.83 ± 0.15	n = 46	[OLC] Beckman Coulter AU Chemistry System
8.36 ± 0.16	7.02 ± 0.12	5.36 ± 0.15	6.99 ± 0.22	7.84 ± 0.18	n = 13	[BCS] Beckman Coulter CX
7.93 ± 0.16	6.77 ± 0.13	5.17 ± 0.09	6.77 ± 0.13	7.64 ± 0.18	n = 20	[BCX] Beckman Coulter LX-20
8.26 ± 0.31	6.89 ± 0.22	5.23 ± 0.18	6.90 ± 0.18	7.71 ± 0.23	n = 15	[BCG] Beckman Coulter UniCel DxC 600
8.03 ± 0.18	6.75 ± 0.12	5.15 ± 0.11	6.76 ± 0.13	7.62 ± 0.14	n = 23	[BCH] Beckman Coulter UniCel DxC 800
8.55 ± 0.12	7.09 ± 0.13	5.35 ± 0.13	7.10 ± 0.16	8.22 ± 0.18	n = 15	[JJE] Ortho Vitros 250/350/950
8.68 ± 0.16	7.13 ± 0.18	5.34 ± 0.17	7.07 ± 0.20	8.17 ± 0.18	n = 28	[JJF] Ortho Vitros 5,1FS
8.52 ± 0.24	6.99 ± 0.29	5.27 ± 0.14	6.93 ± 0.14	7.98 ± 0.15	n = 3	[JJG] Ortho Vitros 5600
8.36 ± 0.17	7.03 ± 0.16	5.40 ± 0.15	7.14 ± 0.17	7.90 ± 0.18	n = 14	[ROC] Roche cobas c501
8.29 ± 0.18	6.96 ± 0.13	5.28 ± 0.08	7.03 ± 0.12	7.79 ± 0.16	n = 11	[ROT] Roche Cobas INTEGRA
8.34 ± 0.14	7.01 ± 0.13	5.37 ± 0.08	7.08 ± 0.12	7.88 ± 0.14	n = 38	[ROD] Roche MODULAR D/P
8.31 ± 0.19	7.05 ± 0.19	5.42 ± 0.16	7.06 ± 0.24	7.98 ± 0.16	n = 6	[BYA] Siemens ADVIA 1650
8.37 ± 0.12	7.02 ± 0.09	5.43 ± 0.06	7.06 ± 0.08	7.91 ± 0.12	n = 15	[BYE] Siemens ADVIA 1800
8.40 ± 0.09	7.13 ± 0.05	5.43 ± 0.05	7.07 ± 0.05	7.97 ± 0.05	n = 3	[BYB] Siemens ADVIA 2400
8.60 ± 0.13	7.19 ± 0.12	5.49 ± 0.09	7.26 ± 0.11	8.15 ± 0.12	n = 79	[DUD] Siemens Dimension
8.52 ± 0.18	7.14 ± 0.16	5.47 ± 0.13	7.25 ± 0.16	8.06 ± 0.19	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
8.30 ± 0.07	6.96 ± 0.09	5.30 ± 0.00	7.02 ± 0.07	7.84 ± 0.07	n = 9	[AB1] Abbott
8.08 ± 0.25	6.81 ± 0.16	5.20 ± 0.14	6.81 ± 0.15	7.67 ± 0.18	n = 65	[BC1] Beckman Coulter
8.28 ± 0.16	7.00 ± 0.14	5.30 ± 0.10	7.03 ± 0.15	7.82 ± 0.15	n = 45	[OL1] Beckman Coulter AU Series
8.33 ± 0.29	7.16 ± 0.11	5.37 ± 0.28	7.11 ± 0.37	7.98 ± 0.31	n = 6	[CR1] Carolina
8.63 ± 0.17	7.11 ± 0.16	5.34 ± 0.15	7.07 ± 0.19	8.17 ± 0.19	n = 46	[JJ1] Ortho Clinical Diagnostics
8.36 ± 0.17	7.03 ± 0.16	5.40 ± 0.15	7.14 ± 0.17	7.90 ± 0.18	n = 14	[RO4] Roche cobas c501
8.34 ± 0.13	7.02 ± 0.13	5.38 ± 0.08	7.09 ± 0.12	7.89 ± 0.14	n = 40	[RO2] Roche Hitachi and Modular D/P
8.29 ± 0.18	6.96 ± 0.13	5.28 ± 0.08	7.03 ± 0.12	7.79 ± 0.16	n = 11	[RO1] Roche Integra and MIRA
8.37 ± 0.14	7.05 ± 0.12	5.43 ± 0.08	7.08 ± 0.09	7.94 ± 0.13	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
8.59 ± 0.14	7.19 ± 0.12	5.49 ± 0.10	7.26 ± 0.11	8.14 ± 0.13	n = 91	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Cholesterol (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
176.5 ± 9.65	150.3 ± 6.91	133.7 ± 6.07	240.2 ± 7.56	191.2 ± 8.67	n = 340	[---] All Methods & Instruments
						<Instruments>
178.9 ± 1.00	153.1 ± 0.92	134.0 ± 1.05	241.6 ± 2.40	194.2 ± 1.85	n = 9	[ABH] Abbott Architect
174.2 ± 4.40	149.2 ± 3.76	129.1 ± 3.63	236.9 ± 6.04	188.1 ± 5.20	n = 46	[OLC] Beckman Coulter AU Chemistry System
176.6 ± 9.43	152.1 ± 4.49	134.2 ± 7.28	238.2 ± 9.32	190.6 ± 7.35	n = 11	[BCS] Beckman Coulter CX
176.8 ± 5.07	148.5 ± 3.33	135.1 ± 2.96	237.3 ± 5.86	188.2 ± 4.39	n = 16	[BCX] Beckman Coulter LX-20
177.9 ± 5.33	150.2 ± 3.35	134.4 ± 3.59	235.1 ± 6.67	188.0 ± 7.10	n = 13	[BCG] Beckman Coulter UniCel DxC 600
177.7 ± 4.01	150.4 ± 3.46	135.5 ± 2.91	234.4 ± 5.10	188.9 ± 4.67	n = 19	[BCH] Beckman Coulter UniCel DxC 800
196.7 ± 13.23	165.9 ± 6.58	146.0 ± 9.01	264.5 ± 12.63	213.6 ± 7.94	n = 3	[CEA] Cholestech LDX
195.7 ± 4.24	158.8 ± 2.71	143.1 ± 3.45	249.2 ± 6.04	209.7 ± 4.98	n = 7	[JJE] Ortho Vitros 250/350/950
198.1 ± 4.75	162.2 ± 4.42	142.7 ± 3.80	248.1 ± 6.35	208.4 ± 4.54	n = 27	[JJF] Ortho Vitros 5,1FS
201.2 ± 1.54	164.5 ± 2.74	145.5 ± 1.86	250.0 ± 1.80	213.1 ± 3.72	n = 3	[JJG] Ortho Vitros 5600
182.1 ± 4.54	156.4 ± 4.29	138.0 ± 4.29	246.7 ± 5.03	197.4 ± 4.65	n = 14	[ROC] Roche cobas c501
176.9 ± 5.04	150.1 ± 2.79	132.8 ± 3.87	239.5 ± 6.75	191.2 ± 5.72	n = 12	[ROT] Roche Cobas INTEGRA
178.1 ± 4.60	151.8 ± 3.97	135.2 ± 3.32	241.1 ± 5.44	193.5 ± 4.68	n = 39	[ROD] Roche MODULAR D/P
178.3 ± 3.16	152.6 ± 2.56	134.7 ± 2.26	245.4 ± 3.87	194.5 ± 2.74	n = 3	[HIJ] Roche/Hitachi 917
180.3 ± 4.05	153.4 ± 4.37	135.1 ± 6.00	242.2 ± 6.10	194.5 ± 6.20	n = 6	[BYA] Siemens ADVIA 1650
180.2 ± 3.67	154.4 ± 3.39	136.5 ± 2.15	243.2 ± 4.34	195.3 ± 3.69	n = 15	[BYE] Siemens ADVIA 1800
181.5 ± 2.74	152.8 ± 2.36	135.3 ± 1.37	244.5 ± 4.53	193.6 ± 3.87	n = 3	[BYB] Siemens ADVIA 2400
166.3 ± 5.92	142.9 ± 4.38	129.0 ± 3.74	239.0 ± 6.85	185.5 ± 5.68	n = 68	[DUD] Siemens Dimension
167.6 ± 4.17	143.7 ± 3.46	127.1 ± 3.69	230.0 ± 5.04	181.6 ± 3.54	n = 11	[DUT] Siemens Dimension Vista
						<Reagents>
178.9 ± 0.86	153.0 ± 0.00	134.0 ± 0.97	242.0 ± 2.70	194.5 ± 2.12	n = 10	[AB1] Abbott
178.0 ± 4.63	150.3 ± 3.61	135.3 ± 3.35	236.2 ± 6.50	189.2 ± 5.38	n = 55	[BC1] Beckman Coulter
174.0 ± 4.34	149.0 ± 3.58	128.8 ± 3.28	236.5 ± 5.69	187.8 ± 5.04	n = 43	[OL1] Beckman Coulter AU Series
165.1 ± 7.35	146.2 ± 7.37	125.9 ± 7.92	235.2 ± 9.82	185.7 ± 5.24	n = 5	[CR1] Carolina
196.7 ± 13.23	165.9 ± 6.58	146.0 ± 9.01	264.5 ± 12.63	213.6 ± 7.94	n = 3	[CE1] Cholestech
197.9 ± 4.67	161.8 ± 4.40	143.1 ± 3.70	248.5 ± 5.94	209.1 ± 4.72	n = 37	[JJ1] Ortho Clinical Diagnostics
182.1 ± 4.54	156.4 ± 4.29	138.0 ± 4.29	246.7 ± 5.03	197.4 ± 4.65	n = 14	[RO4] Roche cobas c501
178.0 ± 4.54	151.7 ± 4.13	135.1 ± 3.29	241.4 ± 5.81	193.6 ± 4.76	n = 42	[RO2] Roche Hitachi and Modular D/P
176.9 ± 5.04	150.1 ± 2.79	132.8 ± 3.87	239.5 ± 6.75	191.2 ± 5.72	n = 12	[RO1] Roche Integra and MIRA
180.6 ± 3.60	154.0 ± 3.31	136.1 ± 2.64	243.6 ± 4.81	195.2 ± 4.12	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
166.5 ± 5.70	143.0 ± 4.28	128.7 ± 3.75	237.8 ± 7.36	184.8 ± 5.66	n = 79	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

