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Endocrinology Proficiency Test Program

Statistical Summary – February 2015 (Event 15-1)

This statistical report summarizes participant data for the five Endocrinology proficiency survey specimens shipped 2 February 2015 (originally scheduled 26 January 2015). Test specimens E21-E25 were prepared by the quantitative transfer of constituents to a pooled human serum base. This material was subsequently sterile-filtered, dispensed into aliquots, stored at – 80°C, and distributed to participants for analysis.

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 are calculated by a robust statistical technique that does not assume a Gaussian distribution.

Disclaimer

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.

Should you have any questions regarding this report, please contact the Endocrinology Section at (518) 474-6930.

Statistical Summary (Mean and Standard Deviation)

Thyroxin (T4, µg/dL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
2.44 ± 1.02	2.54 ± 0.86	10.30 ± 1.06	8.73 ± 1.74	14.88 ± 1.58	n = 231	All Methods & Instruments
2.50	2.70	10.20	8.20	14.70	n = 231	Median value, All Methods & Instruments
<Instruments>						
2.86 ± 0.21	2.87 ± 0.21	9.10 ± 0.36	8.25 ± 0.29	14.28 ± 1.00	n = 19	Abbott Architect i System
2.31 ± 0.25	2.79 ± 0.35	10.90 ± 0.76	11.75 ± 0.67	15.13 ± 0.74	n = 18	Beckman Coulter ACCESS
2.74 ± 0.21	2.47 ± 0.33	10.35 ± 0.43	8.12 ± 0.24	16.13 ± 0.69	n = 7	Beckman Coulter AU Chemistry System
2.14 ± 0.20	2.51 ± 0.19	10.97 ± 0.32	12.66 ± 1.32	15.01 ± 1.02	n = 4	Beckman Coulter UniCel DxI 600
2.12 ± 0.25	2.64 ± 0.22	10.69 ± 0.87	12.45 ± 0.87	15.17 ± 0.65	n = 15	Beckman Coulter UniCel DxI 800
2.28 ± 0.13	2.39 ± 0.10	10.73 ± 0.51	7.97 ± 0.34	15.95 ± 0.80	n = 16	Ortho Vitros 5600
2.22 ± 0.07	2.40 ± 0.11	10.76 ± 0.23	8.17 ± 0.11	15.85 ± 0.28	n = 4	Ortho Vitros ECi/ECiQ
2.88 ± 0.15	2.87 ± 0.13	9.78 ± 0.27	8.07 ± 0.14	14.01 ± 0.44	n = 3	Roche cobas e411
2.95 ± 0.12	2.79 ± 0.11	9.74 ± 0.34	7.92 ± 0.23	13.93 ± 0.49	n = 20	Roche cobas e601
2.92 ± 0.10	2.82 ± 0.07	9.85 ± 0.34	8.02 ± 0.19	14.21 ± 0.59	n = 6	Roche cobas e602
3.01 ± 0.11	2.83 ± 0.06	9.97 ± 0.43	8.09 ± 0.07	14.01 ± 0.16	n = 4	Roche Elecsys
3.00 ± 0.10	2.87 ± 0.13	9.84 ± 0.27	8.05 ± 0.23	14.11 ± 0.44	n = 7	Roche MODULAR E
0.95 ± 0.31	1.26 ± 0.27	10.01 ± 0.41	7.48 ± 0.45	13.72 ± 0.65	n = 48	Siemens ADVIA Centaur
2.78 ± 0.36	2.53 ± 0.35	11.50 ± 0.60	9.14 ± 0.56	16.65 ± 0.29	n = 5	Siemens Dimension EXL
4.36 ± 0.72	4.36 ± 0.76	13.42 ± 0.49	10.88 ± 0.68	18.52 ± 0.71	n = 30	Siemens Dimension Vista
2.14 ± 0.30	2.18 ± 0.04	10.48 ± 0.20	8.00 ± 0.64	15.05 ± 1.37	n = 4	Siemens Immulite 1000
2.01 ± 0.20	1.97 ± 0.12	9.73 ± 0.34	7.81 ± 0.22	14.30 ± 0.42	n = 10	Siemens Immulite 2000
2.92 ± 0.13	2.60 ± 0.15	10.06 ± 0.54	9.53 ± 0.33	15.06 ± 0.53	n = 4	Tosoh Bioscience
2.58 ± 0.51	2.62 ± 0.27	10.25 ± 0.62	8.59 ± 1.41	14.84 ± 0.99	n = 18	Mean of Above Means
<Reagents>						
2.86 ± 0.21	2.87 ± 0.21	9.10 ± 0.36	8.25 ± 0.29	14.28 ± 1.00	n = 19	Abbott
2.21 ± 0.25	2.67 ± 0.28	10.83 ± 0.77	12.07 ± 0.90	15.14 ± 0.74	n = 37	Beckman Coulter
2.74 ± 0.21	2.47 ± 0.33	10.35 ± 0.43	8.12 ± 0.24	16.13 ± 0.69	n = 7	Microgenics DRI
2.26 ± 0.12	2.39 ± 0.10	10.75 ± 0.44	8.02 ± 0.31	15.93 ± 0.69	n = 20	Ortho Clinical Diagnostics
2.96 ± 0.12	2.82 ± 0.11	9.80 ± 0.34	7.99 ± 0.22	14.01 ± 0.47	n = 40	Roche Elecsys/Modular E/e601/e411
0.95 ± 0.31	1.26 ± 0.27	10.01 ± 0.41	7.48 ± 0.45	13.72 ± 0.65	n = 48	Siemens ADVIA/ADVIS Centaur
4.05 ± 0.96	4.05 ± 1.03	13.07 ± 0.98	10.62 ± 0.96	18.16 ± 1.12	n = 35	Siemens Dimension
4.29 ± 0.74	4.02 ± 0.69	12.46 ± 0.98	9.99 ± 0.57	17.85 ± 1.10	n = 3	Siemens Dimension LOCI
2.04 ± 0.24	2.04 ± 0.15	9.96 ± 0.49	7.80 ± 0.25	14.34 ± 0.48	n = 14	Siemens Immulite
2.69 ± 0.99	2.71 ± 0.85	10.54 ± 1.21	8.68 ± 1.46	15.37 ± 1.64	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T4 (ng/dL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
0.53 ± 0.06	1.18 ± 0.26	1.88 ± 0.27	4.58 ± 0.86	3.10 ± 0.58	n = 258	All Methods & Instruments
0.51	1.20	1.90	4.50	3.10	n = 258	Median value, All Methods & Instruments
<Instruments>						
0.56 ± 0.05	0.84 ± 0.05	1.53 ± 0.05	2.92 ± 0.17	2.36 ± 0.11	n = 20	Abbott Architect i System
0.50 ± 0.00	1.28 ± 0.07	1.79 ± 0.10	3.85 ± 0.13	2.61 ± 0.10	n = 19	Beckman Coulter ACCESS
0.49 ± 0.05	1.21 ± 0.01	1.74 ± 0.08	4.17 ± 0.16	2.67 ± 0.09	n = 6	Beckman Coulter UniCel DxI 600
0.52 ± 0.06	1.24 ± 0.10	1.75 ± 0.09	4.24 ± 0.16	2.74 ± 0.13	n = 17	Beckman Coulter UniCel DxI 800
0.60 ± 0.00	1.54 ± 0.06	3.22 ± 0.16	7.00 ± 0.01	5.63 ± 0.17	n = 17	Ortho Vitros 5600
0.63 ± 0.04	1.60 ± 0.15	3.29 ± 0.23	6.98 ± 0.04	5.68 ± 0.27	n = 4	Ortho Vitros ECi/ECiQ
0.55 ± 0.03	1.35 ± 0.04	2.17 ± 0.07	5.20 ± 0.13	3.74 ± 0.13	n = 4	Roche cobas e411
0.56 ± 0.04	1.35 ± 0.06	2.17 ± 0.08	5.24 ± 0.35	3.78 ± 0.16	n = 20	Roche cobas e601
0.57 ± 0.04	1.36 ± 0.05	2.21 ± 0.04	5.35 ± 0.20	3.81 ± 0.08	n = 6	Roche cobas e602
0.52 ± 0.06	1.27 ± 0.11	2.03 ± 0.16	4.82 ± 0.59	3.48 ± 0.35	n = 3	Roche Elecsys
0.55 ± 0.05	1.33 ± 0.05	2.17 ± 0.06	5.31 ± 0.23	3.82 ± 0.10	n = 10	Roche MODULAR E
0.55 ± 0.07	1.16 ± 0.08	1.97 ± 0.11	4.51 ± 0.25	3.30 ± 0.17	n = 57	Siemens ADVIA Centaur
0.50 ± 0.01	0.90 ± 0.07	1.66 ± 0.07	4.47 ± 0.24	2.88 ± 0.15	n = 11	Siemens Dimension EXL
0.50 ± 0.00	0.88 ± 0.04	1.67 ± 0.05	4.41 ± 0.15	2.87 ± 0.09	n = 36	Siemens Dimension Vista
0.41 ± 0.06	0.97 ± 0.08	1.49 ± 0.16	3.85 ± 0.28	2.38 ± 0.17	n = 4	Siemens Dimension Xpand
0.63 ± 0.05	1.80 ± 0.09	2.10 ± 0.00	5.20 ± 0.18	3.10 ± 0.09	n = 3	Siemens Immulite 1000
0.55 ± 0.06	1.69 ± 0.07	1.96 ± 0.06	5.38 ± 0.35	3.06 ± 0.17	n = 11	Siemens Immulite 2000
0.47 ± 0.05	1.18 ± 0.17	2.47 ± 0.14	6.06 ± 0.18	4.53 ± 0.25	n = 4	Tosoh Bioscience
0.54 ± 0.05	1.27 ± 0.27	1.96 ± 0.35	4.89 ± 0.99	3.29 ± 0.84	n = 18	Mean of Above Means
<Reagents>						
0.56 ± 0.05	0.84 ± 0.05	1.53 ± 0.05	2.92 ± 0.17	2.36 ± 0.11	n = 20	Abbott
0.51 ± 0.04	1.26 ± 0.08	1.76 ± 0.10	4.05 ± 0.25	2.67 ± 0.13	n = 42	Beckman Coulter
0.60 ± 0.00	1.54 ± 0.09	3.23 ± 0.16	7.00 ± 0.01	5.63 ± 0.17	n = 21	Ortho Clinical Diagnostics
0.56 ± 0.04	1.34 ± 0.06	2.17 ± 0.07	5.26 ± 0.30	3.79 ± 0.14	n = 43	Roche Elecsys/Modular E/e601/e411
0.55 ± 0.07	1.16 ± 0.08	1.98 ± 0.11	4.51 ± 0.25	3.31 ± 0.18	n = 58	Siemens ADVIA/ADVIS Centaur
0.44 ± 0.07	1.01 ± 0.12	1.55 ± 0.14	4.04 ± 0.30	2.50 ± 0.23	n = 7	Siemens Dimension
0.50 ± 0.01	0.89 ± 0.05	1.67 ± 0.06	4.42 ± 0.18	2.87 ± 0.10	n = 46	Siemens Dimension LOCI
0.57 ± 0.06	1.71 ± 0.09	1.99 ± 0.08	5.33 ± 0.33	3.07 ± 0.15	n = 14	Siemens Immulite
0.54 ± 0.05	1.21 ± 0.31	1.80 ± 0.26	4.59 ± 1.08	2.91 ± 0.50	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T3-Uptake (%)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
33.23 ± 5.81	51.10 ± 8.94	38.51 ± 4.34	54.66 ± 8.48	41.76 ± 4.32	n = 130	All Methods & Instruments
33.00	50.70	38.30	54.30	42.00	n = 130	Median value, All Methods & Instruments
32.46 ± 2.35	57.66 ± 3.59	29.96 ± 1.67	59.96 ± 3.57	30.81 ± 2.36	n = 7	<Instruments>
39.20 ± 2.58	55.29 ± 3.72	44.52 ± 2.56	58.61 ± 2.40	46.69 ± 2.38	n = 14	Abbott Architect i System
32.67 ± 1.78	50.00 ± 0.00	38.95 ± 1.46	50.00 ± 0.00	42.23 ± 0.82	n = 7	Beckman Coulter ACCESS
38.71 ± 1.97	53.44 ± 3.60	44.42 ± 2.44	57.05 ± 3.37	46.00 ± 2.14	n = 12	Beckman Coulter AU Chemistry System
45.47 ± 1.76	61.17 ± 1.97	40.48 ± 1.47	64.82 ± 0.30	44.35 ± 1.74	n = 8	Beckman Coulter UniCel DxI 800
45.30 ± 1.85	60.48 ± 0.71	40.60 ± 0.95	64.61 ± 1.06	43.99 ± 1.45	n = 4	Ortho Vitros 5600
31.70 ± 1.64	39.65 ± 0.70	37.02 ± 0.91	45.38 ± 1.25	41.11 ± 1.01	n = 5	Ortho Vitros ECi/ECiQ
30.84 ± 2.31	39.38 ± 2.13	36.17 ± 2.42	44.59 ± 2.20	40.11 ± 2.88	n = 3	Roche cobas e601
27.55 ± 1.36	59.41 ± 2.47	37.10 ± 1.53	63.00 ± 2.95	39.64 ± 1.63	n = 24	Roche cobas e602
32.61 ± 1.89	42.71 ± 2.41	37.42 ± 1.98	47.58 ± 1.98	41.85 ± 2.69	n = 5	Siemens ADVIA Centaur
33.61 ± 1.14	42.62 ± 2.11	38.31 ± 1.90	48.13 ± 3.34	41.83 ± 2.14	n = 20	Siemens Dimension EXL
27.26 ± 0.65	46.01 ± 0.80	29.34 ± 0.74	48.25 ± 1.28	31.72 ± 0.86	n = 3	Siemens Dimension Vista
27.34 ± 1.88	42.56 ± 2.60	30.60 ± 1.79	42.96 ± 3.66	32.58 ± 0.79	n = 7	Siemens Immulite 1000
33.53 ± 6.04	49.96 ± 8.83	37.52 ± 4.93	53.22 ± 8.59	40.86 ± 5.16	n = 13	Siemens Immulite 2000
32.46 ± 2.35	57.66 ± 3.59	29.96 ± 1.67	59.96 ± 3.57	30.81 ± 2.36	n = 7	Mean of Above Means
38.72 ± 2.40	54.11 ± 3.85	44.22 ± 2.58	57.73 ± 3.25	46.14 ± 2.37	n = 28	<Reagents>
32.77 ± 1.28	50.00 ± 0.00	39.02 ± 0.96	50.00 ± 0.00	42.20 ± 0.88	n = 8	Abbott
45.42 ± 1.79	60.76 ± 1.51	40.49 ± 1.28	64.90 ± 0.24	44.21 ± 1.62	n = 12	Beckman Coulter
31.44 ± 1.55	40.18 ± 0.91	37.08 ± 0.97	45.87 ± 1.66	41.49 ± 0.93	n = 12	Microgenics CEDIA
27.55 ± 1.36	59.41 ± 2.47	37.10 ± 1.53	63.00 ± 2.95	39.64 ± 1.63	n = 24	Ortho Clinical Diagnostics
33.27 ± 1.44	42.78 ± 2.11	37.98 ± 1.97	47.91 ± 3.02	41.77 ± 2.29	n = 26	Roche Elecsys/Modular E/e601/e411
27.29 ± 1.55	43.74 ± 2.71	30.12 ± 1.69	44.79 ± 4.09	32.30 ± 1.02	n = 10	Siemens ADVIA/ADVIS Centaur
