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Endocrinology Proficiency Test Program

Statistical Summary – September 2014 (Event 14-3)

This statistical report summarizes participant data for the five Endocrinology proficiency survey specimens shipped 8 September 2014. Test specimens E16-E20 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: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
2.44 ± 0.89	8.65 ± 1.35	10.18 ± 1.12	10.98 ± 1.81	14.89 ± 1.68	n = 232	All Methods & Instruments
2.50	8.30	10.20	10.60	14.80	n = 232	Median value, All Methods & Instruments
						<Instruments>
2.80 ± 0.27	7.72 ± 0.40	8.78 ± 0.38	10.19 ± 0.53	13.87 ± 0.72	n = 20	Abbott Architect i System
2.44 ± 0.19	9.76 ± 0.61	10.80 ± 0.44	12.44 ± 0.56	15.53 ± 0.67	n = 20	Beckman Coulter ACCESS
2.56 ± 0.09	8.17 ± 0.31	10.13 ± 0.35	10.55 ± 0.30	16.00 ± 0.73	n = 8	Beckman Coulter AU Chemistry System
2.39 ± 0.25	9.80 ± 0.37	10.73 ± 0.15	13.26 ± 0.39	15.35 ± 0.31	n = 3	Beckman Coulter UniCel DxI 600
2.31 ± 0.18	10.14 ± 0.43	10.49 ± 0.64	13.11 ± 0.64	15.27 ± 1.03	n = 14	Beckman Coulter UniCel DxI 800
2.20 ± 0.12	8.44 ± 0.36	10.37 ± 0.42	10.83 ± 0.26	15.43 ± 0.52	n = 16	Ortho Vitros 5600
2.33 ± 0.05	8.89 ± 0.37	10.55 ± 0.83	11.42 ± 0.88	15.92 ± 1.04	n = 3	Ortho Vitros ECi/ECiQ
3.00 ± 0.09	7.90 ± 0.09	9.82 ± 0.51	9.79 ± 0.29	14.27 ± 0.59	n = 3	Roche cobas e411
2.82 ± 0.13	7.70 ± 0.31	9.56 ± 0.35	9.74 ± 0.34	13.91 ± 0.59	n = 16	Roche cobas e601
2.78 ± 0.08	7.56 ± 0.22	9.39 ± 0.19	9.54 ± 0.22	13.72 ± 0.22	n = 5	Roche cobas e602
2.77 ± 0.14	7.60 ± 0.18	9.53 ± 0.31	9.60 ± 0.18	13.97 ± 0.60	n = 3	Roche Elecsys
2.91 ± 0.19	7.78 ± 0.50	9.54 ± 0.52	9.74 ± 0.50	14.03 ± 0.65	n = 9	Roche MODULAR E
1.12 ± 0.30	7.92 ± 0.43	9.99 ± 0.46	9.65 ± 0.52	13.71 ± 0.83	n = 49	Siemens ADVIA Centaur
2.93 ± 0.30	9.74 ± 0.32	11.14 ± 0.28	12.35 ± 0.27	16.66 ± 0.41	n = 6	Siemens Dimension EXL
2.87 ± 0.32	9.20 ± 0.36	10.68 ± 0.68	11.96 ± 0.71	15.83 ± 0.77	n = 3	Siemens Dimension RxL
3.98 ± 0.68	11.54 ± 0.65	13.12 ± 0.60	14.41 ± 0.85	18.64 ± 0.74	n = 30	Siemens Dimension Vista
2.00 ± 0.38	8.51 ± 0.47	9.96 ± 0.50	10.81 ± 0.72	15.20 ± 1.21	n = 4	Siemens Immulite 1000
2.02 ± 0.40	8.72 ± 0.55	9.52 ± 0.78	10.79 ± 0.96	14.55 ± 1.27	n = 9	Siemens Immulite 2000
2.72 ± 0.21	8.40 ± 0.75	10.08 ± 0.98	11.20 ± 0.93	14.53 ± 0.79	n = 5	Tosoh Bioscience
2.60 ± 0.41	8.56 ± 0.99	10.08 ± 0.64	10.98 ± 1.43	14.90 ± 1.06	n = 19	Mean of Above Means
						<Reagents>
2.80 ± 0.27	7.72 ± 0.40	8.78 ± 0.38	10.19 ± 0.53	13.87 ± 0.72	n = 20	Abbott
2.38 ± 0.20	9.92 ± 0.56	10.71 ± 0.53	12.77 ± 0.69	15.41 ± 0.79	n = 37	Beckman Coulter
2.55 ± 0.10	8.12 ± 0.29	10.07 ± 0.36	10.52 ± 0.31	15.91 ± 0.77	n = 7	Microgenics DRI
2.22 ± 0.13	8.52 ± 0.42	10.41 ± 0.51	10.99 ± 0.57	15.52 ± 0.68	n = 19	Ortho Clinical Diagnostics
2.84 ± 0.15	7.71 ± 0.34	9.54 ± 0.40	9.70 ± 0.37	13.94 ± 0.58	n = 36	Roche Elecsys/Modular E/e601/e411
1.12 ± 0.30	7.92 ± 0.43	9.99 ± 0.46	9.65 ± 0.52	13.71 ± 0.83	n = 49	Siemens ADVIA/ADVIS Centaur
3.68 ± 0.77	11.09 ± 1.05	12.57 ± 1.14	13.90 ± 1.33	18.18 ± 1.28	n = 37	Siemens Dimension
4.30 ± 0.46	11.88 ± 0.69	13.53 ± 0.05	13.80 ± 0.45	18.27 ± 0.23	n = 3	Siemens Dimension LOCI
2.02 ± 0.39	8.64 ± 0.50	9.68 ± 0.74	10.78 ± 0.86	14.75 ± 1.29	n = 13	Siemens Immulite
2.73 ± 0.05	8.78 ± 0.24	10.69 ± 0.29	11.58 ± 0.49	14.92 ± 0.24	n = 3	Tosoh ST AIA
2.63 ± 0.80	8.80 ± 1.36	10.36 ± 1.25	11.25 ± 1.60	15.25 ± 1.56	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T4 (ng/dL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
0.53 ± 0.07	2.39 ± 0.36	1.83 ± 0.25	3.23 ± 0.45	2.99 ± 0.51	n = 257	All Methods & Instruments
0.51	2.40	1.90	3.27	3.06	n = 257	Median value, All Methods & Instruments
<Instruments>						
0.60 ± 0.00	1.84 ± 0.07	1.55 ± 0.06	2.43 ± 0.10	2.38 ± 0.12	n = 19	Abbott Architect i System
0.44 ± 0.05	2.34 ± 0.12	1.74 ± 0.07	2.89 ± 0.14	2.50 ± 0.13	n = 20	Beckman Coulter ACCESS
0.48 ± 0.03	2.35 ± 0.08	1.67 ± 0.09	3.11 ± 0.01	2.64 ± 0.13	n = 6	Beckman Coulter UniCel DxI 600
0.44 ± 0.05	2.37 ± 0.13	1.67 ± 0.11	3.07 ± 0.15	2.63 ± 0.12	n = 14	Beckman Coulter UniCel DxI 800
0.59 ± 0.05	4.90 ± 0.19	3.19 ± 0.13	6.44 ± 0.21	5.65 ± 0.22	n = 17	Ortho Vitros 5600
0.58 ± 0.03	4.80 ± 0.17	3.10 ± 0.12	6.30 ± 0.12	5.51 ± 0.20	n = 6	Ortho Vitros ECi/ECiQ
0.57 ± 0.04	2.69 ± 0.03	2.08 ± 0.04	3.61 ± 0.06	3.44 ± 0.07	n = 4	Roche cobas e411
0.56 ± 0.04	2.77 ± 0.12	2.10 ± 0.06	3.80 ± 0.17	3.62 ± 0.11	n = 16	Roche cobas e601
0.56 ± 0.05	2.74 ± 0.15	2.11 ± 0.10	3.76 ± 0.20	3.57 ± 0.16	n = 5	Roche cobas e602
0.57 ± 0.04	2.82 ± 0.12	2.13 ± 0.05	3.84 ± 0.13	3.59 ± 0.14	n = 12	Roche MODULAR E
0.57 ± 0.07	2.37 ± 0.10	1.94 ± 0.10	3.30 ± 0.18	3.22 ± 0.16	n = 60	Siemens ADVIA Centaur
0.50 ± 0.02	2.17 ± 0.11	1.63 ± 0.08	3.09 ± 0.17	2.78 ± 0.12	n = 11	Siemens Dimension EXL
0.40 ± 0.09	3.12 ± 0.15	1.56 ± 0.10	3.63 ± 0.14	2.60 ± 0.18	n = 3	Siemens Dimension RxL
0.50 ± 0.01	2.10 ± 0.13	1.64 ± 0.09	2.98 ± 0.16	2.74 ± 0.15	n = 36	Siemens Dimension Vista
0.37 ± 0.05	2.91 ± 0.07	1.51 ± 0.08	3.42 ± 0.06	2.41 ± 0.01	n = 3	Siemens Dimension Xpand
0.60 ± 0.09	3.00 ± 0.09	2.06 ± 0.10	3.55 ± 0.19	3.06 ± 0.10	n = 3	Siemens Immulite 1000
0.53 ± 0.05	2.92 ± 0.10	1.99 ± 0.06	3.74 ± 0.16	3.03 ± 0.16	n = 11	Siemens Immulite 2000
0.47 ± 0.04	3.03 ± 0.13	2.41 ± 0.17	4.44 ± 0.32	4.19 ± 0.43	n = 5	Tosoh Bioscience
0.53 ± 0.07	2.62 ± 0.40	1.88 ± 0.35	3.42 ± 0.47	3.03 ± 0.63	n = 18	Mean of Above Means
<Reagents>						
0.60 ± 0.00	1.84 ± 0.07	1.55 ± 0.06	2.43 ± 0.10	2.38 ± 0.12	n = 19	Abbott
0.45 ± 0.05	2.35 ± 0.12	1.70 ± 0.10	2.98 ± 0.17	2.57 ± 0.14	n = 40	Beckman Coulter
0.59 ± 0.04	4.87 ± 0.19	3.17 ± 0.13	6.39 ± 0.19	5.62 ± 0.22	n = 23	Ortho Clinical Diagnostics
0.56 ± 0.04	2.77 ± 0.12	2.11 ± 0.06	3.78 ± 0.17	3.58 ± 0.14	n = 39	Roche Elecsys/Modular E/e601/e411
0.57 ± 0.07	2.37 ± 0.10	1.94 ± 0.10	3.30 ± 0.18	3.22 ± 0.16	n = 61	Siemens ADVIA/ADVIS Centaur
0.42 ± 0.08	2.75 ± 0.46	1.56 ± 0.09	3.37 ± 0.28	2.54 ± 0.20	n = 9	Siemens Dimension
0.50 ± 0.01	2.12 ± 0.13	1.64 ± 0.09	3.00 ± 0.17	2.76 ± 0.14	n = 44	Siemens Dimension LOCI
0.54 ± 0.06	2.93 ± 0.10	1.99 ± 0.06	3.70 ± 0.18	3.04 ± 0.15	n = 14	Siemens Immulite
0.45 ± 0.05	3.02 ± 0.03	2.41 ± 0.11	4.54 ± 0.41	4.31 ± 0.48	n = 3	Tosoh ST AIA
0.52 ± 0.07	2.54 ± 0.43	1.89 ± 0.39	3.39 ± 0.68	3.10 ± 0.82	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T3-Uptake (%)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
31.22 ± 5.94	43.43 ± 6.86	38.04 ± 4.66	44.90 ± 6.76	40.77 ± 5.09	n = 133	All Methods & Instruments
31.00	43.50	38.00	44.50	41.00	n = 133	Median value, All Methods & Instruments
33.52 ± 0.40	36.17 ± 0.84	31.92 ± 0.42	36.60 ± 1.13	32.12 ± 1.08	n = 9	<Instruments>
36.63 ± 1.79	49.08 ± 2.47	45.06 ± 2.22	49.33 ± 2.65	48.16 ± 2.43	n = 15	Abbott Architect i System
30.45 ± 1.52	46.44 ± 3.21	39.56 ± 2.03	47.33 ± 2.71	41.68 ± 0.92	n = 8	Beckman Coulter ACCESS
37.75 ± 2.64	47.98 ± 2.67	44.26 ± 2.19	48.37 ± 4.15	45.74 ± 2.82	n = 10	Beckman Coulter AU Chemistry System
46.14 ± 1.50	53.51 ± 1.64	40.82 ± 1.63	55.02 ± 1.82	44.11 ± 1.05	n = 8	Beckman Coulter UniCel DxI 800
46.87 ± 0.32	53.74 ± 0.39	41.45 ± 0.46	55.54 ± 0.47	43.37 ± 0.69	n = 3	Ortho Vitros 5600
30.67 ± 0.95	37.21 ± 0.57	36.23 ± 0.34	39.13 ± 1.23	40.26 ± 1.62	n = 3	Ortho Vitros ECi/ECiQ
29.23 ± 2.87	35.95 ± 2.63	35.50 ± 2.80	37.73 ± 2.23	39.51 ± 3.00	n = 3	Roche cobas e601