HDL-Cholesterol (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
52.1 ± 10.74	44.5 ± 8.01	32.7 ± 2.93	66.8 ± 7.66	53.6 ± 5.33	n = 315	[---] All Methods & Instruments
49.1 ± 8.20	41.8 ± 5.52	31.6 ± 4.85	71.0 ± 8.15	55.9 ± 7.19	n = 19	[---] All Precipitation Methods
52.3 ± 10.85	44.7 ± 8.12	32.7 ± 2.78	66.6 ± 7.54	53.6 ± 5.08	n = 296	[---] All Homogeneous (Direct) Methods
37.0 ± 1.14	32.0 ± 0.00	24.0 ± 1.14	51.5 ± 0.57	40.0 ± 2.28	n = 2	[AX1] Abaxis
58.8 ± 1.98	49.4 ± 2.12	32.8 ± 1.69	65.9 ± 3.09	52.5 ± 2.53	n = 9	[AB1] Abbott
50.6 ± 2.92	42.5 ± 2.29	34.4 ± 2.31	75.4 ± 3.87	59.0 ± 2.87	n = 43	[BC1] Beckman Coulter
61.3 ± 2.72	51.7 ± 1.90	33.5 ± 2.14	69.3 ± 2.89	54.8 ± 2.94	n = 30	[OL1] Beckman Coulter AU Series
66.8 ± 22.70	47.6 ± 6.41	33.3 ± 1.58	67.1 ± 5.84	54.5 ± 4.86	n = 4	[CR1] Carolina
38.7 ± 4.22	37.1 ± 2.05	23.7 ± 2.26	70.4 ± 8.81	51.1 ± 6.08	n = 3	[CE1] Cholestech
58.5 ± 2.25	50.0 ± 0.93	31.6 ± 2.47	65.5 ± 0.57	52.8 ± 2.28	n = 5	[EQ1] Equal Diagnostics
50.2 ± 1.85	42.7 ± 1.43	33.0 ± 1.15	74.2 ± 2.75	58.4 ± 1.92	n = 30	[JJ1] Ortho Clinical
48.5 ± 2.74	41.0 ± 1.80	24.6 ± 3.87	57.3 ± 5.97	45.0 ± 7.24	n = 3	[PM1] Polymedco
37.5 ± 1.24	34.2 ± 0.79	30.9 ± 0.92	58.5 ± 1.23	48.3 ± 1.81	n = 12	[RO4] Roche cobas c501
38.5 ± 2.05	35.2 ± 1.51	34.5 ± 2.28	62.1 ± 2.70	51.6 ± 2.74	n = 38	[RO2] Roche Hitachi and Modular D/P
40.0 ± 1.66	36.7 ± 2.16	33.6 ± 2.09	61.8 ± 2.16	51.1 ± 1.45	n = 10	[RO1] Roche Integra and MIRA
46.8 ± 1.19	39.8 ± 0.99	19.6 ± 0.84	50.5 ± 1.55	35.6 ± 1.15	n = 24	[BY1] Siemens ADVIA/ADVIA Centaur
63.9 ± 2.22	53.7 ± 1.81	31.0 ± 1.55	66.5 ± 2.30	52.3 ± 2.14	n = 73	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