32.76 ± 5.26	51.23 ± 8.40	37.25 ± 4.75	54.17 ± 8.39	40.45 ± 5.25	n = 8	Siemens Dimension
32.76 ± 5.26	51.23 ± 8.40	37.25 ± 4.75	54.17 ± 8.39	40.45 ± 5.25	n = 8	Siemens Immulite
32.76 ± 5.26	51.23 ± 8.40	37.25 ± 4.75	54.17 ± 8.39	40.45 ± 5.25	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T Uptake (Unit)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
1.069 ± 0.144	0.670 ± 0.278	0.952 ± 0.068	0.519 ± 0.169	0.838 ± 0.135	n = 21	All Methods & Instruments
1.130	0.800	0.950	0.600	0.800	n = 21	Median value, All Methods & Instruments
0.913 ± 0.057	0.331 ± 0.054	1.026 ± 0.062	0.298 ± 0.056	0.998 ± 0.055	n = 6	<Instruments>
1.171 ± 0.033	0.841 ± 0.033	0.939 ± 0.031	0.645 ± 0.037	0.800 ± 0.000	n = 6	Abbott Architect i System
1.153 ± 0.023	0.820 ± 0.009	0.921 ± 0.020	0.605 ± 0.019	0.753 ± 0.014	n = 3	Roche cobas e601
1.092 ± 0.128	0.690 ± 0.256	0.957 ± 0.050	0.532 ± 0.169	0.840 ± 0.116	n = 3	Roche MODULAR E
0.913 ± 0.057	0.331 ± 0.054	1.026 ± 0.062	0.298 ± 0.056	0.998 ± 0.055	n = 6	Mean of Above Means
1.170 ± 0.029	0.821 ± 0.025	0.929 ± 0.030	0.618 ± 0.039	0.770 ± 0.036	n = 12	<Reagents>
1.041 ± 0.147	0.576 ± 0.279	0.978 ± 0.055	0.458 ± 0.182	0.884 ± 0.130	n = 2	Abbott
						Roche Elecsys/Modular E/e601/e411
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Triiodothyronine (T3, ng/dL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
46.4 ± 8.92	81.2 ± 19.06	166.2 ± 20.84	156.2 ± 28.07	198.8 ± 27.04	n = 190	All Methods & Instruments
47.9	78.6	169.9	159.0	202.0	n = 190	Median value, All Methods & Instruments
						<Instruments>
54.5 ± 3.86	70.0 ± 4.62	155.3 ± 9.54	125.3 ± 6.11	182.9 ± 11.13	n = 18	Abbott Architect i System
50.1 ± 4.57	71.4 ± 5.61	131.1 ± 8.74	127.1 ± 11.09	151.1 ± 11.69	n = 13	Beckman Coulter ACCESS
50.3 ± 9.57	66.6 ± 10.33	132.5 ± 8.36	119.2 ± 8.43	153.4 ± 11.57	n = 6	Beckman Coulter UniCel DxI 600
47.6 ± 7.41	65.7 ± 4.01	125.3 ± 7.82	120.3 ± 8.97	149.5 ± 7.31	n = 15	Beckman Coulter UniCel DxI 800
109.3 ± 3.66	91.2 ± 4.54	169.0 ± 8.44	156.9 ± 9.83	194.0 ± 10.79	n = 14	Ortho Vitros 5600
51.4 ± 2.31	114.4 ± 3.82	171.9 ± 4.68	187.0 ± 5.58	202.6 ± 6.98	n = 16	Roche cobas e601
53.4 ± 4.33	116.2 ± 4.38	176.0 ± 7.46	189.3 ± 8.84	206.7 ± 6.38	n = 6	Roche cobas e602
51.1 ± 2.16	119.1 ± 5.47	171.7 ± 7.54	197.4 ± 9.69	212.8 ± 3.21	n = 3	Roche Elecsys
52.3 ± 2.30	115.6 ± 3.55	175.5 ± 5.55	186.6 ± 3.99	206.3 ± 6.54	n = 10	Roche MODULAR E
39.0 ± 5.11	79.0 ± 5.79	176.3 ± 11.00	165.6 ± 10.04	216.7 ± 12.41	n = 68	Siemens ADVIA Centaur
40.5 ± 1.00	64.3 ± 5.34	172.0 ± 25.74	134.2 ± 18.62	197.2 ± 23.30	n = 9	Siemens Immulite 2000
50.2 ± 35.19	53.3 ± 37.69	110.9 ± 77.91	106.2 ± 74.56	128.4 ± 90.64	n = 3	Tosoh Bioscience
50.3 ± 3.92	84.4 ± 25.74	158.2 ± 24.25	150.6 ± 34.96	186.1 ± 30.55	n = 12	Mean of Above Means
						<Reagents>
54.5 ± 3.86	70.0 ± 4.62	155.3 ± 9.54	125.3 ± 6.11	182.9 ± 11.13	n = 18	Abbott
49.2 ± 6.70	68.5 ± 6.29	128.6 ± 8.90	122.5 ± 10.12	150.3 ± 9.98	n = 34	Beckman Coulter
108.8 ± 3.19	91.6 ± 4.23	169.2 ± 7.33	156.3 ± 8.76	196.2 ± 11.40	n = 16	Ortho Clinical Diagnostics
51.8 ± 2.78	115.8 ± 4.62	173.6 ± 6.35	188.1 ± 6.81	205.5 ± 6.97	n = 37	Roche Elecsys/Modular E/e601/e411
39.1 ± 5.02	79.0 ± 5.78	176.5 ± 11.28	165.6 ± 9.79	216.9 ± 12.50	n = 70	Siemens ADVIA/ADVIS Centaur
40.5 ± 1.13	63.6 ± 6.50	171.1 ± 23.89	134.1 ± 16.53	199.2 ± 22.41	n = 10	Siemens Immulite
47.2 ± 6.84	78.6 ± 17.44	166.8 ± 13.60	147.3 ± 25.50	195.3 ± 20.00	n = 6	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T3 (pg/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
1.54 ± 0.27	3.57 ± 0.58	4.23 ± 0.63	6.76 ± 1.13	5.35 ± 0.77	n = 144	All Methods & Instruments
1.60	3.60	4.23	7.10	5.30	n = 144	Median value, All Methods & Instruments
						<Instruments>
1.47 ± 0.22	2.43 ± 0.17	4.22 ± 0.27	4.95 ± 0.37	5.36 ± 0.40	n = 12	Abbott Architect i System
1.61 ± 0.12	3.42 ± 0.07	3.98 ± 0.09	6.35 ± 0.26	5.10 ± 0.13	n = 8	Beckman Coulter ACCESS
1.38 ± 0.21	3.26 ± 0.11	3.61 ± 0.13	5.81 ± 0.36	4.55 ± 0.28	n = 5	Beckman Coulter UniCel DxI 600
1.38 ± 0.26	3.22 ± 0.18	3.60 ± 0.25	5.84 ± 0.48	4.57 ± 0.46	n = 14	Beckman Coulter UniCel DxI 800
1.46 ± 0.22	5.75 ± 0.21	5.84 ± 0.39	13.42 ± 0.74	8.23 ± 0.46	n = 6	Ortho Vitros 5600
1.63 ± 0.13	3.55 ± 0.14	5.20 ± 0.13	7.11 ± 0.23	6.86 ± 0.15	n = 7	Roche cobas e601
1.70 ± 0.03	3.75 ± 0.28	5.35 ± 0.17	7.25 ± 0.27	7.02 ± 0.05	n = 4	Roche cobas e602
1.70 ± 0.00	3.71 ± 0.10	5.42 ± 0.14	7.28 ± 0.08	6.91 ± 0.09	n = 7	Roche MODULAR E
1.64 ± 0.12	4.06 ± 0.14	4.30 ± 0.13	7.15 ± 0.24	5.39 ± 0.17	n = 47	Siemens ADVIA Centaur
0.81 ± 0.13	3.00 ± 0.14	3.61 ± 0.15	8.07 ± 0.18	5.14 ± 0.20	n = 16	Siemens Dimension Vista
1.52 ± 0.18	3.32 ± 0.25	4.18 ± 0.28	4.82 ± 0.24	4.71 ± 0.37	n = 10	Siemens Immulite 2000
1.55 ± 0.13	3.41 ± 0.42	4.44 ± 0.85	6.50 ± 1.12	5.68 ± 1.23	n = 11	Mean of Above Means
						<Reagents>
1.47 ± 0.22	2.43 ± 0.17	4.22 ± 0.27	4.95 ± 0.37	5.36 ± 0.40	n = 12	Abbott
1.46 ± 0.24	3.30 ± 0.17	3.72 ± 0.26	6.01 ± 0.48	4.74 ± 0.44	n = 27	Beckman Coulter
1.48 ± 0.21	5.71 ± 0.22	5.83 ± 0.35	13.47 ± 0.69	8.19 ± 0.42	n = 7	Ortho Clinical Diagnostics
1.70 ± 0.10	3.65 ± 0.14	5.35 ± 0.18	7.23 ± 0.27	6.93 ± 0.13	n = 20	Roche Elecsys/Modular E/e601/e411
1.64 ± 0.11	4.05 ± 0.14	4.30 ± 0.13	7.16 ± 0.24	5.38 ± 0.17	n = 47	Siemens ADVIA/ADVIS Centaur
0.79 ± 0.11	3.01 ± 0.17	3.62 ± 0.17	8.07 ± 0.19	5.15 ± 0.23	n = 16	Siemens Dimension LOCI
1.54 ± 0.18	3.29 ± 0.25	4.17 ± 0.27	4.80 ± 0.22	4.66 ± 0.38	n = 11	Siemens Immulite
1.54 ± 0.10	3.43 ± 0.80	4.37 ± 0.79	6.44 ± 1.51	5.55 ± 1.16	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Thyrotropin (TSH, µU/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
1.74 ± 0.14	2.37 ± 0.30	12.32 ± 1.80	5.17 ± 0.74	10.17 ± 1.43	n = 295	All Methods & Instruments
1.73	2.35	11.90	5.06	9.80	n = 295	Median value, All Methods & Instruments
<Instruments>						
1.70 ± 0.10	2.02 ± 0.12	10.07 ± 0.55	4.35 ± 0.28	8.28 ± 0.50	n = 22	Abbott Architect i System
1.62 ± 0.09	2.28 ± 0.16	12.15 ± 0.76	4.97 ± 0.30	9.88 ± 0.58	n = 25	Beckman Coulter ACCESS
1.61 ± 0.09	2.27 ± 0.09	11.88 ± 0.75	4.85 ± 0.26	10.15 ± 0.40	n = 7	Beckman Coulter UniCel DxI 600
1.56 ± 0.14	2.20 ± 0.20	12.21 ± 0.84	4.65 ± 0.34	10.15 ± 0.74	n = 17	Beckman Coulter UniCel DxI 800
2.15 ± 0.06	2.97 ± 0.07	15.35 ± 0.56	6.73 ± 0.18	12.66 ± 0.39	n = 17	Ortho Vitros 5600
2.11 ± 0.07	3.00 ± 0.03	15.59 ± 0.11	6.76 ± 0.19	12.63 ± 0.26	n = 5	Ortho Vitros ECi/ECiQ
1.82 ± 0.08	2.38 ± 0.09	11.64 ± 0.40	5.11 ± 0.17	9.55 ± 0.32	n = 8	Roche cobas e411
1.82 ± 0.04	2.38 ± 0.06	11.19 ± 0.14	5.02 ± 0.12	9.31 ± 0.12	n = 21	Roche cobas e601
1.82 ± 0.06	2.40 ± 0.06	11.24 ± 0.42	5.11 ± 0.10	9.34 ± 0.29	n = 7	Roche cobas e602
1.92 ± 0.09	2.48 ± 0.07	11.84 ± 0.34	5.27 ± 0.21	9.80 ± 0.32	n = 5	Roche Elecsys
1.81 ± 0.03	2.41 ± 0.06	11.23 ± 0.25	5.15 ± 0.15	9.43 ± 0.18	n = 11	Roche MODULAR E
1.70 ± 0.07	2.25 ± 0.11	11.97 ± 0.66	4.93 ± 0.29	9.89 ± 0.60	n = 59	Siemens ADVIA Centaur
1.76 ± 0.09	2.79 ± 0.14	14.78 ± 0.66	6.28 ± 0.28	12.14 ± 0.54	n = 20	Siemens Dimension EXL
1.70 ± 0.08	1.88 ± 0.05	11.07 ± 0.33	4.14 ± 0.14	9.43 ± 0.05	n = 3	Siemens Dimension RxL
1.73 ± 0.07	2.65 ± 0.13	14.71 ± 0.49	5.95 ± 0.26	11.91 ± 0.40	n = 37	Siemens Dimension Vista
1.60 ± 0.02	1.78 ± 0.08	10.27 ± 0.59	3.90 ± 0.13	8.66 ± 0.14	n = 4	Siemens Dimension Xpand
1.76 ± 0.11	2.04 ± 0.15	11.16 ± 0.70	4.77 ± 0.13	9.12 ± 0.16	n = 5	Siemens Immulite 1000
1.82 ± 0.13	2.14 ± 0.13	10.61 ± 0.62	4.51 ± 0.17	8.87 ± 0.45	n = 15	Siemens Immulite 2000
1.98 ± 0.17	2.57 ± 0.07	12.81 ± 0.77	5.65 ± 0.25	10.61 ± 0.62	n = 4	Tosoh Bioscience
1.77 ± 0.15	2.35 ± 0.33	11.94 ± 1.60	5.08 ± 0.77	9.91 ± 1.25	n = 19	Mean of Above Means
<Reagents>						
1.70 ± 0.10	2.02 ± 0.12	10.07 ± 0.55	4.35 ± 0.28	8.28 ± 0.50	n = 22	Abbott
1.60 ± 0.11	2.26 ± 0.17	12.13 ± 0.80	4.85 ± 0.35	10.01 ± 0.64	n = 49	Beckman Coulter
2.14 ± 0.07	2.97 ± 0.07	15.37 ± 0.52	6.74 ± 0.18	12.66 ± 0.37	n = 22	Ortho Clinical Diagnostics
1.82 ± 0.05	2.40 ± 0.07	11.30 ± 0.31	5.09 ± 0.15	9.40 ± 0.22	n = 52	Roche Elecsys/Modular E/e601/e411
1.72 ± 0.07	2.29 ± 0.12	12.24 ± 0.77	5.06 ± 0.34	10.17 ± 0.75	n = 36	Siemens ADVIA/ADVIS Centaur
1.63 ± 0.06	1.83 ± 0.07	10.65 ± 0.63	4.00 ± 0.18	8.97 ± 0.46	n = 7	Siemens Dimension
1.74 ± 0.08	2.70 ± 0.15	14.73 ± 0.55	6.06 ± 0.31	11.98 ± 0.46	n = 57	Siemens Dimension LOCI
1.80 ± 0.12	2.11 ± 0.14	10.74 ± 0.67	4.58 ± 0.21	8.96 ± 0.40	n = 20	Siemens Immulite
1.69 ± 0.06	2.22 ± 0.09	11.76 ± 0.38	4.83 ± 0.19	9.68 ± 0.29	n = 24	Siemens TSH-3
1.71 ± 0.08	2.28 ± 0.32	11.87 ± 1.71	4.95 ± 0.77	9.83 ± 1.35	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Vitamin B12 (pg/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
170.6 ± 66.22	126.8 ± 34.75	442.1 ± 55.06	127.2 ± 36.25	436.6 ± 54.97	n = 226	All Methods & Instruments
168.0	125.0	443.6	124.0	439.0	n = 226	Median value, All Methods & Instruments
350.0 ± 17.48	169.4 ± 18.83	498.5 ± 25.16	171.6 ± 27.72	490.6 ± 31.85	n = 13	<Instruments>
118.5 ± 11.60	117.8 ± 8.76	421.1 ± 18.62	117.4 ± 11.59	416.5 ± 29.07	n = 18	Abbott Architect i System