25.00 ± 1.82	46.88 ± 2.39	36.65 ± 2.16	48.45 ± 3.45	38.58 ± 2.44	n = 26	Roche cobas e602
30.60 ± 0.79	38.00 ± 1.37	35.63 ± 0.56	40.26 ± 1.83	39.50 ± 0.57	n = 6	Siemens ADVIA Centaur
31.86 ± 1.76	39.72 ± 2.21	38.07 ± 1.88	42.23 ± 2.10	41.38 ± 2.39	n = 20	Siemens Dimension EXL
26.08 ± 1.94	32.73 ± 1.05	30.31 ± 1.70	33.85 ± 1.37	31.94 ± 1.91	n = 3	Siemens Dimension Vista
27.12 ± 1.67	32.80 ± 1.57	30.54 ± 1.94	33.09 ± 1.44	31.57 ± 2.10	n = 8	Siemens Immulite 1000
32.20 ± 6.40	42.10 ± 7.96	37.37 ± 4.89	43.44 ± 7.88	40.14 ± 5.28	n = 13	Siemens Immulite 2000
						Mean of Above Means
33.52 ± 0.40	36.17 ± 0.84	31.92 ± 0.42	36.60 ± 1.13	32.12 ± 1.08	n = 9	<Reagents>
37.02 ± 2.21	48.61 ± 2.54	44.73 ± 2.18	48.89 ± 3.17	47.13 ± 2.87	n = 26	Abbott
30.79 ± 1.02	47.34 ± 0.81	39.88 ± 1.34	48.40 ± 1.19	41.92 ± 1.15	n = 8	Beckman Coulter
46.40 ± 1.31	53.53 ± 1.20	41.06 ± 1.38	55.22 ± 1.49	43.86 ± 1.04	n = 11	Microgenics CEDIA
29.95 ± 1.88	37.08 ± 1.38	36.38 ± 1.25	39.06 ± 1.84	40.67 ± 2.06	n = 10	Ortho Clinical Diagnostics
25.00 ± 1.82	46.88 ± 2.39	36.65 ± 2.16	48.45 ± 3.45	38.58 ± 2.44	n = 26	Roche Elecsys/Modular E/e601/e411
31.76 ± 1.62	39.44 ± 2.04	37.72 ± 1.89	41.73 ± 2.14	41.00 ± 2.12	n = 27	Siemens ADVIA Centaur
26.81 ± 1.89	32.80 ± 1.42	30.45 ± 1.84	33.34 ± 1.51	31.66 ± 2.06	n = 11	Siemens Dimension EXL
31.57 ± 5.56	42.68 ± 7.51	37.38 ± 4.61	43.98 ± 7.53	39.95 ± 5.30	n = 8	Siemens Immulite 1000
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T Uptake (Unit)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
1.091 ± 0.167	0.895 ± 0.076	0.982 ± 0.034	0.847 ± 0.047	0.853 ± 0.163	n = 19	All Methods & Instruments
1.140	0.920	0.970	0.860	0.800	n = 19	Median value, All Methods & Instruments
0.923 ± 0.045	0.844 ± 0.074	1.026 ± 0.051	0.842 ± 0.048	1.004 ± 0.053	n = 5	<Instruments>
1.225 ± 0.016	0.939 ± 0.019	0.988 ± 0.018	0.875 ± 0.008	0.794 ± 0.017	n = 5	Abbott Architect i System
1.195 ± 0.044	0.883 ± 0.059	0.927 ± 0.070	0.807 ± 0.057	0.736 ± 0.095	n = 4	Roche cobas e601
1.129 ± 0.148	0.887 ± 0.043	0.982 ± 0.045	0.841 ± 0.031	0.834 ± 0.126	n = 3	Roche MODULAR E
0.923 ± 0.045	0.844 ± 0.074	1.026 ± 0.051	0.842 ± 0.048	1.004 ± 0.053	n = 5	Mean of Above Means
1.209 ± 0.035	0.929 ± 0.022	0.972 ± 0.021	0.860 ± 0.026	0.789 ± 0.023	n = 11	<Reagents>
1.066 ± 0.163	0.887 ± 0.048	0.999 ± 0.031	0.851 ± 0.010	0.896 ± 0.123	n = 2	Abbott
						Roche Elecsys/Modular E/e601/e411
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Triiodothyronine (T3, ng/dL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
47.6 ± 11.85	141.2 ± 19.43	167.0 ± 21.50	185.8 ± 26.32	190.6 ± 27.27	n = 180	All Methods & Instruments
51.0	143.0	170.6	190.0	194.0	n = 180	Median value, All Methods & Instruments
60.4 ± 4.84	124.3 ± 5.93	154.1 ± 7.62	160.7 ± 7.47	175.9 ± 10.85	n = 16	<Instruments>
54.7 ± 5.18	112.7 ± 3.62	129.2 ± 5.19	139.1 ± 4.91	144.3 ± 6.37	n = 13	Abbott Architect i System
57.6 ± 4.47	116.0 ± 4.56	129.4 ± 8.28	137.2 ± 9.83	139.3 ± 3.41	n = 4	Beckman Coulter ACCESS
56.2 ± 3.98	112.8 ± 8.44	130.2 ± 5.03	141.6 ± 9.02	143.4 ± 8.28	n = 15	Beckman Coulter UniCel DxI 600
126.7 ± 2.91	155.4 ± 4.47	168.8 ± 5.96	193.3 ± 5.62	186.6 ± 4.74	n = 12	Beckman Coulter UniCel DxI 800
53.8 ± 3.42	158.2 ± 5.45	177.9 ± 5.68	200.0 ± 7.72	197.7 ± 6.08	n = 12	Ortho Vitros 5600
56.6 ± 4.19	166.7 ± 2.81	184.7 ± 12.25	204.0 ± 6.07	205.4 ± 8.99	n = 5	Roche cobas e601
53.8 ± 5.33	159.6 ± 7.52	178.0 ± 7.68	198.7 ± 11.15	200.0 ± 10.85	n = 11	Roche cobas e602
36.9 ± 5.26	143.4 ± 10.93	176.7 ± 11.80	195.3 ± 12.52	206.4 ± 14.09	n = 70	Roche MODULAR E
46.4 ± 5.63	143.7 ± 12.93	159.1 ± 15.14	198.8 ± 19.69	179.4 ± 18.60	n = 7	Siemens ADVIA Centaur
82.5 ± 9.73	134.9 ± 6.78	141.7 ± 5.38	170.3 ± 6.84	158.1 ± 9.45	n = 4	Siemens Immulite 2000
55.4 ± 3.54	139.2 ± 21.02	157.9 ± 22.80	178.1 ± 28.50	177.0 ± 27.12	n = 11	Tosoh Bioscience
						Mean of Above Means
60.4 ± 4.84	124.3 ± 5.93	154.1 ± 7.62	160.7 ± 7.47	175.9 ± 10.85	n = 16	<Reagents>
55.8 ± 4.85	113.4 ± 5.84	129.7 ± 5.58	140.0 ± 7.75	143.1 ± 7.11	n = 32	Abbott
127.2 ± 3.33	156.2 ± 4.56	169.8 ± 6.39	194.5 ± 6.69	189.9 ± 10.17	n = 14	Beckman Coulter
53.8 ± 4.54	160.3 ± 6.93	178.4 ± 7.44	200.7 ± 9.15	199.3 ± 8.98	n = 32	Ortho Clinical Diagnostics
36.9 ± 5.19	143.6 ± 11.09	176.9 ± 11.97	195.8 ± 12.98	206.6 ± 14.13	n = 72	Roche Elecsys/Modular E/e601/e411
44.3 ± 4.91	144.2 ± 11.51	163.9 ± 16.91	193.6 ± 19.50	180.6 ± 18.68	n = 8	Siemens ADVIA/ADVIS Centaur
50.8 ± 9.18	141.4 ± 17.94	164.9 ± 16.03	184.2 ± 23.17	185.3 ± 19.98	n = 6	Siemens Immulite
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T-3 (pg/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
1.59 ± 0.26	4.53 ± 0.74	4.34 ± 0.64	6.01 ± 1.22	5.17 ± 0.76	n = 144	All Methods & Instruments
1.60	4.60	4.30	5.98	5.20	n = 144	Median value, All Methods & Instruments
						<Instruments>
1.80 ± 0.19	4.15 ± 0.14	4.17 ± 0.15	5.47 ± 0.25	5.13 ± 0.25	n = 12	Abbott Architect i System
1.53 ± 0.08	4.00 ± 0.14	3.82 ± 0.15	5.15 ± 0.15	4.59 ± 0.19	n = 9	Beckman Coulter ACCESS
1.53 ± 0.27	3.77 ± 0.34	3.71 ± 0.32	5.10 ± 0.35	4.38 ± 0.35	n = 5	Beckman Coulter UniCel DxI 600
1.49 ± 0.19	3.75 ± 0.35	3.62 ± 0.41	4.92 ± 0.47	4.41 ± 0.37	n = 12	Beckman Coulter UniCel DxI 800
1.56 ± 0.09	9.22 ± 0.64	6.24 ± 0.45	12.57 ± 0.56	7.79 ± 0.20	n = 6	Ortho Vitros 5600
1.74 ± 0.14	6.04 ± 0.06	5.47 ± 0.25	8.18 ± 0.11	6.72 ± 0.19	n = 6	Roche cobas e601
1.77 ± 0.09	6.10 ± 0.00	5.52 ± 0.10	8.25 ± 0.12	6.67 ± 0.08	n = 4	Roche cobas e602
1.86 ± 0.17	6.25 ± 0.42	5.61 ± 0.33	8.29 ± 0.47	6.87 ± 0.50	n = 8	Roche MODULAR E
1.62 ± 0.08	4.63 ± 0.14	4.43 ± 0.12	5.95 ± 0.20	5.22 ± 0.14	n = 45	Siemens ADVIA Centaur
0.99 ± 0.07	4.85 ± 0.20	3.87 ± 0.18	7.00 ± 0.20	5.06 ± 0.18	n = 18	Siemens Dimension Vista
1.60 ± 0.15	3.73 ± 0.30	4.23 ± 0.25	4.55 ± 0.19	4.53 ± 0.40	n = 11	Siemens Immulite 2000
1.64 ± 0.15	4.77 ± 1.27	4.54 ± 0.95	6.39 ± 1.90	5.48 ± 1.23	n = 11	Mean of Above Means
						<Reagents>
1.80 ± 0.19	4.15 ± 0.14	4.17 ± 0.15	5.47 ± 0.25	5.13 ± 0.25	n = 12	Abbott
1.50 ± 0.18	3.86 ± 0.31	3.75 ± 0.31	5.07 ± 0.32	4.48 ± 0.32	n = 26	Beckman Coulter
1.53 ± 0.11	9.17 ± 0.59	6.13 ± 0.51	12.42 ± 0.63	7.75 ± 0.21	n = 7	Ortho Clinical Diagnostics
1.79 ± 0.13	6.13 ± 0.24	5.51 ± 0.23	8.24 ± 0.28	6.72 ± 0.27	n = 20	Roche Elecsys/Modular E/e601/e411
1.61 ± 0.08	4.62 ± 0.15	4.43 ± 0.12	5.93 ± 0.20	5.21 ± 0.14	n = 45	Siemens ADVIA/ADVIS Centaur
1.21 ± 0.35	4.97 ± 0.27	4.21 ± 0.34	6.94 ± 0.59	5.26 ± 0.25	n = 3	Siemens Dimension
0.98 ± 0.08	4.84 ± 0.21	3.87 ± 0.20	7.00 ± 0.20	5.07 ± 0.19	n = 17	Siemens Dimension LOCI
1.67 ± 0.27	3.77 ± 0.37	4.24 ± 0.24	4.58 ± 0.21	4.59 ± 0.46	n = 12	Siemens Immulite
1.55 ± 0.27	4.54 ± 0.76	4.39 ± 0.74	6.23 ± 1.51	5.31 ± 0.96	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Thyrotropin (TSH, $\mu\text{U}/\text{mL}$)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
1.31 ± 0.17	2.07 ± 0.25	5.80 ± 0.60	2.93 ± 0.33	4.97 ± 0.51	n = 295	All Methods & Instruments
1.30	2.10	5.79	2.92	5.00	n = 295	Median value, All Methods & Instruments
<Instruments>						
1.41 ± 0.05	1.98 ± 0.10	5.09 ± 0.19	2.74 ± 0.16	4.33 ± 0.29	n = 22	Abbott Architect i System
1.06 ± 0.05	1.75 ± 0.11	5.39 ± 0.31	2.55 ± 0.12	4.63 ± 0.21	n = 27	Beckman Coulter ACCESS