LDL-Cholesterol (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
102.1 ± 16.23	85.6 ± 12.85	82.0 ± 10.75	136.7 ± 14.46	112.9 ± 13.41	n = 301	[---] All Methods & Instruments
107.2 ± 18.10	90.4 ± 13.05	86.1 ± 7.28	142.0 ± 11.23	118.8 ± 10.70	n = 165	[-A-] Calculated results Friedewald formula [LDL=TC-HDL-(Trigs÷5)]
96.7 ± 11.16	80.2 ± 9.62	74.9 ± 10.96	128.4 ± 14.78	104.5 ± 12.06	n = 132	[---] All Homogeneous (Direct) Methods
88.9 ± 3.67	72.7 ± 3.21	68.0 ± 2.27	117.6 ± 2.08	96.2 ± 3.43	n = 21	[BC1] Beckman Coulter
84.3 ± 4.58	70.2 ± 3.86	64.0 ± 4.48	109.2 ± 6.19	90.2 ± 6.80	n = 13	[OL1] Beckman Coulter AU Series
89.7 ± 8.70	75.6 ± 7.74	71.1 ± 10.04	119.4 ± 15.57	97.5 ± 11.12	n = 14	[EQ1/GZ1] Equal/Genzyme
102.8 ± 6.29	81.2 ± 4.57	70.8 ± 3.40	141.6 ± 5.87	112.4 ± 8.25	n = 9	[JJ1] Ortho Clinical Diagnostics
112.5 ± 0.57	94.5 ± 0.57	90.5 ± 0.57	147.5 ± 0.57	119.0 ± 1.14	n = 2	[RO4] Roche cobas c501
115.9 ± 2.34	97.3 ± 2.43	91.2 ± 3.30	147.9 ± 2.78	118.9 ± 3.41	n = 15	[RO2] Roche Hitachi and Modular D/P
99.6 ± 3.78	80.6 ± 3.57	71.1 ± 2.97	128.1 ± 5.12	101.8 ± 4.12	n = 12	[BY1] Siemens ADVIA/ADVIA
98.7 ± 4.24	83.1 ± 3.98	82.5 ± 4.81	134.3 ± 6.75	111.2 ± 5.72	n = 33	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Triglycerides (mg/dL)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
98.6 ± 5.30	83.9 ± 4.78	78.9 ± 4.74	157.4 ± 7.17	101.9 ± 4.88	n = 327	[---] All Methods & Instruments
						<Instruments>
102.0 ± 1.98	86.3 ± 2.23	83.5 ± 1.76	152.9 ± 3.94	101.1 ± 1.90	n = 10	[ABH] Abbott Architect
96.9 ± 2.27	83.6 ± 2.97	76.9 ± 2.34	158.3 ± 4.28	101.4 ± 2.84	n = 45	[OLC] Beckman Coulter AU Chemistry System
96.3 ± 9.46	82.5 ± 4.47	77.3 ± 6.67	156.8 ± 10.55	101.4 ± 7.53	n = 11	[BCS] Beckman Coulter CX
98.8 ± 2.42	82.1 ± 3.02	76.8 ± 1.83	155.4 ± 4.25	101.8 ± 2.77	n = 14	[BCX] Beckman Coulter LX-20
97.0 ± 3.20	82.7 ± 3.16	75.3 ± 2.49	156.3 ± 5.53	101.9 ± 3.72	n = 11	[BCG] Beckman Coulter UniCel DxC 600
96.7 ± 2.66	82.1 ± 2.48	74.6 ± 3.19	153.9 ± 5.36	100.8 ± 3.52	n = 17	[BCH] Beckman Coulter UniCel DxC 800
109.9 ± 1.49	93.0 ± 2.38	83.0 ± 2.21	175.3 ± 3.07	113.4 ± 3.95	n = 7	[JJE] Ortho Vitros 250/350/950
105.9 ± 2.63	89.7 ± 2.25	80.4 ± 2.34	169.1 ± 3.37	108.6 ± 2.82	n = 27	[JJF] Ortho Vitros 5,1FS
104.7 ± 5.91	88.3 ± 3.37	79.3 ± 3.37	169.1 ± 8.46	107.8 ± 5.12	n = 3	[JJG] Ortho Vitros 5600
102.7 ± 1.60	88.7 ± 1.35	84.0 ± 1.60	162.5 ± 2.75	103.7 ± 1.81	n = 14	[ROC] Roche cobas c501
94.6 ± 3.70	81.8 ± 3.45	75.1 ± 2.41	152.4 ± 6.42	94.6 ± 4.15	n = 10	[ROT] Roche Cobas INTEGRA
99.3 ± 2.30	84.5 ± 1.91	82.9 ± 2.05	156.1 ± 3.89	101.1 ± 2.71	n = 39	[ROD] Roche MODULAR D/P
100.1 ± 2.05	86.4 ± 1.02	83.3 ± 0.51	160.0 ± 0.90	102.3 ± 1.37	n = 3	[HIJ] Roche/Hitachi 917
98.8 ± 2.95	85.1 ± 2.88	82.9 ± 2.54	157.3 ± 4.76	104.5 ± 3.39	n = 6	[BYA] Siemens ADVIA 1650
98.1 ± 2.98	83.9 ± 2.23	81.4 ± 2.64	156.0 ± 3.39	102.7 ± 2.59	n = 15	[BYE] Siemens ADVIA 1800
89.6 ± 18.87	74.1 ± 19.87	72.5 ± 20.03	146.9 ± 17.51	94.7 ± 18.69	n = 3	[BYB] Siemens ADVIA 2400
95.2 ± 2.50	79.6 ± 2.76	76.4 ± 2.50	153.9 ± 3.39	98.7 ± 2.56	n = 65	[DUD] Siemens Dimension
106.8 ± 3.43	90.4 ± 2.78	88.5 ± 3.02	166.6 ± 1.31	109.0 ± 2.88	n = 11	[DUT] Siemens Dimension Vista
						<Reagents>
101.9 ± 1.89	86.1 ± 2.13	83.5 ± 1.63	153.4 ± 4.10	101.3 ± 1.98	n = 11	[AB1] Abbott
97.7 ± 3.22	82.5 ± 2.95	75.6 ± 2.98	154.9 ± 5.44	101.2 ± 3.37	n = 49	[BC1] Beckman Coulter
96.9 ± 2.13	83.7 ± 2.64	77.1 ± 2.15	158.1 ± 3.97	101.6 ± 2.50	n = 41	[OL1] Beckman Coulter AU Series
92.3 ± 10.04	79.3 ± 6.15	81.0 ± 10.59	165.8 ± 9.63	107.4 ± 11.10	n = 6	[CR1] Carolina
106.5 ± 3.37	90.1 ± 2.80	80.8 ± 2.69	170.1 ± 5.06	109.2 ± 3.77	n = 37	[JJ1] Ortho Clinical Diagnostics
102.7 ± 1.60	88.7 ± 1.35	84.0 ± 1.60	162.5 ± 2.75	103.7 ± 1.81	n = 14	[RO4] Roche cobas c501
99.4 ± 2.33	84.7 ± 1.96	83.0 ± 1.95	156.5 ± 4.02	101.1 ± 2.66	n = 41	[RO2] Roche Hitachi and Modular D/P
95.1 ± 3.81	82.1 ± 3.43	75.5 ± 2.99	152.8 ± 6.01	95.4 ± 4.68	n = 11	[RO1] Roche Integra and MIRA
98.6 ± 3.04	84.4 ± 2.69	82.0 ± 2.69	156.3 ± 3.71	103.3 ± 2.82	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
95.7 ± 4.29	80.3 ± 4.44	76.8 ± 3.88	154.7 ± 5.13	99.4 ± 4.11	n = 77	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Homocysteine (µmol/L)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
15.23 ± 1.19	11.13 ± 1.08	17.50 ± 1.40	10.39 ± 1.15	25.08 ± 1.99	n = 126	[---] All Methods & Instruments
						<Instruments>
15.53 ± 0.79	11.92 ± 0.63	17.24 ± 0.80	11.61 ± 0.63	24.93 ± 1.19	n = 13	[ABB] Abbott AxSym
16.00 ± 0.73	11.75 ± 0.69	18.61 ± 0.46	11.71 ± 1.05	27.10 ± 0.55	n = 7	[OLC] Beckman Coulter AU Chemistry System
21.22 ± 5.23	12.77 ± 0.77	20.58 ± 1.15	11.52 ± 0.50	25.33 ± 6.97	n = 3	[BCS] Beckman Coulter CX
15.87 ± 0.67	11.51 ± 0.91	18.47 ± 1.02	10.67 ± 1.05	21.06 ± 8.52	n = 5	[BCH] Beckman Coulter UniCel DxC 800
15.23 ± 0.77	10.70 ± 0.55	17.59 ± 0.52	11.70 ± 0.18	26.32 ± 0.59	n = 5	[JJF] Ortho Vitros 5,1FS
15.13 ± 0.32	11.08 ± 0.51	17.50 ± 0.72	10.58 ± 0.41	25.99 ± 0.29	n = 3	[ROC] Roche cobas c501
14.10 ± 1.37	10.62 ± 0.88	16.30 ± 1.73	9.63 ± 1.13	22.69 ± 1.75	n = 3	[ROD] Roche MODULAR D/P
15.16 ± 1.23	11.45 ± 0.90	16.77 ± 1.18	9.66 ± 0.57	24.10 ± 1.57	n = 26	[COB] Siemens ADVIA Centaur
14.39 ± 0.44	10.70 ± 0.09	16.15 ± 0.54	9.50 ± 0.27	23.43 ± 0.69	n = 3	[DUT] Siemens Dimension Vista
14.85 ± 1.34	10.35 ± 0.98	17.53 ± 1.34	10.07 ± 0.86	24.96 ± 2.04	n = 35	[DPD] Siemens Immulite 2000
14.20 ± 1.02	10.25 ± 0.54	16.51 ± 1.21	9.92 ± 0.78	23.96 ± 0.48	n = 7	[DPE] Siemens Immulite 2500
						<Reagents>
15.66 ± 0.89	11.92 ± 0.72	17.41 ± 0.90	11.60 ± 0.69	25.12 ± 1.29	n = 16	[AB1] Abbott
16.74 ± 1.92	12.14 ± 1.14	19.56 ± 1.26	11.47 ± 0.38	26.17 ± 4.73	n = 9	[CR1] Carolina
15.64 ± 0.52	11.09 ± 0.41	18.19 ± 0.97	10.25 ± 0.65	25.62 ± 1.36	n = 10	[DZ1] Diazyme
15.60 ± 1.58	11.35 ± 1.43	18.07 ± 2.40	11.00 ± 2.15	26.18 ± 3.37	n = 5	[EQ1] Equal Diagnostics
15.23 ± 0.77	10.70 ± 0.55	17.59 ± 0.52	11.70 ± 0.18	26.32 ± 0.59	n = 5	[JJ1] Ortho Clinical Diagnostics
15.16 ± 1.23	11.45 ± 0.90	16.77 ± 1.18	9.66 ± 0.57	24.10 ± 1.57	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
14.39 ± 0.44	10.70 ± 0.09	16.15 ± 0.54	9.50 ± 0.27	23.43 ± 0.69	n = 3	[DA1] Siemens Dimension/Stratus
14.77 ± 1.29	10.37 ± 0.94	17.35 ± 1.33	10.01 ± 0.83	24.85 ± 2.05	n = 44	[DP5] Siemens Immulite

Summary of Participant Performance (Mean and Standard Deviation)

