

Endocrinology Proficiency Test Program

Statistical Summary – January 2014 (Event 14-1)

This statistical report summarizes participant data for the five Endocrinology proficiency survey specimens shipped 27 January 2014. Test specimens E06-E10 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: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
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4.10 ± 0.66	6.85 ± 0.97	7.71 ± 0.90	9.51 ± 1.32	11.82 ± 1.30	n = 228	All Methods & Instruments
4.07	6.72	7.70	9.30	11.70	n = 228	Median value, All Methods & Instruments
						<Instruments>
3.93 ± 0.24	5.78 ± 0.21	6.42 ± 0.31	8.30 ± 0.27	10.42 ± 0.41	n = 20	Abbott Architect i System
4.21 ± 0.32	7.58 ± 0.50	8.21 ± 0.59	10.81 ± 0.89	12.25 ± 0.62	n = 16	Beckman Coulter ACCESS
4.24 ± 0.37	6.20 ± 0.25	7.08 ± 0.23	9.16 ± 0.49	11.79 ± 0.37	n = 7	Beckman Coulter AU Chemistry System
3.98 ± 0.33	7.73 ± 0.43	8.09 ± 0.56	10.94 ± 0.80	12.24 ± 0.89	n = 15	Beckman Coulter UniCel DxI 800
4.09 ± 0.16	6.89 ± 0.30	8.15 ± 0.28	9.95 ± 0.35	12.92 ± 0.34	n = 16	Ortho Vitros 5600
4.01 ± 0.05	6.84 ± 0.12	8.00 ± 0.12	10.05 ± 0.29	11.30 ± 4.39	n = 4	Ortho Vitros Eci/ECiQ
4.75 ± 0.26	6.51 ± 0.25	7.30 ± 0.36	8.58 ± 0.30	11.39 ± 0.74	n = 3	Roche cobas e411
4.31 ± 0.24	5.99 ± 0.22	6.63 ± 0.20	8.15 ± 0.27	10.50 ± 0.25	n = 11	Roche cobas e601
4.30 ± 0.08	6.10 ± 0.18	6.85 ± 0.23	8.25 ± 0.23	10.70 ± 0.46	n = 4	Roche cobas e602
4.40 ± 0.22	6.10 ± 0.28	6.76 ± 0.36	8.35 ± 0.37	10.69 ± 0.56	n = 11	Roche MODULAR E
3.52 ± 0.36	6.67 ± 0.42	7.74 ± 0.42	9.05 ± 0.45	11.46 ± 0.49	n = 52	Siemens ADVIA Centaur
5.41 ± 0.48	7.98 ± 0.52	8.28 ± 0.43	10.81 ± 0.73	13.15 ± 0.77	n = 5	Siemens Dimension EXL
4.70 ± 0.64	7.89 ± 0.37	8.22 ± 0.32	10.44 ± 0.74	12.81 ± 0.44	n = 3	Siemens Dimension RxL
5.40 ± 0.60	8.72 ± 0.69	9.05 ± 0.65	11.76 ± 0.74	14.22 ± 0.74	n = 30	Siemens Dimension Vista
4.13 ± 0.71	6.91 ± 0.71	7.86 ± 0.74	9.60 ± 1.21	11.64 ± 0.72	n = 4	Siemens Immulite 1000
3.61 ± 0.34	6.46 ± 0.49	7.31 ± 0.41	8.85 ± 0.51	11.23 ± 0.72	n = 13	Siemens Immulite 2000
4.12 ± 0.31	6.77 ± 0.43	7.17 ± 0.32	9.41 ± 0.91	11.69 ± 1.34	n = 4	Tosoh Bioscience
4.23 ± 0.46	6.81 ± 0.81	7.59 ± 0.74	9.50 ± 1.15	11.69 ± 1.00	n = 17	Mean of Above Means
						<Reagents>
3.93 ± 0.24	5.78 ± 0.21	6.42 ± 0.31	8.30 ± 0.27	10.42 ± 0.41	n = 20	Abbott
4.10 ± 0.35	7.64 ± 0.49	8.12 ± 0.61	10.83 ± 0.86	12.23 ± 0.76	n = 32	Beckman Coulter
4.57 ± 0.60	6.62 ± 0.59	7.90 ± 0.36	9.40 ± 0.46	11.99 ± 0.74	n = 3	Microgenics CEDIA
4.24 ± 0.37	6.20 ± 0.25	7.08 ± 0.23	9.16 ± 0.49	11.79 ± 0.37	n = 7	Microgenics DRI
4.07 ± 0.15	6.88 ± 0.27	8.12 ± 0.26	9.97 ± 0.33	12.92 ± 0.31	n = 20	Ortho Clinical Diagnostics
4.38 ± 0.24	6.10 ± 0.29	6.77 ± 0.35	8.30 ± 0.36	10.70 ± 0.56	n = 31	Roche Elecsys/Modular E/e601/e411
3.52 ± 0.36	6.67 ± 0.42	7.74 ± 0.42	9.05 ± 0.45	11.46 ± 0.49	n = 52	Siemens ADVIA/ADVIA Centaur
5.30 ± 0.60	8.48 ± 0.67	8.78 ± 0.60	11.45 ± 0.77	13.92 ± 0.82	n = 35	Siemens Dimension
5.80 ± 0.36	9.48 ± 0.78	10.24 ± 0.56	12.80 ± 0.27	15.48 ± 0.94	n = 3	Siemens Dimension LOCI
3.69 ± 0.54	6.53 ± 0.55	7.41 ± 0.55	8.91 ± 0.64	11.32 ± 0.72	n = 17	Siemens Immulite
4.25 ± 0.64	6.84 ± 1.03	7.73 ± 0.95	9.62 ± 1.37	12.00 ± 1.37	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T4 (ng/dL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
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0.80 ± 0.10	1.77 ± 0.40	1.31 ± 0.22	2.72 ± 0.40	2.22 ± 0.31	n = 256	All Methods & Instruments
0.80	1.77	1.30	2.78	2.30	n = 256	Median value, All Methods & Instruments
<Instruments>						
0.75 ± 0.05	1.38 ± 0.07	1.14 ± 0.06	2.06 ± 0.13	1.85 ± 0.10	n = 19	Abbott Architect i System
0.73 ± 0.06	1.86 ± 0.07	1.32 ± 0.05	2.65 ± 0.11	2.07 ± 0.09	n = 19	Beckman Coulter ACCESS
0.75 ± 0.06	1.75 ± 0.12	1.24 ± 0.07	2.70 ± 0.15	2.13 ± 0.12	n = 14	Beckman Coulter UniCel DxI 800
0.77 ± 0.14	1.03 ± 0.05	0.90 ± 0.00	2.07 ± 0.14	2.42 ± 0.15	n = 3	bioMerieux Vidas
1.23 ± 0.06	3.02 ± 0.11	1.60 ± 0.09	5.50 ± 0.16	4.12 ± 0.16	n = 17	Ortho Vitros 5600
1.24 ± 0.07	3.00 ± 0.01	1.58 ± 0.09	5.51 ± 0.15	4.14 ± 0.12	n = 6	Ortho Vitros Eci/ECiQ
0.91 ± 0.04	2.07 ± 0.04	1.52 ± 0.04	3.17 ± 0.08	2.67 ± 0.12	n = 4	Roche cobas e411
0.91 ± 0.01	2.08 ± 0.07	1.51 ± 0.04	3.17 ± 0.07	2.62 ± 0.05	n = 13	Roche cobas e601
0.90 ± 0.00	2.07 ± 0.09	1.48 ± 0.04	3.12 ± 0.04	2.60 ± 0.00	n = 4	Roche cobas e602
0.90 ± 0.01	2.11 ± 0.08	1.50 ± 0.05	3.17 ± 0.11	2.63 ± 0.08	n = 14	Roche MODULAR E
0.81 ± 0.07	1.70 ± 0.09	1.31 ± 0.09	2.73 ± 0.16	2.34 ± 0.13	n = 64	Siemens ADVIA Centaur
0.76 ± 0.04	1.43 ± 0.07	1.01 ± 0.05	2.43 ± 0.08	1.94 ± 0.08	n = 11	Siemens Dimension EXL
0.66 ± 0.10	2.75 ± 0.36	1.30 ± 0.09	3.67 ± 0.32	2.22 ± 0.24	n = 3	Siemens Dimension RxL
0.75 ± 0.04	1.40 ± 0.07	1.02 ± 0.05	2.39 ± 0.09	1.91 ± 0.06	n = 35	Siemens Dimension Vista
0.51 ± 0.03	2.18 ± 0.06	1.06 ± 0.10	3.14 ± 0.17	1.97 ± 0.17	n = 3	Siemens Dimension Xpand
0.82 ± 0.03	2.20 ± 0.15	1.51 ± 0.07	3.18 ± 0.16	2.32 ± 0.07	n = 15	Siemens Immulite 2000
0.91 ± 0.02	1.99 ± 0.12	1.40 ± 0.08	3.43 ± 0.26	2.96 ± 0.15	n = 4	Tosoh Bioscience
0.82 ± 0.14	1.97 ± 0.54	1.33 ± 0.23	2.90 ± 0.54	2.31 ± 0.37	n = 17	Mean of Above Means
<Reagents>						
0.75 ± 0.05	1.38 ± 0.07	1.14 ± 0.06	2.06 ± 0.13	1.85 ± 0.10	n = 19	Abbott
0.74 ± 0.06	1.82 ± 0.11	1.29 ± 0.07	2.68 ± 0.13	2.10 ± 0.11	n = 35	Beckman Coulter
0.77 ± 0.14	1.03 ± 0.05	0.90 ± 0.00	2.07 ± 0.14	2.42 ± 0.15	n = 3	bioMerieux Vitek
1.23 ± 0.06	3.02 ± 0.11	1.60 ± 0.09	5.50 ± 0.16	4.13 ± 0.15	n = 23	Ortho Clinical Diagnostics
0.90 ± 0.00	2.09 ± 0.08	1.51 ± 0.05	3.16 ± 0.09	2.62 ± 0.07	n = 37	Roche Elecsys/Modular E/e601/e411
0.82 ± 0.07	1.70 ± 0.09	1.31 ± 0.09	2.74 ± 0.16	2.35 ± 0.14	n = 65	Siemens ADVIA/ADVIA Centaur
0.63 ± 0.12	2.20 ± 0.57	1.13 ± 0.17	3.17 ± 0.55	2.03 ± 0.22	n = 8	Siemens Dimension
0.75 ± 0.04	1.41 ± 0.07	1.02 ± 0.05	2.40 ± 0.09	1.92 ± 0.07	n = 44	Siemens Dimension LOCI
0.83 ± 0.04	2.21 ± 0.14	1.52 ± 0.07	3.19 ± 0.17	2.33 ± 0.08	n = 17	Siemens Immulite
0.78 ± 0.07	1.84 ± 0.56	1.27 ± 0.25	2.70 ± 0.50	2.20 ± 0.27	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T3-Uptake (%)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