1.06 ± 0.07	1.70 ± 0.06	5.61 ± 0.42	2.51 ± 0.16	4.58 ± 0.26	n = 6	Beckman Coulter UniCel DxI 600
1.06 ± 0.08	1.76 ± 0.12	5.33 ± 0.40	2.48 ± 0.14	4.54 ± 0.22	n = 14	Beckman Coulter UniCel DxI 800
1.53 ± 0.08	2.37 ± 0.08	7.20 ± 0.25	3.51 ± 0.14	6.14 ± 0.23	n = 18	Ortho Vitros 5600
1.50 ± 0.00	2.40 ± 0.01	7.17 ± 0.05	3.48 ± 0.10	6.11 ± 0.15	n = 5	Ortho Vitros ECi/ECiQ
1.48 ± 0.04	2.21 ± 0.08	5.98 ± 0.10	3.09 ± 0.13	5.14 ± 0.20	n = 8	Roche cobas e411
1.45 ± 0.04	2.17 ± 0.06	5.73 ± 0.11	2.98 ± 0.08	4.98 ± 0.11	n = 20	Roche cobas e601
1.46 ± 0.05	2.17 ± 0.07	5.77 ± 0.15	3.01 ± 0.10	5.06 ± 0.16	n = 7	Roche cobas e602
1.50 ± 0.00	2.27 ± 0.03	6.10 ± 0.08	3.13 ± 0.04	5.21 ± 0.06	n = 4	Roche Elecsys
1.50 ± 0.01	2.18 ± 0.05	5.77 ± 0.09	3.02 ± 0.04	5.00 ± 0.08	n = 13	Roche MODULAR E
1.25 ± 0.06	2.00 ± 0.08	5.78 ± 0.30	2.88 ± 0.09	4.94 ± 0.24	n = 59	Siemens ADVIA Centaur
1.31 ± 0.07	2.40 ± 0.11	6.43 ± 0.26	3.36 ± 0.13	5.58 ± 0.30	n = 19	Siemens Dimension EXL
1.15 ± 0.12	1.82 ± 0.10	5.04 ± 0.32	2.56 ± 0.16	4.16 ± 0.31	n = 4	Siemens Dimension RxL
1.23 ± 0.05	2.27 ± 0.13	6.20 ± 0.21	3.16 ± 0.16	5.28 ± 0.14	n = 38	Siemens Dimension Vista
1.22 ± 0.09	1.87 ± 0.15	5.13 ± 0.35	2.69 ± 0.17	4.31 ± 0.24	n = 4	Siemens Dimension Xpand
1.50 ± 0.15	2.04 ± 0.14	5.75 ± 0.12	3.01 ± 0.18	5.00 ± 0.25	n = 5	Siemens Immulite 1000
1.39 ± 0.04	1.82 ± 0.15	5.21 ± 0.18	2.58 ± 0.14	4.49 ± 0.25	n = 15	Siemens Immulite 2000
1.51 ± 0.14	2.35 ± 0.13	6.67 ± 0.34	3.29 ± 0.14	5.61 ± 0.26	n = 4	Tosoh Bioscience
1.36 ± 0.18	2.09 ± 0.25	5.79 ± 0.62	2.95 ± 0.35	4.97 ± 0.56	n = 19	Mean of Above Means
<Reagents>						
1.41 ± 0.05	1.98 ± 0.10	5.09 ± 0.19	2.74 ± 0.16	4.33 ± 0.29	n = 22	Abbott
1.06 ± 0.06	1.75 ± 0.11	5.40 ± 0.36	2.52 ± 0.13	4.60 ± 0.23	n = 47	Beckman Coulter
1.52 ± 0.07	2.38 ± 0.07	7.20 ± 0.21	3.50 ± 0.13	6.13 ± 0.21	n = 23	Ortho Clinical Diagnostics
1.47 ± 0.04	2.19 ± 0.06	5.80 ± 0.17	3.02 ± 0.09	5.03 ± 0.14	n = 52	Roche Elecsys/Modular E/e601/e411
1.24 ± 0.05	1.99 ± 0.08	5.83 ± 0.35	2.86 ± 0.08	4.98 ± 0.27	n = 34	Siemens ADVIA/ADVIS Centaur
1.20 ± 0.10	1.88 ± 0.15	5.15 ± 0.40	2.66 ± 0.22	4.29 ± 0.38	n = 9	Siemens Dimension
1.26 ± 0.06	2.32 ± 0.13	6.28 ± 0.25	3.23 ± 0.17	5.36 ± 0.24	n = 56	Siemens Dimension LOCI
1.40 ± 0.08	1.88 ± 0.19	5.36 ± 0.36	2.69 ± 0.25	4.63 ± 0.36	n = 20	Siemens Immulite
1.27 ± 0.05	2.02 ± 0.09	5.73 ± 0.23	2.91 ± 0.10	4.88 ± 0.17	n = 26	Siemens TSH-3
1.32 ± 0.15	2.03 ± 0.21	5.64 ± 0.53	2.87 ± 0.29	4.83 ± 0.49	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Vitamin B12 (pg/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
156.4 ± 63.09	368.5 ± 53.76	436.6 ± 57.69	366.2 ± 51.17	444.8 ± 55.09	n = 228	All Methods & Instruments
159.0	371.0	436.0	366.0	446.0	n = 228	Median value, All Methods & Instruments
323.3 ± 14.70	407.1 ± 23.85	486.4 ± 32.18	402.7 ± 22.73	490.5 ± 34.03	n = 13	<Instruments>
76.1 ± 17.36	345.2 ± 28.32	415.0 ± 25.65	340.7 ± 20.78	415.6 ± 27.03	n = 21	Abbott Architect i System
48.9 ± 17.97	323.6 ± 26.01	389.2 ± 34.09	322.1 ± 18.05	413.9 ± 27.48	n = 6	Beckman Coulter ACCESS
60.1 ± 12.72	306.8 ± 23.15	375.5 ± 29.22	315.2 ± 25.10	389.4 ± 33.57	n = 17	Beckman Coulter UniCel DxI 600
162.2 ± 5.14	362.7 ± 11.92	436.0 ± 11.21	362.2 ± 9.50	439.2 ± 17.19	n = 14	Beckman Coulter UniCel DxI 800
167.5 ± 12.14	390.0 ± 12.87	480.2 ± 25.52	390.4 ± 12.98	473.9 ± 24.91	n = 6	Ortho Vitros 5600
203.6 ± 8.39	371.5 ± 32.63	464.8 ± 30.64	391.1 ± 26.48	469.1 ± 20.08	n = 4	Ortho Vitros ECi/ECiQ
210.2 ± 12.50	418.2 ± 13.03	482.2 ± 14.30	412.6 ± 11.26	493.7 ± 19.69	n = 17	Roche cobas e411
208.0 ± 12.42	416.3 ± 17.59	481.4 ± 19.61	416.8 ± 10.85	493.2 ± 21.43	n = 4	Roche cobas e601
206.2 ± 17.35	419.0 ± 11.58	482.0 ± 11.05	413.0 ± 10.46	490.4 ± 8.35	n = 11	Roche cobas e602
157.2 ± 29.14	372.4 ± 34.68	431.5 ± 38.58	369.0 ± 35.03	441.6 ± 37.62	n = 70	Roche MODULAR E
142.4 ± 13.78	395.0 ± 27.76	452.7 ± 44.59	376.8 ± 30.76	463.3 ± 53.68	n = 5	Siemens ADVIA Centaur
163.1 ± 17.47	258.0 ± 16.92	349.8 ± 17.73	258.9 ± 23.03	352.7 ± 23.46	n = 22	Siemens ADVIA Centaur CP
345.2 ± 38.28	406.4 ± 37.21	486.4 ± 72.87	404.5 ± 44.05	510.6 ± 51.64	n = 4	Siemens Dimension Vista
167.1 ± 19.38	396.2 ± 40.92	502.7 ± 39.12	373.3 ± 33.72	485.2 ± 26.06	n = 9	Siemens Immulite 1000
72.2 ± 9.58	426.7 ± 9.23	546.2 ± 19.85	443.0 ± 21.37	530.4 ± 12.67	n = 4	Siemens Immulite 2000
163.8 ± 79.50	384.2 ± 41.21	457.6 ± 50.21	380.7 ± 41.81	464.4 ± 45.74	n = 16	Tosoh Bioscience
						Mean of Above Means
323.3 ± 14.70	407.1 ± 23.85	486.4 ± 32.18	402.7 ± 22.73	490.5 ± 34.03	n = 13	<Reagents>
65.7 ± 19.67	326.5 ± 31.76	396.1 ± 34.16	328.9 ± 24.99	406.4 ± 32.22	n = 44	Abbott
162.7 ± 5.74	369.3 ± 17.60	443.6 ± 26.30	368.8 ± 16.41	446.9 ± 24.36	n = 20	Beckman Coulter
208.7 ± 14.16	417.0 ± 15.51	481.4 ± 17.13	412.6 ± 12.98	490.0 ± 20.27	n = 37	Ortho Clinical Diagnostics
155.9 ± 28.40	374.0 ± 34.87	432.8 ± 39.38	369.6 ± 34.78	442.7 ± 38.76	n = 75	Roche Elecsys/Modular E/e601/e411
161.4 ± 17.47	256.7 ± 17.68	348.7 ± 18.77	259.9 ± 24.36	354.0 ± 25.09	n = 20	Siemens ADVIA/ADVIS Centaur
210.2 ± 85.81	399.4 ± 39.99	502.5 ± 44.71	382.9 ± 41.77	492.7 ± 37.56	n = 13	Siemens Dimension LOCI
72.2 ± 9.58	426.7 ± 9.23	546.2 ± 19.85	443.0 ± 21.37	530.4 ± 12.67	n = 4	Siemens Immulite
165.3 ± 76.69	382.4 ± 47.70	457.3 ± 61.37	378.1 ± 49.71	461.3 ± 54.06	n = 8	Tosoh AIA
						Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Folic Acid (ng/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
6.66 ± 1.85	4.90 ± 1.31	2.58 ± 0.90	7.14 ± 1.79	4.98 ± 0.83	n = 220	All Methods & Instruments
6.70	4.90	2.60	7.10	4.90	n = 220	Median value, All Methods & Instruments
<Instruments>						
6.67 ± 0.32	5.62 ± 0.42	2.81 ± 0.18	8.52 ± 0.66	5.30 ± 0.32	n = 13	Abbott Architect i System
6.31 ± 0.44	5.60 ± 0.50	2.75 ± 0.15	8.53 ± 0.81	5.23 ± 0.34	n = 21	Beckman Coulter ACCESS
6.39 ± 0.56	5.83 ± 0.61	2.91 ± 0.40	8.83 ± 0.85	5.36 ± 0.59	n = 5	Beckman Coulter UniCel DxI 600
6.54 ± 0.31	6.01 ± 0.35	2.85 ± 0.16	8.89 ± 0.55	5.34 ± 0.27	n = 17	Beckman Coulter UniCel DxI 800
4.99 ± 0.34	4.56 ± 0.44	2.37 ± 0.19	7.16 ± 0.56	4.24 ± 0.43	n = 14	Ortho Vitros 5600
4.75 ± 0.61	4.45 ± 0.67	2.29 ± 0.32	7.18 ± 1.16	4.16 ± 0.40	n = 5	Ortho Vitros ECi/ECiQ
6.88 ± 0.41	4.94 ± 0.61	3.11 ± 0.37	6.94 ± 0.56	4.87 ± 0.59	n = 3	Roche cobas e411
7.29 ± 0.52	5.95 ± 0.53	4.05 ± 0.40	7.60 ± 0.80	5.72 ± 0.44	n = 17	Roche cobas e601
7.12 ± 0.32	6.03 ± 0.31	4.09 ± 0.52	7.87 ± 0.70	5.64 ± 0.10	n = 4	Roche cobas e602
7.30 ± 0.68	6.06 ± 0.48	3.96 ± 0.48	7.81 ± 0.70	5.78 ± 0.41	n = 10	Roche MODULAR E
8.43 ± 0.94	4.43 ± 0.47	2.35 ± 0.28	6.44 ± 0.66	4.69 ± 0.48	n = 64	Siemens ADVIA Centaur
14.23 ± 2.22	4.60 ± 0.36	2.70 ± 0.09	7.51 ± 0.66	6.04 ± 1.90	n = 3	Siemens ADVIA Centaur CP
3.61 ± 0.31	1.66 ± 0.23	0.65 ± 0.17	2.77 ± 0.27	1.74 ± 0.23	n = 29	Siemens Dimension Vista
5.93 ± 0.54	4.99 ± 0.64	2.56 ± 0.22	7.13 ± 0.65	4.83 ± 0.44	n = 10	Siemens Immulite 2000
5.31 ± 1.15	6.19 ± 0.59	3.96 ± 0.70	7.89 ± 1.04	6.01 ± 0.86	n = 4	Tosoh Bioscience
6.34 ± 1.20	5.39 ± 0.75	2.95 ± 0.79	7.72 ± 0.77	5.26 ± 0.62	n = 15	Mean of Above Means
<Reagents>						
6.67 ± 0.32	5.62 ± 0.42	2.81 ± 0.18	8.52 ± 0.66	5.30 ± 0.32	n = 13	Abbott
6.43 ± 0.42	5.80 ± 0.49	2.80 ± 0.20	8.73 ± 0.71	5.30 ± 0.34	n = 43	Beckman Coulter
4.97 ± 0.34	4.54 ± 0.50	2.36 ± 0.21	7.21 ± 0.64	4.22 ± 0.42	n = 19	Ortho Clinical Diagnostics