Troponin I (µg/L)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
0.063 ± 0.021	0.022 ± 0.022	1.074 ± 0.294	0.022 ± 0.023	2.430 ± 0.519	n = 227	[---] All Methods & Instruments
						<Instruments>
0.355 ± 0.017	0.011 ± 0.009	6.514 ± 0.176	0.011 ± 0.009	14.217 ± 0.622	n = 8	[ABH] Abbott Architect
0.044 ± 0.008	0.017 ± 0.011	0.987 ± 0.075	0.017 ± 0.011	2.165 ± 0.199	n = 11	[ABB] Abbott AxSym
0.052 ± 0.011	0.010 ± 0.000	0.933 ± 0.090	0.010 ± 0.005	2.037 ± 0.206	n = 29	[SAA] Beckman Coulter ACCESS
0.064 ± 0.011	0.015 ± 0.014	1.106 ± 0.086	0.015 ± 0.014	2.397 ± 0.182	n = 16	[BCU] Beckman Coulter UniCel DxI 800
0.050 ± 0.000	0.050 ± 0.000	0.237 ± 0.084	0.050 ± 0.000	1.085 ± 0.358	n = 8	[BSA] BioSite Triage
0.199 ± 0.008	0.007 ± 0.006	3.539 ± 0.108	0.007 ± 0.006	7.109 ± 0.302	n = 18	[JJC] Ortho Vitros ECi/ECiQ
0.069 ± 0.014	0.010 ± 0.006	1.273 ± 0.094	0.010 ± 0.006	2.960 ± 0.247	n = 40	[COB] Siemens ADVIA Centaur
0.065 ± 0.027	0.042 ± 0.026	0.915 ± 0.111	0.040 ± 0.029	2.288 ± 0.268	n = 63	[DUD] Siemens Dimension
0.077 ± 0.016	0.017 ± 0.006	1.698 ± 0.160	0.017 ± 0.006	3.029 ± 0.217	n = 12	[DUT] Siemens Dimension Vista
0.200 ± 0.000	0.200 ± 0.000	1.912 ± 0.126	0.200 ± 0.000	4.352 ± 0.212	n = 5	[DPD] Siemens Immulite 2000
0.050 ± 0.009	0.011 ± 0.020	1.207 ± 0.050	0.015 ± 0.019	2.685 ± 0.027	n = 3	[DAC] Siemens Stratus CS
0.418 ± 0.058	0.060 ± 0.000	6.607 ± 0.585	0.060 ± 0.000	13.615 ± 0.931	n = 5	[TOM] Tosoh Bioscience
						<Reagents>
0.171 ± 0.171	0.014 ± 0.010	3.184 ± 3.106	0.014 ± 0.010	6.921 ± 6.700	n = 19	[AB1] Abbott
0.056 ± 0.013	0.012 ± 0.008	0.988 ± 0.121	0.011 ± 0.008	2.161 ± 0.271	n = 47	[BC1] Beckman Coulter
0.050 ± 0.000	0.050 ± 0.000	0.237 ± 0.084	0.050 ± 0.000	1.085 ± 0.358	n = 8	[BS1] Biosite Diagnostics
0.200 ± 0.008	0.008 ± 0.006	3.523 ± 0.132	0.007 ± 0.006	7.073 ± 0.288	n = 20	[JJ1] Ortho Clinical Diagnostics
0.069 ± 0.014	0.010 ± 0.006	1.270 ± 0.096	0.010 ± 0.007	2.960 ± 0.247	n = 41	[BY1] Siemens ADVIA/ADVIA Centaur
0.067 ± 0.026	0.039 ± 0.028	1.042 ± 0.317	0.037 ± 0.029	2.404 ± 0.380	n = 78	[DA1] Siemens Dimension/Stratus
0.200 ± 0.000	0.200 ± 0.000	1.791 ± 0.243	0.200 ± 0.000	4.069 ± 0.619	n = 7	[DP5] Siemens Immulite
0.410 ± 0.064	0.060 ± 0.000	6.514 ± 0.634	0.060 ± 0.000	13.416 ± 0.999	n = 4	[TO2] Tosoh ST AIA

Summary of Participant Performance (Mean and Standard Deviation)

Troponin T (µg/L)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
0.058 ± 0.007	0.010 ± 0.000	0.645 ± 0.066	0.010 ± 0.000	1.245 ± 0.130	n = 34	[---] All Methods & Instruments
						<Instruments>
0.068 ± 0.015	0.010 ± 0.000	0.720 ± 0.091	0.010 ± 0.000	1.339 ± 0.149	n = 3	[ROF] Roche cobas e411
0.057 ± 0.005	0.010 ± 0.000	0.606 ± 0.038	0.010 ± 0.000	1.179 ± 0.122	n = 6	[ROA] Roche cobas e601
0.060 ± 0.010	0.010 ± 0.000	0.684 ± 0.061	0.010 ± 0.000	1.319 ± 0.089	n = 13	[BME] Roche Elecsys
0.056 ± 0.006	0.010 ± 0.000	0.618 ± 0.053	0.010 ± 0.000	1.180 ± 0.099	n = 9	[ROE] Roche MODULAR E
						<Reagents>
0.059 ± 0.007	0.010 ± 0.000	0.650 ± 0.073	0.010 ± 0.000	1.249 ± 0.133	n = 27	[RO3] Roche Elecsys/Modular E/e601/e411
0.057 ± 0.005	0.024 ± 0.026	0.610 ± 0.009	0.024 ± 0.026	1.138 ± 0.041	n = 3	[RO2] Roche Hitachi and Modular D/P
0.053 ± 0.005	0.010 ± 0.000	0.660 ± 0.046	0.010 ± 0.000	1.348 ± 0.050	n = 3	[RO1] Roche Integra and MIRA

Summary of Participant Performance (Mean and Standard Deviation)