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33.74 ± 4.20	42.71 ± 7.51	37.68 ± 4.76	44.67 ± 7.33	39.70 ± 4.71	n = 134	All Methods & Instruments
33.60	44.90	37.00	46.00	40.00	n = 134	Median value, All Methods & Instruments
<Instruments>						
32.86 ± 1.34	36.31 ± 0.68	32.36 ± 1.00	36.77 ± 1.26	32.24 ± 1.31	n = 9	Abbott Architect i System
42.93 ± 2.28	47.42 ± 2.25	44.01 ± 2.01	48.89 ± 2.05	45.36 ± 1.45	n = 11	Beckman Coulter ACCESS
34.68 ± 1.54	45.44 ± 0.72	40.79 ± 0.63	48.14 ± 0.68	41.17 ± 1.43	n = 7	Beckman Coulter AU Chemistry System
44.09 ± 1.85	46.78 ± 1.73	44.08 ± 2.16	47.49 ± 2.13	45.29 ± 2.88	n = 10	Beckman Coulter UniCel DxI 800
35.40 ± 1.34	53.37 ± 1.37	40.95 ± 0.76	56.14 ± 1.75	43.17 ± 0.83	n = 8	Ortho Vitros 5600
35.26 ± 0.64	52.67 ± 0.24	40.52 ± 0.88	55.31 ± 0.38	42.41 ± 1.09	n = 4	Ortho Vitros Eci/ECiQ
32.91 ± 0.83	36.00 ± 0.90	34.13 ± 0.69	38.03 ± 1.04	37.64 ± 0.79	n = 3	Roche cobas e601
32.91 ± 1.74	48.14 ± 2.70	37.90 ± 2.12	49.30 ± 2.48	39.30 ± 2.48	n = 29	Siemens ADVIA Centaur
33.36 ± 1.09	37.00 ± 0.64	36.51 ± 0.83	41.15 ± 1.28	40.00 ± 1.54	n = 5	Siemens Dimension EXL
33.08 ± 1.52	36.58 ± 2.27	36.44 ± 2.16	40.93 ± 2.55	39.66 ± 2.33	n = 20	Siemens Dimension Vista
27.83 ± 2.56	35.33 ± 1.85	32.31 ± 0.52	37.54 ± 0.62	33.11 ± 1.49	n = 3	Siemens Immulite 1000
27.91 ± 0.90	31.95 ± 1.53	28.93 ± 2.07	33.34 ± 0.61	30.25 ± 2.47	n = 12	Siemens Immulite 2000
33.82 ± 4.34	42.07 ± 7.88	37.52 ± 4.96	44.26 ± 7.75	39.51 ± 5.01	n = 12	Mean of Above Means
<Reagents>						
32.86 ± 1.34	36.31 ± 0.68	32.36 ± 1.00	36.77 ± 1.26	32.24 ± 1.31	n = 9	Abbott
43.66 ± 2.18	47.00 ± 2.05	44.06 ± 2.01	48.14 ± 2.23	45.26 ± 2.13	n = 22	Beckman Coulter
34.78 ± 0.92	45.73 ± 1.07	40.66 ± 0.57	48.31 ± 0.96	41.40 ± 1.00	n = 9	Microgenics CEDIA
35.33 ± 1.08	53.03 ± 1.13	40.80 ± 0.85	55.75 ± 1.41	42.86 ± 1.12	n = 12	Ortho Clinical Diagnostics
33.03 ± 1.37	36.59 ± 0.94	34.67 ± 1.43	38.50 ± 1.39	38.11 ± 1.99	n = 8	Roche Elecsys/Modular E/e601/e411
32.91 ± 1.74	48.14 ± 2.70	37.90 ± 2.12	49.30 ± 2.48	39.30 ± 2.48	n = 29	Siemens ADVIA/ADVIA Centaur
33.00 ± 1.35	36.65 ± 1.95	36.24 ± 1.91	40.64 ± 2.42	39.49 ± 2.31	n = 26	Siemens Dimension
27.95 ± 1.18	33.18 ± 3.12	29.72 ± 2.49	33.95 ± 2.11	31.00 ± 2.77	n = 15	Siemens Immulite
33.50 ± 1.26	41.91 ± 7.47	37.10 ± 4.77	43.79 ± 7.65	39.04 ± 4.84	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T Uptake (Unit)

Specimen: E06 -----	Specimen: E07 -----	Specimen: E08 -----	Specimen: E09 -----	Specimen: E10 -----	Number -----	Instrument or Reagent System -----
1.066 ± 0.136	0.921 ± 0.138	1.032 ± 0.142	0.848 ± 0.082	0.909 ± 0.053	n = 20	All Methods & Instruments
1.100	0.980	1.050	0.890	0.910	n = 20	Median value, All Methods & Instruments
<Instruments>						
0.877 ± 0.054	0.769 ± 0.051	0.893 ± 0.067	0.765 ± 0.057	0.906 ± 0.072	n = 5	Abbott Architect i System
1.158 ± 0.028	0.999 ± 0.016	1.083 ± 0.028	0.902 ± 0.024	0.927 ± 0.029	n = 7	Roche MODULAR E
1.115 ± 0.081	1.607 ± 0.086	1.326 ± 0.098	1.714 ± 0.047	1.358 ± 0.112	n = 3	Siemens ADVIA Centaur
1.063 ± 0.135	1.098 ± 0.387	1.097 ± 0.195	1.084 ± 0.456	1.040 ± 0.226	n = 3	Mean of Above Means
<Reagents>						
0.877 ± 0.054	0.769 ± 0.051	0.893 ± 0.067	0.765 ± 0.057	0.906 ± 0.072	n = 5	Abbott
1.137 ± 0.043	0.992 ± 0.029	1.065 ± 0.040	0.894 ± 0.034	0.919 ± 0.034	n = 11	Roche Elecsys/Modular E/e601/e411
1.115 ± 0.081	1.607 ± 0.086	1.326 ± 0.098	1.714 ± 0.047	1.358 ± 0.112	n = 3	Siemens ADVIA/ADVIA Centaur
1.056 ± 0.128	1.095 ± 0.388	1.088 ± 0.196	1.081 ± 0.458	1.037 ± 0.228	n = 3	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Triiodothyronine (T3, ng/dL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
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64.2 ± 10.22	105.1 ± 13.01	117.3 ± 15.31	160.8 ± 19.26	192.9 ± 23.99	n = 181	All Methods & Instruments
62.0	103.1	118.0	164.0	196.6	n = 181	Median value, All Methods & Instruments
						<Instruments>
64.8 ± 6.45	90.3 ± 5.85	98.2 ± 6.69	137.5 ± 7.33	171.3 ± 10.52	n = 16	Abbott Architect i System
67.1 ± 5.07	94.7 ± 5.70	98.4 ± 6.03	133.2 ± 5.62	154.0 ± 7.24	n = 11	Beckman Coulter ACCESS
43.4 ± 30.26	61.2 ± 43.46	61.3 ± 43.32	86.7 ± 60.78	104.7 ± 73.61	n = 3	Beckman Coulter UniCel DxI 600
66.4 ± 8.72	90.0 ± 10.11	91.3 ± 9.57	128.8 ± 11.92	152.5 ± 12.93	n = 15	Beckman Coulter UniCel DxI 800
76.3 ± 3.75	119.2 ± 5.07	123.4 ± 5.97	170.8 ± 8.17	190.5 ± 9.36	n = 13	Ortho Vitros 5600
77.1 ± 2.96	120.2 ± 5.46	128.7 ± 5.07	174.3 ± 2.01	203.4 ± 6.37	n = 9	Roche cobas e601
75.0 ± 3.88	120.0 ± 5.06	127.9 ± 4.54	177.2 ± 6.99	203.4 ± 7.57	n = 4	Roche cobas e602
74.1 ± 5.90	116.6 ± 6.64	126.3 ± 7.19	171.3 ± 6.23	200.4 ± 9.95	n = 13	Roche MODULAR E
58.0 ± 5.21	103.1 ± 6.00	122.3 ± 8.86	165.7 ± 10.19	208.3 ± 10.64	n = 71	Siemens ADVIA Centaur
56.4 ± 6.92	113.6 ± 8.44	112.0 ± 11.66	163.0 ± 14.67	182.7 ± 15.43	n = 12	Siemens Immulite 2000
66.5 ± 6.32	98.9 ± 4.38	104.0 ± 9.01	147.8 ± 3.23	163.6 ± 9.11	n = 3	Tosoh Bioscience
67.2 ± 9.34	104.9 ± 16.34	111.5 ± 18.40	155.2 ± 23.58	180.4 ± 27.53	n = 11	Mean of Above Means
						<Reagents>
64.8 ± 6.45	90.3 ± 5.85	98.2 ± 6.69	137.5 ± 7.33	171.3 ± 10.52	n = 16	Abbott
66.0 ± 7.44	91.8 ± 8.92	93.9 ± 9.13	130.2 ± 10.74	152.8 ± 11.02	n = 29	Beckman Coulter
76.2 ± 3.30	119.3 ± 4.16	123.1 ± 5.34	171.6 ± 7.22	190.9 ± 8.40	n = 15	Ortho Clinical Diagnostics
76.4 ± 5.36	119.1 ± 5.97	128.2 ± 5.72	173.4 ± 5.64	201.9 ± 7.44	n = 30	Roche Elecsys/Modular E/e601/e411
58.1 ± 5.19	103.3 ± 6.02	122.5 ± 8.86	166.2 ± 10.48	208.7 ± 11.20	n = 73	Siemens ADVIA/ADVIA Centaur
58.2 ± 6.08	115.2 ± 7.92	116.1 ± 12.35	165.8 ± 16.24	184.8 ± 11.97	n = 13	Siemens Immulite
66.4 ± 8.24	106.9 ± 13.60	114.7 ± 14.19	159.3 ± 18.38	186.3 ± 19.81	n = 6	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T-3 (pg/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
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2.16 ± 0.34	3.53 ± 0.40	3.17 ± 0.57	5.41 ± 0.83	5.20 ± 0.77	n = 140	All Methods & Instruments