7.21 ± 0.53	5.90 ± 0.61	3.94 ± 0.53	7.60 ± 0.83	5.66 ± 0.47	n = 35	Roche Elecsys/Modular E/e601/e411
8.45 ± 0.99	4.44 ± 0.47	2.37 ± 0.29	6.48 ± 0.69	4.70 ± 0.47	n = 67	Siemens ADVIA/ADVISIA Centaur
3.62 ± 0.31	1.67 ± 0.22	0.65 ± 0.18	2.78 ± 0.28	1.74 ± 0.24	n = 28	Siemens Dimension LOCI
5.93 ± 0.54	4.99 ± 0.64	2.56 ± 0.22	7.13 ± 0.65	4.83 ± 0.44	n = 10	Siemens Immulite
5.31 ± 1.15	6.19 ± 0.59	3.96 ± 0.70	7.89 ± 1.04	6.01 ± 0.86	n = 4	Tosoh AIA
6.09 ± 1.42	5.35 ± 0.78	2.76 ± 0.93	7.64 ± 0.81	5.14 ± 0.63	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
3.04 ± 0.54	12.04 ± 1.55	25.21 ± 2.95	16.62 ± 2.18	26.13 ± 2.91	n = 155	All Methods & Instruments
3.10	12.20	25.30	16.60	26.30	n = 155	Median value, All Methods & Instruments
						<Instruments>
3.71 ± 0.21	10.70 ± 0.33	21.47 ± 0.47	14.16 ± 0.67	22.31 ± 1.16	n = 10	Abbott Architect i System
3.12 ± 0.14	12.24 ± 0.26	25.03 ± 1.06	16.79 ± 1.36	25.70 ± 1.15	n = 7	Beckman Coulter ACCESS
3.01 ± 0.38	12.08 ± 0.88	23.00 ± 1.73	15.97 ± 0.72	23.65 ± 1.48	n = 6	Beckman Coulter UniCel DxI 600
3.13 ± 0.28	11.73 ± 0.71	22.82 ± 0.96	16.17 ± 0.54	23.56 ± 0.69	n = 14	Beckman Coulter UniCel DxI 800
3.53 ± 0.42	11.73 ± 1.33	25.47 ± 2.96	16.01 ± 2.01	26.43 ± 3.35	n = 4	LC/MS/MS
2.10 ± 0.12	9.43 ± 0.58	19.62 ± 0.67	12.73 ± 0.60	20.10 ± 0.67	n = 9	Ortho Vitros 5600
2.33 ± 0.12	10.42 ± 0.57	25.01 ± 1.59	14.75 ± 0.71	26.38 ± 1.47	n = 11	Roche cobas e601
2.45 ± 0.19	10.95 ± 0.19	25.92 ± 0.51	15.50 ± 0.09	26.93 ± 0.76	n = 3	Roche cobas e602
2.43 ± 0.09	10.81 ± 0.31	25.57 ± 0.70	15.23 ± 0.32	26.42 ± 0.54	n = 8	Roche MODULAR E
3.24 ± 0.31	12.89 ± 0.78	27.06 ± 1.99	18.04 ± 1.05	28.01 ± 1.69	n = 55	Siemens ADVIA Centaur
3.37 ± 0.13	13.64 ± 0.44	27.77 ± 1.02	18.30 ± 0.55	28.98 ± 0.76	n = 3	Siemens ADVIA Centaur CP
3.09 ± 0.30	13.82 ± 1.25	25.99 ± 2.73	18.75 ± 1.42	26.70 ± 2.36	n = 14	Siemens Immulite 2000
2.98 ± 0.53	11.68 ± 1.33	24.82 ± 2.27	16.04 ± 1.75	25.70 ± 2.42	n = 12	Mean of Above Means
						<Reagents>
3.71 ± 0.21	10.70 ± 0.33	21.47 ± 0.47	14.16 ± 0.67	22.31 ± 1.16	n = 10	Abbott
3.09 ± 0.29	11.90 ± 0.75	23.33 ± 1.53	16.21 ± 0.85	24.07 ± 1.31	n = 27	Beckman Coulter
3.43 ± 0.39	11.32 ± 1.41	24.66 ± 2.97	15.40 ± 2.13	25.58 ± 3.34	n = 5	In-House
2.12 ± 0.14	9.37 ± 0.53	19.64 ± 0.52	12.81 ± 0.53	20.11 ± 0.90	n = 11	Ortho Clinical Diagnostics
2.36 ± 0.13	10.66 ± 0.51	25.43 ± 1.09	15.06 ± 0.58	26.41 ± 0.78	n = 26	Roche Elecsys/Modular E/e601/e411
3.25 ± 0.30	12.94 ± 0.80	27.11 ± 1.96	18.05 ± 1.02	28.08 ± 1.67	n = 58	Siemens ADVIA/ADVIS Centaur
3.09 ± 0.28	13.83 ± 1.22	26.35 ± 2.70	19.13 ± 1.81	27.07 ± 2.52	n = 16	Siemens Immulite
3.05 ± 0.56	11.49 ± 1.47	24.18 ± 2.65	15.75 ± 2.15	25.02 ± 2.76	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Insulin ($\mu\text{U/mL}$)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
328.28 \pm 60.08	43.42 \pm 13.57	256.20 \pm 56.27	111.23 \pm 41.67	385.56 \pm 94.97	n = 98	All Methods & Instruments
300.00	44.00	252.90	106.80	378.70	n = 98	Median value, All Methods & Instruments
301.38 \pm 21.70	37.12 \pm 1.17	221.55 \pm 6.05	94.39 \pm 3.13	379.56 \pm 6.49	n = 7	<Instruments>
298.46 \pm 1.78	35.28 \pm 1.22	238.32 \pm 11.62	90.90 \pm 2.76	321.62 \pm 24.76	n = 4	Abbott Architect i System
287.71 \pm 11.74	36.17 \pm 0.81	234.35 \pm 13.88	91.66 \pm 4.69	345.90 \pm 22.78	n = 4	Beckman Coulter ACCESS
283.39 \pm 18.29	35.09 \pm 1.32	229.27 \pm 13.41	89.14 \pm 2.84	338.12 \pm 43.29	n = 12	Beckman Coulter UniCel DxI 600
356.02 \pm 16.94	50.01 \pm 2.87	273.85 \pm 13.09	125.50 \pm 6.61	434.45 \pm 20.56	n = 8	Beckman Coulter UniCel DxI 800
372.74 \pm 10.14	52.45 \pm 1.12	283.26 \pm 4.53	129.58 \pm 3.53	445.97 \pm 9.48	n = 5	Roche cobas e601
350.30 \pm 16.21	49.89 \pm 1.61	267.68 \pm 13.92	122.34 \pm 6.09	421.97 \pm 20.85	n = 7	Roche cobas e602
414.11 \pm 52.26	58.83 \pm 2.59	339.14 \pm 35.86	170.99 \pm 6.92	509.19 \pm 88.72	n = 21	Roche MODULAR E
293.23 \pm 9.60	27.83 \pm 1.04	212.08 \pm 8.93	63.65 \pm 3.11	288.51 \pm 20.99	n = 3	Siemens ADVIA Centaur
284.19 \pm 17.87	26.78 \pm 2.31	191.42 \pm 16.62	62.27 \pm 6.23	297.54 \pm 6.06	n = 18	Siemens Immulite 1000
335.13 \pm 12.62	48.85 \pm 0.81	269.71 \pm 8.42	122.35 \pm 5.36	400.71 \pm 62.08	n = 3	Siemens Immulite 2000
320.54 \pm 42.64	41.53 \pm 11.15	247.42 \pm 38.10	103.92 \pm 30.86	377.69 \pm 69.70	n = 11	Tosoh Bioscience
						Mean of Above Means
301.38 \pm 21.70	37.12 \pm 1.17	221.55 \pm 6.05	94.39 \pm 3.13	379.56 \pm 6.49	n = 7	<Reagents>
288.06 \pm 15.78	35.34 \pm 1.29	232.21 \pm 13.51	89.81 \pm 3.40	334.62 \pm 36.66	n = 20	Abbott
363.33 \pm 20.52	51.21 \pm 2.74	278.38 \pm 15.36	126.92 \pm 7.24	439.47 \pm 25.56	n = 24	Beckman Coulter
417.18 \pm 49.75	59.09 \pm 2.87	340.75 \pm 35.54	171.44 \pm 7.06	514.61 \pm 82.01	n = 22	Roche Elecsys/Modular E/e601/e411
282.63 \pm 28.07	27.86 \pm 2.62	198.85 \pm 30.14	65.06 \pm 9.08	296.22 \pm 6.91	n = 6	Siemens ADVIA/ADVIS Centaur
285.15 \pm 13.21	26.68 \pm 2.00	194.87 \pm 14.59	62.14 \pm 4.79	300.00 \pm 0.00	n = 15	Siemens Immulite-Insulin lot# > 400
335.13 \pm 12.62	48.85 \pm 0.81	269.71 \pm 8.42	122.35 \pm 5.36	400.71 \pm 62.08	n = 3	Tosoh ST AIA
317.90 \pm 46.89	40.53 \pm 12.54	243.00 \pm 49.13	101.79 \pm 37.16	375.44 \pm 76.89	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free Estriol (ng/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
0.34 ± 0.06	0.10 ± 0.00	0.10 ± 0.00	0.77 ± 0.14	1.64 ± 0.17	n = 15	All Methods & Instruments
0.36	0.10	0.10	0.70	1.60	n = 15	Median value, All Methods & Instruments
						<Instruments>
0.35 ± 0.05	0.09 ± 0.03	0.08 ± 0.04	0.68 ± 0.03	1.49 ± 0.11	n = 3	Beckman Coulter UniCel DxI 800
0.30 ± 0.07	0.12 ± 0.09	0.12 ± 0.09	0.94 ± 0.08	1.80 ± 0.08	n = 4	Siemens Immulite 2000
0.33 ± 0.03	0.10 ± 0.02	0.10 ± 0.03	0.81 ± 0.14	1.64 ± 0.18	n = 2	Mean of Above Means
						<Reagents>
0.37 ± 0.05	0.10 ± 0.00	0.10 ± 0.00	0.70 ± 0.00	1.57 ± 0.12	n = 7	Beckman Coulter
1.10 ± 0.30	0.08 ± 0.05	0.14 ± 0.12	1.52 ± 0.66	3.62 ± 2.01	n = 3	In-House
0.30 ± 0.06	0.09 ± 0.02	0.09 ± 0.02	0.93 ± 0.07	1.76 ± 0.14	n = 5	Siemens Immulite
0.55 ± 0.39	0.09 ± 0.01	0.11 ± 0.03	1.02 ± 0.38	2.22 ± 1.00	n = 3	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Estradiol (pg/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
29.6 ± 10.50	97.9 ± 12.94	142.6 ± 17.75	48.2 ± 18.51	65.5 ± 21.60	n = 166	All Methods & Instruments
29.0	98.0	143.2	51.0	61.0	n = 166	Median value, All Methods & Instruments
<Instruments>						
42.4 ± 4.53	97.1 ± 5.51	140.1 ± 5.88	59.7 ± 4.33	59.6 ± 3.51	n = 11	Abbott Architect i System
20.6 ± 4.89	102.3 ± 24.16	134.4 ± 14.70	37.8 ± 8.30	51.7 ± 9.24	n = 7	Beckman Coulter ACCESS
22.0 ± 4.43	105.8 ± 7.91	147.2 ± 18.50	45.5 ± 9.02	48.8 ± 12.76	n = 4	Beckman Coulter UniCel DxI 600
25.4 ± 8.39	128.6 ± 18.84	150.0 ± 18.21	51.0 ± 10.84	61.8 ± 12.31	n = 9	Beckman Coulter UniCel DxI 800
29.2 ± 3.18	92.1 ± 14.43	158.6 ± 29.37	31.2 ± 8.10	48.6 ± 4.16	n = 4	LC/MS/MS
10.2 ± 2.19	78.4 ± 7.97	93.2 ± 4.84	53.4 ± 7.08	66.6 ± 5.79	n = 6	Ortho Vitros 5600
37.2 ± 3.92	100.5 ± 6.28	151.2 ± 3.92	57.3 ± 4.80	73.9 ± 3.87	n = 7	Roche cobas e411
40.0 ± 3.46	104.0 ± 4.97	149.8 ± 4.05	61.5 ± 3.44	78.4 ± 3.68	n = 13	Roche cobas e601
41.2 ± 4.97	108.4 ± 3.49	158.6 ± 6.78	63.5 ± 3.03	82.1 ± 2.72	n = 4	Roche cobas e602