Alanine Aminotransferase (U/L 37°C)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
215.5 ± 14.45	71.7 ± 8.18	175.5 ± 10.76	311.3 ± 18.09	52.9 ± 7.39	n = 364	[---] All Methods & Instruments
						<Instruments>
210.0 ± 4.35	66.5 ± 2.10	172.5 ± 4.53	310.8 ± 6.58	48.4 ± 1.85	n = 9	[ABH] Abbott Architect
187.4 ± 6.58	60.1 ± 2.64	155.6 ± 5.55	278.1 ± 9.15	44.1 ± 1.89	n = 45	[OLC] Beckman Coulter AU Chemistry System
208.7 ± 6.05	69.1 ± 2.03	169.3 ± 5.41	303.2 ± 9.26	49.3 ± 1.79	n = 19	[BCX] Beckman Coulter LX-20
206.7 ± 4.12	68.7 ± 1.31	167.4 ± 3.47	298.9 ± 5.99	49.0 ± 1.46	n = 16	[BCG] Beckman Coulter UniCel DxC 600
208.5 ± 4.36	69.7 ± 1.37	168.5 ± 3.37	300.5 ± 5.87	49.3 ± 1.46	n = 22	[BCH] Beckman Coulter UniCel DxC 800
227.4 ± 4.96	73.9 ± 2.67	186.7 ± 3.97	332.7 ± 6.67	62.0 ± 2.75	n = 15	[JJE] Ortho Vitros 250/350/950
230.9 ± 5.22	76.8 ± 3.34	188.0 ± 4.25	333.3 ± 5.20	63.9 ± 3.44	n = 28	[JJF] Ortho Vitros 5,1FS
230.5 ± 3.63	78.8 ± 3.23	189.8 ± 7.69	333.5 ± 3.63	66.7 ± 1.37	n = 3	[JJG] Ortho Vitros 5600
215.6 ± 7.17	68.0 ± 2.42	178.4 ± 5.53	318.4 ± 12.20	50.3 ± 1.59	n = 14	[ROC] Roche cobas c501
212.7 ± 3.44	67.1 ± 1.23	175.2 ± 3.72	314.0 ± 8.52	47.9 ± 1.20	n = 11	[ROT] Roche Cobas INTEGRA
214.8 ± 7.88	68.6 ± 2.19	177.6 ± 7.07	315.1 ± 11.23	50.3 ± 2.22	n = 38	[ROD] Roche MODULAR D/P
215.5 ± 7.38	70.5 ± 2.41	177.5 ± 6.39	316.4 ± 10.87	51.4 ± 2.54	n = 6	[BYA] Siemens ADVIA 1650
222.3 ± 2.86	72.2 ± 1.60	183.3 ± 2.79	326.2 ± 4.82	53.2 ± 1.71	n = 15	[BYE] Siemens ADVIA 1800
217.0 ± 9.06	68.7 ± 3.07	179.2 ± 7.69	317.3 ± 12.22	51.7 ± 1.37	n = 3	[BYB] Siemens ADVIA 2400
224.5 ± 5.88	83.5 ± 2.58	180.0 ± 3.89	313.9 ± 7.86	60.9 ± 2.16	n = 78	[DUD] Siemens Dimension
227.1 ± 4.82	76.6 ± 1.66	177.2 ± 4.00	317.7 ± 4.74	51.5 ± 1.93	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
209.6 ± 4.16	66.1 ± 2.37	172.6 ± 4.11	311.1 ± 6.18	48.3 ± 1.73	n = 10	[AB1] Abbott
207.0 ± 5.64	69.1 ± 1.84	167.6 ± 4.35	299.6 ± 7.77	49.0 ± 1.73	n = 65	[BC1] Beckman Coulter
187.3 ± 6.61	60.0 ± 2.60	155.6 ± 5.62	277.9 ± 9.22	44.1 ± 1.86	n = 43	[OL1] Beckman Coulter AU Series
205.2 ± 6.64	68.6 ± 4.09	172.2 ± 9.04	306.2 ± 13.74	48.2 ± 5.70	n = 6	[CR1] Carolina
229.6 ± 5.56	75.8 ± 3.56	187.5 ± 4.54	333.1 ± 5.88	63.3 ± 3.53	n = 47	[JJ1] Ortho Clinical Diagnostics
215.6 ± 7.17	68.0 ± 2.42	178.4 ± 5.53	318.4 ± 12.20	50.3 ± 1.59	n = 14	[RO4] Roche cobas c501
215.4 ± 8.22	68.7 ± 2.19	178.2 ± 7.34	316.1 ± 12.06	50.5 ± 2.28	n = 40	[RO2] Roche Hitachi and Modular D/P
212.7 ± 3.44	67.1 ± 1.23	175.2 ± 3.72	314.0 ± 8.52	47.9 ± 1.20	n = 11	[RO1] Roche Integra and MIRA
220.3 ± 5.15	71.5 ± 2.14	181.7 ± 4.33	322.9 ± 7.95	52.6 ± 1.93	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
225.0 ± 5.92	82.8 ± 3.43	179.7 ± 4.05	314.6 ± 7.60	60.5 ± 3.08	n = 91	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Aspartate Aminotransferase (U/L 37°C)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
135.8 ± 10.05	74.9 ± 5.66	291.4 ± 16.93	95.4 ± 5.48	234.2 ± 14.51	n = 364	[---] All Methods & Instruments
						<Instruments>
132.4 ± 2.28	72.4 ± 1.15	283.9 ± 4.87	91.6 ± 1.40	230.0 ± 3.34	n = 9	[ABH] Abbott Architect
120.8 ± 4.96	66.5 ± 2.63	260.5 ± 9.91	85.0 ± 3.08	209.6 ± 8.64	n = 45	[OLC] Beckman Coulter AU Chemistry System
134.8 ± 4.91	75.3 ± 2.87	286.4 ± 10.21	94.0 ± 3.85	230.6 ± 9.16	n = 19	[BCX] Beckman Coulter LX-20
133.5 ± 3.72	73.9 ± 1.73	281.7 ± 5.31	94.2 ± 1.70	227.8 ± 5.19	n = 16	[BCG] Beckman Coulter UniCel DxC 600
133.6 ± 2.45	73.9 ± 1.33	282.7 ± 4.44	93.6 ± 1.41	227.7 ± 4.18	n = 22	[BCH] Beckman Coulter UniCel DxC 800
157.9 ± 4.45	85.8 ± 2.74	321.5 ± 11.71	102.1 ± 2.59	259.1 ± 6.54	n = 15	[JJE] Ortho Vitros 250/350/950
157.9 ± 5.07	86.5 ± 2.85	310.8 ± 12.44	102.0 ± 3.92	256.0 ± 10.34	n = 28	[JJF] Ortho Vitros 5,1FS
154.7 ± 5.09	83.8 ± 3.23	312.7 ± 11.27	100.0 ± 4.51	255.3 ± 4.22	n = 3	[JJG] Ortho Vitros 5600
139.0 ± 5.55	75.6 ± 2.58	301.0 ± 9.59	96.8 ± 3.16	241.8 ± 8.21	n = 14	[ROC] Roche cobas c501
133.8 ± 4.22	73.5 ± 2.29	292.8 ± 10.02	93.2 ± 2.52	234.3 ± 8.00	n = 11	[ROT] Roche Cobas INTEGRA
138.1 ± 3.79	76.0 ± 2.33	295.4 ± 7.52	96.4 ± 2.90	238.4 ± 5.87	n = 38	[ROD] Roche MODULAR D/P
141.6 ± 3.61	79.8 ± 2.49	301.9 ± 8.48	99.9 ± 1.33	243.1 ± 7.30	n = 6	[BYA] Siemens ADVIA 1650
145.2 ± 3.88	81.4 ± 2.78	311.2 ± 5.99	101.9 ± 2.51	250.9 ± 4.06	n = 15	[BYE] Siemens ADVIA 1800
141.8 ± 11.53	76.6 ± 3.87	299.0 ± 15.51	97.5 ± 4.53	241.7 ± 11.29	n = 3	[BYB] Siemens ADVIA 2400
133.0 ± 3.61	73.1 ± 2.51	290.0 ± 6.32	95.4 ± 2.64	231.3 ± 6.21	n = 78	[DUD] Siemens Dimension
138.1 ± 3.11	73.6 ± 1.84	302.6 ± 6.58	97.2 ± 2.10	238.4 ± 4.19	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
132.4 ± 2.13	72.3 ± 1.19	284.6 ± 5.05	91.8 ± 1.44	229.7 ± 3.22	n = 10	[AB1] Abbott
133.4 ± 3.47	74.0 ± 2.06	282.5 ± 6.62	93.5 ± 2.36	227.9 ± 6.11	n = 65	[BC1] Beckman Coulter
120.6 ± 4.75	66.4 ± 2.62	260.3 ± 9.49	84.9 ± 3.07	209.3 ± 8.24	n = 43	[OL1] Beckman Coulter AU Series
142.3 ± 4.85	79.6 ± 1.34	305.6 ± 9.07	99.8 ± 5.48	245.7 ± 11.67	n = 6	[CR1] Carolina
157.7 ± 4.81	86.1 ± 2.90	314.7 ± 13.53	102.0 ± 3.62	257.4 ± 9.43	n = 47	[JJ1] Ortho Clinical Diagnostics
139.0 ± 5.55	75.6 ± 2.58	301.0 ± 9.59	96.8 ± 3.16	241.8 ± 8.21	n = 14	[RO4] Roche cobas c501
138.2 ± 3.94	76.1 ± 2.38	295.7 ± 7.82	96.5 ± 2.97	238.7 ± 6.06	n = 40	[RO2] Roche Hitachi and Modular D/P
133.8 ± 4.22	73.5 ± 2.29	292.8 ± 10.02	93.2 ± 2.52	234.3 ± 8.00	n = 11	[RO1] Roche Integra and MIRA
143.2 ± 5.25	80.3 ± 3.20	306.8 ± 9.77	100.7 ± 2.99	247.4 ± 7.49	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
133.7 ± 4.06	73.2 ± 2.41	291.4 ± 7.61	95.7 ± 2.67	232.3 ± 6.56	n = 91	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