89.3 ± 13.80	107.7 ± 8.95	376.7 ± 30.39	111.0 ± 4.69	370.7 ± 28.58	n = 7	Beckman Coulter ACCESS
89.8 ± 12.02	110.8 ± 12.20	394.7 ± 31.32	111.6 ± 9.35	379.7 ± 33.81	n = 21	Beckman Coulter UniCel DxI 600
194.9 ± 12.48	185.0 ± 9.13	453.1 ± 15.76	185.5 ± 8.08	446.4 ± 13.02	n = 15	Beckman Coulter UniCel DxI 800
189.6 ± 14.80	180.5 ± 13.71	446.7 ± 45.51	186.2 ± 12.03	442.6 ± 21.89	n = 4	Ortho Vitros 5600
216.4 ± 5.78	140.7 ± 20.27	483.1 ± 39.70	132.4 ± 38.79	489.8 ± 16.87	n = 4	Ortho Vitros ECi/ECiQ
240.9 ± 15.70	141.3 ± 14.35	471.2 ± 19.34	144.3 ± 16.11	465.3 ± 22.78	n = 17	Roche cobas e411
240.3 ± 13.58	152.4 ± 22.73	483.7 ± 18.35	150.1 ± 9.72	479.3 ± 21.79	n = 4	Roche cobas e601
248.8 ± 10.53	153.5 ± 11.20	490.8 ± 13.43	154.7 ± 10.51	478.5 ± 8.58	n = 9	Roche cobas e602
150.7 ± 24.46	116.4 ± 21.10	440.6 ± 36.97	114.3 ± 22.86	437.1 ± 33.90	n = 69	Roche MODULAR E
126.4 ± 11.66	111.3 ± 6.73	439.5 ± 53.05	116.8 ± 15.01	437.9 ± 40.88	n = 3	Siemens ADVIA Centaur
193.8 ± 19.66	64.9 ± 7.75	351.8 ± 19.46	65.8 ± 10.32	345.8 ± 20.61	n = 22	Siemens ADVIA Centaur CP
380.2 ± 23.87	152.5 ± 4.61	553.4 ± 23.69	153.4 ± 6.14	492.5 ± 24.37	n = 3	Siemens Dimension Vista
213.6 ± 18.73	150.0 ± 0.00	505.0 ± 40.10	157.4 ± 12.37	485.9 ± 36.45	n = 11	Siemens Immulite 1000
50.0 ± 0.00	146.3 ± 9.97	517.8 ± 31.28	157.2 ± 13.87	537.1 ± 22.67	n = 4	Siemens Immulite 2000
187.9 ± 87.23	139.6 ± 29.71	460.5 ± 52.99	141.2 ± 30.86	453.8 ± 50.04	n = 16	Tosoh Bioscience
350.0 ± 17.48	169.4 ± 18.83	498.5 ± 25.16	171.6 ± 27.72	490.6 ± 31.85	n = 13	Mean of Above Means
100.0 ± 19.65	113.2 ± 11.06	404.2 ± 31.28	113.4 ± 9.79	393.3 ± 37.09	n = 46	<Reagents>
193.8 ± 13.36	184.0 ± 10.68	451.8 ± 24.05	185.7 ± 9.16	445.4 ± 15.47	n = 19	Abbott
239.6 ± 17.19	144.8 ± 17.40	477.9 ± 20.27	145.7 ± 18.44	475.5 ± 20.84	n = 36	Beckman Coulter
149.5 ± 24.59	116.1 ± 20.58	441.0 ± 37.76	114.5 ± 22.52	437.2 ± 34.32	n = 72	Ortho Clinical Diagnostics
192.2 ± 18.36	63.9 ± 6.68	350.3 ± 18.51	61.7 ± 2.62	344.5 ± 20.13	n = 21	Roche Elecsys/Modular E/e601/e411
225.7 ± 59.38	150.0 ± 0.00	516.3 ± 42.56	156.2 ± 11.11	487.7 ± 33.66	n = 14	Siemens ADVIA/ADVIS Centaur
50.0 ± 0.00	146.3 ± 9.97	517.8 ± 31.28	157.2 ± 13.87	537.1 ± 22.67	n = 4	Siemens Dimension LOCI
185.1 ± 86.56	139.6 ± 34.71	462.7 ± 55.98	142.7 ± 37.04	455.4 ± 58.27	n = 8	Siemens Immulite
						Tosoh AIA
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Folic Acid (ng/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
8.42 ± 2.09	6.33 ± 1.41	3.13 ± 0.94	11.54 ± 3.19	5.89 ± 1.13	n = 217	All Methods & Instruments
8.40	6.40	3.10	11.50	5.99	n = 217	Median value, All Methods & Instruments
9.53 ± 0.88	7.86 ± 0.75	3.37 ± 0.37	18.34 ± 1.38	6.85 ± 0.45	n = 13	<Instruments>
8.52 ± 0.43	7.26 ± 0.51	3.59 ± 0.17	14.23 ± 0.99	6.93 ± 0.39	n = 18	Abbott Architect i System
8.40 ± 0.69	7.06 ± 0.91	3.55 ± 0.44	13.58 ± 1.10	6.67 ± 0.49	n = 6	Beckman Coulter ACCESS
8.30 ± 0.35	6.90 ± 0.46	3.49 ± 0.16	13.40 ± 0.73	6.52 ± 0.24	n = 21	Beckman Coulter UniCel DxI 600
6.48 ± 0.85	6.44 ± 0.75	2.81 ± 0.24	14.31 ± 0.86	5.39 ± 0.59	n = 15	Beckman Coulter UniCel DxI 800
6.43 ± 0.51	5.97 ± 0.60	2.66 ± 0.10	12.87 ± 1.04	5.63 ± 0.41	n = 3	Ortho Vitros 5600
7.86 ± 0.56	6.18 ± 0.69	4.37 ± 0.60	10.74 ± 0.26	6.03 ± 0.31	n = 3	Ortho Vitros ECi/ECiQ
8.05 ± 0.46	6.57 ± 0.56	4.34 ± 0.29	10.47 ± 0.79	6.20 ± 0.35	n = 17	Roche cobas e411
8.56 ± 0.28	6.79 ± 0.73	4.40 ± 0.18	11.22 ± 0.64	6.56 ± 0.29	n = 4	Roche cobas e601
8.29 ± 0.51	6.67 ± 0.49	4.44 ± 0.24	10.89 ± 0.66	6.38 ± 0.33	n = 8	Roche cobas e602
10.29 ± 1.04	6.12 ± 0.80	2.76 ± 0.26	11.20 ± 1.26	5.45 ± 0.56	n = 61	Siemens MODULAR E
11.15 ± 0.45	6.65 ± 0.99	5.81 ± 4.85	9.21 ± 4.85	6.11 ± 0.37	n = 3	Siemens ADVIA Centaur
4.12 ± 0.22	2.47 ± 0.21	1.12 ± 0.21	5.21 ± 0.30	2.42 ± 0.18	n = 29	Siemens ADVIA Centaur CP
8.41 ± 0.40	7.02 ± 1.03	3.22 ± 0.32	11.42 ± 1.21	5.97 ± 0.46	n = 10	Siemens Dimension Vista
6.46 ± 0.83	4.76 ± 0.21	4.02 ± 0.28	8.49 ± 1.34	6.29 ± 0.56	n = 4	Tosoh Bioscience
8.15 ± 1.54	6.67 ± 0.57	3.63 ± 0.94	11.69 ± 2.66	6.23 ± 0.50	n = 15	Mean of Above Means
9.53 ± 0.88	7.86 ± 0.75	3.37 ± 0.37	18.34 ± 1.38	6.85 ± 0.45	n = 13	<Reagents>
8.39 ± 0.45	7.05 ± 0.60	3.55 ± 0.22	13.73 ± 1.00	6.69 ± 0.42	n = 45	Abbott
6.48 ± 0.78	6.35 ± 0.75	2.78 ± 0.23	14.06 ± 1.11	5.44 ± 0.57	n = 18	Beckman Coulter
8.15 ± 0.52	6.56 ± 0.62	4.39 ± 0.30	10.71 ± 0.72	6.29 ± 0.37	n = 34	Ortho Clinical Diagnostics
10.34 ± 1.04	6.14 ± 0.81	2.77 ± 0.27	11.21 ± 1.29	5.48 ± 0.57	n = 64	Roche Elecsys/Modular E/e601/e411
4.12 ± 0.22	2.47 ± 0.21	1.12 ± 0.21	5.21 ± 0.30	2.42 ± 0.18	n = 29	Siemens ADVIA Centaur
8.41 ± 0.40	7.02 ± 1.03	3.22 ± 0.32	11.42 ± 1.21	5.97 ± 0.46	n = 10	Siemens Dimension LOCI
6.46 ± 0.83	4.76 ± 0.21	4.02 ± 0.28	8.49 ± 1.34	6.29 ± 0.56	n = 4	Tosoh AIA
7.88 ± 1.88	6.41 ± 1.27	3.29 ± 0.84	11.62 ± 3.68	6.15 ± 0.56	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Cortisol ($\mu\text{g/dL}$)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
4.89 ± 0.64	9.70 ± 1.43	35.21 ± 3.24	18.75 ± 2.31	20.32 ± 2.12	n = 156	All Methods & Instruments
5.00	9.89	35.30	19.10	20.50	n = 156	Median value, All Methods & Instruments
						<Instruments>
5.64 ± 0.18	9.17 ± 0.45	30.15 ± 0.92	16.77 ± 0.36	17.73 ± 0.47	n = 11	Abbott Architect i System
4.90 ± 0.29	9.43 ± 0.53	34.02 ± 1.46	18.42 ± 0.75	19.26 ± 0.22	n = 6	Beckman Coulter ACCESS
5.00 ± 0.23	10.46 ± 0.69	35.15 ± 3.53	20.14 ± 0.96	18.98 ± 1.15	n = 6	Beckman Coulter UniCel DxI 600
4.90 ± 0.40	10.44 ± 0.59	33.66 ± 1.02	19.82 ± 1.25	18.54 ± 0.91	n = 17	Beckman Coulter UniCel DxI 800
5.81 ± 0.56	8.35 ± 0.27	33.19 ± 11.28	16.33 ± 1.04	23.05 ± 0.54	n = 3	LC/MS/MS
3.84 ± 0.14	7.94 ± 0.31	29.96 ± 1.32	15.84 ± 0.42	17.43 ± 0.58	n = 9	Ortho Vitros 5600
4.30 ± 0.09	7.63 ± 0.14	36.72 ± 1.41	16.14 ± 0.79	20.58 ± 0.78	n = 3	Roche cobas e411
4.11 ± 0.20	7.58 ± 0.35	36.08 ± 1.75	16.17 ± 0.94	21.00 ± 1.17	n = 12	Roche cobas e601
4.57 ± 0.23	8.40 ± 0.36	38.35 ± 0.54	17.31 ± 0.52	22.00 ± 0.54	n = 3	Roche cobas e602
4.16 ± 0.15	7.79 ± 0.39	36.32 ± 1.40	16.00 ± 0.67	21.16 ± 0.78	n = 7	Roche MODULAR E
5.12 ± 0.45	10.49 ± 0.90	35.90 ± 2.59	20.19 ± 1.28	21.09 ± 1.54	n = 53	Siemens ADVIA Centaur
5.29 ± 0.29	10.91 ± 0.43	37.08 ± 1.50	20.80 ± 1.01	21.68 ± 1.19	n = 3	Siemens ADVIA Centaur CP
5.14 ± 0.20	10.56 ± 0.80	38.10 ± 1.87	20.06 ± 0.64	22.25 ± 1.89	n = 14	Siemens Immulite 2000
4.84 ± 0.62	9.15 ± 1.37	35.26 ± 2.60	17.94 ± 2.08	20.44 ± 1.86	n = 13	Mean of Above Means
						<Reagents>
5.64 ± 0.18	9.17 ± 0.45	30.15 ± 0.92	16.77 ± 0.36	17.73 ± 0.47	n = 11	Abbott
4.93 ± 0.35	10.25 ± 0.72	33.69 ± 1.39	19.57 ± 1.30	18.75 ± 0.97	n = 29	Beckman Coulter
4.97 ± 2.33	7.53 ± 2.23	25.55 ± 17.15	14.10 ± 5.62	20.00 ± 8.24	n = 4	In-House
3.89 ± 0.18	8.03 ± 0.37	30.16 ± 1.19	15.77 ± 0.50	17.55 ± 0.53	n = 11	Ortho Clinical Diagnostics
4.17 ± 0.22	7.70 ± 0.39	36.43 ± 1.66	16.22 ± 0.87	21.20 ± 0.96	n = 27	Roche Elecsys/Modular E/e601/e411
5.13 ± 0.45	10.52 ± 0.88	35.99 ± 2.55	20.23 ± 1.28	21.13 ± 1.52	n = 56	Siemens ADVIA/ADVIS Centaur
5.15 ± 0.23	10.42 ± 0.83	38.30 ± 1.77	20.19 ± 0.77	22.43 ± 1.71	n = 16	Siemens Immulite
4.88 ± 0.59	9.10 ± 1.39	33.14 ± 4.43	17.56 ± 2.50	19.83 ± 1.91	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Insulin (μ U/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
297.70 ± 51.26	33.62 ± 13.21	217.37 ± 50.99	113.30 ± 48.25	377.38 ± 87.59	n = 98	All Methods & Instruments
296.80	35.80	218.00	114.60	361.00	n = 98	Median value, All Methods & Instruments
272.13 ± 13.99	30.45 ± 1.04	194.00 ± 10.70	104.01 ± 5.40	363.89 ± 35.61	n = 6	<Instruments>
264.50 ± 10.33	28.71 ± 1.99	192.17 ± 7.04	95.05 ± 5.63	311.77 ± 21.50	n = 3	Abbott Architect i System
262.52 ± 16.25	28.92 ± 0.80	195.58 ± 14.32	102.28 ± 5.32	333.72 ± 26.48	n = 5	Beckman Coulter ACCESS
262.69 ± 20.10	28.64 ± 1.25	191.20 ± 9.05	97.88 ± 5.98	331.73 ± 21.65	n = 15	Beckman Coulter UniCel DxI 600
326.01 ± 12.20	39.66 ± 2.01	232.88 ± 10.33	126.98 ± 5.69	433.54 ± 16.59	n = 9	Beckman Coulter UniCel DxI 800
332.77 ± 5.66	39.93 ± 0.46	236.93 ± 6.44	130.22 ± 4.05	435.50 ± 13.84	n = 5	Roche cobas e601
322.91 ± 5.32	39.63 ± 0.26	232.16 ± 1.25	128.20 ± 1.31	430.90 ± 7.50	n = 6	Roche cobas e602
373.05 ± 54.45	47.06 ± 3.22	295.96 ± 21.10	171.38 ± 8.29	472.81 ± 119.17	n = 20	Roche MODULAR E
267.56 ± 10.01	9.61 ± 1.65	171.43 ± 7.44	29.56 ± 1.37	300.00 ± 0.00	n = 3	Siemens ADVIA Centaur
254.17 ± 21.89	10.33 ± 1.47	156.41 ± 10.38	30.74 ± 4.89	297.02 ± 8.91	n = 16	Siemens Immulite 1000
307.79 ± 9.92	40.49 ± 0.92	229.75 ± 4.14	128.75 ± 1.44	398.99 ± 62.18	n = 3	Siemens Immulite 2000
291.58 ± 39.23	32.60 ± 11.59	208.20 ± 35.67	108.39 ± 39.22	372.22 ± 66.29	n = 11	Tosoh Bioscience
272.13 ± 13.99	30.45 ± 1.04	194.00 ± 10.70	104.01 ± 5.40	363.89 ± 35.61	n = 6	Mean of Above Means
263.06 ± 17.96	28.72 ± 1.26	191.83 ± 10.05	98.46 ± 6.26	329.77 ± 24.43	n = 23	Abbott
326.92 ± 11.73	39.53 ± 1.77	233.03 ± 9.67	128.33 ± 5.84	434.06 ± 15.23	n = 24	Beckman Coulter
375.27 ± 53.27	46.86 ± 3.19	295.95 ± 20.27	171.53 ± 8.07	476.55 ± 115.56	n = 21	Roche Elecsys/Modular E/e601/e411