41.9 ± 4.98	108.2 ± 7.04	156.8 ± 9.37	63.3 ± 6.44	82.9 ± 6.89	n = 7	Roche MODULAR E
27.9 ± 6.41	94.3 ± 7.83	144.1 ± 8.37	33.3 ± 6.28	53.2 ± 6.10	n = 48	Siemens ADVIA Centaur
35.4 ± 13.91	109.7 ± 11.25	176.1 ± 14.22	36.4 ± 12.50	64.0 ± 17.19	n = 4	Siemens ADVIA Centaur CP
19.8 ± 5.87	44.6 ± 5.89	101.4 ± 8.21	11.0 ± 0.00	17.7 ± 5.76	n = 8	Siemens Dimension Vista
25.9 ± 5.50	98.5 ± 6.63	133.3 ± 17.39	52.3 ± 2.60	91.5 ± 4.72	n = 6	Siemens Immulite 1000
24.1 ± 4.10	93.6 ± 11.19	137.8 ± 12.48	68.2 ± 10.07	98.4 ± 9.25	n = 20	Siemens Immulite 2000
29.7 ± 10.00	101.0 ± 9.40	146.1 ± 16.40	50.2 ± 14.83	66.3 ± 19.16	n = 15	Mean of Above Means
<Reagents>						
42.4 ± 4.53	97.1 ± 5.51	140.1 ± 5.88	59.7 ± 4.33	59.6 ± 3.51	n = 11	Abbott
22.8 ± 6.69	114.9 ± 23.17	143.0 ± 18.39	45.9 ± 12.42	56.4 ± 13.81	n = 21	Beckman Coulter
29.2 ± 3.18	92.1 ± 14.43	158.6 ± 29.37	31.2 ± 8.10	48.6 ± 4.16	n = 4	In-House
10.9 ± 3.20	80.1 ± 8.34	93.6 ± 9.18	54.9 ± 7.36	67.9 ± 6.00	n = 7	Ortho Clinical Diagnostics
40.0 ± 4.31	104.7 ± 5.99	152.0 ± 6.22	61.0 ± 4.75	78.8 ± 5.12	n = 33	Roche Elecsys/Modular E/e601/e411
27.8 ± 6.30	94.2 ± 8.22	145.2 ± 9.54	33.0 ± 6.00	52.9 ± 6.97	n = 42	Siemens ADVIA Centaur Enhanced Estr
29.3 ± 9.74	98.6 ± 8.30	142.4 ± 8.19	34.3 ± 9.21	54.2 ± 4.75	n = 10	Siemens ADVIA/ADVIS Centaur
20.5 ± 5.36	44.6 ± 5.47	103.7 ± 7.13	11.0 ± 0.00	18.6 ± 5.77	n = 6	Siemens Dimension LOCI
24.5 ± 4.53	95.0 ± 10.72	136.9 ± 13.50	65.2 ± 11.45	96.7 ± 8.84	n = 26	Siemens Immulite
27.4 ± 9.24	96.8 ± 9.42	139.1 ± 19.06	45.1 ± 17.81	59.5 ± 19.20	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Testosterone (ng/dL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
80.40 ± 28.14	340.67 ± 58.07	33.47 ± 15.39	264.41 ± 39.75	357.58 ± 74.45	n = 145	All Methods & Instruments
78.69	341.00	29.30	268.00	352.00	n = 145	Median value, All Methods & Instruments
110.34 ± 2.37	297.78 ± 10.37	22.11 ± 0.80	219.19 ± 10.06	388.61 ± 5.63	n = 3	<Instruments>
72.69 ± 5.18	283.00 ± 11.55	31.76 ± 4.82	225.00 ± 11.16	299.61 ± 13.14	n = 11	Abbott Architect i System
64.33 ± 4.50	261.75 ± 5.89	26.99 ± 3.27	206.90 ± 5.85	264.97 ± 5.76	n = 7	Beckman Coulter ACCESS
69.51 ± 6.90	268.23 ± 12.99	29.67 ± 3.80	213.59 ± 11.97	271.72 ± 16.52	n = 13	Beckman Coulter UniCel DxI 600
80.17 ± 5.35	297.24 ± 19.23	20.21 ± 1.66	230.56 ± 21.98	345.03 ± 28.13	n = 5	Beckman Coulter UniCel DxI 800
105.00 ± 10.57	313.55 ± 21.45	22.65 ± 1.99	243.64 ± 23.69	360.25 ± 31.34	n = 5	Gamma Counter
46.91 ± 1.02	413.21 ± 12.55	27.91 ± 0.40	324.47 ± 11.87	353.07 ± 5.00	n = 4	LC/MS/MS
77.91 ± 5.05	370.20 ± 8.03	28.54 ± 1.84	280.50 ± 11.04	453.77 ± 9.77	n = 9	Ortho Vitros 5600
75.64 ± 5.12	368.23 ± 8.83	27.12 ± 3.88	282.20 ± 13.11	445.40 ± 17.00	n = 5	Roche cobas e601
73.69 ± 6.44	359.23 ± 13.30	24.43 ± 3.75	275.33 ± 14.15	447.94 ± 17.39	n = 4	Roche cobas e602
80.08 ± 9.19	385.29 ± 24.92	29.14 ± 6.14	287.39 ± 20.00	458.25 ± 30.67	n = 9	Roche Elecsys
107.48 ± 9.46	369.80 ± 43.15	56.67 ± 9.67	287.30 ± 25.43	380.87 ± 43.38	n = 43	Siemens ADVIA Centaur
32.23 ± 8.63	319.25 ± 21.63	26.60 ± 5.77	256.64 ± 16.37	290.17 ± 27.79	n = 16	Tosoh Bioscience
41.40 ± 4.63	359.05 ± 9.06	19.12 ± 3.36	271.24 ± 7.69	309.10 ± 20.09	n = 4	Roche MODULAR E
74.35 ± 23.32	333.58 ± 49.80	26.08 ± 3.93	257.09 ± 35.92	360.89 ± 73.19	n = 14	Mean of Above Means
110.34 ± 2.37	297.78 ± 10.37	22.11 ± 0.80	219.19 ± 10.06	388.61 ± 5.63	n = 31	<Reagents>
69.65 ± 6.62	271.52 ± 14.25	29.57 ± 4.40	215.71 ± 12.67	281.61 ± 21.39	n = 6	Abbott
105.00 ± 10.62	313.61 ± 21.55	21.34 ± 3.29	243.85 ± 24.36	368.31 ± 33.24	n = 4	Beckman Coulter
46.91 ± 1.02	413.21 ± 12.55	27.91 ± 0.40	324.47 ± 11.87	353.07 ± 5.00	n = 29	In-House
77.47 ± 6.83	371.67 ± 17.46	27.63 ± 4.16	281.43 ± 14.72	452.48 ± 19.42	n = 44	Ortho Clinical Diagnostics
107.66 ± 9.39	371.70 ± 44.60	56.97 ± 9.74	288.33 ± 26.56	382.18 ± 43.67	n = 18	Roche Elecsys/Modular E/e601/e411
80.17 ± 5.35	297.24 ± 19.23	20.21 ± 1.66	230.56 ± 21.98	345.03 ± 28.13	n = 3	Siemens ADVIA/ADVISIA Centaur
32.59 ± 8.52	323.77 ± 32.74	26.88 ± 6.34	257.54 ± 15.99	294.39 ± 28.58	n = 5	Tosoh Coat-A-Count
43.16 ± 4.18	361.22 ± 9.94	20.58 ± 1.93	274.14 ± 7.02	316.34 ± 18.95	n = 9	Siemens Immulite
75.17 ± 30.32	334.28 ± 46.54	24.52 ± 4.02	257.74 ± 35.78	351.20 ± 50.66	n = 3	Tosoh ST AIA
					n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Progesterone (ng/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
8.67 ± 2.09	2.31 ± 0.27	12.34 ± 1.45	6.17 ± 0.60	17.71 ± 2.45	n = 160	All Methods & Instruments
8.40	2.30	12.60	6.19	18.20	n = 160	Median value, All Methods & Instruments
<Instruments>						
18.55 ± 1.52	2.41 ± 0.27	13.30 ± 1.22	6.57 ± 0.39	18.77 ± 1.18	n = 7	Abbott Architect i System
8.42 ± 1.06	2.57 ± 0.31	12.46 ± 0.60	6.60 ± 0.50	17.30 ± 1.22	n = 9	Beckman Coulter ACCESS
8.59 ± 0.63	2.76 ± 0.25	12.12 ± 1.10	7.13 ± 0.62	17.05 ± 1.27	n = 5	Beckman Coulter UniCel DxI 600
9.12 ± 1.15	2.83 ± 0.33	13.51 ± 1.62	7.26 ± 0.94	17.81 ± 1.03	n = 10	Beckman Coulter UniCel DxI 800
9.44 ± 1.66	2.09 ± 0.20	11.77 ± 1.50	6.13 ± 0.63	16.67 ± 1.55	n = 5	LC/MS/MS
5.29 ± 0.17	2.17 ± 0.07	9.01 ± 0.37	4.91 ± 0.15	12.68 ± 0.68	n = 6	Ortho Vitros 5600
12.20 ± 0.60	2.13 ± 0.12	13.30 ± 0.55	6.22 ± 0.38	19.33 ± 0.91	n = 6	Roche cobas e411
11.66 ± 0.41	2.07 ± 0.05	13.05 ± 0.31	6.15 ± 0.21	19.26 ± 0.36	n = 12	Roche cobas e601
11.32 ± 0.32	2.10 ± 0.10	12.81 ± 0.41	6.09 ± 0.18	19.09 ± 0.48	n = 5	Roche cobas e602
11.84 ± 0.55	2.12 ± 0.14	13.35 ± 0.73	6.29 ± 0.31	18.85 ± 0.07	n = 8	Roche MODULAR E
8.28 ± 0.58	2.30 ± 0.16	12.73 ± 0.72	6.14 ± 0.37	18.84 ± 1.25	n = 48	Siemens ADVIA Centaur
8.21 ± 0.53	2.31 ± 0.11	12.72 ± 0.74	6.27 ± 0.44	18.52 ± 0.68	n = 4	Siemens ADVIA Centaur CP
6.67 ± 0.55	2.35 ± 0.25	11.24 ± 0.93	5.58 ± 0.58	13.37 ± 1.10	n = 6	Siemens Immulite 1000
7.03 ± 0.46	2.45 ± 0.21	10.38 ± 0.47	5.87 ± 0.39	14.25 ± 1.08	n = 23	Siemens Immulite 2000
9.19 ± 2.46	2.30 ± 0.24	12.58 ± 0.99	6.24 ± 0.52	17.66 ± 2.10	n = 14	Mean of Above Means
<Reagents>						
18.55 ± 1.52	2.41 ± 0.27	13.30 ± 1.22	6.57 ± 0.39	18.77 ± 1.18	n = 7	Abbott
8.73 ± 1.07	2.72 ± 0.33	12.69 ± 1.23	6.97 ± 0.80	17.50 ± 1.22	n = 24	Beckman Coulter
8.92 ± 2.70	2.09 ± 0.20	11.58 ± 1.41	6.12 ± 0.63	16.39 ± 1.50	n = 6	In-House
5.35 ± 0.22	2.19 ± 0.09	9.11 ± 0.45	4.97 ± 0.19	12.83 ± 0.71	n = 7	Ortho Clinical Diagnostics
11.72 ± 0.53	2.09 ± 0.09	13.08 ± 0.48	6.18 ± 0.27	19.19 ± 0.57	n = 32	Roche Elecsys/Modular E/e601/e411
8.28 ± 0.58	2.30 ± 0.16	12.73 ± 0.72	6.15 ± 0.38	18.81 ± 1.20	n = 52	Siemens ADVIA/ADVIS Centaur
6.97 ± 0.50	2.43 ± 0.22	10.47 ± 0.67	5.85 ± 0.44	14.09 ± 1.15	n = 28	Siemens Immulite Progesterone (LKPW)
8.57 ± 2.71	2.30 ± 0.21	12.04 ± 1.48	6.17 ± 0.55	17.01 ± 2.47	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

17-hydroxyprogesterone (ng/dL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
18.16 ± 13.11 14.50	30.86 ± 17.88 24.90	106.11 ± 18.75 108.00	80.56 ± 14.27 76.90	71.44 ± 19.25 77.70	n = 10 n = 10	All Methods & Instruments Median value, All Methods & Instruments
19.28 ± 15.25	25.23 ± 14.35	111.82 ± 19.10	72.85 ± 5.85	68.14 ± 14.13	n = 6	<Instruments> LC/MS/MS
19.28 ± 15.25	25.23 ± 14.35	111.82 ± 19.10	72.85 ± 5.85	68.14 ± 14.13	n = 6	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone (DHEA, ng/dL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