2.20	3.58	3.20	5.40	5.21	n = 140	Median value, All Methods & Instruments
						<Instruments>
1.86 ± 0.14	3.29 ± 0.12	2.86 ± 0.19	5.01 ± 0.24	5.14 ± 0.33	n = 12	Abbott Architect i System
2.01 ± 0.28	3.38 ± 0.19	2.84 ± 0.08	4.88 ± 0.25	4.65 ± 0.10	n = 7	Beckman Coulter ACCESS
1.95 ± 0.18	3.09 ± 0.15	2.68 ± 0.12	4.58 ± 0.30	4.40 ± 0.25	n = 12	Beckman Coulter UniCel DxI 800
2.23 ± 0.04	6.62 ± 0.37	3.88 ± 0.30	10.89 ± 0.47	7.51 ± 0.40	n = 5	Ortho Vitros 5600
2.11 ± 0.08	4.22 ± 0.14	3.70 ± 0.02	6.74 ± 0.13	6.49 ± 0.12	n = 5	Roche cobas e601
2.13 ± 0.05	4.22 ± 0.15	3.70 ± 0.09	6.87 ± 0.14	6.63 ± 0.05	n = 3	Roche cobas e602
2.18 ± 0.12	4.37 ± 0.25	3.74 ± 0.18	7.01 ± 0.26	6.65 ± 0.30	n = 11	Roche MODULAR E
2.39 ± 0.09	3.63 ± 0.12	3.31 ± 0.10	5.44 ± 0.16	5.30 ± 0.13	n = 49	Siemens ADVIA Centaur
1.40 ± 0.12	3.45 ± 0.17	1.82 ± 0.41	5.86 ± 0.35	4.74 ± 0.28	n = 16	Siemens Dimension Vista
2.15 ± 0.21	3.03 ± 0.25	3.18 ± 0.43	4.09 ± 0.24	4.57 ± 0.42	n = 11	Siemens Immulite 2000
2.10 ± 0.18	3.61 ± 0.54	3.24 ± 0.60	5.65 ± 1.24	5.54 ± 1.14	n = 10	Mean of Above Means
						<Reagents>
1.86 ± 0.14	3.29 ± 0.12	2.86 ± 0.19	5.01 ± 0.24	5.14 ± 0.33	n = 12	Abbott
2.02 ± 0.27	3.21 ± 0.22	2.74 ± 0.17	4.70 ± 0.36	4.51 ± 0.32	n = 21	Beckman Coulter
2.25 ± 0.05	6.72 ± 0.40	3.95 ± 0.30	11.02 ± 0.52	7.60 ± 0.40	n = 6	Ortho Clinical Diagnostics
2.15 ± 0.10	4.32 ± 0.23	3.70 ± 0.12	6.91 ± 0.25	6.59 ± 0.21	n = 21	Roche Elecsys/Modular E/e601/e411
2.39 ± 0.10	3.63 ± 0.12	3.31 ± 0.11	5.44 ± 0.17	5.30 ± 0.13	n = 49	Siemens ADVIA/ADVIA Centaur
1.79 ± 0.44	3.53 ± 0.05	2.24 ± 0.83	5.75 ± 0.36	5.03 ± 0.31	n = 3	Siemens Dimension
1.39 ± 0.11	3.42 ± 0.17	1.80 ± 0.40	5.84 ± 0.34	4.72 ± 0.26	n = 15	Siemens Dimension LOCI
2.14 ± 0.21	2.95 ± 0.37	3.12 ± 0.47	4.06 ± 0.27	4.50 ± 0.47	n = 12	Siemens Immulite
2.03 ± 0.29	3.42 ± 0.36	2.99 ± 0.71	5.37 ± 0.88	5.21 ± 0.95	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
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0.44 $\pm$ 0.05	1.51 $\pm$ 0.19	1.63 $\pm$ 0.23	3.72 $\pm$ 0.42	2.10 $\pm$ 0.25	n = 296	All Methods & Instruments
0.42	1.50	1.60	3.70	2.10	n = 296	Median value, All Methods & Instruments
<Instruments>						
0.40 $\pm$ 0.01	1.29 $\pm$ 0.08	1.46 $\pm$ 0.09	3.24 $\pm$ 0.25	1.84 $\pm$ 0.13	n = 21	Abbott Architect i System
0.40 $\pm$ 0.00	1.36 $\pm$ 0.09	1.43 $\pm$ 0.10	3.28 $\pm$ 0.21	1.87 $\pm$ 0.12	n = 26	Beckman Coulter ACCESS
0.40 $\pm$ 0.01	1.29 $\pm$ 0.08	1.40 $\pm$ 0.08	3.13 $\pm$ 0.16	1.81 $\pm$ 0.12	n = 15	Beckman Coulter UniCel DxI 800
0.40 $\pm$ 0.00	1.37 $\pm$ 0.05	1.40 $\pm$ 0.09	3.12 $\pm$ 0.24	1.80 $\pm$ 0.09	n = 3	bioMerieux Vidas
0.40 $\pm$ 0.01	1.45 $\pm$ 0.06	1.60 $\pm$ 0.06	4.36 $\pm$ 0.17	2.17 $\pm$ 0.10	n = 18	Ortho Vitros 5600
0.39 $\pm$ 0.02	1.42 $\pm$ 0.05	1.56 $\pm$ 0.05	4.32 $\pm$ 0.16	2.16 $\pm$ 0.06	n = 6	Ortho Vitros Eci/ECiQ
0.51 $\pm$ 0.02	1.66 $\pm$ 0.10	1.85 $\pm$ 0.11	3.79 $\pm$ 0.17	2.27 $\pm$ 0.11	n = 7	Roche cobas e411
0.50 $\pm$ 0.01	1.67 $\pm$ 0.05	1.85 $\pm$ 0.05	3.76 $\pm$ 0.10	2.28 $\pm$ 0.06	n = 17	Roche cobas e601
0.50 $\pm$ 0.00	1.65 $\pm$ 0.06	1.85 $\pm$ 0.06	3.73 $\pm$ 0.13	2.23 $\pm$ 0.09	n = 6	Roche cobas e602
0.50 $\pm$ 0.00	1.68 $\pm$ 0.04	1.84 $\pm$ 0.05	3.88 $\pm$ 0.27	2.27 $\pm$ 0.05	n = 5	Roche Elecsys
0.50 $\pm$ 0.00	1.68 $\pm$ 0.04	1.84 $\pm$ 0.05	3.82 $\pm$ 0.10	2.28 $\pm$ 0.07	n = 15	Roche MODULAR E
0.42 $\pm$ 0.03	1.47 $\pm$ 0.08	1.57 $\pm$ 0.11	3.70 $\pm$ 0.14	2.03 $\pm$ 0.14	n = 64	Siemens ADVIA Centaur
0.50 $\pm$ 0.01	1.83 $\pm$ 0.11	1.97 $\pm$ 0.16	4.27 $\pm$ 0.22	2.48 $\pm$ 0.13	n = 20	Siemens Dimension EXL
0.38 $\pm$ 0.02	1.39 $\pm$ 0.10	1.51 $\pm$ 0.09	3.42 $\pm$ 0.27	1.94 $\pm$ 0.17	n = 4	Siemens Dimension RxL
0.44 $\pm$ 0.03	1.74 $\pm$ 0.07	1.87 $\pm$ 0.09	4.05 $\pm$ 0.18	2.32 $\pm$ 0.10	n = 37	Siemens Dimension Vista
0.40 $\pm$ 0.00	1.32 $\pm$ 0.09	1.51 $\pm$ 0.07	3.47 $\pm$ 0.14	1.89 $\pm$ 0.09	n = 3	Siemens Dimension Xpand
0.49 $\pm$ 0.02	1.40 $\pm$ 0.06	1.44 $\pm$ 0.07	3.49 $\pm$ 0.27	1.91 $\pm$ 0.17	n = 5	Siemens Immulite 1000
0.46 $\pm$ 0.04	1.42 $\pm$ 0.07	1.44 $\pm$ 0.09	3.45 $\pm$ 0.22	1.93 $\pm$ 0.13	n = 18	Siemens Immulite 2000
0.50 $\pm$ 0.01	1.60 $\pm$ 0.00	1.81 $\pm$ 0.10	4.03 $\pm$ 0.05	2.23 $\pm$ 0.05	n = 3	Tosoh Bioscience
0.45 $\pm$ 0.06	1.50 $\pm$ 0.18	1.64 $\pm$ 0.22	3.69 $\pm$ 0.40	2.09 $\pm$ 0.22	n = 19	Mean of Above Means
<Reagents>						
0.40 $\pm$ 0.01	1.29 $\pm$ 0.08	1.46 $\pm$ 0.09	3.24 $\pm$ 0.25	1.84 $\pm$ 0.13	n = 21	Abbott
0.40 $\pm$ 0.00	1.33 $\pm$ 0.09	1.41 $\pm$ 0.09	3.22 $\pm$ 0.21	1.84 $\pm$ 0.12	n = 43	Beckman Coulter
0.40 $\pm$ 0.00	1.37 $\pm$ 0.05	1.40 $\pm$ 0.09	3.12 $\pm$ 0.24	1.80 $\pm$ 0.09	n = 3	bioMerieux Vitek
0.39 $\pm$ 0.02	1.44 $\pm$ 0.06	1.58 $\pm$ 0.06	4.35 $\pm$ 0.16	2.17 $\pm$ 0.09	n = 24	Ortho Clinical Diagnostics
0.50 $\pm$ 0.00	1.67 $\pm$ 0.06	1.84 $\pm$ 0.05	3.78 $\pm$ 0.12	2.27 $\pm$ 0.07	n = 50	Roche Elecsys/Modular E/e601/e411
0.43 $\pm$ 0.04	1.50 $\pm$ 0.10	1.62 $\pm$ 0.13	3.68 $\pm$ 0.15	2.08 $\pm$ 0.16	n = 38	Siemens ADVIA/ADVIA Centaur
0.40 $\pm$ 0.04	1.42 $\pm$ 0.18	1.54 $\pm$ 0.16	3.52 $\pm$ 0.37	1.96 $\pm$ 0.24	n = 10	Siemens Dimension
0.46 $\pm$ 0.04	1.77 $\pm$ 0.09	1.90 $\pm$ 0.11	4.12 $\pm$ 0.22	2.37 $\pm$ 0.13	n = 54	Siemens Dimension LOCI
0.47 $\pm$ 0.04	1.42 $\pm$ 0.07	1.44 $\pm$ 0.08	3.45 $\pm$ 0.23	1.93 $\pm$ 0.14	n = 23	Siemens Immulite
0.41 $\pm$ 0.02	1.45 $\pm$ 0.05	1.53 $\pm$ 0.05	3.73 $\pm$ 0.13	1.98 $\pm$ 0.08	n = 27	Siemens TSH-3
0.42 $\pm$ 0.04	1.44 $\pm$ 0.13	1.55 $\pm$ 0.16	3.59 $\pm$ 0.39	2.01 $\pm$ 0.19	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Vitamin B12 (pg/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
485.1 ± 62.84	497.1 ± 72.38	446.8 ± 66.32	414.6 ± 63.12	439.4 ± 65.13	n = 228	All Methods & Instruments
477.0	497.0	445.5	413.0	438.0	n = 228	Median value, All Methods & Instruments
<Instruments>						
537.4 ± 45.60	534.9 ± 23.96	487.6 ± 31.31	449.4 ± 19.54	476.4 ± 22.11	n = 13	Abbott Architect i System
448.9 ± 33.77	474.9 ± 31.80	431.5 ± 30.57	388.9 ± 26.80	421.1 ± 21.14	n = 20	Beckman Coulter ACCESS