246.82 ± 27.57	11.20 ± 2.18	156.41 ± 7.83	33.40 ± 6.99	293.78 ± 10.21	n = 5	Siemens ADVIA/ADVIS Centaur
259.59 ± 18.09	10.04 ± 1.27	160.87 ± 12.90	29.88 ± 3.01	300.00 ± 0.00	n = 14	Siemens Immulite-Insulin lot# > 400
307.79 ± 9.92	40.49 ± 0.92	229.75 ± 4.14	128.75 ± 1.44	398.99 ± 62.18	n = 3	Tosoh ST AIA
287.93 ± 43.56	30.41 ± 14.40	204.39 ± 45.63	101.16 ± 51.31	368.35 ± 69.44	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free Estriol (ng/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
0.41 ± 0.06	0.07 ± 0.04	1.56 ± 0.17	0.08 ± 0.04	1.59 ± 0.14	n = 15	All Methods & Instruments
0.40	0.10	1.58	0.10	1.60	n = 15	Median value, All Methods & Instruments
						<Instruments>
0.44 ± 0.05	0.07 ± 0.05	1.50 ± 0.09	0.10 ± 0.00	1.56 ± 0.10	n = 3	Beckman Coulter UniCel DxI 800
0.40 ± 0.08	0.10 ± 0.00	1.63 ± 0.16	0.10 ± 0.00	1.67 ± 0.15	n = 4	Siemens Immulite 2000
0.42 ± 0.02	0.09 ± 0.02	1.57 ± 0.08	0.10 ± 0.00	1.61 ± 0.07	n = 2	Mean of Above Means
						<Reagents>
0.41 ± 0.03	0.05 ± 0.05	1.50 ± 0.10	0.07 ± 0.05	1.58 ± 0.11	n = 7	Beckman Coulter
1.30 ± 0.37	0.07 ± 0.05	3.28 ± 1.86	0.07 ± 0.05	3.62 ± 2.03	n = 3	In-House
0.37 ± 0.09	0.10 ± 0.00	1.68 ± 0.17	0.10 ± 0.00	1.62 ± 0.17	n = 5	Siemens Immulite
0.65 ± 0.47	0.07 ± 0.02	2.07 ± 0.87	0.08 ± 0.02	2.17 ± 1.04	n = 3	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Estradiol (pg/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
32.4 ± 9.82	88.1 ± 14.60	128.3 ± 16.71	28.2 ± 8.02	187.0 ± 19.22	n = 160	All Methods & Instruments
31.9	90.0	127.0	28.0	188.0	n = 160	Median value, All Methods & Instruments
						<Instruments>
41.6 ± 4.71	87.6 ± 4.70	109.9 ± 5.27	39.7 ± 4.95	162.6 ± 5.09	n = 9	Abbott Architect i System
22.5 ± 11.33	93.6 ± 11.51	135.5 ± 13.80	35.1 ± 9.23	200.3 ± 14.51	n = 7	Beckman Coulter ACCESS
28.0 ± 7.21	89.8 ± 20.74	112.7 ± 10.37	24.8 ± 5.00	173.4 ± 8.23	n = 3	Beckman Coulter UniCel DxI 600
25.6 ± 5.02	92.2 ± 6.56	134.8 ± 10.67	30.2 ± 7.02	178.0 ± 15.41	n = 10	Beckman Coulter UniCel DxI 800
27.4 ± 1.79	73.8 ± 3.72	119.7 ± 10.51	17.6 ± 1.13	180.0 ± 18.18	n = 3	LC/MS/MS
16.0 ± 2.33	60.6 ± 5.77	112.2 ± 13.43	28.7 ± 4.02	153.8 ± 14.63	n = 6	Ortho Vitros 5600
38.7 ± 4.74	84.5 ± 7.09	130.7 ± 9.77	27.2 ± 4.92	181.6 ± 8.96	n = 7	Roche cobas e411
41.9 ± 4.87	91.6 ± 6.03	128.7 ± 6.23	34.4 ± 4.15	182.3 ± 7.99	n = 14	Roche cobas e601
43.1 ± 6.38	95.4 ± 1.21	136.7 ± 5.62	34.5 ± 5.51	192.2 ± 10.78	n = 5	Roche cobas e602
42.9 ± 5.02	94.6 ± 5.01	133.8 ± 4.03	36.9 ± 2.27	190.3 ± 4.66	n = 6	Roche MODULAR E
32.8 ± 6.00	97.2 ± 6.95	121.6 ± 6.32	25.7 ± 5.46	187.3 ± 8.66	n = 47	Siemens ADVIA Centaur
28.3 ± 2.16	98.5 ± 4.52	126.4 ± 3.92	21.5 ± 2.22	196.3 ± 4.57	n = 4	Siemens ADVIA Centaur CP
20.5 ± 7.76	59.4 ± 8.09	77.5 ± 1.90	11.0 ± 0.00	142.7 ± 6.50	n = 6	Siemens Dimension Vista
28.2 ± 4.62	74.8 ± 8.12	154.7 ± 7.32	27.1 ± 2.71	217.5 ± 13.57	n = 6	Siemens Immulite 1000
28.3 ± 7.61	71.9 ± 7.12	152.8 ± 13.43	26.8 ± 5.44	208.2 ± 14.30	n = 20	Siemens Immulite 2000
30.9 ± 9.06	85.9 ± 12.89	127.7 ± 15.64	28.6 ± 7.27	184.1 ± 19.07	n = 15	Mean of Above Means
						<Reagents>
41.6 ± 4.71	87.6 ± 4.70	109.9 ± 5.27	39.7 ± 4.95	162.6 ± 5.09	n = 9	Abbott
24.9 ± 7.60	91.3 ± 11.97	133.1 ± 15.51	30.2 ± 8.94	186.0 ± 18.94	n = 21	Beckman Coulter
23.1 ± 11.06	63.1 ± 29.41	99.8 ± 49.41	15.1 ± 7.04	152.3 ± 76.15	n = 4	In-House
16.4 ± 2.31	62.4 ± 6.89	115.0 ± 13.94	29.3 ± 3.93	156.3 ± 14.39	n = 7	Ortho Clinical Diagnostics
41.7 ± 5.23	92.0 ± 7.16	132.0 ± 6.82	33.4 ± 5.75	185.3 ± 9.44	n = 34	Roche Elecsys/Modular E/e601/e411
32.7 ± 5.49	97.9 ± 6.71	122.6 ± 5.78	25.5 ± 5.42	188.0 ± 8.45	n = 42	Siemens ADVIA Centaur Enhanced Estr
30.4 ± 7.16	94.8 ± 6.59	118.6 ± 7.23	24.4 ± 5.26	188.7 ± 10.45	n = 9	Siemens ADVIA/ADVIS Centaur
19.2 ± 8.16	58.4 ± 8.62	78.0 ± 1.89	11.0 ± 0.00	139.8 ± 2.57	n = 5	Siemens Dimension LOCI
28.1 ± 6.86	72.5 ± 7.38	153.5 ± 12.00	26.9 ± 4.87	210.5 ± 14.87	n = 26	Siemens Immulite
28.3 ± 9.00	80.6 ± 16.57	118.9 ± 20.08	26.7 ± 8.45	174.6 ± 22.93	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Testosterone (ng/dL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
77.78 ± 32.33	269.47 ± 42.16	30.84 ± 14.77	492.81 ± 84.09	178.75 ± 33.38	n = 144	All Methods & Instruments
71.00	276.08	27.60	489.90	181.00	n = 144	Median value, All Methods & Instruments
<Instruments>						
100.33 ± 3.79	247.91 ± 15.72	23.46 ± 2.65	441.68 ± 38.93	199.57 ± 9.14	n = 6	Abbott Architect i System
71.09 ± 3.79	237.53 ± 10.37	29.98 ± 3.27	439.77 ± 20.03	156.55 ± 8.61	n = 12	Beckman Coulter ACCESS
63.57 ± 5.01	222.17 ± 8.70	25.33 ± 2.99	415.34 ± 11.59	143.55 ± 4.62	n = 7	Beckman Coulter UniCel DxI 600
65.31 ± 5.19	216.21 ± 8.35	24.39 ± 5.23	409.13 ± 10.98	144.19 ± 7.04	n = 13	Beckman Coulter UniCel DxI 800
101.93 ± 9.15	244.19 ± 10.02	24.10 ± 5.45	409.80 ± 41.17	195.27 ± 1.38	n = 6	LC/MS/MS
49.17 ± 2.06	307.18 ± 27.95	26.44 ± 3.16	623.67 ± 75.60	167.46 ± 16.23	n = 4	Ortho Vitros 5600
67.14 ± 5.58	289.20 ± 16.21	26.06 ± 3.47	514.57 ± 24.75	184.24 ± 8.63	n = 11	Roche cobas e601
76.81 ± 4.41	311.70 ± 18.23	29.62 ± 2.14	553.94 ± 31.24	203.34 ± 12.09	n = 5	Roche cobas e602
66.78 ± 8.15	286.86 ± 18.86	28.73 ± 6.75	495.16 ± 28.62	180.81 ± 13.11	n = 4	Roche Elecsys
70.66 ± 5.00	303.01 ± 10.38	27.28 ± 3.20	535.52 ± 24.62	191.59 ± 8.22	n = 8	Roche MODULAR E
115.21 ± 11.52	290.30 ± 38.08	57.23 ± 10.22	573.48 ± 68.66	208.11 ± 22.76	n = 39	Siemens ADVIA Centaur
29.57 ± 8.55	269.35 ± 29.24	20.00 ± 0.00	442.26 ± 47.35	151.77 ± 20.66	n = 16	Siemens Immulite 2000
38.33 ± 8.78	253.60 ± 31.22	19.09 ± 3.43	497.00 ± 40.71	124.54 ± 15.67	n = 5	Tosoh Bioscience
69.66 ± 24.00	268.27 ± 34.40	25.59 ± 3.40	484.31 ± 70.31	174.28 ± 27.96	n = 13	Mean of Above Means
<Reagents>						
100.33 ± 3.79	247.91 ± 15.72	23.46 ± 2.65	441.68 ± 38.93	199.57 ± 9.14	n = 6	Abbott
67.22 ± 5.75	224.84 ± 13.41	26.77 ± 4.93	419.12 ± 18.55	147.85 ± 8.95	n = 32	Beckman Coulter
101.93 ± 9.16	244.19 ± 10.04	23.03 ± 5.58	411.58 ± 37.88	195.26 ± 1.40	n = 7	In-House
49.17 ± 2.06	307.18 ± 27.95	26.44 ± 3.16	623.67 ± 75.60	167.46 ± 16.23	n = 4	Ortho Clinical Diagnostics
69.89 ± 6.89	298.21 ± 18.77	27.34 ± 3.36	525.73 ± 32.87	188.68 ± 11.37	n = 30	Roche Elecsys/Modular E/e601/e411
114.89 ± 11.48	289.83 ± 37.12	57.36 ± 10.01	570.76 ± 69.73	207.67 ± 22.56	n = 40	Siemens ADVIA/ADVIS Centaur
30.66 ± 8.55	272.01 ± 27.45	20.65 ± 1.63	452.23 ± 53.55	152.32 ± 19.02	n = 18	Siemens Immulite
37.17 ± 9.13	249.35 ± 35.46	18.62 ± 4.64	516.16 ± 32.52	121.85 ± 19.63	n = 3	Tosoh ST AIA
71.07 ± 32.57	266.32 ± 30.31	23.92 ± 3.32	490.47 ± 76.77	174.25 ± 30.26	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Progesterone (ng/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
9.15 ± 1.91	4.37 ± 0.46	7.26 ± 0.91	14.35 ± 2.36	18.21 ± 2.85	n = 157	All Methods & Instruments
9.17	4.40	7.20	14.20	18.60	n = 157	Median value, All Methods & Instruments
16.29 ± 0.94	4.37 ± 0.16	7.69 ± 0.36	14.22 ± 0.98	18.75 ± 0.99	n = 5	<Instruments>
8.78 ± 0.50	4.48 ± 0.35	7.29 ± 0.49	13.88 ± 0.66	16.87 ± 1.08	n = 9	Abbott Architect i System
8.42 ± 0.57	4.89 ± 0.08	7.77 ± 0.31	15.42 ± 0.81	17.86 ± 1.44	n = 4	Beckman Coulter ACCESS
9.65 ± 0.76	5.13 ± 0.53	8.26 ± 0.80	15.49 ± 1.09	18.08 ± 0.98	n = 12	Beckman Coulter UniCel DxI 600
9.58 ± 1.48	3.41 ± 0.40	7.29 ± 0.74	12.38 ± 1.36	14.78 ± 3.25	n = 4	Beckman Coulter UniCel DxI 800
5.77 ± 0.18	3.60 ± 0.18	6.02 ± 0.18	10.67 ± 0.46	13.02 ± 0.42	n = 6	LC/MS/MS
11.63 ± 0.43	4.47 ± 0.18	7.16 ± 0.23	17.66 ± 0.48	19.75 ± 0.90	n = 6	Ortho Vitros 5600
11.29 ± 0.49	4.30 ± 0.28	7.10 ± 0.30	17.17 ± 1.08	19.39 ± 0.85	n = 13	Roche cobas e411
11.50 ± 0.33	4.55 ± 0.11	7.12 ± 0.16	17.74 ± 0.44	19.82 ± 0.75	n = 5	Roche cobas e601
11.46 ± 0.07	4.47 ± 0.10	7.15 ± 0.17	17.66 ± 0.38	19.46 ± 0.34	n = 7	Roche cobas e602
9.00 ± 0.83	4.30 ± 0.33	7.80 ± 0.67	14.20 ± 1.02	19.93 ± 1.35	n = 47	Siemens ADVIA Centaur
9.29 ± 0.56	3.88 ± 0.15	7.85 ± 0.54	14.52 ± 0.49	21.61 ± 0.66	n = 3	Siemens ADVIA Centaur CP
7.68 ± 0.66	4.44 ± 0.53	6.70 ± 0.37	12.82 ± 1.59	15.92 ± 1.40	n = 6	Siemens Immulite 1000
7.16 ± 0.48	4.39 ± 0.43	6.07 ± 0.50	11.95 ± 0.80	13.97 ± 1.00	n = 23	Siemens Immulite 2000
9.53 ± 2.13	4.37 ± 0.41	7.29 ± 0.62	14.71 ± 2.36	18.00 ± 2.56	n = 14	Mean of Above Means
16.29 ± 0.94	4.37 ± 0.16	7.69 ± 0.36	14.22 ± 0.98	18.75 ± 0.99	n = 5	<Reagents>
9.10 ± 0.83	4.84 ± 0.50	7.78 ± 0.76	14.83 ± 1.25	17.67 ± 1.28	n = 25	Abbott
8.71 ± 3.38	3.18 ± 0.91	7.41 ± 0.58	12.90 ± 0.23	15.26 ± 2.57	n = 5	Beckman Coulter
5.73 ± 0.20	3.55 ± 0.21	5.98 ± 0.25	10.56 ± 0.52	12.93 ± 0.53	n = 7	In-House
11.48 ± 0.36	4.46 ± 0.20	7.16 ± 0.20	17.61 ± 0.68	19.58 ± 0.76	n = 32	Ortho Clinical Diagnostics
9.02 ± 0.81	4.27 ± 0.35	7.80 ± 0.67	14.23 ± 0.99	20.04 ± 1.40	n = 50	Roche Elecsys/Modular E/e601/e411
7.29 ± 0.58	4.43 ± 0.42	6.25 ± 0.56	12.13 ± 1.02	14.35 ± 1.24	n = 28	Siemens ADVIA/ADVIS Centaur
9.10 ± 2.84	4.22 ± 0.55	7.23 ± 0.74	13.69 ± 2.10	17.04 ± 2.82	n = 7	Siemens Immulite Progesterone (LKPW)
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