41.1 ± 34.08	313.7 ± 182.08	264.8 ± 111.99	337.9 ± 192.41	315.7 ± 120.09	n = 8	All Methods & Instruments
30.0	270.0	219.0	300.0	300.0	n = 8	Median value, All Methods & Instruments
19.5 ± 13.65	285.7 ± 152.83	319.9 ± 180.84	295.9 ± 153.65	363.5 ± 198.83	n = 3	<Instruments>
59.4 ± 31.13	351.4 ± 214.00	240.8 ± 37.49	383.1 ± 220.53	294.9 ± 40.57	n = 5	Automated microplate processor
39.5 ± 22.77	318.6 ± 37.43	280.4 ± 45.10	339.5 ± 49.68	329.2 ± 39.16	n = 2	LC/MS/MS
48.1 ± 38.37	297.9 ± 221.10	228.2 ± 63.11	326.5 ± 233.10	278.0 ± 72.75	n = 6	Mean of Above Means
						<Reagents>
						In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone sulfate (DHEA-S, µg/dL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
36.25 ± 5.96	183.25 ± 16.10	156.68 ± 14.51	191.23 ± 18.80	184.49 ± 15.09	n = 83	All Methods & Instruments
36.00	182.00	157.30	188.00	184.00	n = 83	Median value, All Methods & Instruments
						<Instruments>
37.25 ± 1.64	169.67 ± 7.99	158.28 ± 4.05	176.36 ± 7.62	184.97 ± 4.31	n = 5	Abbott Architect i System
37.08 ± 2.05	171.86 ± 13.01	145.03 ± 9.66	176.91 ± 8.39	174.42 ± 11.91	n = 7	Beckman Coulter ACCESS
40.41 ± 2.61	178.67 ± 10.39	155.70 ± 6.35	187.08 ± 12.87	174.65 ± 10.33	n = 9	Beckman Coulter UniCel DxI 800
43.16 ± 1.22	197.10 ± 5.92	166.37 ± 8.66	204.52 ± 4.53	193.80 ± 7.74	n = 4	Roche cobas e601
43.38 ± 2.66	200.82 ± 8.13	173.37 ± 5.02	219.44 ± 6.65	199.95 ± 6.16	n = 3	Roche cobas e602
43.27 ± 2.89	199.87 ± 6.74	169.63 ± 5.46	206.71 ± 9.25	194.37 ± 5.00	n = 6	Roche MODULAR E
24.14 ± 2.57	113.01 ± 6.73	111.74 ± 4.12	121.64 ± 6.27	130.11 ± 1.36	n = 5	Siemens ADVIA Centaur
34.90 ± 3.70	187.22 ± 5.00	157.69 ± 5.09	188.40 ± 7.08	189.88 ± 11.54	n = 3	Siemens Immulite 1000
32.62 ± 3.55	184.63 ± 12.65	156.23 ± 12.79	194.83 ± 13.17	185.59 ± 10.49	n = 33	Siemens Immulite 2000
38.22 ± 5.61	186.23 ± 13.03	160.18 ± 9.40	192.77 ± 17.67	187.51 ± 9.37	n = 9	Mean of Above Means
						<Reagents>
37.25 ± 1.64	169.67 ± 7.99	158.28 ± 4.05	176.36 ± 7.62	184.97 ± 4.31	n = 5	Abbott
38.76 ± 3.26	174.26 ± 13.79	151.58 ± 10.92	181.80 ± 12.69	174.64 ± 12.33	n = 18	Beckman Coulter
42.73 ± 1.87	197.21 ± 8.71	168.28 ± 8.32	206.83 ± 11.28	194.32 ± 9.57	n = 15	Roche Elecsys/Modular E/e601/e411
24.14 ± 2.57	113.01 ± 6.73	111.74 ± 4.12	121.64 ± 6.27	130.11 ± 1.36	n = 5	Siemens ADVIA/ADVIS Centaur
32.80 ± 3.61	184.86 ± 11.93	156.26 ± 12.15	194.09 ± 12.64	185.93 ± 10.63	n = 36	Siemens Immulite
35.80 ± 6.53	174.08 ± 26.08	158.01 ± 6.40	181.64 ± 27.32	185.17 ± 7.44	n = 5	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Lutropin (LH, mIU/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
5.31 ± 1.01	13.59 ± 2.34	96.96 ± 11.81	5.40 ± 1.19	171.01 ± 19.07	n = 190	All Methods & Instruments
5.10	13.70	97.30	5.10	171.90	n = 190	Median value, All Methods & Instruments
<Instruments>						
4.84 ± 0.29	11.80 ± 0.31	81.86 ± 4.15	4.79 ± 0.28	139.69 ± 7.29	n = 12	Abbott Architect i System
4.21 ± 0.27	10.57 ± 0.33	85.13 ± 4.57	4.18 ± 0.30	151.34 ± 6.60	n = 11	Beckman Coulter ACCESS
4.12 ± 0.34	10.36 ± 0.60	84.73 ± 8.09	4.01 ± 0.28	145.34 ± 12.62	n = 5	Beckman Coulter UniCel DxI 600
4.03 ± 0.26	10.19 ± 0.50	80.57 ± 3.62	4.01 ± 0.25	148.55 ± 8.43	n = 15	Beckman Coulter UniCel DxI 800
5.48 ± 0.33	15.03 ± 0.45	120.35 ± 4.98	5.04 ± 0.31	200.00 ± 0.00	n = 11	Ortho Vitros 5600
6.37 ± 0.17	15.53 ± 0.35	98.76 ± 2.20	6.57 ± 0.14	179.51 ± 3.06	n = 6	Roche cobas e411
6.27 ± 0.19	15.15 ± 0.53	95.39 ± 3.32	6.38 ± 0.20	171.15 ± 6.66	n = 15	Roche cobas e601
6.28 ± 0.21	15.10 ± 0.46	97.32 ± 4.66	6.45 ± 0.23	173.97 ± 9.38	n = 5	Roche cobas e602
6.27 ± 0.05	15.22 ± 0.41	97.27 ± 2.40	6.45 ± 0.19	174.11 ± 4.45	n = 3	Roche Elecsys
6.32 ± 0.33	15.09 ± 0.69	96.85 ± 4.19	6.44 ± 0.27	171.56 ± 8.23	n = 7	Roche MODULAR E
4.74 ± 0.20	12.65 ± 0.70	100.14 ± 4.72	4.77 ± 0.24	176.89 ± 7.97	n = 53	Siemens ADVIA Centaur
4.87 ± 0.51	13.09 ± 1.10	97.10 ± 13.31	5.32 ± 0.24	177.43 ± 17.89	n = 3	Siemens ADVIA Centaur CP
6.45 ± 0.24	19.25 ± 0.49	124.56 ± 0.38	7.47 ± 0.23	150.00 ± 0.00	n = 10	Siemens Dimension Vista
6.58 ± 0.25	15.70 ± 0.09	103.90 ± 2.75	6.79 ± 0.24	200.00 ± 0.00	n = 5	Siemens Immulite 1000
6.34 ± 0.51	15.45 ± 1.08	98.66 ± 8.82	6.68 ± 0.54	179.85 ± 16.48	n = 22	Siemens Immulite 2000
5.36 ± 0.10	13.93 ± 0.14	97.25 ± 1.18	5.35 ± 0.19	170.36 ± 1.72	n = 3	Tosoh Bioscience
5.59 ± 0.99	14.04 ± 2.37	96.13 ± 10.44	5.70 ± 1.17	169.51 ± 18.18	n = 16	Mean of Above Means
<Reagents>						
4.84 ± 0.29	11.80 ± 0.31	81.86 ± 4.15	4.79 ± 0.28	139.69 ± 7.29	n = 12	Abbott
4.10 ± 0.29	10.38 ± 0.48	82.57 ± 5.15	4.06 ± 0.28	149.22 ± 8.92	n = 31	Beckman Coulter
5.45 ± 0.33	15.04 ± 0.37	120.20 ± 4.70	5.04 ± 0.26	200.00 ± 0.00	n = 12	Ortho Clinical Diagnostics
6.30 ± 0.20	15.22 ± 0.52	96.77 ± 3.63	6.45 ± 0.22	173.39 ± 7.42	n = 36	Roche Elecsys/Modular E/e601/e411
4.75 ± 0.21	12.67 ± 0.74	100.19 ± 4.94	4.79 ± 0.27	176.80 ± 8.42	n = 56	Siemens ADVIA/ADVIS Centaur
6.48 ± 0.24	19.31 ± 0.53	123.74 ± 1.70	7.49 ± 0.23	150.00 ± 0.00	n = 9	Siemens Dimension LOCI
6.39 ± 0.47	15.53 ± 0.94	100.03 ± 8.01	6.71 ± 0.49	184.28 ± 17.00	n = 27	Siemens Immulite
5.49 ± 0.97	14.14 ± 2.83	100.14 ± 16.37	5.57 ± 1.28	167.39 ± 22.10	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Follitropin (FSH, mIU/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
27.21 ± 2.63	4.63 ± 0.69	139.53 ± 26.82	25.25 ± 3.75	120.73 ± 21.30	n = 193	All Methods & Instruments
27.00	4.63	132.00	25.00	115.29	n = 193	Median value, All Methods & Instruments
						<Instruments>
23.88 ± 0.81	4.57 ± 0.19	119.34 ± 7.29	21.89 ± 1.11	102.89 ± 6.35	n = 12	Abbott Architect i System
27.62 ± 1.65	5.30 ± 0.30	124.05 ± 6.99	25.29 ± 1.59	112.63 ± 6.28	n = 11	Beckman Coulter ACCESS
27.07 ± 0.86	5.36 ± 0.35	130.42 ± 9.38	25.56 ± 0.81	112.66 ± 3.13	n = 5	Beckman Coulter UniCel DxI 600
27.14 ± 1.50	5.23 ± 0.35	126.86 ± 8.26	24.87 ± 0.85	112.33 ± 6.44	n = 15	Beckman Coulter UniCel DxI 800
26.39 ± 1.20	4.15 ± 0.16	119.94 ± 3.74	21.81 ± 0.60	105.27 ± 4.24	n = 11	Ortho Vitros 5600
26.79 ± 0.78	5.17 ± 0.20	143.95 ± 3.28	27.32 ± 0.79	125.25 ± 2.70	n = 6	Roche cobas e411
25.20 ± 0.86	4.72 ± 0.13	132.93 ± 4.60	24.90 ± 0.61	116.47 ± 3.03	n = 15	Roche cobas e601
25.11 ± 1.08	4.63 ± 0.16	131.88 ± 2.87	24.59 ± 0.51	114.84 ± 3.22	n = 5	Roche cobas e602
26.09 ± 2.36	4.99 ± 0.52	137.01 ± 11.09	25.82 ± 2.13	118.23 ± 9.36	n = 3	Roche Elecsys
24.29 ± 0.98	4.54 ± 0.12	125.01 ± 7.45	23.44 ± 1.44	110.17 ± 5.18	n = 7	Roche MODULAR E
29.95 ± 1.73	4.63 ± 0.49	178.70 ± 11.01	29.60 ± 1.79	151.86 ± 9.16	n = 58	Siemens ADVIA Centaur
28.71 ± 1.44	4.65 ± 0.19	171.85 ± 13.60	28.94 ± 1.82	142.12 ± 7.78	n = 3	Siemens ADVIA Centaur CP
23.90 ± 0.90	5.00 ± 0.15	127.24 ± 3.00	24.69 ± 0.67	110.99 ± 3.66	n = 9	Siemens Dimension Vista
26.21 ± 1.14	3.10 ± 0.23	119.51 ± 2.85	19.73 ± 1.56	103.87 ± 6.59	n = 5	Siemens Immulite 1000
27.18 ± 1.31	3.27 ± 0.18	124.00 ± 7.77	20.80 ± 0.92	108.61 ± 6.29	n = 21	Siemens Immulite 2000
27.90 ± 0.09	6.07 ± 0.05	118.83 ± 1.13	24.53 ± 0.32	105.73 ± 1.04	n = 3	Tosoh Bioscience
26.45 ± 1.70	4.79 ± 0.64	126.44 ± 7.07	24.60 ± 2.64	111.10 ± 6.09	n = 16	Mean of Above Means
						<Reagents>
23.88 ± 0.81	4.57 ± 0.19	119.34 ± 7.29	21.89 ± 1.11	102.89 ± 6.35	n = 12	Abbott
27.29 ± 1.46	5.27 ± 0.34	126.18 ± 7.94	25.14 ± 1.19	112.55 ± 5.81	n = 31	Beckman Coulter