413.0 ± 19.21	399.0 ± 17.13	350.7 ± 20.30	334.4 ± 15.36	362.7 ± 2.26	n = 3	Beckman Coulter UniCel DxI 600
414.8 ± 38.44	420.4 ± 30.80	378.0 ± 25.89	346.3 ± 29.16	360.0 ± 28.75	n = 18	Beckman Coulter UniCel DxI 800
506.7 ± 35.42	540.3 ± 29.33	466.4 ± 18.25	431.6 ± 14.43	449.4 ± 22.36	n = 14	Ortho Vitros 5600
543.8 ± 20.48	547.6 ± 31.44	492.2 ± 5.19	439.9 ± 14.90	462.7 ± 22.80	n = 6	Ortho Vitros Eci/ECiQ
540.2 ± 13.63	513.5 ± 71.24	507.4 ± 25.20	456.8 ± 69.51	513.9 ± 36.92	n = 4	Roche cobas e411
572.4 ± 8.32	590.1 ± 24.82	533.7 ± 18.12	499.5 ± 20.54	526.0 ± 17.65	n = 14	Roche cobas e601
575.8 ± 17.92	584.8 ± 27.59	533.1 ± 19.37	512.2 ± 20.34	532.1 ± 15.43	n = 3	Roche cobas e602
582.0 ± 17.19	598.2 ± 18.65	540.8 ± 20.57	506.1 ± 16.81	532.3 ± 20.37	n = 14	Roche MODULAR E
459.1 ± 35.43	470.0 ± 36.23	427.7 ± 31.24	401.5 ± 34.82	423.7 ± 33.32	n = 73	Siemens ADVIA Centaur
482.8 ± 15.84	497.8 ± 21.95	446.8 ± 13.66	421.7 ± 13.40	445.9 ± 18.19	n = 5	Siemens ADVIA Centaur CP
448.7 ± 18.14	406.1 ± 14.62	338.1 ± 14.65	310.9 ± 21.16	332.7 ± 18.24	n = 19	Siemens Dimension Vista
505.9 ± 19.00	581.6 ± 31.85	509.4 ± 25.49	463.9 ± 30.81	484.9 ± 16.74	n = 4	Siemens Immulite 1000
505.0 ± 29.21	564.0 ± 30.16	482.6 ± 31.97	441.4 ± 35.10	476.7 ± 26.54	n = 15	Siemens Immulite 2000
503.6 ± 58.94	519.6 ± 69.86	468.0 ± 65.19	430.8 ± 61.35	457.9 ± 64.25	n = 15	Mean of Above Means
<Reagents>						
537.4 ± 45.60	534.9 ± 23.96	487.6 ± 31.31	449.4 ± 19.54	476.4 ± 22.11	n = 13	Abbott
431.3 ± 39.11	443.8 ± 43.71	399.8 ± 42.44	366.1 ± 36.60	390.5 ± 44.70	n = 41	Beckman Coulter
519.3 ± 38.92	542.4 ± 30.28	472.5 ± 20.44	433.9 ± 15.12	453.2 ± 22.98	n = 20	Ortho Clinical Diagnostics
573.9 ± 20.60	590.4 ± 31.50	534.5 ± 21.92	502.3 ± 25.65	529.4 ± 21.34	n = 36	Roche Elecsys/Modular E/e601/e411
461.2 ± 35.11	472.3 ± 36.38	429.4 ± 30.71	403.3 ± 34.12	425.5 ± 32.95	n = 78	Siemens ADVIA/ADVIA Centaur
449.1 ± 18.82	407.0 ± 14.82	338.8 ± 14.84	311.9 ± 21.82	333.6 ± 18.67	n = 18	Siemens Dimension LOCI
504.9 ± 26.73	567.7 ± 31.05	488.9 ± 32.85	446.7 ± 35.10	478.7 ± 24.79	n = 19	Siemens Immulite
496.1 ± 51.98	511.1 ± 68.87	454.9 ± 63.11	419.9 ± 59.55	444.6 ± 61.90	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Folic Acid (ng/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
8.75 ± 2.52	7.47 ± 0.80	6.79 ± 0.66	10.25 ± 2.30	15.30 ± 3.24	n = 220	All Methods & Instruments
8.80	7.30	6.70	10.10	15.30	n = 220	Median value, All Methods & Instruments
<Instruments>						
8.68 ± 0.78	7.35 ± 0.58	6.83 ± 0.53	12.74 ± 0.70	19.12 ± 0.72	n = 13	Abbott Architect i System
7.86 ± 0.49	7.25 ± 0.38	7.03 ± 0.46	12.20 ± 0.65	17.57 ± 0.57	n = 19	Beckman Coulter ACCESS
8.46 ± 0.55	7.84 ± 0.50	7.16 ± 0.35	12.66 ± 0.55	17.20 ± 0.72	n = 18	Beckman Coulter UniCel DxI 800
6.84 ± 0.50	6.82 ± 0.46	6.26 ± 0.56	12.23 ± 1.10	18.15 ± 1.49	n = 14	Ortho Vitros 5600
5.89 ± 0.61	5.93 ± 0.65	5.88 ± 0.48	11.69 ± 1.20	17.38 ± 1.09	n = 6	Ortho Vitros ECI/ECiQ
9.10 ± 0.91	7.95 ± 0.63	6.86 ± 0.84	10.57 ± 0.69	14.16 ± 0.90	n = 3	Roche cobas e411
8.42 ± 0.73	7.19 ± 0.43	6.70 ± 0.42	9.86 ± 0.49	13.45 ± 0.53	n = 14	Roche cobas e601
9.38 ± 0.78	7.94 ± 0.73	7.14 ± 0.90	10.18 ± 0.87	13.76 ± 0.93	n = 3	Roche cobas e602
8.86 ± 0.43	7.62 ± 0.51	6.89 ± 0.36	10.03 ± 0.56	13.59 ± 0.45	n = 13	Roche MODULAR E
11.25 ± 1.24	7.84 ± 0.86	6.80 ± 0.76	9.44 ± 0.97	15.21 ± 1.82	n = 65	Siemens ADVIA Centaur
10.30 ± 1.09	7.15 ± 0.19	7.47 ± 0.34	9.85 ± 0.36	18.33 ± 1.49	n = 3	Siemens ADVIA Centaur CP
3.92 ± 0.20	3.05 ± 0.21	2.52 ± 0.23	4.69 ± 0.31	6.73 ± 0.47	n = 28	Siemens Dimension Vista
9.57 ± 1.00	7.21 ± 0.54	6.57 ± 0.52	10.19 ± 0.67	14.93 ± 1.06	n = 16	Siemens Immulite 2000
8.60 ± 1.66	7.43 ± 0.48	6.84 ± 0.38	10.88 ± 1.40	15.93 ± 2.51	n = 13	Mean of Above Means
<Reagents>						
8.68 ± 0.78	7.35 ± 0.58	6.83 ± 0.53	12.74 ± 0.70	19.12 ± 0.72	n = 13	Abbott
8.14 ± 0.68	7.54 ± 0.58	7.09 ± 0.46	12.41 ± 0.72	17.39 ± 0.76	n = 39	Beckman Coulter
6.61 ± 0.69	6.59 ± 0.66	6.14 ± 0.56	12.08 ± 1.15	17.88 ± 1.43	n = 20	Ortho Clinical Diagnostics
8.71 ± 0.71	7.46 ± 0.60	6.76 ± 0.45	9.95 ± 0.62	13.53 ± 0.60	n = 34	Roche Elecsys/Modular E/e601/e411
11.21 ± 1.25	7.80 ± 0.85	6.84 ± 0.76	9.46 ± 0.95	15.32 ± 1.90	n = 68	Siemens ADVIA/ADVIA Centaur
3.92 ± 0.19	3.06 ± 0.19	2.52 ± 0.21	4.70 ± 0.29	6.75 ± 0.44	n = 27	Siemens Dimension LOCI
9.57 ± 1.00	7.21 ± 0.54	6.57 ± 0.52	10.19 ± 0.67	14.93 ± 1.06	n = 16	Siemens Immulite
8.34 ± 2.10	7.38 ± 0.35	6.74 ± 0.29	10.77 ± 2.16	15.86 ± 3.12	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Cortisol (µg/dL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
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2.44 ± 0.31	7.18 ± 0.97	8.70 ± 1.12	11.62 ± 1.62	20.31 ± 2.56	n = 155	All Methods & Instruments
2.40	7.12	8.60	11.60	20.60	n = 155	Median value, All Methods & Instruments
						<Instruments>
2.43 ± 0.22	6.18 ± 0.34	7.59 ± 0.33	9.91 ± 0.39	16.68 ± 0.65	n = 10	Abbott Architect i System
2.42 ± 0.29	6.90 ± 0.16	8.53 ± 0.43	11.18 ± 0.72	19.40 ± 1.26	n = 8	Beckman Coulter ACCESS
3.03 ± 1.52	5.45 ± 2.28	7.33 ± 0.13	10.29 ± 0.46	16.49 ± 0.85	n = 3	Beckman Coulter UniCel DxI 600
2.59 ± 0.23	6.80 ± 0.64	8.13 ± 0.63	11.10 ± 0.87	17.90 ± 1.19	n = 15	Beckman Coulter UniCel DxI 800
3.05 ± 0.28	8.12 ± 0.60	9.60 ± 0.50	12.46 ± 1.00	22.35 ± 0.73	n = 4	LC/MS/MS
1.92 ± 0.07	5.80 ± 0.23	6.84 ± 0.27	9.00 ± 0.17	15.74 ± 0.56	n = 9	Ortho Vitros 5600
2.17 ± 0.20	6.41 ± 0.43	8.56 ± 0.58	10.53 ± 0.67	19.79 ± 1.12	n = 8	Roche cobas e601
2.33 ± 0.05	6.83 ± 0.14	8.85 ± 0.27	10.75 ± 0.19	20.55 ± 0.54	n = 3	Roche cobas e602
2.21 ± 0.13	6.65 ± 0.30	8.44 ± 0.32	10.72 ± 0.41	20.27 ± 0.63	n = 10	Roche MODULAR E
2.54 ± 0.20	7.60 ± 0.50	8.94 ± 0.55	12.42 ± 0.87	21.49 ± 1.29	n = 53	Siemens ADVIA Centaur
2.72 ± 0.24	7.94 ± 0.56	9.57 ± 0.60	12.44 ± 0.90	21.60 ± 0.29	n = 3	Siemens ADVIA Centaur CP
2.53 ± 0.27	8.49 ± 0.68	10.58 ± 0.71	13.69 ± 1.00	22.65 ± 1.44	n = 17	Siemens Immulite 2000
2.49 ± 0.32	6.91 ± 0.96	8.56 ± 1.02	11.15 ± 1.30	19.69 ± 2.45	n = 12	Mean of Above Means
						<Reagents>
2.43 ± 0.22	6.18 ± 0.34	7.59 ± 0.33	9.91 ± 0.39	16.68 ± 0.65	n = 10	Abbott