17-hydroxyprogesterone (ng/dL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
18.40 ± 12.97	28.71 ± 11.35	91.22 ± 7.16	45.10 ± 9.84	53.37 ± 6.37	n = 10	All Methods & Instruments
12.20	24.20	92.00	44.00	54.90	n = 10	Median value, All Methods & Instruments
15.90 ± 14.55	27.68 ± 10.42	92.43 ± 4.04	43.74 ± 7.20	52.57 ± 5.87	n = 7	<Instruments> LC/MS/MS <Reagents>
17.84 ± 16.02	29.46 ± 10.51	91.39 ± 2.81	41.52 ± 4.63	51.87 ± 6.37	n = 6	In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone (DHEA, ng/dL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
83.8 ± 58.09	477.1 ± 167.24	187.1 ± 93.92	271.2 ± 130.39	191.2 ± 94.17	n = 8	All Methods & Instruments
71.0	508.0	182.0	290.0	178.0	n = 8	Median value, All Methods & Instruments
59.6 ± 45.08	326.2 ± 185.00	235.6 ± 157.25	191.9 ± 110.78	226.4 ± 148.61	n = 3	<Instruments>
116.0 ± 79.55	539.5 ± 116.22	173.2 ± 44.64	320.2 ± 123.60	178.5 ± 53.54	n = 5	Automated microplate processor
87.8 ± 32.20	432.8 ± 121.65	204.4 ± 35.55	256.1 ± 73.16	202.4 ± 27.26	n = 2	LC/MS/MS
95.6 ± 85.55	493.6 ± 191.56	156.8 ± 62.83	283.2 ± 156.61	160.2 ± 70.32	n = 6	Mean of Above Means
						<Reagents>
						In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone sulfate (DHEA-S, µg/dL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
47.22 ± 7.80	249.94 ± 30.60	135.71 ± 14.94	155.58 ± 21.41	135.10 ± 13.83	n = 80	All Methods & Instruments
47.00	243.58	135.40	153.00	135.00	n = 80	Median value, All Methods & Instruments
						<Instruments>
48.49 ± 3.67	249.70 ± 14.74	138.89 ± 10.25	158.27 ± 9.61	138.25 ± 10.51	n = 3	Abbott Architect i System
49.01 ± 3.13	243.76 ± 22.69	131.52 ± 11.51	152.22 ± 9.76	130.43 ± 8.68	n = 7	Beckman Coulter ACCESS
46.30 ± 4.83	227.24 ± 18.80	126.37 ± 12.92	142.99 ± 15.32	123.19 ± 12.81	n = 3	Beckman Coulter UniCel DxI 600
49.60 ± 2.13	249.28 ± 14.55	131.37 ± 10.14	152.43 ± 10.79	127.52 ± 4.84	n = 10	Beckman Coulter UniCel DxI 800
57.29 ± 2.89	293.87 ± 10.47	141.23 ± 4.92	191.98 ± 6.99	140.44 ± 6.53	n = 5	Roche cobas e601
59.99 ± 6.62	304.26 ± 15.60	145.90 ± 5.64	200.66 ± 7.70	142.98 ± 6.50	n = 3	Roche cobas e602
59.31 ± 4.88	298.61 ± 13.92	143.11 ± 8.84	198.19 ± 8.25	149.11 ± 2.43	n = 5	Roche MODULAR E
36.28 ± 2.34	212.98 ± 18.57	99.89 ± 6.05	133.26 ± 12.37	100.97 ± 4.91	n = 4	Siemens ADVIA Centaur
42.04 ± 4.33	233.37 ± 9.30	137.26 ± 16.74	144.53 ± 14.43	122.40 ± 11.93	n = 3	Siemens Immulite 1000
42.45 ± 4.53	239.84 ± 18.09	134.50 ± 13.04	147.76 ± 11.38	135.86 ± 10.89	n = 32	Siemens Immulite 2000
49.00 ± 7.97	252.81 ± 32.53	136.73 ± 6.52	159.71 ± 25.19	132.88 ± 11.92	n = 10	Mean of Above Means
						<Reagents>
48.49 ± 3.67	249.70 ± 14.74	138.89 ± 10.25	158.27 ± 9.61	138.25 ± 10.51	n = 3	Abbott
49.08 ± 3.14	244.07 ± 19.75	130.71 ± 11.29	151.50 ± 10.89	128.28 ± 8.24	n = 20	Beckman Coulter
58.80 ± 4.65	298.05 ± 12.72	143.94 ± 7.85	195.36 ± 8.74	145.89 ± 7.30	n = 14	Roche Elecsys/Modular E/e601/e411
36.28 ± 2.34	212.98 ± 18.57	99.89 ± 6.05	133.26 ± 12.37	100.97 ± 4.91	n = 4	Siemens ADVIA/ADVISIA Centaur
42.41 ± 4.50	238.91 ± 17.29	134.78 ± 13.45	147.54 ± 11.69	134.85 ± 11.39	n = 35	Siemens Immulite
46.86 ± 7.93	245.54 ± 27.29	134.08 ± 12.45	153.82 ± 19.88	132.50 ± 14.54	n = 5	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Lutropin (LH, mIU/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
4.86 ± 0.83	8.96 ± 1.26	198.47 ± 13.18	2.14 ± 0.56	159.37 ± 16.08	n = 188	All Methods & Instruments
4.80	9.10	200.00	2.00	160.00	n = 188	Median value, All Methods & Instruments
<Instruments>						
4.41 ± 0.24	7.53 ± 0.26	182.03 ± 9.56	1.65 ± 0.09	132.38 ± 8.19	n = 10	Abbott Architect i System
3.93 ± 0.27	7.42 ± 0.46	190.69 ± 11.58	1.64 ± 0.10	143.67 ± 9.76	n = 10	Beckman Coulter ACCESS
3.84 ± 0.44	7.23 ± 0.70	190.90 ± 16.34	1.54 ± 0.20	141.67 ± 13.85	n = 5	Beckman Coulter UniCel DxI 600
3.88 ± 0.19	7.39 ± 0.24	192.46 ± 8.15	1.60 ± 0.14	144.91 ± 8.50	n = 17	Beckman Coulter UniCel DxI 800
4.93 ± 0.35	10.72 ± 0.73	200.00 ± 0.00	2.35 ± 0.21	200.00 ± 0.00	n = 11	Ortho Vitros 5600
5.60 ± 0.09	9.48 ± 0.35	200.00 ± 0.00	2.37 ± 0.12	161.74 ± 5.96	n = 6	Roche cobas e411
5.67 ± 0.22	9.61 ± 0.39	200.00 ± 0.00	2.42 ± 0.12	159.98 ± 5.66	n = 16	Roche cobas e601
5.71 ± 0.13	9.67 ± 0.28	188.90 ± 16.51	2.46 ± 0.13	159.02 ± 5.34	n = 5	Roche cobas e602
5.58 ± 0.19	9.28 ± 0.41	194.55 ± 14.72	2.34 ± 0.08	157.38 ± 7.53	n = 4	Roche Elecsys
5.66 ± 0.10	9.63 ± 0.24	200.00 ± 0.01	2.40 ± 0.05	162.10 ± 4.02	n = 6	Roche MODULAR E
4.38 ± 0.36	8.59 ± 0.62	208.73 ± 16.57	1.87 ± 0.11	165.91 ± 10.28	n = 51	Siemens ADVIA Centaur
4.82 ± 0.15	8.98 ± 0.49	206.16 ± 11.26	2.13 ± 0.05	171.59 ± 6.22	n = 3	Siemens ADVIA Centaur CP
5.77 ± 0.28	11.08 ± 0.45	150.00 ± 0.00	2.44 ± 0.13	150.00 ± 0.00	n = 9	Siemens Dimension Vista
5.62 ± 0.13	10.11 ± 0.91	200.00 ± 0.00	3.45 ± 0.25	182.13 ± 16.71	n = 5	Siemens Immulite 1000
5.64 ± 0.36	9.88 ± 0.29	200.00 ± 0.00	3.23 ± 0.12	159.62 ± 11.29	n = 22	Siemens Immulite 2000
5.00 ± 0.11	8.98 ± 0.21	214.76 ± 18.96	2.07 ± 0.09	158.60 ± 4.84	n = 4	Tosoh Bioscience
5.08 ± 0.76	9.15 ± 1.21	197.80 ± 8.17	2.20 ± 0.50	157.81 ± 14.04	n = 16	Mean of Above Means
<Reagents>						
4.41 ± 0.24	7.53 ± 0.26	182.03 ± 9.56	1.65 ± 0.09	132.38 ± 8.19	n = 10	Abbott
3.89 ± 0.26	7.39 ± 0.44	191.48 ± 10.09	1.60 ± 0.15	144.20 ± 9.93	n = 32	Beckman Coulter
4.94 ± 0.33	10.70 ± 0.69	200.00 ± 0.00	2.35 ± 0.19	200.00 ± 0.00	n = 12	Ortho Clinical Diagnostics
5.65 ± 0.17	9.57 ± 0.36	200.00 ± 0.00	2.41 ± 0.11	160.30 ± 5.85	n = 37	Roche Elecsys/Modular E/e601/e411
4.40 ± 0.37	8.62 ± 0.62	208.50 ± 16.19	1.88 ± 0.12	166.25 ± 10.17	n = 54	Siemens ADVIA/ADVIS Centaur
5.77 ± 0.28	11.08 ± 0.45	150.00 ± 0.00	2.44 ± 0.13	150.00 ± 0.00	n = 9	Siemens Dimension LOCI
5.64 ± 0.35	9.85 ± 0.35	200.00 ± 0.00	3.24 ± 0.13	162.43 ± 14.39	n = 27	Siemens Immulite
4.97 ± 0.77	9.28 ± 1.48	197.42 ± 9.17	2.18 ± 0.54	156.82 ± 18.59	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Follitropin (FSH, mIU/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
26.03 ± 2.94	5.57 ± 0.68	109.80 ± 19.49	21.02 ± 2.65	117.76 ± 21.44	n = 192	All Methods & Instruments
25.50	5.40	105.80	20.50	112.40	n = 192	Median value, All Methods & Instruments
<Instruments>						
23.40 ± 0.62	4.90 ± 0.23	97.55 ± 4.46	18.12 ± 1.12	103.24 ± 3.02	n = 10	Abbott Architect i System
24.18 ± 1.54	5.44 ± 0.33	96.94 ± 7.56	19.08 ± 0.80	106.52 ± 10.21	n = 10	Beckman Coulter ACCESS
25.38 ± 1.20	5.45 ± 0.18	96.79 ± 3.35	18.85 ± 0.78	106.86 ± 3.26	n = 5	Beckman Coulter UniCel DxI 600
25.60 ± 1.37	5.67 ± 0.45	104.33 ± 7.83	20.16 ± 1.18	109.39 ± 6.62	n = 17	Beckman Coulter UniCel DxI 800
23.72 ± 0.94	4.81 ± 0.44	89.37 ± 3.53	17.34 ± 0.64	98.19 ± 5.66	n = 11	Ortho Vitros 5600
25.84 ± 1.05	6.00 ± 0.54	112.96 ± 5.99	22.60 ± 1.45	121.01 ± 6.17	n = 6	Roche cobas e411
24.38 ± 1.12	5.30 ± 0.21	106.00 ± 4.22	20.53 ± 0.81	113.33 ± 4.17	n = 16	Roche cobas e601
23.78 ± 1.17	5.16 ± 0.13	104.11 ± 3.61	20.03 ± 0.64	110.37 ± 5.26	n = 5	Roche cobas e602
24.55 ± 0.81	5.64 ± 0.30	105.87 ± 5.39	21.03 ± 1.02	115.04 ± 3.30	n = 4	Roche Elecsys
24.17 ± 0.45	5.31 ± 0.11	104.75 ± 2.50	20.43 ± 0.37	112.33 ± 2.74	n = 6	Roche MODULAR E
29.93 ± 1.88	6.35 ± 0.50	137.60 ± 9.62	24.33 ± 1.35	148.81 ± 10.16	n = 55	Siemens ADVIA Centaur
30.19 ± 2.00	5.75 ± 0.27	138.61 ± 15.00	24.44 ± 1.54	153.46 ± 16.20	n = 3	Siemens ADVIA Centaur CP
22.97 ± 0.92	5.08 ± 0.18	101.45 ± 4.59	19.15 ± 0.83	109.26 ± 1.61	n = 9	Siemens Dimension Vista
25.08 ± 1.26	4.94 ± 0.37	93.12 ± 8.08	20.03 ± 1.07	99.59 ± 3.83	n = 5	Siemens Immulite 1000
25.21 ± 1.18	5.16 ± 0.25	97.51 ± 8.54	20.51 ± 1.08	102.82 ± 8.08	n = 22	Siemens Immulite 2000
27.58 ± 0.83	6.45 ± 0.30	100.20 ± 3.09	20.12 ± 0.91	107.76 ± 2.18	n = 4	Tosoh Bioscience
24.77 ± 1.49	5.42 ± 0.48	100.80 ± 6.05	20.18 ± 1.77	108.13 ± 6.04	n = 16	Mean of Above Means
<Reagents>						
23.40 ± 0.62	4.90 ± 0.23	97.55 ± 4.46	18.12 ± 1.12	103.24 ± 3.02	n = 10	Abbott
25.17 ± 1.54	5.54 ± 0.37	100.60 ± 7.79	19.55 ± 1.18	108.28 ± 7.21	n = 32	Beckman Coulter
23.90 ± 1.08	4.83 ± 0.42	89.78 ± 3.61	17.48 ± 0.80	98.54 ± 5.45	n = 12	Ortho Clinical Diagnostics
24.48 ± 1.15	5.33 ± 0.23	106.14 ± 4.83	20.63 ± 0.95	113.75 ± 5.01	n = 37	Roche Elecsys/Modular E/e601/e411
29.94 ± 1.89	6.31 ± 0.51	137.63 ± 9.95	24.34 ± 1.36	148.91 ± 10.46	n = 58	Siemens ADVIA/ADVIS Centaur
22.97 ± 0.92	5.08 ± 0.18	101.45 ± 4.59	19.15 ± 0.83	109.26 ± 1.61	n = 9	Siemens Dimension LOCI
25.19 ± 1.20	5.13 ± 0.29	96.66 ± 8.50	20.42 ± 1.10	101.93 ± 7.41	n = 27	Siemens Immulite
24.20 ± 0.95	5.20 ± 0.39	98.97 ± 5.13	19.60 ± 1.86	105.76 ± 5.52	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Prolactin ($\mu\text{g/L}$)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
1.91 ± 0.43	1.51 ± 0.28	14.51 ± 2.67	3.43 ± 0.53	28.95 ± 5.39	n = 171	All Methods & Instruments
1.90	1.56	13.90	3.40	27.40	n = 171	Median value, All Methods & Instruments
						<Instruments>
2.05 ± 0.15	1.56 ± 0.15	17.30 ± 1.18	3.81 ± 0.31	33.66 ± 2.07	n = 7	Abbott Architect i System
1.60 ± 0.09	1.19 ± 0.08	13.47 ± 0.39	3.08 ± 0.13	26.64 ± 1.11	n = 10	Beckman Coulter ACCESS
1.65 ± 0.22	1.28 ± 0.31	13.14 ± 0.62	3.24 ± 0.26	24.80 ± 1.04	n = 5	Beckman Coulter UniCel DxI 600
1.56 ± 0.12	1.22 ± 0.12	13.06 ± 0.74	3.13 ± 0.23	25.87 ± 1.42	n = 14	Beckman Coulter UniCel DxI 800
2.22 ± 0.87	1.71 ± 0.41	14.12 ± 0.65	3.53 ± 0.38	27.35 ± 1.01	n = 10	Ortho Vitros 5600
2.59 ± 0.14	1.80 ± 0.00	19.40 ± 0.45	4.28 ± 0.13	38.60 ± 1.34	n = 5	Roche cobas e411
2.46 ± 0.10	1.77 ± 0.07	18.54 ± 0.69	4.24 ± 0.16	37.05 ± 1.21	n = 14	Roche cobas e601
2.44 ± 0.07	1.78 ± 0.06	18.52 ± 0.39	4.26 ± 0.11	36.50 ± 1.15	n = 4	Roche cobas e602
2.52 ± 0.09	1.80 ± 0.01	19.03 ± 1.06	4.29 ± 0.24	37.35 ± 2.08	n = 5	Roche Elecsys
2.50 ± 0.00	1.80 ± 0.00	19.02 ± 0.48	4.32 ± 0.10	37.68 ± 1.29	n = 6	Roche MODULAR E
1.93 ± 0.13	1.59 ± 0.13	13.35 ± 0.96	3.34 ± 0.23	26.74 ± 2.09	n = 49	Siemens ADVIA Centaur
2.03 ± 0.14	1.60 ± 0.09	13.99 ± 0.44	3.51 ± 0.29	27.62 ± 3.01	n = 3	Siemens ADVIA Centaur CP
1.57 ± 0.07	1.28 ± 0.07	16.55 ± 0.58	3.25 ± 0.16	34.50 ± 0.96	n = 11	Siemens Dimension Vista
1.45 ± 0.10	1.29 ± 0.15	11.81 ± 0.63	2.89 ± 0.23	23.86 ± 1.34	n = 19	Siemens Immulite 2000
2.04 ± 0.45	1.56 ± 0.26	15.78 ± 2.98	3.64 ± 0.57	31.27 ± 6.04	n = 14	Mean of Above Means
						<Reagents>
2.04 ± 0.14	1.55 ± 0.14	16.98 ± 1.52	3.76 ± 0.31	33.12 ± 2.60	n = 8	Abbott
1.58 ± 0.12	1.20 ± 0.11	13.22 ± 0.66	3.13 ± 0.21	25.97 ± 1.42	n = 29	Beckman Coulter
2.39 ± 0.98	1.82 ± 0.50	14.26 ± 0.65	3.57 ± 0.38	27.50 ± 1.04	n = 12	Ortho Clinical Diagnostics
2.49 ± 0.09	1.79 ± 0.05	18.84 ± 0.70	4.28 ± 0.15	37.35 ± 1.48	n = 34	Roche Elecsys/Modular E/e601/e411
1.94 ± 0.14	1.59 ± 0.12	13.40 ± 0.95	3.35 ± 0.24	26.77 ± 2.15	n = 52	Siemens ADVIA/ADVIS Centaur
1.57 ± 0.07	1.28 ± 0.07	16.55 ± 0.58	3.25 ± 0.16	34.50 ± 0.96	n = 11	Siemens Dimension LOCI
1.46 ± 0.12	1.29 ± 0.14	11.83 ± 0.67	2.88 ± 0.24	24.09 ± 1.66	n = 21	Siemens Immulite
1.91 ± 0.42	1.50 ± 0.26	14.92 ± 2.51	3.42 ± 0.43	29.67 ± 5.11	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact Parathyroid (PTH, pg/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
3.29 ± 2.24	17.34 ± 6.45	2.85 ± 2.26	9.00 ± 4.15	2.86 ± 2.22	n = 181	All Methods & Instruments
3.00	17.70	2.90	8.70	2.50	n = 181	Median value, All Methods & Instruments
<Instruments>						
2.32 ± 2.00	27.37 ± 8.42	2.34 ± 1.98	15.27 ± 3.20	2.34 ± 1.98	n = 5	Abbott Architect i System
1.77 ± 2.66	10.41 ± 5.92	1.80 ± 2.63	5.49 ± 2.71	1.80 ± 2.63	n = 12	Beckman Coulter ACCESS
0.50 ± 0.57	12.49 ± 4.99	0.56 ± 0.52	6.42 ± 2.44	0.54 ± 0.54	n = 7	Beckman Coulter UniCel DxI 600
1.00 ± 0.00	11.87 ± 3.39	1.00 ± 0.00	6.15 ± 1.66	1.00 ± 0.00	n = 17	Beckman Coulter UniCel DxI 800
3.40 ± 0.00	20.12 ± 3.24	3.40 ± 0.00	11.93 ± 1.25	3.40 ± 0.00	n = 8	Ortho Vitros 5600
4.13 ± 1.65	19.74 ± 4.13	2.26 ± 1.62	13.02 ± 2.67	2.41 ± 1.65	n = 21	Roche cobas e601
3.71 ± 0.84	18.60 ± 4.71	1.93 ± 0.09	11.84 ± 2.86	1.93 ± 0.09	n = 5	Roche cobas e602
4.94 ± 1.21	18.16 ± 4.46	3.24 ± 1.30	13.45 ± 2.97	3.19 ± 1.58	n = 5	Roche Elecsys
4.20 ± 1.34	18.50 ± 4.53	2.50 ± 1.79	11.63 ± 2.60	2.52 ± 1.78	n = 9	Roche MODULAR E
4.11 ± 2.62	17.03 ± 5.86	4.05 ± 2.63	6.82 ± 2.25	4.11 ± 2.62	n = 51	Siemens ADVIA Centaur
4.20 ± 2.59	23.51 ± 3.46	4.12 ± 2.76	11.54 ± 2.64	4.15 ± 2.69	n = 4	Siemens ADVIA Centaur CP
4.30 ± 1.32	17.67 ± 7.65	5.97 ± 3.60	12.13 ± 6.06	4.96 ± 2.55	n = 7	Siemens Immulite 1000
3.00 ± 0.00	20.84 ± 5.59	3.00 ± 0.00	10.79 ± 2.57	3.00 ± 0.00	n = 21	Siemens Immulite 2000
1.00 ± 0.00	12.41 ± 9.23	1.00 ± 0.00	5.81 ± 4.05	1.00 ± 0.00	n = 5	Tosoh Bioscience
3.16 ± 1.51	17.70 ± 4.67	2.54 ± 1.37	10.31 ± 3.47	2.58 ± 1.32	n = 14	Mean of Above Means
<Reagents>						
2.32 ± 2.00	27.37 ± 8.42	2.34 ± 1.98	15.27 ± 3.20	2.34 ± 1.98	n = 5	Abbott
0.66 ± 0.52	11.65 ± 4.54	0.69 ± 0.48	6.07 ± 2.16	0.68 ± 0.48	n = 36	Beckman Coulter
3.40 ± 0.00	20.12 ± 3.24	3.40 ± 0.00	11.93 ± 1.25	3.40 ± 0.00	n = 8	Ortho Clinical Diagnostics
4.25 ± 1.48	19.42 ± 4.55	2.50 ± 1.64	12.78 ± 2.94	2.58 ± 1.69	n = 42	Roche Elecsys/Modular E/e601/e411
4.12 ± 2.62	17.53 ± 5.96	4.06 ± 2.64	7.03 ± 2.45	4.11 ± 2.62	n = 55	Siemens ADVIA/ADVIS Centaur
3.00 ± 0.00	19.56 ± 6.49	3.00 ± 0.00	10.25 ± 2.94	3.00 ± 0.00	n = 24	Siemens Immulite
5.17 ± 0.47	22.44 ± 4.63	8.60 ± 2.70	16.25 ± 2.53	6.82 ± 2.19	n = 4	Siemens Immulite Turbo
1.00 ± 0.00	15.51 ± 8.85	1.00 ± 0.00	7.08 ± 3.87	1.00 ± 0.00	n = 3	Tosoh AIA
3.05 ± 1.60	19.12 ± 4.32	2.53 ± 1.41	10.79 ± 3.99	2.77 ± 1.70	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D2 (ng/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
2.60 ± 1.52	2.77 ± 1.53	10.47 ± 1.49	20.98 ± 1.28	32.93 ± 2.74	n = 15	All Methods & Instruments
2.00	2.00	10.00	21.00	32.00	n = 15	Median value, All Methods & Instruments
2.60 ± 1.52	2.77 ± 1.53	10.47 ± 1.49	20.98 ± 1.28	32.93 ± 2.74	n = 15	<Instruments> LC/MS/MS <Reagents>
2.74 ± 1.50	2.69 ± 1.57	10.49 ± 1.39	20.98 ± 1.27	32.93 ± 2.74	n = 14	In-House