26.46 ± 1.15	4.16 ± 0.16	119.87 ± 3.25	21.88 ± 0.61	104.97 ± 4.07	n = 12	Ortho Clinical Diagnostics
25.22 ± 1.29	4.71 ± 0.27	133.16 ± 7.88	24.87 ± 1.55	116.20 ± 6.40	n = 36	Roche Elecsys/Modular E/e601/e411
29.88 ± 1.74	4.63 ± 0.48	178.41 ± 11.22	29.56 ± 1.80	151.35 ± 9.38	n = 61	Siemens ADVIA/ADVIS Centaur
23.75 ± 0.85	4.99 ± 0.15	126.87 ± 3.20	24.66 ± 0.73	110.27 ± 3.11	n = 8	Siemens Dimension LOCI
26.99 ± 1.34	3.24 ± 0.19	123.47 ± 7.94	20.65 ± 1.10	107.77 ± 6.67	n = 26	Siemens Immulite
26.10 ± 2.07	4.61 ± 0.55	124.49 ± 4.90	23.81 ± 2.76	109.02 ± 4.86	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
1.90 ± 0.42	3.22 ± 0.74	28.48 ± 5.02	2.23 ± 0.61	14.54 ± 2.36	n = 174	All Methods & Instruments
1.90	3.40	27.40	2.40	14.10	n = 174	Median value, All Methods & Instruments
						<Instruments>
2.06 ± 0.18	3.43 ± 0.21	31.02 ± 0.97	2.29 ± 0.21	16.20 ± 0.57	n = 9	Abbott Architect i System
1.60 ± 0.11	2.38 ± 0.17	25.98 ± 1.24	1.47 ± 0.09	13.45 ± 0.63	n = 11	Beckman Coulter ACCESS
1.71 ± 0.20	2.33 ± 0.10	26.37 ± 1.66	1.52 ± 0.21	13.06 ± 0.70	n = 5	Beckman Coulter UniCel DxI 600
1.55 ± 0.14	2.23 ± 0.15	25.45 ± 0.73	1.39 ± 0.12	13.28 ± 0.56	n = 11	Beckman Coulter UniCel DxI 800
1.67 ± 0.54	3.05 ± 0.94	27.98 ± 1.61	1.98 ± 0.92	14.64 ± 0.98	n = 10	Ortho Vitros 5600
2.74 ± 0.19	4.13 ± 0.29	37.87 ± 2.55	2.93 ± 0.16	19.00 ± 1.04	n = 5	Roche cobas e411
2.43 ± 0.07	3.75 ± 0.08	36.45 ± 1.11	2.60 ± 0.09	18.13 ± 0.43	n = 13	Roche cobas e601
2.45 ± 0.06	3.71 ± 0.11	36.08 ± 0.66	2.58 ± 0.04	17.95 ± 0.28	n = 4	Roche cobas e602
2.67 ± 0.16	4.17 ± 0.20	38.35 ± 1.79	2.84 ± 0.18	19.23 ± 0.92	n = 4	Roche Elecsys
2.39 ± 0.18	3.85 ± 0.17	36.18 ± 1.20	2.64 ± 0.16	17.89 ± 0.46	n = 6	Roche MODULAR E
2.00 ± 0.12	3.61 ± 0.20	26.89 ± 1.28	2.63 ± 0.15	13.76 ± 0.77	n = 52	Siemens ADVIA Centaur
2.17 ± 0.14	3.51 ± 0.44	27.07 ± 1.14	2.79 ± 0.29	13.79 ± 0.61	n = 3	Siemens ADVIA Centaur CP
1.58 ± 0.06	2.92 ± 0.12	34.48 ± 1.01	1.84 ± 0.08	16.60 ± 0.30	n = 12	Siemens Dimension Vista
1.41 ± 0.13	2.34 ± 0.14	22.88 ± 1.09	1.67 ± 0.12	11.67 ± 0.68	n = 20	Siemens Immulite 2000
2.02 ± 0.48	3.27 ± 0.73	30.85 ± 5.79	2.25 ± 0.60	15.59 ± 2.68	n = 14	Mean of Above Means
						<Reagents>
2.06 ± 0.17	3.43 ± 0.20	31.02 ± 0.98	2.32 ± 0.23	16.20 ± 0.58	n = 10	Abbott
1.60 ± 0.14	2.31 ± 0.16	25.77 ± 1.18	1.44 ± 0.11	13.30 ± 0.64	n = 27	Beckman Coulter
1.51 ± 0.19	3.07 ± 0.83	28.13 ± 1.68	1.88 ± 0.82	14.66 ± 1.02	n = 12	Ortho Clinical Diagnostics
2.49 ± 0.16	3.85 ± 0.23	36.63 ± 1.58	2.66 ± 0.17	18.18 ± 0.70	n = 32	Roche Elecsys/Modular E/e601/e411
2.01 ± 0.12	3.61 ± 0.21	26.90 ± 1.27	2.64 ± 0.17	13.77 ± 0.76	n = 55	Siemens ADVIA/ADVIS Centaur
1.59 ± 0.05	2.93 ± 0.12	34.54 ± 1.06	1.83 ± 0.08	16.57 ± 0.32	n = 11	Siemens Dimension LOCI
1.42 ± 0.12	2.33 ± 0.13	22.94 ± 1.11	1.68 ± 0.13	11.62 ± 0.66	n = 22	Siemens Immulite
1.77 ± 0.37	3.09 ± 0.61	29.23 ± 4.89	2.05 ± 0.49	14.89 ± 2.21	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact Parathyrin (PTH, pg/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
3.80 ± 2.32	4.68 ± 2.60	3.29 ± 2.24	26.41 ± 12.43	3.31 ± 2.21	n = 174	All Methods & Instruments
3.50	4.90	3.00	27.70	3.00	n = 174	Median value, All Methods & Instruments
<Instruments>						
1.72 ± 1.91	2.27 ± 1.65	1.10 ± 1.94	15.39 ± 8.32	1.11 ± 1.93	n = 12	Beckman Coulter ACCESS
1.06 ± 0.37	2.87 ± 1.50	0.50 ± 0.57	24.53 ± 5.97	0.52 ± 0.55	n = 7	Beckman Coulter UniCel DxI 600
1.00 ± 0.00	1.63 ± 0.64	1.00 ± 0.00	17.84 ± 5.25	1.00 ± 0.00	n = 15	Beckman Coulter UniCel DxI 800
3.40 ± 0.00	6.26 ± 0.95	3.40 ± 0.00	39.17 ± 8.02	3.40 ± 0.00	n = 7	Ortho Vitros 5600
5.27 ± 1.19	5.72 ± 1.38	3.48 ± 1.42	28.55 ± 13.63	3.55 ± 1.32	n = 20	Roche cobas e601
4.95 ± 0.49	5.92 ± 0.55	2.81 ± 0.45	34.64 ± 4.52	3.41 ± 0.98	n = 5	Roche cobas e602
6.27 ± 0.18	8.89 ± 0.65	4.30 ± 0.14	36.45 ± 12.08	4.31 ± 0.72	n = 5	Roche Elecsys
4.19 ± 0.91	5.06 ± 1.01	2.74 ± 0.47	24.36 ± 9.31	2.85 ± 0.46	n = 9	Roche MODULAR E
4.24 ± 2.54	4.35 ± 2.45	4.24 ± 2.53	27.21 ± 11.75	4.24 ± 2.53	n = 49	Siemens ADVIA Centaur
4.38 ± 2.19	4.74 ± 2.76	4.23 ± 1.87	39.42 ± 10.51	4.36 ± 2.12	n = 6	Siemens ADVIA Centaur CP
4.18 ± 1.12	6.83 ± 2.83	4.26 ± 1.22	29.54 ± 7.63	4.18 ± 1.12	n = 7	Siemens Immulite 1000
3.00 ± 0.00	5.58 ± 2.94	3.00 ± 0.00	23.85 ± 10.64	3.00 ± 0.00	n = 21	Siemens Immulite 2000
1.80 ± 1.21	3.26 ± 1.76	1.00 ± 0.00	26.44 ± 12.51	1.00 ± 0.00	n = 5	Tosoh Bioscience
3.54 ± 1.73	4.86 ± 1.98	2.86 ± 1.48	28.22 ± 7.63	2.95 ± 1.48	n = 13	Mean of Above Means
<Reagents>						
1.00 ± 0.40	1.96 ± 1.13	0.63 ± 0.51	18.33 ± 7.53	0.66 ± 0.48	n = 34	Beckman Coulter
3.40 ± 0.00	6.26 ± 0.95	3.40 ± 0.00	39.17 ± 8.02	3.40 ± 0.00	n = 7	Ortho Clinical Diagnostics
5.18 ± 1.25	5.86 ± 1.70	3.46 ± 1.34	30.02 ± 12.36	3.59 ± 1.26	n = 41	Roche Elecsys/Modular E/e601/e411
4.26 ± 2.50	4.38 ± 2.46	4.24 ± 2.46	28.42 ± 12.27	4.26 ± 2.48	n = 55	Siemens ADVIA/ADVIS Centaur
3.00 ± 0.00	5.18 ± 2.54	3.00 ± 0.00	23.79 ± 10.70	3.00 ± 0.00	n = 24	Siemens Immulite
5.00 ± 0.00	8.89 ± 1.40	5.09 ± 0.25	31.64 ± 6.12	5.00 ± 0.00	n = 4	Siemens Immulite Turbo
2.52 ± 1.31	3.51 ± 1.44	1.81 ± 1.48	28.25 ± 8.70	1.81 ± 1.48	n = 3	Tosoh ST AIA
3.56 ± 1.44	5.06 ± 2.07	3.18 ± 1.43	28.48 ± 6.01	3.20 ± 1.41	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D2 (ng/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
2.55 ± 1.62 2.00	2.68 ± 1.59 2.00	11.56 ± 1.36 11.00	20.34 ± 1.77 20.00	30.59 ± 4.10 30.30	n = 15 n = 15	All Methods & Instruments Median value, All Methods & Instruments
2.55 ± 1.62	2.68 ± 1.59	11.56 ± 1.36	20.34 ± 1.77	30.59 ± 4.10	n = 15	<Instruments> LC/MS/MS
2.55 ± 1.62	2.68 ± 1.59	11.56 ± 1.36	20.34 ± 1.77	30.59 ± 4.10	n = 15	<Reagents> In-House

25-OH Vitamin D3 (ng/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
36.59 ± 4.48 35.70	37.92 ± 4.48 36.10	41.87 ± 3.42 42.00	24.40 ± 2.58 24.00	35.35 ± 3.53 34.80	n = 15 n = 15	All Methods & Instruments Median value, All Methods & Instruments
36.59 ± 4.48	37.92 ± 4.48	41.87 ± 3.42	24.40 ± 2.58	35.35 ± 3.53	n = 15	<Instruments> LC/MS/MS
36.59 ± 4.48	37.92 ± 4.48	41.87 ± 3.42	24.40 ± 2.58	35.35 ± 3.53	n = 15	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
22.42 ± 4.02	33.04 ± 15.05	40.27 ± 10.86	34.35 ± 17.62	44.79 ± 14.82	n = 170	All Methods & Instruments
22.50	29.40	38.00	29.60	40.20	n = 170	Median value, All Methods & Instruments
19.71 ± 0.98	26.65 ± 1.03	36.30 ± 1.53	24.09 ± 0.77	36.36 ± 1.12	n = 18	<Instruments>
21.16 ± 2.07	19.45 ± 2.35	29.86 ± 2.87	18.85 ± 2.02	32.47 ± 2.65	n = 50	Abbott Architect i System
21.73 ± 3.22	28.62 ± 4.36	40.27 ± 4.02	29.08 ± 4.37	43.48 ± 6.36	n = 3	DiaSorin Liaison
36.99 ± 4.65	38.72 ± 4.93	53.58 ± 3.33	45.06 ± 5.35	67.03 ± 6.66	n = 14	iImmunodiagnostic Systems-iSYS Immun
43.10 ± 2.75	35.51 ± 3.18	37.35 ± 2.40	35.22 ± 3.18	42.24 ± 2.43	n = 10	LC/MS/MS
29.33 ± 4.25	30.65 ± 3.03	39.69 ± 3.14	29.62 ± 3.71	44.83 ± 4.77	n = 4	Ortho Vitros 5600
24.59 ± 2.74	27.26 ± 2.77	36.13 ± 2.71	27.70 ± 2.46	38.95 ± 2.13	n = 12	Roche cobas e411
22.08 ± 3.15	54.69 ± 7.37	52.53 ± 4.63	59.12 ± 5.07	61.68 ± 6.07	n = 42	Roche cobas e601
33.86 ± 0.79	57.10 ± 0.64	66.63 ± 2.15	61.44 ± 2.54	70.65 ± 3.28	n = 3	Siemens ADVIA Centaur
25.64 ± 5.07	36.21 ± 2.67	39.55 ± 2.88	35.80 ± 2.83	42.25 ± 3.60	n = 4	Tosoh Bioscience
26.90 ± 7.58	34.04 ± 11.44	41.43 ± 9.78	34.99 ± 13.91	46.54 ± 13.34	n = 10	UV/Vis Photometer