2.50 ± 0.28	6.80 ± 0.53	8.13 ± 0.72	11.01 ± 0.84	18.21 ± 1.61	n = 26	Beckman Coulter
2.89 ± 0.45	7.77 ± 0.95	9.35 ± 0.89	12.00 ± 1.33	21.81 ± 1.39	n = 6	In-House
1.92 ± 0.09	5.82 ± 0.23	6.91 ± 0.32	9.01 ± 0.19	15.63 ± 0.58	n = 11	Ortho Clinical Diagnostics
2.23 ± 0.17	6.60 ± 0.38	8.55 ± 0.46	10.68 ± 0.52	20.19 ± 0.88	n = 25	Roche Elecsys/Modular E/e601/e411
2.55 ± 0.21	7.62 ± 0.51	8.97 ± 0.57	12.42 ± 0.87	21.50 ± 1.24	n = 56	Siemens ADVIA/ADVIA Centaur
2.54 ± 0.26	8.49 ± 0.72	10.69 ± 0.75	13.74 ± 0.95	22.65 ± 1.35	n = 19	Siemens Immulite
2.45 ± 0.27	7.01 ± 0.95	8.54 ± 1.18	11.22 ± 1.57	19.63 ± 2.76	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
25.39 $\pm$ 5.02	253.66 $\pm$ 62.64	105.89 $\pm$ 39.07	106.66 $\pm$ 39.16	358.81 $\pm$ 78.64	n = 101	All Methods & Instruments
25.40	251.00	102.60	104.00	354.60	n = 101	Median value, All Methods & Instruments
						<Instruments>
22.91 $\pm$ 0.59	225.14 $\pm$ 5.99	91.68 $\pm$ 1.38	93.30 $\pm$ 1.31	340.72 $\pm$ 27.70	n = 7	Abbott Architect i System
21.65 $\pm$ 1.27	234.75 $\pm$ 15.57	95.13 $\pm$ 5.94	93.45 $\pm$ 6.44	312.92 $\pm$ 25.16	n = 4	Beckman Coulter ACCESS
61.65 $\pm$ 75.58	167.54 $\pm$ 105.12	94.85 $\pm$ 1.92	89.04 $\pm$ 1.76	329.27 $\pm$ 21.18	n = 3	Beckman Coulter UniCel DxI 600
21.64 $\pm$ 1.27	229.47 $\pm$ 13.20	94.10 $\pm$ 5.15	87.85 $\pm$ 3.29	323.91 $\pm$ 27.34	n = 7	Beckman Coulter UniCel DxI 800
26.08 $\pm$ 1.98	276.79 $\pm$ 18.08	114.46 $\pm$ 8.38	116.44 $\pm$ 8.01	403.30 $\pm$ 28.37	n = 7	Roche cobas e601
27.19 $\pm$ 0.31	281.65 $\pm$ 2.96	117.04 $\pm$ 1.08	118.42 $\pm$ 2.29	407.25 $\pm$ 7.11	n = 5	Roche cobas e602
26.11 $\pm$ 0.61	275.16 $\pm$ 4.48	113.71 $\pm$ 2.48	115.83 $\pm$ 1.63	398.98 $\pm$ 8.87	n = 9	Roche MODULAR E
33.01 $\pm$ 2.08	332.61 $\pm$ 35.30	161.37 $\pm$ 8.52	162.41 $\pm$ 9.23	446.49 $\pm$ 92.02	n = 23	Siemens ADVIA Centaur
22.44 $\pm$ 0.88	201.70 $\pm$ 9.53	66.06 $\pm$ 1.11	67.53 $\pm$ 2.40	300.00 $\pm$ 0.00	n = 3	Siemens Immulite 1000
21.21 $\pm$ 1.54	183.57 $\pm$ 12.47	61.06 $\pm$ 4.19	62.77 $\pm$ 2.69	289.08 $\pm$ 13.66	n = 24	Siemens Immulite 2000
24.04 $\pm$ 3.29	239.31 $\pm$ 50.56	98.65 $\pm$ 25.26	97.81 $\pm$ 26.17	352.36 $\pm$ 55.81	n = 10	Mean of Above Means
						<Reagents>
22.91 $\pm$ 0.59	225.14 $\pm$ 5.99	91.68 $\pm$ 1.38	93.30 $\pm$ 1.31	340.72 $\pm$ 27.70	n = 7	Abbott
21.24 $\pm$ 1.21	231.39 $\pm$ 14.88	94.34 $\pm$ 4.93	88.99 $\pm$ 4.50	324.28 $\pm$ 26.83	n = 13	Beckman Coulter
26.74 $\pm$ 1.21	280.24 $\pm$ 12.75	115.78 $\pm$ 5.37	118.02 $\pm$ 5.43	406.30 $\pm$ 19.03	n = 25	Roche Elecsys/Modular E/e601/e411
33.06 $\pm$ 2.03	334.27 $\pm$ 35.36	161.61 $\pm$ 8.36	162.49 $\pm$ 8.99	448.59 $\pm$ 89.19	n = 24	Siemens ADVIA/ADVIA Centaur
21.95 $\pm$ 1.31	182.71 $\pm$ 11.87	62.29 $\pm$ 3.31	63.66 $\pm$ 2.79	294.28 $\pm$ 11.18	n = 7	Siemens Immulite
21.15 $\pm$ 1.57	186.79 $\pm$ 14.09	61.62 $\pm$ 4.87	63.33 $\pm$ 3.70	289.61 $\pm$ 13.59	n = 20	Siemens Immulite-Insulin lot# > 400
23.56 $\pm$ 3.86	235.09 $\pm$ 55.55	94.09 $\pm$ 34.58	94.11 $\pm$ 34.54	345.46 $\pm$ 62.38	n = 6	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free Estriol (ng/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
0.46 ± 0.08	0.08 ± 0.04	0.08 ± 0.05	1.64 ± 0.50	1.42 ± 0.20	n = 18	All Methods & Instruments
0.50	0.10	0.10	1.40	1.40	n = 18	Median value, All Methods & Instruments
						<Instruments>
0.50 ± 0.01	0.09 ± 0.03	0.06 ± 0.05	1.38 ± 0.04	1.29 ± 0.03	n = 4	Beckman Coulter UniCel DxI 800
0.40 ± 0.01	0.10 ± 0.01	0.10 ± 0.01	2.11 ± 0.20	1.62 ± 0.12	n = 5	Siemens Immulite 2000
0.45 ± 0.06	0.09 ± 0.00	0.08 ± 0.02	1.74 ± 0.41	1.45 ± 0.19	n = 2	Mean of Above Means
						<Reagents>
0.50 ± 0.01	0.07 ± 0.04	0.06 ± 0.05	1.38 ± 0.04	1.32 ± 0.06	n = 8	Beckman Coulter
1.29 ± 0.35	0.18 ± 0.24	0.11 ± 0.08	3.65 ± 2.03	3.41 ± 1.86	n = 3	In-House
0.40 ± 0.06	0.09 ± 0.02	0.09 ± 0.02	2.05 ± 0.22	1.62 ± 0.11	n = 6	Siemens Immulite
0.68 ± 0.44	0.11 ± 0.05	0.08 ± 0.02	2.29 ± 1.05	2.02 ± 1.01	n = 3	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Estradiol (pg/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
35.6 ± 9.48	23.5 ± 8.40	38.7 ± 7.99	128.5 ± 20.57	171.3 ± 19.19	n = 166	All Methods & Instruments
35.0	22.5	38.5	127.0	170.0	n = 166	Median value, All Methods & Instruments
<Instruments>						
38.3 ± 5.56	32.9 ± 5.86	46.6 ± 4.82	101.5 ± 7.97	152.5 ± 5.50	n = 11	Abbott Architect i System
27.4 ± 4.98	21.5 ± 5.94	39.6 ± 1.34	141.0 ± 14.57	186.5 ± 18.16	n = 6	Beckman Coulter ACCESS
25.1 ± 12.96	22.3 ± 10.56	40.5 ± 4.61	137.3 ± 9.49	169.3 ± 9.73	n = 3	Beckman Coulter UniCel DxI 600
32.2 ± 9.95	24.4 ± 8.96	36.9 ± 13.44	151.4 ± 12.11	175.7 ± 21.23	n = 9	Beckman Coulter UniCel DxI 800
31.5 ± 2.74	12.1 ± 3.72	40.0 ± 16.37	99.9 ± 46.87	153.3 ± 86.31	n = 3	LC/MS/MS
24.8 ± 2.81	31.4 ± 1.64	38.5 ± 2.75	129.8 ± 10.35	145.5 ± 6.60	n = 6	Ortho Vitros 5600
47.9 ± 6.81	26.8 ± 5.75	35.7 ± 5.34	138.7 ± 10.45	175.7 ± 14.98	n = 6	Roche cobas e411
48.4 ± 2.46	30.4 ± 2.89	39.0 ± 1.88	134.6 ± 3.68	170.3 ± 5.19	n = 8	Roche cobas e601
53.1 ± 5.62	29.9 ± 5.54	42.0 ± 5.41	138.8 ± 11.55	177.2 ± 11.31	n = 5	Roche cobas e602
52.3 ± 4.72	32.5 ± 2.79	41.4 ± 3.37	140.4 ± 3.69	178.5 ± 5.02	n = 8	Roche MODULAR E
35.4 ± 4.85	17.7 ± 4.13	36.2 ± 5.49	117.6 ± 5.56	167.7 ± 6.85	n = 47	Siemens ADVIA Centaur
32.4 ± 2.86	15.3 ± 0.50	30.7 ± 4.02	124.4 ± 8.39	179.7 ± 14.93	n = 5	Siemens ADVIA Centaur CP
23.1 ± 8.57	11.0 ± 0.00	11.0 ± 0.00	71.5 ± 6.27	117.3 ± 7.92	n = 7	Siemens Dimension Vista
32.5 ± 7.29	22.9 ± 4.56	38.1 ± 11.04	153.4 ± 15.70	199.2 ± 23.67	n = 7	Siemens Immulite 1000
33.8 ± 5.69	27.3 ± 5.99	43.2 ± 6.63	145.4 ± 12.95	185.8 ± 14.62	n = 26	Siemens Immulite 2000
35.0 ± 10.20	24.4 ± 7.44	39.3 ± 3.38	133.0 ± 18.17	172.1 ± 16.39	n = 15	Mean of Above Means
<Reagents>						
38.3 ± 5.56	32.9 ± 5.86	46.6 ± 4.82	101.5 ± 7.97	152.5 ± 5.50	n = 11	Abbott
29.1 ± 9.61	22.9 ± 8.15	38.2 ± 9.11	145.0 ± 14.51	178.5 ± 18.84	n = 18	Beckman Coulter
26.8 ± 12.75	9.9 ± 5.50	31.2 ± 23.13	74.0 ± 59.79	111.3 ± 102.90	n = 4	In-House
24.5 ± 2.62	30.6 ± 2.42	38.5 ± 2.44	128.2 ± 10.05	143.9 ± 7.23	n = 7	Ortho Clinical Diagnostics