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D3 (ng/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
56.08 ± 4.39	39.66 ± 4.42	55.82 ± 4.94	7.60 ± 1.53	35.11 ± 2.57	n = 15	All Methods & Instruments
57.00	39.00	54.00	7.30	34.60	n = 15	Median value, All Methods & Instruments
56.08 ± 4.39	39.66 ± 4.42	55.82 ± 4.94	7.60 ± 1.53	35.11 ± 2.57	n = 15	<Instruments> LC/MS/MS <Reagents>
56.50 ± 4.09	40.11 ± 4.19	55.82 ± 4.88	7.78 ± 1.39	35.11 ± 2.56	n = 14	In-House

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D, Total (ng/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
39.63 ± 9.22	45.31 ± 25.69	47.58 ± 11.54	29.51 ± 22.45	45.50 ± 14.12	n = 177	All Methods & Instruments
37.30	36.20	46.20	20.50	41.70	n = 177	Median value, All Methods & Instruments
34.49 ± 1.57	33.63 ± 1.96	45.29 ± 2.66	15.65 ± 1.28	38.56 ± 1.95	n = 23	<Instruments>
32.80 ± 2.99	32.72 ± 3.21	36.12 ± 3.86	18.39 ± 1.62	33.80 ± 3.12	n = 50	Abbott Architect i System
41.77 ± 1.98	44.87 ± 1.58	51.23 ± 1.32	25.34 ± 1.52	46.29 ± 1.42	n = 3	DiaSorin Liaison
57.00 ± 4.45	40.36 ± 4.38	66.56 ± 5.81	28.78 ± 2.43	68.60 ± 3.88	n = 13	Immunodiagnostic Systems-iSYS Immun
57.09 ± 4.24	54.61 ± 3.96	50.54 ± 4.29	34.62 ± 2.91	47.85 ± 3.41	n = 11	LC/MS/MS
37.97 ± 0.32	25.01 ± 0.89	47.90 ± 2.61	14.90 ± 0.92	45.07 ± 0.42	n = 3	Ortho Vitros 5600
34.25 ± 3.08	22.85 ± 2.52	43.64 ± 3.01	14.23 ± 1.78	41.59 ± 2.18	n = 13	Roche cobas e411
44.47 ± 5.14	94.04 ± 13.79	57.95 ± 7.28	73.12 ± 10.15	60.81 ± 6.88	n = 42	Roche cobas e601
45.94 ± 3.85	56.82 ± 1.89	73.99 ± 3.40	48.78 ± 1.83	74.57 ± 2.87	n = 4	Siemens ADVIA Centaur
39.60 ± 4.48	60.99 ± 38.05	47.84 ± 3.46	29.74 ± 4.90	44.12 ± 2.86	n = 4	Tosoh Bioscience
41.62 ± 8.57	43.47 ± 18.27	50.88 ± 10.49	25.82 ± 13.40	48.60 ± 12.98	n = 10	UV/Vis Photometer
						Mean of Above Means
34.49 ± 1.57	33.63 ± 1.96	45.29 ± 2.66	15.65 ± 1.28	38.56 ± 1.95	n = 23	<Reagents>
49.64 ± 1.11	50.02 ± 2.61	49.14 ± 3.50	32.80 ± 2.90	45.70 ± 3.49	n = 3	Abbott
32.80 ± 2.99	32.72 ± 3.21	36.12 ± 3.86	18.39 ± 1.62	33.80 ± 3.12	n = 50	Beckman Coulter
35.94 ± 2.76	53.83 ± 9.37	47.13 ± 3.56	31.12 ± 4.17	40.87 ± 3.60	n = 5	DiaSorin Liaison
41.77 ± 1.98	44.87 ± 1.58	51.23 ± 1.32	25.34 ± 1.52	46.29 ± 1.42	n = 3	Immunodiagnostic Systems Enzyme Imm
56.49 ± 5.13	39.98 ± 4.37	66.31 ± 7.36	28.60 ± 2.33	68.54 ± 4.11	n = 14	Immunodiagnostic Systems-iSYS chemi
57.43 ± 4.18	54.04 ± 4.34	49.95 ± 4.58	34.99 ± 3.25	47.19 ± 4.15	n = 12	In-House
35.70 ± 3.45	23.38 ± 2.18	44.32 ± 3.33	14.34 ± 1.61	42.03 ± 2.53	n = 19	Ortho Clinical Diagnostics
44.68 ± 4.80	93.64 ± 13.86	57.99 ± 7.62	72.72 ± 10.33	61.00 ± 6.91	n = 32	Roche Elecsys/Modular E/e601/e411
43.60 ± 6.03	95.24 ± 13.32	57.69 ± 6.10	74.18 ± 9.45	60.20 ± 6.75	n = 10	Siemens ADVIA Centaur - Vitamin D T
45.94 ± 3.85	56.82 ± 1.89	73.99 ± 3.40	48.78 ± 1.83	74.57 ± 2.87	n = 4	Siemens ADVIA/ADVIA Centaur
43.04 ± 8.63	49.16 ± 21.02	51.72 ± 10.11	32.93 ± 19.41	49.72 ± 13.31	n = 11	Tosoh AIA
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact human Choriogonadotropin (intact hCG, mIU/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
56.3 ± 2.74	1.5 ± 0.98	61.3 ± 6.16	1.5 ± 1.00	45.8 ± 4.22	n = 47	All Methods & Instruments
56.0	1.0	63.0	1.0	46.0	n = 47	Median value, All Methods & Instruments
						<Instruments>
54.0 ± 1.87	2.5 ± 1.98	53.6 ± 2.21	2.5 ± 1.98	40.5 ± 1.50	n = 12	Roche cobas e601
56.5 ± 2.22	1.3 ± 0.98	64.1 ± 2.66	1.3 ± 0.98	47.4 ± 2.05	n = 15	Siemens Dimension EXL
58.4 ± 3.00	1.4 ± 0.67	65.2 ± 3.40	1.5 ± 0.69	49.1 ± 2.75	n = 11	Siemens Dimension RxL
57.4 ± 1.37	1.5 ± 0.83	65.1 ± 2.33	1.5 ± 0.83	48.3 ± 1.61	n = 5	Siemens Dimension Xpand
56.8 ± 1.74	1.6 ± 0.47	63.1 ± 4.67	1.6 ± 0.46	47.0 ± 3.34	n = 4	Mean of Above Means
						<Reagents>
54.2 ± 1.82	2.4 ± 1.80	53.5 ± 2.13	2.4 ± 1.80	40.8 ± 1.63	n = 14	Roche Elecsys/Modular E/e601/e411
57.3 ± 2.40	1.4 ± 0.85	64.6 ± 2.91	1.4 ± 0.87	48.1 ± 2.39	n = 31	Siemens Dimension
55.7 ± 1.74	1.9 ± 0.58	59.1 ± 6.31	1.9 ± 0.57	44.4 ± 4.19	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Total Beta hCG (mIU/mL)