α-Amylase (U/L 37°C)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
68.7 ± 11.56	175.8 ± 42.32	390.5 ±129.06	117.1 ± 17.71	56.0 ± 10.36	n = 320	[---] All Methods & Instruments
						<Instruments>
68.0 ± 1.42	200.4 ± 3.63	473.2 ± 9.51	126.0 ± 1.84	54.2 ± 0.76	n = 7	[ABH] Abbott Architect
54.5 ± 3.65	166.6 ± 8.97	383.3 ± 19.39	104.7 ± 5.59	43.5 ± 2.81	n = 34	[OLC] Beckman Coulter AU Chemistry System
89.0 ± 3.01	128.9 ± 4.93	216.1 ± 6.11	103.3 ± 3.69	75.2 ± 4.02	n = 19	[BCX] Beckman Coulter LX-20
90.1 ± 2.90	128.5 ± 3.51	214.2 ± 3.92	103.0 ± 2.77	75.2 ± 2.79	n = 13	[BCG] Beckman Coulter UniCel DxC 600
90.1 ± 2.92	129.4 ± 2.91	216.2 ± 4.53	104.1 ± 2.77	76.2 ± 3.02	n = 21	[BCH] Beckman Coulter UniCel DxC 800
58.0 ± 3.84	109.4 ± 3.08	240.5 ± 8.48	85.2 ± 3.12	55.1 ± 2.72	n = 11	[JJE] Ortho Vitros 250/350/950
61.6 ± 3.76	115.9 ± 4.08	245.0 ± 9.33	88.9 ± 3.71	56.4 ± 3.16	n = 27	[JJF] Ortho Vitros 5,1FS
63.7 ± 7.58	115.0 ± 2.70	245.8 ± 10.49	87.8 ± 5.00	59.2 ± 4.89	n = 3	[JJG] Ortho Vitros 5600
74.3 ± 1.33	192.9 ± 3.56	418.9 ± 8.21	124.8 ± 2.89	59.5 ± 1.21	n = 13	[ROC] Roche cobas c501
72.5 ± 1.23	187.5 ± 4.55	410.6 ± 5.73	121.8 ± 1.38	58.9 ± 0.49	n = 10	[ROT] Roche Cobas INTEGRA
73.2 ± 1.85	189.3 ± 3.69	413.8 ± 7.18	123.6 ± 2.83	58.8 ± 1.02	n = 34	[ROD] Roche MODULAR D/P
71.2 ± 2.15	190.0 ± 4.41	418.9 ± 9.70	123.5 ± 3.08	58.0 ± 1.37	n = 6	[BYA] Siemens ADVIA 1650
73.7 ± 1.92	197.3 ± 4.91	435.2 ± 10.84	128.4 ± 3.61	60.5 ± 1.57	n = 14	[BYE] Siemens ADVIA 1800
69.9 ± 3.72	182.2 ± 5.90	402.7 ± 12.34	118.7 ± 4.22	56.5 ± 1.86	n = 3	[BYB] Siemens ADVIA 2400
64.2 ± 1.29	216.9 ± 4.38	522.2 ± 10.01	134.4 ± 2.94	49.5 ± 1.23	n = 76	[DUD] Siemens Dimension
61.0 ± 1.13	207.1 ± 2.57	501.8 ± 8.35	127.6 ± 1.61	46.6 ± 1.01	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
68.0 ± 1.42	200.4 ± 3.63	473.2 ± 9.51	126.0 ± 1.84	54.2 ± 0.76	n = 7	[AB1] Abbott
89.7 ± 2.90	128.9 ± 3.94	215.3 ± 5.06	103.5 ± 3.15	75.7 ± 3.14	n = 58	[BC1] Beckman Coulter
54.4 ± 3.46	166.4 ± 9.14	383.4 ± 19.77	104.4 ± 5.32	43.4 ± 2.65	n = 33	[OL1] Beckman Coulter AU Series
85.7 ± 4.06	310.9 ± 5.72	757.7 ± 28.39	188.8 ± 8.70	68.1 ± 2.86	n = 3	[CR1] Carolina
60.3 ± 4.21	114.1 ± 5.32	243.7 ± 9.43	87.9 ± 4.25	56.1 ± 3.18	n = 43	[JJ1] Ortho Clinical Diagnostics
74.3 ± 1.33	192.9 ± 3.56	418.9 ± 8.21	124.8 ± 2.89	59.5 ± 1.21	n = 13	[RO4] Roche cobas c501
73.3 ± 1.84	189.0 ± 3.80	413.4 ± 7.09	123.4 ± 2.79	58.8 ± 1.04	n = 36	[RO2] Roche Hitachi and Modular D/P
72.5 ± 1.23	187.5 ± 4.55	410.6 ± 5.73	121.8 ± 1.38	58.9 ± 0.49	n = 10	[RO1] Roche Integra and MIRA
72.6 ± 2.44	192.9 ± 7.41	425.5 ± 16.21	125.6 ± 4.93	59.2 ± 2.19	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
63.9 ± 1.65	216.0 ± 5.33	520.2 ± 11.91	133.7 ± 3.62	49.2 ± 1.55	n = 89	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Alkaline Phosphatase (U/L 37°C)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
74.4 ± 10.94	136.2 ± 13.70	241.5 ± 21.46	339.2 ± 34.00	157.4 ± 15.88	n = 362	[---] All Methods & Instruments
						<Instruments>
74.9 ± 1.96	141.2 ± 4.72	256.0 ± 6.73	355.5 ± 14.22	163.3 ± 4.92	n = 8	[ABH] Abbott Architect
65.3 ± 5.05	124.2 ± 9.32	224.5 ± 16.51	314.0 ± 22.84	143.6 ± 10.59	n = 45	[OLC] Beckman Coulter AU Chemistry System
65.3 ± 3.51	123.7 ± 7.30	219.1 ± 8.83	311.3 ± 14.33	141.3 ± 6.10	n = 19	[BCX] Beckman Coulter LX-20
64.6 ± 3.91	122.3 ± 9.31	220.5 ± 11.99	306.2 ± 19.65	139.5 ± 7.28	n = 16	[BCG] Beckman Coulter UniCel DxC 600
65.0 ± 2.99	121.4 ± 6.22	219.6 ± 7.67	307.2 ± 13.85	140.6 ± 6.46	n = 23	[BCH] Beckman Coulter UniCel DxC 800
89.0 ± 4.58	147.2 ± 8.57	251.9 ± 15.61	396.3 ± 21.18	180.2 ± 10.12	n = 14	[JJE] Ortho Vitros 250/350/950
92.6 ± 3.99	149.7 ± 7.14	253.3 ± 11.88	401.2 ± 20.19	180.2 ± 8.32	n = 28	[JJF] Ortho Vitros 5,1FS
90.0 ± 6.31	143.8 ± 5.12	246.8 ± 4.89	397.2 ± 18.49	177.8 ± 6.79	n = 3	[JJG] Ortho Vitros 5600
72.7 ± 2.86	137.1 ± 5.49	239.7 ± 8.13	341.7 ± 10.73	156.4 ± 4.84	n = 14	[ROC] Roche cobas c501
70.8 ± 2.57	134.3 ± 3.19	241.4 ± 5.66	337.7 ± 10.51	154.0 ± 4.21	n = 10	[ROT] Roche Cobas INTEGRA
67.4 ± 3.87	128.2 ± 7.82	232.0 ± 9.95	323.5 ± 20.74	148.2 ± 7.82	n = 3	[ROM] Roche Cobas MIRA/MIRA Plus
71.0 ± 2.34	132.1 ± 4.53	233.9 ± 8.11	326.9 ± 11.91	152.2 ± 5.40	n = 38	[ROD] Roche MODULAR D/P
70.7 ± 2.81	134.5 ± 5.28	243.2 ± 8.40	337.7 ± 12.63	154.3 ± 6.34	n = 6	[BYA] Siemens ADVIA 1650
75.3 ± 3.32	142.1 ± 7.58	256.9 ± 10.43	356.5 ± 19.12	165.6 ± 8.02	n = 15	[BYE] Siemens ADVIA 1800
70.6 ± 4.72	132.5 ± 4.53	240.9 ± 5.22	334.2 ± 4.89	156.0 ± 2.70	n = 3	[BYB] Siemens ADVIA 2400
85.0 ± 6.58	149.8 ± 8.72	264.9 ± 13.81	356.6 ± 18.94	169.0 ± 8.32	n = 78	[DUD] Siemens Dimension
72.1 ± 5.36	133.0 ± 7.39	234.0 ± 17.37	330.9 ± 17.84	157.7 ± 6.71	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
74.7 ± 1.96	140.7 ± 4.56	255.3 ± 6.59	354.7 ± 13.23	163.4 ± 4.58	n = 9	[AB1] Abbott
65.0 ± 3.31	122.2 ± 6.93	220.0 ± 9.13	307.6 ± 14.74	140.8 ± 6.56	n = 65	[BC1] Beckman Coulter
65.1 ± 4.84	123.8 ± 8.90	223.9 ± 15.90	313.3 ± 21.79	143.2 ± 10.16	n = 44	[OL1] Beckman Coulter AU Series
70.9 ± 4.66	138.3 ± 2.02	240.8 ± 18.96	335.2 ± 29.48	154.7 ± 11.85	n = 5	[CR1] Carolina
91.3 ± 4.89	148.4 ± 7.95	251.9 ± 12.87	398.7 ± 20.86	179.8 ± 9.07	n = 46	[JJ1] Ortho Clinical Diagnostics
72.7 ± 2.86	137.1 ± 5.49	239.7 ± 8.13	341.7 ± 10.73	156.4 ± 4.84	n = 14	[RO4] Roche cobas c501
71.2 ± 2.56	132.5 ± 4.87	234.5 ± 8.66	327.8 ± 12.80	152.6 ± 5.76	n = 40	[RO2] Roche Hitachi and Modular D/P
70.7 ± 2.39	133.7 ± 3.58	240.6 ± 6.01	336.2 ± 10.96	153.5 ± 4.22	n = 11	[RO1] Roche Integra and MIRA
73.2 ± 4.21	137.8 ± 8.05	249.6 ± 12.55	346.0 ± 19.27	160.3 ± 9.18	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
83.7 ± 7.62	148.1 ± 10.16	262.6 ± 16.55	353.6 ± 20.73	167.6 ± 8.97	n = 91	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