50.0 ± 5.36	30.0 ± 4.43	39.4 ± 4.34	137.0 ± 7.20	174.2 ± 9.02	n = 29	Roche Elecsys/Modular E/e601/e411
34.9 ± 4.55	17.4 ± 4.02	35.4 ± 5.86	118.7 ± 6.59	167.4 ± 6.47	n = 39	Siemens ADVIA Centaur Enhanced Estr
35.3 ± 5.62	17.9 ± 3.66	36.5 ± 4.66	116.7 ± 4.88	170.3 ± 10.47	n = 13	Siemens ADVIA/ADVIA Centaur
21.9 ± 10.23	11.0 ± 0.00	11.0 ± 0.00	72.2 ± 5.17	118.8 ± 10.22	n = 5	Siemens Dimension LOCI
33.6 ± 6.04	26.4 ± 6.04	42.1 ± 8.25	147.0 ± 14.03	187.9 ± 17.16	n = 33	Siemens Immulite
31.9 ± 7.73	22.3 ± 8.80	38.3 ± 4.31	117.8 ± 28.02	158.5 ± 26.48	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Testosterone (ng/dL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
278.59 ± 58.11	228.34 ± 22.25	24.08 ± 7.95	430.51 ± 48.00	51.95 ± 13.22	n = 140	All Methods & Instruments
269.60	229.00	22.80	429.40	50.00	n = 140	Median value, All Methods & Instruments
315.00 ± 0.11	227.00 ± 0.75	17.10 ± 0.17	405.00 ± 1.74	48.70 ± 0.32	n = 2	[---] Results of LC_MS_MS measurement*
						<Instruments>
362.22 ± 36.00	234.87 ± 20.44	21.65 ± 0.46	432.92 ± 28.47	46.39 ± 1.70	n = 3	Abbott Architect i System
253.84 ± 13.68	221.83 ± 10.92	20.55 ± 4.03	396.76 ± 28.95	50.70 ± 7.08	n = 8	Beckman Coulter ACCESS
234.46 ± 11.55	206.83 ± 7.02	20.69 ± 4.93	367.93 ± 19.64	49.07 ± 3.46	n = 12	Beckman Coulter UniCel DxI 800
298.40 ± 16.57	233.04 ± 10.29	17.07 ± 4.34	396.08 ± 16.09	40.83 ± 7.34	n = 5	Gamma Counter
315.82 ± 18.37	226.40 ± 18.75	17.41 ± 0.50	400.09 ± 23.54	54.75 ± 6.03	n = 5	LC/MS/MS
255.57 ± 17.24	272.10 ± 15.68	24.50 ± 2.26	624.97 ± 45.38	47.94 ± 4.15	n = 4	Ortho Vitros 5600
356.62 ± 18.68	237.40 ± 11.52	18.29 ± 4.94	452.13 ± 20.10	43.34 ± 6.31	n = 8	Roche cobas e601
366.38 ± 23.32	265.30 ± 30.76	20.89 ± 4.14	479.61 ± 24.34	48.39 ± 4.07	n = 5	Roche cobas e602
375.34 ± 25.99	258.55 ± 15.86	19.81 ± 3.53	476.94 ± 22.86	45.37 ± 4.07	n = 4	Roche Elecsys
363.61 ± 20.34	244.66 ± 12.84	20.24 ± 4.02	459.25 ± 20.40	46.11 ± 4.99	n = 11	Roche MODULAR E
274.64 ± 24.36	221.64 ± 16.31	33.00 ± 4.80	432.75 ± 39.22	67.25 ± 7.02	n = 45	Siemens ADVIA Centaur
223.06 ± 19.19	236.15 ± 26.22	23.29 ± 5.08	436.24 ± 29.64	43.41 ± 5.78	n = 20	Siemens Immulite 2000
307.63 ± 60.71	237.21 ± 19.00	20.37 ± 2.31	431.46 ± 38.62	46.78 ± 3.80	n = 12	Mean of Above Means
						<Reagents>
362.22 ± 36.00	234.87 ± 20.44	21.65 ± 0.46	432.92 ± 28.47	46.39 ± 1.70	n = 3	Abbott
239.38 ± 16.27	210.51 ± 12.15	20.35 ± 4.09	374.62 ± 27.72	49.09 ± 4.12	n = 22	Beckman Coulter
315.83 ± 18.38	226.44 ± 18.77	16.96 ± 1.12	400.12 ± 23.53	52.94 ± 10.37	n = 6	In-House
255.57 ± 17.24	272.10 ± 15.68	24.50 ± 2.26	624.97 ± 45.38	47.94 ± 4.15	n = 4	Ortho Clinical Diagnostics
361.51 ± 22.60	244.28 ± 17.48	19.75 ± 4.06	460.30 ± 25.83	45.66 ± 5.25	n = 30	Roche Elecsys/Modular E/e601/e411
274.64 ± 24.36	221.64 ± 16.31	33.00 ± 4.80	432.75 ± 39.22	67.25 ± 7.02	n = 45	Siemens ADVIA/ADVIA Centaur
298.40 ± 16.57	233.04 ± 10.29	17.07 ± 4.34	396.08 ± 16.09	40.83 ± 7.34	n = 5	Siemens Coat-A-Count
220.77 ± 19.81	236.45 ± 24.39	22.75 ± 4.72	441.13 ± 36.68	42.87 ± 5.63	n = 22	Siemens Immulite
289.62 ± 54.15	232.44 ± 15.05	20.89 ± 3.78	420.61 ± 30.31	46.59 ± 4.23	n = 8	Mean of Above Means

*The analyses on these specimens were performed in duplicate measurement using the HPLC-tandem mass spectrometry reference method at Clinical Chemistry Branch (CCB), Division of Laboratory Sciences (DLS), Centers for Disease Control and Prevention, Atlanta, Georgia.

Statistical Summary (Mean and Standard Deviation)

Progesterone (ng/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
2.19 ± 0.34	0.37 ± 0.16	0.50 ± 0.13	5.46 ± 0.44	6.53 ± 0.79	n = 160	All Methods & Instruments
2.20	0.40	0.50	5.50	6.50	n = 160	Median value, All Methods & Instruments
<Instruments>						
2.75 ± 0.12	0.17 ± 0.07	0.40 ± 0.09	5.64 ± 0.17	7.14 ± 0.26	n = 8	Abbott Architect i System
2.47 ± 0.25	0.41 ± 0.10	0.54 ± 0.12	5.68 ± 0.22	6.66 ± 0.26	n = 7	Beckman Coulter ACCESS
2.51 ± 0.25	0.69 ± 0.79	0.59 ± 0.13	5.64 ± 0.25	7.15 ± 0.63	n = 4	Beckman Coulter UniCel DxI 600
2.55 ± 0.38	0.39 ± 0.12	0.50 ± 0.16	5.93 ± 0.73	6.77 ± 0.65	n = 10	Beckman Coulter UniCel DxI 800
2.42 ± 0.06	0.06 ± 0.05	0.14 ± 0.07	5.30 ± 0.53	6.47 ± 0.61	n = 5	LC/MS/MS
1.51 ± 0.12	0.84 ± 0.08	0.78 ± 0.08	4.67 ± 0.22	4.68 ± 0.25	n = 6	Ortho Vitros 5600
1.89 ± 0.18	0.50 ± 0.00	0.50 ± 0.00	5.74 ± 0.40	6.46 ± 0.45	n = 5	Roche cobas e411
1.81 ± 0.07	0.49 ± 0.04	0.45 ± 0.05	5.46 ± 0.29	6.19 ± 0.18	n = 9	Roche cobas e601
1.90 ± 0.06	0.50 ± 0.00	0.46 ± 0.06	5.75 ± 0.28	6.30 ± 0.30	n = 5	Roche cobas e602
1.87 ± 0.10	0.50 ± 0.00	0.47 ± 0.06	5.61 ± 0.10	6.29 ± 0.17	n = 9	Roche MODULAR E
2.28 ± 0.17	0.35 ± 0.13	0.55 ± 0.10	5.53 ± 0.29	7.06 ± 0.42	n = 48	Siemens ADVIA Centaur
2.31 ± 0.27	0.41 ± 0.13	0.50 ± 0.04	5.59 ± 0.18	6.82 ± 0.37	n = 5	Siemens ADVIA Centaur CP
2.10 ± 0.23	0.43 ± 0.12	0.51 ± 0.09	5.23 ± 0.17	6.02 ± 0.49	n = 7	Siemens Immulite 1000
2.16 ± 0.16	0.29 ± 0.06	0.46 ± 0.10	5.09 ± 0.39	5.70 ± 0.44	n = 27	Siemens Immulite 2000
2.19 ± 0.36	0.43 ± 0.17	0.49 ± 0.05	5.55 ± 0.26	6.52 ± 0.51	n = 14	Mean of Above Means
<Reagents>						
2.75 ± 0.12	0.17 ± 0.07	0.40 ± 0.09	5.64 ± 0.17	7.14 ± 0.26	n = 8	Abbott
2.51 ± 0.31	0.40 ± 0.10	0.53 ± 0.15	5.76 ± 0.51	6.79 ± 0.53	n = 21	Beckman Coulter
2.42 ± 0.06	0.07 ± 0.04	0.13 ± 0.06	5.30 ± 0.54	6.47 ± 0.62	n = 6	In-House
1.50 ± 0.11	0.85 ± 0.08	0.80 ± 0.08	4.62 ± 0.23	4.66 ± 0.23	n = 7	Ortho Clinical Diagnostics
1.86 ± 0.11	0.50 ± 0.00	0.47 ± 0.05	5.59 ± 0.32	6.28 ± 0.30	n = 29	Roche Elecsys/Modular E/e601/e411
2.28 ± 0.18	0.36 ± 0.13	0.54 ± 0.09	5.54 ± 0.28	7.04 ± 0.42	n = 53	Siemens ADVIA/ADVIA Centaur
2.16 ± 0.17	0.30 ± 0.07	0.47 ± 0.10	5.11 ± 0.38	5.76 ± 0.50	n = 32	Siemens Immulite Progesterone (LKPW)
2.24 ± 0.40	0.35 ± 0.22	0.49 ± 0.17	5.42 ± 0.35	6.44 ± 0.76	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

17-hydroxyprogesterone (ng/dL)

Specimen: E06 -----	Specimen: E07 -----	Specimen: E08 -----	Specimen: E09 -----	Specimen: E10 -----	Number -----	Instrument or Reagent System -----