Specimen: E21	Specimen: E22	Specimen: E23	Specimen: E24	Specimen: E25	Number	Instrument or Reagent System
53.0 ± 7.80	1.5 ± 1.28	54.7 ± 10.41	1.4 ± 1.18	43.6 ± 7.53	n = 253	All Methods & Instruments
53.0	1.0	53.6	1.0	44.0	n = 253	Median value, All Methods & Instruments
						<Instruments>
41.0 ± 1.98	1.9 ± 1.75	45.9 ± 2.60	1.9 ± 1.75	35.7 ± 2.21	n = 22	Abbott Architect i System
46.1 ± 3.62	0.5 ± 0.35	48.1 ± 4.13	0.5 ± 0.35	39.6 ± 3.16	n = 28	Beckman Coulter ACCESS
48.4 ± 2.40	1.1 ± 1.95	52.1 ± 3.25	1.1 ± 1.95	42.6 ± 1.76	n = 8	Beckman Coulter UniCel DxI 600
46.6 ± 2.31	0.7 ± 0.57	49.3 ± 3.37	0.7 ± 0.56	40.6 ± 3.23	n = 16	Beckman Coulter UniCel DxI 800
61.6 ± 3.22	2.2 ± 0.34	62.9 ± 3.23	2.2 ± 0.34	49.4 ± 2.75	n = 20	Ortho Vitros 5600
61.7 ± 3.05	3.5 ± 1.71	63.0 ± 3.61	3.5 ± 1.71	48.9 ± 2.87	n = 5	Ortho Vitros ECi/ECiQ
55.7 ± 1.18	1.0 ± 0.44	62.7 ± 2.32	1.0 ± 0.44	49.7 ± 1.87	n = 8	Roche cobas e411
54.6 ± 2.62	0.7 ± 0.58	61.5 ± 2.79	0.7 ± 0.58	48.5 ± 2.70	n = 14	Roche cobas e601
55.2 ± 1.45	1.2 ± 1.94	61.6 ± 1.80	1.2 ± 1.94	48.9 ± 1.59	n = 4	Roche cobas e602
53.3 ± 4.83	0.1 ± 0.00	61.5 ± 4.53	0.1 ± 0.00	49.4 ± 2.59	n = 3	Roche Elecsys
54.5 ± 1.44	1.5 ± 1.60	61.3 ± 1.04	1.5 ± 1.60	48.4 ± 1.24	n = 9	Roche MODULAR E
51.0 ± 1.69	2.5 ± 0.98	44.9 ± 1.53	2.2 ± 0.60	36.5 ± 2.05	n = 49	Siemens ADVIA Centaur
54.9 ± 4.40	2.7 ± 0.49	45.1 ± 1.59	2.6 ± 0.46	35.6 ± 2.61	n = 3	Siemens ADVIA Centaur CP
58.5 ± 1.31	1.0 ± 0.00	62.6 ± 1.52	1.0 ± 0.00	48.8 ± 0.78	n = 42	Siemens Dimension Vista
62.7 ± 3.08	2.1 ± 2.05	68.3 ± 0.94	2.1 ± 2.05	53.8 ± 1.59	n = 3	Siemens Immulite 1000
75.0 ± 4.29	1.0 ± 0.00	84.7 ± 3.82	1.0 ± 0.00	68.8 ± 3.54	n = 12	Siemens Immulite 2000
61.1 ± 0.79	1.3 ± 0.86	66.4 ± 0.97	1.3 ± 0.86	53.1 ± 1.57	n = 4	Tosoh Bioscience
55.0 ± 7.19	1.4 ± 0.88	58.5 ± 9.70	1.4 ± 0.84	46.4 ± 7.16	n = 17	Mean of Above Means
						<Reagents>
40.8 ± 2.08	2.1 ± 1.89	45.9 ± 2.51	2.1 ± 1.89	35.6 ± 2.17	n = 23	Abbott
46.2 ± 3.44	0.5 ± 0.40	48.4 ± 4.23	0.5 ± 0.41	39.8 ± 3.49	n = 40	Beckman Coulter
47.8 ± 2.01	0.5 ± 0.25	50.9 ± 2.41	0.5 ± 0.23	41.9 ± 1.68	n = 12	Beckman Coulter IFCC Standardized
61.5 ± 3.20	2.3 ± 0.31	63.0 ± 3.31	2.3 ± 0.31	49.3 ± 2.77	n = 25	Ortho Clinical Diagnostics
54.9 ± 2.14	0.7 ± 0.58	61.8 ± 2.22	0.7 ± 0.58	48.9 ± 2.04	n = 38	Roche Elecsys/Modular E/e601/e411
51.1 ± 1.69	2.5 ± 0.94	44.9 ± 1.53	2.2 ± 0.65	36.5 ± 2.07	n = 52	Siemens ADVIA/ADVIS Centaur
58.0 ± 0.90	0.7 ± 0.51	63.3 ± 0.51	0.7 ± 0.51	47.7 ± 1.37	n = 3	Siemens Dimension
58.5 ± 1.36	1.0 ± 0.00	62.5 ± 1.57	1.0 ± 0.00	48.9 ± 0.79	n = 40	Siemens Dimension LOCI
73.2 ± 6.48	1.0 ± 0.00	82.3 ± 7.33	1.0 ± 0.00	66.9 ± 6.63	n = 15	Siemens Immulite
54.1 ± 9.09	1.2 ± 0.82	57.0 ± 11.13	1.2 ± 0.77	44.7 ± 7.87	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Qualitative hCG report:

[AB1] Abbott	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
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Negative	0	7	0	7	0
Indeterminant	0	0	0	0	0
Positive	7	0	7	0	7

[AR1] Alere hCG Combo Cassette	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
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Negative	0	8	0	8	0
Indeterminant	0	0	0	0	0
Positive	8	0	8	0	8

[BC1] Beckman Coulter	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
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Negative	0	25	0	25	0
Indeterminant	0	0	0	0	0
Positive	25	0	25	0	25

[CD1] Cardinal Health	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
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Negative	0	22	0	22	0
Indeterminant	0	0	0	0	0
Positive	22	0	22	0	22

[CM1] CEN-MED Elite Plus hCG One Step	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
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Negative	0	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	5	0	5	0	5

[FI1] Fisher	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
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Negative	0	45	0	45	0
Indeterminant	0	0	0	0	0
Positive	45	0	45	0	45

[JJ1] Ortho Clinical Diagnostics	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
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Negative	0	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	3	1	3	1	3

Statistical Summary (Mean and Standard Deviation)

[PM1] Polymedco	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative	0	4	0	4	0
Indeterminant	0	0	0	0	0
Positive	4	0	4	0	4
[QQ2] Quidel QuickVue One-Step hCG Combo	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative	0	19	0	19	0
Indeterminant	0	0	0	0	0
Positive	19	0	19	0	19
[QQ1] Quidel QuickVue† One-Step hCG Combo	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative	0	16	0	16	0
Indeterminant	0	0	0	0	0
Positive	16	0	16	0	16
[RO3] Roche Elecsys/Modular E/e601/e411	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative	0	11	0	11	0
Indeterminant	0	0	0	0	0
Positive	11	0	11	0	11
[GZ1] Sekisui Diagnostics (Genzyme)	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative	0	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	5	0	5	0	5
[BY1] Siemens ADVIA/ADVIA Centaur	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative	0	22	0	22	0
Indeterminant	0	0	0	0	0
Positive	22	0	22	0	22
[DA5] Siemens Dimension	Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative	0	1	0	1	0
Indeterminant	0	0	0	0	0
Positive	1	0	1	0	1

Statistical Summary (Mean and Standard Deviation)

[DA6] Siemens Dimension LOCI		Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative		0	4	0	4	0
Indeterminant		0	0	0	0	0
Positive		4	0	4	0	4
[DP5] Siemens Immulite		Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative		0	2	0	2	0
Indeterminant		0	0	0	0	0
Positive		2	0	2	0	2
[SB1] Stanbio		Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative		0	7	0	7	0
Indeterminant		0	0	0	0	0
Positive		7	0	7	0	7
[TR1] TrueMedix		Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative		0	5	0	5	0
Indeterminant		0	0	0	0	0
Positive		5	0	5	0	5
[--] All Methods & Instruments		Specimen:E21	Specimen:E22	Specimen:E23	Specimen:E24	Specimen:E25
Negative		0	210	0	210	0
Indeterminant		0	0	0	0	0
Positive		211	1	211	1	211