γ-Glutamyltransferase (U/L 37°C)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
29.2 ± 6.11	48.7 ± 10.25	196.3 ± 32.59	116.4 ± 24.80	244.3 ± 49.51	n = 306	[---] All Methods & Instruments
						<Instruments>
31.2 ± 0.47	49.6 ± 1.13	202.4 ± 2.65	118.9 ± 3.09	247.5 ± 4.12	n = 7	[ABH] Abbott Architect
25.4 ± 1.44	39.7 ± 1.90	159.1 ± 6.98	92.0 ± 3.78	191.9 ± 7.46	n = 42	[OLC] Beckman Coulter AU Chemistry System
24.0 ± 1.49	44.2 ± 2.91	207.4 ± 5.91	115.8 ± 4.56	249.1 ± 10.16	n = 13	[BCX] Beckman Coulter LX-20
24.4 ± 0.89	45.9 ± 1.85	212.3 ± 7.64	119.3 ± 5.32	256.7 ± 10.69	n = 12	[BCG] Beckman Coulter UniCel DxC 600
24.1 ± 1.43	46.1 ± 2.06	211.1 ± 4.91	118.8 ± 2.43	256.4 ± 5.95	n = 18	[BCH] Beckman Coulter UniCel DxC 800
35.3 ± 2.47	71.2 ± 2.72	353.1 ± 11.01	188.2 ± 5.47	407.8 ± 12.04	n = 10	[JJE] Ortho Vitros 250/350/950
35.0 ± 1.99	70.2 ± 2.50	345.5 ± 8.88	184.1 ± 4.65	394.1 ± 8.15	n = 27	[JJF] Ortho Vitros 5,1FS
32.0 ± 0.90	67.7 ± 1.37	340.0 ± 7.27	184.7 ± 3.16	390.4 ± 12.82	n = 3	[JJG] Ortho Vitros 5600
26.7 ± 0.63	43.0 ± 0.95	177.2 ± 4.73	102.9 ± 2.71	216.9 ± 5.70	n = 13	[ROC] Roche cobas c501
23.9 ± 1.19	40.4 ± 1.35	170.0 ± 3.48	97.2 ± 1.85	206.7 ± 4.34	n = 10	[ROT] Roche Cobas INTEGRA
26.4 ± 0.91	43.2 ± 1.15	179.3 ± 4.31	103.7 ± 2.32	219.2 ± 5.26	n = 35	[ROD] Roche MODULAR D/P
25.2 ± 1.55	42.4 ± 1.52	177.7 ± 13.32	103.2 ± 6.31	218.7 ± 14.80	n = 5	[BYA] Siemens ADVIA 1650
28.5 ± 1.79	45.9 ± 1.89	190.7 ± 6.16	110.6 ± 3.61	233.2 ± 6.75	n = 15	[BYE] Siemens ADVIA 1800
38.2 ± 2.10	57.8 ± 2.18	227.4 ± 5.14	133.6 ± 3.16	277.5 ± 5.93	n = 61	[DUD] Siemens Dimension
33.8 ± 1.96	54.3 ± 2.11	229.5 ± 3.26	133.3 ± 2.26	281.1 ± 4.28	n = 11	[DUT] Siemens Dimension Vista
						<Reagents>
31.1 ± 0.60	49.7 ± 1.03	202.8 ± 2.26	119.0 ± 0.96	247.4 ± 3.61	n = 8	[AB1] Abbott
24.0 ± 1.30	45.4 ± 2.28	209.5 ± 6.88	117.6 ± 4.46	253.8 ± 9.36	n = 48	[BC1] Beckman Coulter
25.3 ± 1.43	39.7 ± 1.91	158.9 ± 6.99	91.9 ± 3.75	191.6 ± 7.29	n = 41	[OL1] Beckman Coulter AU Series
25.3 ± 2.18	37.6 ± 4.08	142.3 ± 9.07	83.5 ± 5.81	170.3 ± 11.19	n = 5	[CR1] Carolina
34.8 ± 2.26	70.2 ± 2.67	346.6 ± 9.91	185.1 ± 5.03	396.7 ± 11.05	n = 40	[JJ1] Ortho Clinical Diagnostics
26.7 ± 0.63	43.0 ± 0.95	177.2 ± 4.73	102.9 ± 2.71	216.9 ± 5.70	n = 13	[RO4] Roche cobas c501
26.5 ± 0.89	43.3 ± 1.18	179.6 ± 4.47	103.9 ± 2.48	219.6 ± 5.41	n = 37	[RO2] Roche Hitachi and Modular D/P
23.9 ± 1.19	40.4 ± 1.35	170.0 ± 3.48	97.2 ± 1.85	206.7 ± 4.34	n = 10	[RO1] Roche Integra and MIRA
27.4 ± 2.12	44.5 ± 2.45	186.4 ± 9.96	107.9 ± 5.40	228.5 ± 10.49	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
37.6 ± 2.60	57.4 ± 2.50	227.8 ± 4.91	133.5 ± 2.99	278.1 ± 5.91	n = 72	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

Creatine Kinase (U/L 37°C)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
284.3 ± 16.68	94.4 ± 9.08	283.5 ± 23.42	64.3 ± 10.44	359.3 ± 24.89	n = 333	[---] All Methods & Instruments
						<Instruments>
301.3 ± 10.93	102.3 ± 3.75	297.8 ± 8.04	75.7 ± 2.31	387.6 ± 13.98	n = 9	[ABH] Abbott Architect
265.5 ± 12.03	88.0 ± 3.86	264.8 ± 12.32	60.8 ± 2.89	336.1 ± 17.98	n = 41	[OLC] Beckman Coulter AU Chemistry System
307.5 ± 6.93	102.4 ± 3.39	311.5 ± 7.11	74.1 ± 2.49	396.2 ± 11.11	n = 19	[BCX] Beckman Coulter LX-20
302.8 ± 7.07	100.2 ± 3.09	303.7 ± 5.74	73.0 ± 1.56	384.2 ± 8.01	n = 13	[BCG] Beckman Coulter UniCel DxC 600
306.4 ± 8.48	102.0 ± 3.50	307.9 ± 11.31	73.5 ± 2.69	394.4 ± 14.09	n = 22	[BCH] Beckman Coulter UniCel DxC 800
298.1 ± 12.97	108.3 ± 4.34	332.9 ± 17.64	71.5 ± 2.77	383.5 ± 18.22	n = 11	[JJE] Ortho Vitros 250/350/950
290.0 ± 12.96	106.9 ± 4.46	325.2 ± 10.95	71.8 ± 3.64	369.9 ± 13.17	n = 27	[JJF] Ortho Vitros 5,1FS
285.8 ± 7.69	104.7 ± 4.96	321.6 ± 13.71	70.1 ± 3.72	372.1 ± 16.32	n = 3	[JJG] Ortho Vitros 5600
289.8 ± 9.15	95.5 ± 2.62	288.4 ± 9.77	66.3 ± 1.52	372.5 ± 13.82	n = 13	[ROC] Roche cobas c501
272.3 ± 8.48	84.3 ± 5.20	269.8 ± 8.08	55.8 ± 3.71	347.9 ± 14.09	n = 9	[ROT] Roche Cobas INTEGRA
279.5 ± 6.44	96.9 ± 2.03	276.2 ± 5.99	72.9 ± 1.57	358.4 ± 8.58	n = 36	[ROD] Roche MODULAR D/P
288.9 ± 6.93	95.5 ± 2.73	276.1 ± 8.45	60.2 ± 2.15	347.3 ± 18.68	n = 6	[BYA] Siemens ADVIA 1650
294.8 ± 5.72	97.6 ± 2.47	283.1 ± 5.44	61.8 ± 1.98	364.0 ± 11.35	n = 15	[BYE] Siemens ADVIA 1800
290.0 ± 10.85	95.5 ± 3.63	277.0 ± 11.75	60.2 ± 3.23	361.2 ± 13.08	n = 3	[BYB] Siemens ADVIA 2400
276.9 ± 8.26	84.9 ± 3.01	269.4 ± 7.72	51.0 ± 2.66	344.1 ± 12.55	n = 76	[DUD] Siemens Dimension
280.2 ± 7.55	89.4 ± 2.22	271.1 ± 7.90	53.3 ± 2.05	345.2 ± 16.02	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
301.3 ± 10.93	102.3 ± 3.75	297.8 ± 8.04	75.7 ± 2.31	387.6 ± 13.98	n = 9	[AB1] Abbott
304.9 ± 9.53	101.3 ± 3.70	307.3 ± 10.47	73.4 ± 2.58	390.8 ± 16.08	n = 60	[BC1] Beckman Coulter
265.2 ± 11.51	88.0 ± 3.81	264.4 ± 11.69	60.8 ± 2.89	335.5 ± 16.98	n = 40	[OL1] Beckman Coulter AU Series
261.7 ± 15.58	87.6 ± 3.55	259.3 ± 24.10	57.8 ± 8.90	340.0 ± 28.79	n = 4	[CR1] Carolina
291.8 ± 13.13	107.1 ± 4.54	326.7 ± 13.52	71.6 ± 3.54	373.5 ± 16.29	n = 41	[JJ1] Ortho Clinical Diagnostics
289.8 ± 9.15	95.5 ± 2.62	288.4 ± 9.77	66.3 ± 1.52	372.5 ± 13.82	n = 13	[RO4] Roche cobas c501
279.7 ± 6.22	96.9 ± 1.98	276.6 ± 6.06	73.0 ± 1.57	358.6 ± 8.43	n = 38	[RO2] Roche Hitachi and Modular D/P
272.3 ± 8.48	84.3 ± 5.20	269.8 ± 8.08	55.8 ± 3.71	347.9 ± 14.09	n = 9	[RO1] Roche Integra and MIRA
291.5 ± 8.65	96.5 ± 3.17	279.3 ± 9.25	61.3 ± 2.21	358.7 ± 14.77	n = 26	[BY1] Siemens ADVIA/ADVIA Centaur
277.3 ± 8.24	85.5 ± 3.39	269.6 ± 7.75	51.3 ± 2.74	344.2 ± 13.05	n = 88	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