36.96 ± 10.22 36.00	36.05 ± 9.73 36.00	28.94 ± 10.41 26.00	79.01 ± 14.98 77.40	121.65 ± 20.66 121.20	n = 11 n = 11	All Methods & Instruments Median value, All Methods & Instruments
54.57 ± 41.79	59.70 ± 46.45	46.55 ± 38.41	138.80 ± 138.98	162.45 ± 156.76	n = 3	<Instruments> Gamma Counter
39.54 ± 10.54	35.01 ± 4.75	27.77 ± 9.72	79.21 ± 8.76	130.99 ± 13.46	n = 6	LC/MS/MS
47.06 ± 8.56	47.35 ± 14.07	37.16 ± 10.71	109.01 ± 33.97	146.72 ± 17.93	n = 2	Mean of Above Means
39.54 ± 10.54	35.01 ± 4.75	27.77 ± 9.72	79.21 ± 8.76	130.99 ± 13.46	n = 6	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone (DHEA, ng/dL)

Specimen: E06 -----	Specimen: E07 -----	Specimen: E08 -----	Specimen: E09 -----	Specimen: E10 -----	Number -----	Instrument or Reagent System -----
231.8 ± 36.23 220.0	118.9 ± 38.25 106.0	306.9 ±124.19 298.0	957.4 ±552.53 990.0	443.8 ±189.89 421.0	n = 10 n = 10	All Methods & Instruments Median value, All Methods & Instruments
252.7 ±196.44 220.8 ± 33.82 236.7 ± 18.18	381.0 ±416.77 107.1 ± 27.34 244.0 ±156.13	407.0 ±231.95 282.0 ± 43.23 344.5 ± 71.24	1479.8 ±***** 1026.6 ±134.86 1253.2 ±258.34	583.9 ±348.54 395.6 ± 46.27 489.7 ±107.35	n = 3 n = 6 n = 2	<Instruments> Automated microplate processor LC/MS/MS Mean of Above Means
220.8 ± 35.68	104.2 ± 22.44	265.3 ± 68.65	1026.1 ±135.68	395.3 ± 46.94	n = 7	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone sulfate (DHEA-S, µg/dL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
54.05 ± 8.77	166.35 ± 20.23	108.60 ± 12.81	353.37 ± 38.61	122.05 ± 13.20	n = 78	All Methods & Instruments
53.40	164.00	109.30	354.00	122.00	n = 78	Median value, All Methods & Instruments
<Instruments>						
57.58 ± 2.59	158.32 ± 4.21	104.63 ± 1.81	318.82 ± 7.59	120.17 ± 2.79	n = 5	Abbott Architect i System
57.13 ± 1.48	168.07 ± 2.52	105.77 ± 3.35	348.08 ± 12.95	125.51 ± 1.07	n = 4	Beckman Coulter ACCESS
59.60 ± 2.53	168.12 ± 6.13	108.73 ± 3.46	342.19 ± 18.93	119.59 ± 3.71	n = 3	Beckman Coulter UniCel DxI 800
72.91 ± 4.71	187.09 ± 8.08	119.52 ± 7.88	384.02 ± 15.60	133.82 ± 9.17	n = 3	Roche cobas e602
69.94 ± 2.52	184.09 ± 7.62	119.52 ± 4.62	384.93 ± 14.69	133.29 ± 7.47	n = 7	Roche MODULAR E
49.60 ± 3.80	115.94 ± 6.55	74.57 ± 5.13	240.69 ± 17.34	86.85 ± 5.75	n = 5	Siemens ADVIA Centaur
52.50 ± 1.82	186.13 ± 16.45	118.87 ± 12.42	376.12 ± 37.55	131.52 ± 8.19	n = 3	Siemens Immulite 1000
49.48 ± 5.23	164.11 ± 18.19	108.94 ± 11.21	357.67 ± 32.63	120.20 ± 11.20	n = 40	Siemens Immulite 2000
57.82 ± 8.62	172.42 ± 14.91	111.99 ± 7.50	357.46 ± 29.73	126.15 ± 6.96	n = 8	Mean of Above Means
<Reagents>						
57.58 ± 2.59	158.32 ± 4.21	104.63 ± 1.81	318.82 ± 7.59	120.17 ± 2.79	n = 5	Abbott
57.73 ± 2.10	168.21 ± 4.14	105.96 ± 5.23	340.99 ± 19.00	122.29 ± 4.67	n = 8	Beckman Coulter
70.04 ± 5.61	183.52 ± 11.08	118.82 ± 7.82	383.27 ± 16.07	133.19 ± 9.49	n = 14	Roche Elecsys/Modular E/e601/e411
49.60 ± 3.80	115.94 ± 6.55	74.57 ± 5.13	240.69 ± 17.34	86.85 ± 5.75	n = 5	Siemens ADVIA/ADVIA Centaur
49.75 ± 5.09	165.57 ± 18.81	109.52 ± 11.42	358.73 ± 32.91	121.00 ± 11.40	n = 43	Siemens Immulite
56.10 ± 7.64	162.54 ± 21.15	105.84 ± 13.41	335.33 ± 48.34	120.57 ± 13.24	n = 5	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Lutropin (LH, mIU/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
2.80 ± 0.57	3.30 ± 0.57	13.54 ± 2.32	9.17 ± 1.26	102.13 ± 13.71	n = 192	All Methods & Instruments
2.70	3.22	13.40	9.13	102.20	n = 192	Median value, All Methods & Instruments
<Instruments>						
2.32 ± 0.16	2.92 ± 0.18	10.95 ± 0.49	8.21 ± 0.42	84.18 ± 5.25	n = 13	Abbott Architect i System
2.18 ± 0.08	2.84 ± 0.13	11.10 ± 0.44	7.36 ± 0.25	84.65 ± 3.99	n = 8	Beckman Coulter ACCESS
2.11 ± 0.07	2.61 ± 0.26	10.72 ± 0.31	7.09 ± 0.16	80.27 ± 4.89	n = 3	Beckman Coulter UniCel DxI 600
2.30 ± 0.13	2.93 ± 0.24	11.11 ± 0.64	7.32 ± 0.41	81.54 ± 4.05	n = 15	Beckman Coulter UniCel DxI 800
2.54 ± 0.26	2.54 ± 0.14	13.14 ± 0.80	9.29 ± 0.67	126.66 ± 6.49	n = 11	Ortho Vitros 5600
3.34 ± 0.06	4.36 ± 0.11	15.15 ± 0.37	10.79 ± 0.24	103.42 ± 3.65	n = 5	Roche cobas e411
3.39 ± 0.06	4.30 ± 0.06	15.16 ± 0.24	10.55 ± 0.18	100.55 ± 1.70	n = 12	Roche cobas e601
3.36 ± 0.11	4.14 ± 0.11	14.57 ± 0.65	10.31 ± 0.30	97.88 ± 3.51	n = 5	Roche cobas e602
3.47 ± 0.14	4.33 ± 0.14	15.12 ± 0.86	10.64 ± 0.74	101.55 ± 8.85	n = 3	Roche Elecsys
3.40 ± 0.00	4.30 ± 0.14	15.14 ± 0.25	10.53 ± 0.26	100.90 ± 1.76	n = 9	Roche MODULAR E
2.46 ± 0.17	3.14 ± 0.22	12.60 ± 0.83	8.78 ± 0.51	106.39 ± 5.91	n = 55	Siemens ADVIA Centaur
2.92 ± 0.13	3.55 ± 0.17	13.57 ± 0.49	9.33 ± 0.43	111.73 ± 7.58	n = 4	Siemens ADVIA Centaur CP
3.10 ± 0.08	3.73 ± 0.08	14.36 ± 0.34	12.03 ± 0.28	129.29 ± 2.38	n = 9	Siemens Dimension Vista
3.46 ± 0.16	3.35 ± 0.12	17.80 ± 0.77	9.77 ± 0.61	105.71 ± 6.15	n = 6	Siemens Immulite 1000
3.47 ± 0.25	3.39 ± 0.24	17.00 ± 0.78	9.51 ± 0.69	100.82 ± 7.78	n = 28	Siemens Immulite 2000
2.95 ± 0.58	3.49 ± 0.70	13.83 ± 2.27	9.48 ± 1.48	100.36 ± 14.27	n = 15	Mean of Above Means
<Reagents>						
2.32 ± 0.16	2.92 ± 0.18	10.95 ± 0.49	8.21 ± 0.42	84.18 ± 5.25	n = 13	Abbott
2.23 ± 0.14	2.86 ± 0.22	11.05 ± 0.56	7.29 ± 0.35	82.38 ± 4.43	n = 26	Beckman Coulter
2.58 ± 0.28	2.56 ± 0.14	13.17 ± 0.75	9.32 ± 0.64	126.78 ± 6.12	n = 12	Ortho Clinical Diagnostics
3.39 ± 0.08	4.29 ± 0.12	15.13 ± 0.37	10.56 ± 0.32	101.03 ± 3.16	n = 34	Roche Elecsys/Modular E/e601/e411
2.48 ± 0.19	3.17 ± 0.24	12.67 ± 0.85	8.81 ± 0.53	106.70 ± 6.19	n = 59	Siemens ADVIA/ADVIA Centaur
3.10 ± 0.09	3.71 ± 0.08	14.36 ± 0.37	12.04 ± 0.30	128.99 ± 2.61	n = 8	Siemens Dimension LOCI
3.47 ± 0.22	3.38 ± 0.22	17.14 ± 0.85	9.56 ± 0.68	101.75 ± 7.77	n = 34	Siemens Immulite
2.77 ± 0.53	3.22 ± 0.56	13.39 ± 2.19	9.31 ± 1.48	104.09 ± 18.43	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Follitropin (FSH, mIU/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
22.07 ± 2.36	5.89 ± 0.88	28.62 ± 3.46	21.99 ± 4.41	115.30 ± 21.43	n = 197	All Methods & Instruments
22.30	5.90	28.60	20.90	108.70	n = 197	Median value, All Methods & Instruments
<Instruments>						
18.93 ± 0.79	5.51 ± 0.25	27.54 ± 1.44	18.30 ± 0.77	98.64 ± 5.12	n = 13	Abbott Architect i System