						Mean of Above Means
19.71 ± 0.98	26.65 ± 1.03	36.30 ± 1.53	24.09 ± 0.77	36.36 ± 1.12	n = 18	<Reagents>
21.16 ± 2.07	19.45 ± 2.35	29.86 ± 2.87	18.85 ± 2.02	32.47 ± 2.65	n = 50	Abbott
23.00 ± 0.27	35.83 ± 0.09	39.18 ± 2.03	34.00 ± 1.75	40.34 ± 1.87	n = 6	DiaSorin Liaison
21.73 ± 3.22	28.62 ± 4.36	40.27 ± 4.02	29.08 ± 4.37	43.48 ± 6.36	n = 3	iImmunodiagnostic Systems-iSYS chemi
36.85 ± 4.48	38.69 ± 4.68	53.17 ± 3.83	44.59 ± 5.39	66.39 ± 7.79	n = 15	In-House
43.33 ± 2.69	35.51 ± 2.94	37.59 ± 2.40	34.97 ± 3.05	41.96 ± 2.44	n = 11	Ortho Clinical Diagnostics
25.59 ± 3.21	28.07 ± 2.85	37.09 ± 3.09	28.23 ± 2.75	40.26 ± 3.97	n = 19	Roche Elecsys/Modular E/e601/e411
22.11 ± 2.86	53.72 ± 6.44	51.87 ± 4.23	58.17 ± 4.51	60.61 ± 5.13	n = 32	Siemens ADVIA Centaur - Vitamin D T
21.52 ± 3.73	57.38 ± 11.06	53.79 ± 6.69	60.77 ± 5.83	65.41 ± 6.38	n = 10	Tosoh AIA
33.86 ± 0.79	57.10 ± 0.64	66.63 ± 2.15	61.44 ± 2.54	70.65 ± 3.28	n = 3	Siemens ADVIA/ADVIS Centaur
25.54 ± 7.57	37.34 ± 13.90	43.57 ± 10.96	38.59 ± 16.39	49.10 ± 14.98	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact human Choriogonadotropin (intact hCG, mIU/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
59.8 ± 2.98	1.3 ± 0.80	47.9 ± 3.05	1.3 ± 0.80	47.4 ± 4.58	n = 48	All Methods & Instruments
59.8	1.0	48.0	1.0	48.0	n = 48	Median value, All Methods & Instruments
						<Instruments>
58.8 ± 2.40	1.8 ± 1.76	44.5 ± 1.65	1.8 ± 1.76	42.3 ± 1.69	n = 12	Roche cobas e601
61.0 ± 2.53	1.4 ± 0.94	49.7 ± 1.86	1.4 ± 0.94	50.0 ± 2.33	n = 14	Siemens Dimension EXL
59.0 ± 2.96	1.4 ± 0.65	48.7 ± 1.59	1.4 ± 0.65	49.2 ± 2.86	n = 12	Siemens Dimension RxL
61.2 ± 2.80	1.4 ± 0.79	50.3 ± 2.19	1.4 ± 0.79	50.5 ± 3.19	n = 6	Siemens Dimension Xpand
60.0 ± 1.26	1.5 ± 0.17	48.7 ± 2.29	1.5 ± 0.17	48.7 ± 3.22	n = 4	Mean of Above Means
						<Reagents>
58.9 ± 2.16	1.8 ± 1.54	44.6 ± 1.50	1.8 ± 1.54	42.4 ± 1.43	n = 14	Roche Elecsys/Modular E/e601/e411
60.3 ± 2.93	1.4 ± 0.79	49.4 ± 1.94	1.4 ± 0.79	49.8 ± 2.77	n = 32	Siemens Dimension
59.6 ± 0.79	1.6 ± 0.22	47.0 ± 2.73	1.6 ± 0.22	46.1 ± 4.20	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Total Beta hCG (mIU/mL)

Specimen: E16	Specimen: E17	Specimen: E18	Specimen: E19	Specimen: E20	Number	Instrument or Reagent System
62.9 ± 7.32	1.4 ± 1.13	41.6 ± 8.31	1.4 ± 1.15	44.7 ± 8.05	n = 252	All Methods & Instruments
64.0	1.0	41.0	1.0	46.0	n = 252	Median value, All Methods & Instruments
<Instruments>						
51.5 ± 4.06	2.1 ± 1.86	33.5 ± 2.83	2.1 ± 1.86	37.4 ± 2.43	n = 23	Abbott Architect i System
57.2 ± 4.88	0.5 ± 0.32	33.3 ± 3.00	0.5 ± 0.32	38.7 ± 3.95	n = 27	Beckman Coulter ACCESS
58.4 ± 7.69	0.5 ± 0.23	34.2 ± 6.51	0.5 ± 0.28	40.1 ± 5.99	n = 7	Beckman Coulter UniCel DxI 600
54.8 ± 4.70	0.8 ± 0.62	32.1 ± 3.84	0.6 ± 0.39	39.1 ± 3.63	n = 12	Beckman Coulter UniCel DxI 800
67.2 ± 3.32	2.5 ± 0.39	50.4 ± 2.97	2.5 ± 0.39	50.8 ± 2.85	n = 20	Ortho Vitros 5600
68.0 ± 3.67	3.2 ± 1.64	50.9 ± 3.93	3.2 ± 1.64	51.3 ± 4.29	n = 6	Ortho Vitros ECi/ECiQ
71.2 ± 2.35	0.9 ± 0.62	46.7 ± 0.87	0.9 ± 0.62	52.4 ± 2.31	n = 8	Roche cobas e411
66.2 ± 3.03	0.8 ± 0.52	43.5 ± 2.19	0.8 ± 0.52	49.4 ± 3.55	n = 13	Roche cobas e601
67.4 ± 2.31	1.2 ± 1.94	44.3 ± 0.90	1.2 ± 1.94	50.6 ± 1.80	n = 4	Roche cobas e602
69.7 ± 4.17	0.1 ± 0.00	45.7 ± 3.16	0.1 ± 0.00	51.9 ± 3.79	n = 3	Roche Elecsys
66.1 ± 1.95	1.7 ± 2.14	43.6 ± 1.13	1.7 ± 2.14	49.8 ± 1.29	n = 11	Roche MODULAR E
61.2 ± 3.15	2.0 ± 0.00	37.8 ± 2.25	2.0 ± 0.00	38.8 ± 2.08	n = 51	Siemens ADVIA Centaur
63.4 ± 3.45	2.0 ± 0.00	38.0 ± 2.89	2.0 ± 0.00	36.9 ± 1.72	n = 5	Siemens ADVIA Centaur CP
67.2 ± 1.26	1.0 ± 0.00	47.9 ± 0.96	1.0 ± 0.00	50.4 ± 0.98	n = 41	Siemens Dimension Vista
84.5 ± 11.38	2.1 ± 2.05	46.9 ± 4.29	2.1 ± 2.05	57.8 ± 5.12	n = 3	Siemens Immulite 1000
95.8 ± 5.35	1.0 ± 0.00	60.8 ± 2.97	1.0 ± 0.00	70.9 ± 4.79	n = 13	Siemens Immulite 2000
64.8 ± 7.77	1.4 ± 0.86	42.8 ± 7.76	1.3 ± 0.88	47.1 ± 8.38	n = 16	Mean of Above Means
<Reagents>						
51.4 ± 4.00	2.3 ± 1.95	33.5 ± 2.75	2.3 ± 1.95	37.3 ± 2.35	n = 24	Abbott
56.1 ± 5.01	0.5 ± 0.36	32.5 ± 3.19	0.5 ± 0.35	38.5 ± 3.92	n = 43	Beckman Coulter
65.7 ± 1.94	0.6 ± 0.05	38.4 ± 1.63	0.6 ± 0.05	43.9 ± 1.63	n = 3	Beckman Coulter IFCC Standardized
67.4 ± 3.38	2.4 ± 0.35	50.4 ± 3.21	2.4 ± 0.35	50.9 ± 3.16	n = 26	Ortho Clinical Diagnostics
67.4 ± 3.42	0.7 ± 0.59	44.5 ± 2.09	0.7 ± 0.59	50.5 ± 2.33	n = 39	Roche Elecsys/Modular E/e601/e411
61.4 ± 3.25	2.0 ± 0.00	37.8 ± 2.34	2.0 ± 0.00	38.6 ± 2.12	n = 56	Siemens ADVIA/ADVIS Centaur
67.4 ± 1.02	1.0 ± 0.00	48.7 ± 0.51	1.0 ± 0.00	51.4 ± 1.02	n = 3	Siemens Dimension
67.2 ± 1.28	1.0 ± 0.00	47.8 ± 0.95	1.0 ± 0.00	50.3 ± 0.93	n = 38	Siemens Dimension LOCI
94.9 ± 5.77	1.0 ± 0.00	58.5 ± 6.69	1.0 ± 0.00	68.9 ± 6.85	n = 16	Siemens Immulite
64.0 ± 6.18	1.2 ± 0.76	43.3 ± 8.70	1.2 ± 0.76	46.6 ± 8.57	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Qualitative hCG report:

[AB1] Abbott	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	8	0	8	0
Indeterminant	0	0	0	0	0
Positive	8	0	8	0	8
[AR1] Alere hCG Combo Cassette	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	7	0	7	0
Indeterminant	0	0	0	0	0
Positive	7	0	7	0	7
[BC1] Beckman Coulter	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	28	0	28	0
Indeterminant	0	0	1	0	0
Positive	28	0	27	0	28
[CD1] Cardinal Health	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	18	1	18	0
Indeterminant	0	0	0	0	0
Positive	18	0	17	0	18
[CM1] CEN-MED Elite Plus hCG One Step	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	5	0	5	0	5
[FI1] Fisher	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	48	0	48	0
Indeterminant	0	0	0	0	0
Positive	48	0	48	0	48
[JJ1] Ortho Clinical Diagnostics	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
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:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
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:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
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:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	16	0	16	1
Indeterminant	0	0	0	0	0
Positive	16	0	16	0	15
[RO3] Roche Elecsys/Modular E/e601/e411	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	11	0	11	0
Indeterminant	0	0	0	0	0
Positive	11	0	11	0	11
[GZ1] Sekisui Diagnostics (Genzyme)	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	7	0	7	0
Indeterminant	0	0	0	0	0
Positive	7	0	7	0	7
[BY1] Siemens ADVIA/ADVIA Centaur	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	22	0	22	0
Indeterminant	0	0	0	0	0
Positive	22	0	22	0	22
[DA5] Siemens Dimension	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	2	0	2	0	2

Statistical Summary (Mean and Standard Deviation)

[DA6] Siemens Dimension LOCI	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	4	0	4	0
Indeterminant	0	0	0	0	0
Positive	4	0	4	0	4
<hr/>					
[DP5] Siemens Immulite	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	2	0	2	0	2
<hr/>					
[SB1] Stanbio	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	7	0	7	0
Indeterminant	0	0	0	0	0
Positive	7	0	7	0	7
<hr/>					
[TR1] TrueMedix	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	5	0	5	0	5
<hr/>					
[---] All Methods & Instruments	Specimen:E16	Specimen:E17	Specimen:E18	Specimen:E19	Specimen:E20
Negative	0	215	1	215	1
Indeterminant	0	0	1	0	0
Positive	216	1	214	1	215