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

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
18.35 ± 6.43	2.42 ± 0.87	1.96 ± 1.67	1.28 ± 0.73	22.11 ± 6.97	n = 9	[---] All Methods – Results reported in U/L
12.69 ± 5.92	2.05 ± 0.27	1.62 ± 0.69	1.17 ± 0.32	17.04 ± 7.75	n = 3	[BC1] Beckman Coulter
16.43 ± 3.11	1.27 ± 0.52	0.55 ± 0.35	0.63 ± 0.34	23.55 ± 3.73	n = 213	[-A-] All Methods – Results reported in ng/mL
17.38 ± 1.74	1.54 ± 0.37	0.60 ± 0.20	0.81 ± 0.25	24.37 ± 2.77	n = 19	[AB1] Abbott
19.15 ± 1.09	2.43 ± 1.65	1.64 ± 2.15	1.79 ± 2.06	26.67 ± 1.29	n = 23	[SAA] Beckman Coulter ACCESS
19.32 ± 1.31	1.68 ± 0.10	0.61 ± 0.05	0.81 ± 0.05	27.27 ± 1.68	n = 17	[BC-] Beckman Coulter LX-20/DxC 600/DxI 800
12.30 ± 2.62	1.05 ± 0.12	1.00 ± 0.00	1.00 ± 0.00	14.83 ± 1.45	n = 4	[BS1] Biosite Diagnostics
11.99 ± 0.52	1.01 ± 0.10	0.27 ± 0.05	0.37 ± 0.06	16.95 ± 0.80	n = 17	[JJ1] Ortho Clinical
20.14 ± 1.05	2.19 ± 0.20	1.18 ± 0.14	1.03 ± 0.09	27.31 ± 1.47	n = 26	[RO3] Roche Elecsys/Modular E/e601/
16.37 ± 0.88	1.09 ± 0.19	0.24 ± 0.13	0.30 ± 0.15	22.40 ± 1.22	n = 33	[BY1] Siemens ADVIA/ADVIA Centaur
14.23 ± 0.93	0.81 ± 0.21	0.40 ± 0.27	0.45 ± 0.27	21.87 ± 1.70	n = 48	[DUD] Siemens Dimension
14.34 ± 0.52	1.14 ± 0.18	0.79 ± 0.19	0.67 ± 0.19	21.02 ± 0.90	n = 10	[DUT] Siemens Dimension Vista
17.80 ± 0.00	1.50 ± 0.00	0.50 ± 0.00	0.70 ± 0.00	25.35 ± 0.40	n = 2	[DAC] Siemens Stratus CS
14.35 ± 1.85	1.21 ± 0.41	0.57 ± 0.12	0.68 ± 0.31	22.56 ± 2.24	n = 7	[DP5] Siemens Immulite
20.26 ± 1.03	1.25 ± 0.91	0.73 ± 0.14	0.55 ± 0.45	29.76 ± 1.09	n = 3	[TOM] Tosoh Bioscience
2.19 ± 2.14	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	4.90 ± 2.16	n = 5	[-P-] All Methods – Results reported as %
1.90 ± 2.35	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00	4.55 ± 2.30	n = 4	[HL1] Helena Laboratories

Summary of Participant Performance (Mean and Standard Deviation)

Lactate Dehydrogenase (U/L 37°C)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
147.6 ± 14.40	119.8 ± 11.63	219.8 ± 22.01	160.5 ± 15.45	323.1 ± 30.83	n = 271	[-A-] All Methods - Lactate to Pyruvate
412.3 ± 17.43	352.5 ± 13.07	631.2 ± 17.40	478.5 ± 14.69	920.6 ± 27.94	n = 46	[-B-] All Methods - Pyruvate to Lactate
						<Instruments>
156.9 ± 4.96	126.6 ± 4.70	224.2 ± 9.07	166.7 ± 4.91	337.1 ± 11.99	n = 8	[ABH] Abbott Architect
144.1 ± 9.51	116.9 ± 7.60	214.1 ± 11.91	155.3 ± 7.95	315.4 ± 16.68	n = 42	[OLC] Beckman Coulter AU Chemistry System
136.4 ± 5.97	111.7 ± 4.32	203.1 ± 7.54	148.4 ± 5.85	300.5 ± 11.39	n = 18	[BCX] Beckman Coulter LX-20
135.4 ± 4.41	110.9 ± 3.35	200.0 ± 6.13	148.8 ± 4.52	296.7 ± 8.95	n = 13	[BCG] Beckman Coulter UniCel DxC 600
137.1 ± 5.01	111.7 ± 2.57	201.9 ± 6.17	148.0 ± 4.76	298.1 ± 9.61	n = 20	[BCH] Beckman Coulter UniCel DxC 800
415.5 ± 17.71	352.8 ± 13.05	635.3 ± 14.72	484.9 ± 7.74	926.1 ± 27.56	n = 12	[JJE] Ortho Vitros 250/350/950
411.7 ± 18.50	352.0 ± 13.81	629.7 ± 18.62	476.7 ± 18.21	919.2 ± 30.89	n = 28	[JJF] Ortho Vitros 5,1FS
405.3 ± 11.29	348.5 ± 12.80	620.3 ± 23.92	478.0 ± 15.34	901.5 ± 13.65	n = 3	[JJG] Ortho Vitros 5600
165.6 ± 7.15	134.2 ± 5.53	249.3 ± 9.25	181.6 ± 4.83	362.4 ± 12.31	n = 14	[ROC] Roche cobas c501
165.2 ± 4.87	134.5 ± 4.36	248.6 ± 5.16	178.5 ± 2.31	360.9 ± 8.65	n = 9	[ROT] Roche Cobas INTEGRA
164.8 ± 4.62	133.4 ± 4.33	248.2 ± 6.88	179.4 ± 3.88	363.3 ± 8.43	n = 34	[ROD] Roche MODULAR D/P
159.8 ± 5.07	129.3 ± 3.81	237.8 ± 6.78	172.8 ± 4.83	343.7 ± 11.56	n = 6	[BYA] Siemens ADVIA 1650
165.9 ± 4.57	134.9 ± 4.30	248.9 ± 6.67	181.2 ± 4.84	361.4 ± 9.88	n = 15	[BYE] Siemens ADVIA 1800
156.5 ± 1.86	126.9 ± 2.05	232.7 ± 3.37	169.5 ± 1.86	341.2 ± 5.00	n = 3	[BYB] Siemens ADVIA 2400
139.5 ± 4.81	112.8 ± 3.96	208.3 ± 6.95	152.2 ± 5.25	306.8 ± 9.76	n = 64	[DUD] Siemens Dimension
145.2 ± 5.02	115.4 ± 4.60	214.8 ± 9.42	159.2 ± 4.39	315.7 ± 9.81	n = 12	[DUT] Siemens Dimension Vista
						<Reagents>
158.0 ± 5.69	127.6 ± 5.21	226.1 ± 10.58	167.8 ± 6.10	339.5 ± 13.64	n = 9	[AB1] Abbott
136.0 ± 5.25	111.1 ± 3.69	201.1 ± 6.67	147.7 ± 5.35	297.3 ± 10.81	n = 58	[BC1] Beckman Coulter
144.1 ± 9.11	116.9 ± 7.39	214.2 ± 11.55	155.3 ± 7.63	315.5 ± 15.96	n = 40	[OL1] Beckman Coulter AU Series
128.8 ± 2.43	105.9 ± 2.69	196.9 ± 11.29	143.2 ± 4.87	284.0 ± 10.67	n = 5	[CR1] Carolina
412.1 ± 18.02	352.0 ± 13.52	631.0 ± 18.14	478.9 ± 15.14	919.7 ± 29.37	n = 43	[JJ1] Ortho Clinical Diagnostics
165.6 ± 7.15	134.2 ± 5.53	249.3 ± 9.25	181.6 ± 4.83	362.4 ± 12.31	n = 14	[RO4] Roche cobas c501
165.0 ± 4.77	133.7 ± 4.39	248.5 ± 6.90	179.6 ± 4.05	363.7 ± 8.49	n = 36	[RO2] Roche Hitachi and Modular D/P
165.2 ± 4.87	134.5 ± 4.36	248.6 ± 5.16	178.5 ± 2.31	360.9 ± 8.65	n = 9	[RO1] Roche Integra and MIRA
162.4 ± 6.56	131.5 ± 5.59	242.7 ± 9.88	176.7 ± 7.07	352.7 ± 13.78	n = 25	[BY1] Siemens ADVIA/ADVIA Centaur
140.4 ± 5.31	113.2 ± 4.24	209.3 ± 7.84	153.3 ± 6.01	308.2 ± 10.45	n = 76	[DA1] Siemens Dimension/Stratus

Summary of Participant Performance (Mean and Standard Deviation)

LDH Isoenzyme 1 (%)

Specimen: C36	Specimen: C37	Specimen: C38	Specimen: C39	Specimen: C40	Number	[Code] Instrument or Reagent System
30.5 ± 3.35	30.5 ± 3.70	50.3 ± 2.76	50.4 ± 3.01	21.1 ± 3.63	n = 10	[-P-] All Methods (results reported as %)
						<Instruments>
33.0 ± 1.28	33.2 ± 1.07	51.4 ± 1.33	51.9 ± 1.83	23.7 ± 1.81	n = 5	[HLS] Helena SPIFE
27.3 ± 1.37	26.4 ± 3.87	48.7 ± 4.06	49.0 ± 3.58	18.0 ± 1.80	n = 3	[SEE] Sebia Electrophoresis
						<Reagents>
32.6 ± 1.45	32.6 ± 1.61	51.1 ± 1.35	51.5 ± 1.86	23.6 ± 1.62	n = 6	[HL1] Helena Laboratories
27.3 ± 1.37	26.4 ± 3.87	48.7 ± 4.06	49.0 ± 3.58	18.0 ± 1.80	n = 3	[SE1] Sebia