22.60 ± 1.52	6.82 ± 0.49	32.39 ± 1.46	21.83 ± 0.98	111.07 ± 3.77	n = 8	Beckman Coulter ACCESS
22.14 ± 0.60	12.14 ± 9.12	33.39 ± 1.28	22.45 ± 1.43	112.97 ± 5.52	n = 3	Beckman Coulter UniCel DxI 600
22.46 ± 1.29	7.01 ± 0.50	33.96 ± 2.25	21.94 ± 1.43	108.97 ± 4.95	n = 15	Beckman Coulter UniCel DxI 800
18.66 ± 0.71	5.08 ± 0.28	26.27 ± 1.06	18.91 ± 0.83	101.62 ± 3.79	n = 11	Ortho Vitros 5600
22.72 ± 0.85	6.64 ± 0.26	32.63 ± 1.38	23.23 ± 0.95	119.73 ± 6.77	n = 5	Roche cobas e411
20.00 ± 0.87	5.83 ± 0.28	29.04 ± 1.04	20.16 ± 1.11	106.54 ± 4.50	n = 12	Roche cobas e601
20.05 ± 0.58	5.90 ± 0.15	29.21 ± 1.12	20.29 ± 0.64	105.88 ± 3.04	n = 5	Roche cobas e602
21.33 ± 1.05	6.20 ± 0.36	30.76 ± 1.48	21.85 ± 1.28	113.08 ± 6.53	n = 3	Roche Elecsys
19.72 ± 0.74	5.79 ± 0.20	28.34 ± 0.41	19.86 ± 0.76	104.69 ± 4.14	n = 9	Roche MODULAR E
23.98 ± 0.92	6.21 ± 0.33	28.92 ± 1.27	27.09 ± 1.14	142.98 ± 7.47	n = 61	Siemens ADVIA Centaur
23.20 ± 1.19	5.69 ± 0.20	27.50 ± 0.42	26.72 ± 0.70	135.87 ± 16.63	n = 4	Siemens ADVIA Centaur CP
19.47 ± 0.51	6.00 ± 0.17	30.97 ± 0.87	20.32 ± 0.61	104.58 ± 3.39	n = 9	Siemens Dimension Vista
21.45 ± 1.19	4.27 ± 0.33	21.63 ± 1.17	16.37 ± 0.87	94.28 ± 4.68	n = 6	Siemens Immulite 1000
22.61 ± 1.31	4.50 ± 0.28	23.28 ± 1.29	17.28 ± 1.05	97.81 ± 7.16	n = 27	Siemens Immulite 2000
21.32 ± 1.78	5.87 ± 0.77	29.33 ± 3.43	20.87 ± 2.89	107.32 ± 9.83	n = 15	Mean of Above Means
<Reagents>						
18.93 ± 0.79	5.51 ± 0.25	27.54 ± 1.44	18.30 ± 0.77	98.64 ± 5.12	n = 13	Abbott
22.45 ± 1.30	6.96 ± 0.52	33.36 ± 2.02	21.97 ± 1.32	110.12 ± 4.95	n = 26	Beckman Coulter
18.60 ± 0.69	5.05 ± 0.28	26.41 ± 1.10	18.83 ± 0.82	101.12 ± 3.99	n = 12	Ortho Clinical Diagnostics
20.31 ± 1.28	5.93 ± 0.35	29.34 ± 1.75	20.56 ± 1.51	107.59 ± 6.34	n = 34	Roche Elecsys/Modular E/e601/e411
23.95 ± 0.96	6.18 ± 0.36	28.82 ± 1.30	27.06 ± 1.10	142.91 ± 7.34	n = 65	Siemens ADVIA/ADVIA Centaur
19.35 ± 0.40	5.98 ± 0.18	30.90 ± 0.91	20.26 ± 0.63	104.46 ± 3.66	n = 8	Siemens Dimension LOCI
22.40 ± 1.36	4.46 ± 0.30	22.98 ± 1.45	17.11 ± 1.09	97.22 ± 6.94	n = 33	Siemens Immulite
20.78 ± 2.11	5.74 ± 0.78	28.58 ± 3.14	19.97 ± 2.62	103.08 ± 5.11	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Prolactin (µg/L)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
2.86 ± 0.48	7.68 ± 1.19	24.14 ± 4.21	6.13 ± 0.97	14.34 ± 2.27	n = 172	All Methods & Instruments
2.80	7.50	23.50	6.10	14.00	n = 172	Median value, All Methods & Instruments
						<Instruments>
3.03 ± 0.21	8.65 ± 0.34	25.81 ± 0.93	6.74 ± 0.31	15.71 ± 0.72	n = 10	Abbott Architect i System
2.72 ± 0.18	7.32 ± 0.31	21.95 ± 0.86	5.55 ± 0.26	13.32 ± 0.33	n = 7	Beckman Coulter ACCESS
2.68 ± 0.04	5.88 ± 2.32	21.24 ± 0.56	5.50 ± 0.09	13.10 ± 0.82	n = 3	Beckman Coulter UniCel DxI 600
2.67 ± 0.25	7.16 ± 0.19	21.90 ± 1.52	5.41 ± 0.33	13.43 ± 0.52	n = 15	Beckman Coulter UniCel DxI 800
3.82 ± 0.64	7.65 ± 0.49	22.59 ± 0.52	6.06 ± 0.45	13.85 ± 0.38	n = 10	Ortho Vitros 5600
3.59 ± 0.19	9.69 ± 0.57	32.26 ± 1.80	7.70 ± 0.43	18.48 ± 0.75	n = 4	Roche cobas e411
3.65 ± 0.09	9.63 ± 0.21	30.83 ± 0.56	7.72 ± 0.15	18.24 ± 0.37	n = 8	Roche cobas e601
3.63 ± 0.05	9.60 ± 0.27	31.22 ± 0.24	7.64 ± 0.10	18.23 ± 0.23	n = 3	Roche cobas e602
3.70 ± 0.08	10.04 ± 0.26	32.50 ± 0.84	7.97 ± 0.16	18.94 ± 0.54	n = 4	Roche Elecsys
3.66 ± 0.13	9.58 ± 0.26	30.81 ± 1.11	7.67 ± 0.18	17.94 ± 0.28	n = 8	Roche MODULAR E
2.79 ± 0.17	7.37 ± 0.34	23.58 ± 1.67	6.13 ± 0.31	13.83 ± 1.09	n = 56	Siemens ADVIA Centaur
3.03 ± 0.32	7.72 ± 0.49	25.18 ± 1.67	6.73 ± 0.50	14.31 ± 1.27	n = 3	Siemens ADVIA Centaur CP
2.59 ± 0.11	8.46 ± 0.22	29.28 ± 0.66	6.46 ± 0.19	16.22 ± 0.45	n = 11	Siemens Dimension Vista
2.35 ± 0.15	5.88 ± 0.32	18.83 ± 0.93	4.65 ± 0.23	11.48 ± 0.54	n = 22	Siemens Immulite 2000
3.13 ± 0.55	8.23 ± 1.45	26.27 ± 5.04	6.59 ± 1.11	15.47 ± 2.63	n = 14	Mean of Above Means
						<Reagents>
2.99 ± 0.25	8.61 ± 0.43	25.60 ± 1.14	6.70 ± 0.37	15.59 ± 0.89	n = 11	Abbott
2.69 ± 0.20	7.20 ± 0.24	21.81 ± 1.26	5.47 ± 0.29	13.38 ± 0.49	n = 25	Beckman Coulter
3.75 ± 0.58	7.61 ± 0.31	22.67 ± 0.53	5.98 ± 0.33	13.92 ± 0.38	n = 12	Ortho Clinical Diagnostics
3.65 ± 0.10	9.68 ± 0.32	31.27 ± 1.22	7.75 ± 0.20	18.26 ± 0.50	n = 27	Roche Elecsys/Modular E/e601/e411
2.79 ± 0.18	7.38 ± 0.34	23.65 ± 1.70	6.14 ± 0.32	13.85 ± 1.10	n = 59	Siemens ADVIA/ADVIA Centaur
2.60 ± 0.12	8.49 ± 0.23	29.28 ± 0.71	6.49 ± 0.17	16.27 ± 0.43	n = 10	Siemens Dimension LOCI
2.35 ± 0.14	5.90 ± 0.34	18.79 ± 1.04	4.67 ± 0.24	11.50 ± 0.55	n = 24	Siemens Immulite
2.93 ± 0.53	7.85 ± 1.16	24.54 ± 4.29	6.16 ± 0.91	14.60 ± 2.13	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact Parathyrin (PTH, pg/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
4.36 ± 2.91	4.50 ± 2.00	3.41 ± 2.19	41.77 ± 16.64	47.27 ± 14.64	n = 163	All Methods & Instruments
4.00	4.90	3.00	42.00	48.00	n = 163	Median value, All Methods & Instruments
<Instruments>						
4.00 ± 0.00	7.33 ± 1.79	4.00 ± 0.00	121.45 ± 10.65	148.10 ± 9.88	n = 7	Abbott Architect i System
1.79 ± 2.51	3.06 ± 1.47	1.78 ± 2.50	32.39 ± 6.39	37.11 ± 4.23	n = 11	Beckman Coulter ACCESS
0.85 ± 0.39	1.95 ± 1.44	0.85 ± 0.39	28.49 ± 9.16	33.29 ± 8.18	n = 11	Beckman Coulter UniCel DxI 800
3.40 ± 0.00	5.97 ± 0.95	3.40 ± 0.00	62.06 ± 18.86	68.04 ± 13.63	n = 7	Ortho Vitros 5600
4.83 ± 1.32	5.50 ± 0.77	3.65 ± 1.77	46.62 ± 10.92	52.70 ± 4.80	n = 12	Roche cobas e601
4.27 ± 1.06	4.52 ± 1.18	2.65 ± 0.38	43.42 ± 11.34	49.06 ± 8.47	n = 5	Roche cobas e602
4.05 ± 0.16	5.47 ± 1.21	2.88 ± 0.40	43.67 ± 17.95	49.71 ± 15.71	n = 5	Roche Elecsys
4.15 ± 0.63	4.33 ± 1.08	2.36 ± 0.66	30.24 ± 8.87	37.36 ± 7.13	n = 10	Roche MODULAR E
3.53 ± 2.27	3.76 ± 2.13	3.51 ± 2.27	47.08 ± 17.20	52.03 ± 14.11	n = 45	Siemens ADVIA Centaur
3.98 ± 1.82	4.93 ± 1.09	3.96 ± 1.86	59.04 ± 24.19	61.93 ± 20.78	n = 6	Siemens ADVIA Centaur CP
12.15 ± 5.13	4.44 ± 1.02	4.98 ± 2.00	34.49 ± 9.60	42.87 ± 8.59	n = 6	Siemens Immulite 1000
8.18 ± 2.78	5.09 ± 1.71	4.84 ± 2.65	40.49 ± 14.50	48.00 ± 14.43	n = 31	Siemens Immulite 2000
3.77 ± 1.35	4.73 ± 1.29	3.30 ± 1.18	41.86 ± 10.97	47.90 ± 10.37	n = 12	Mean of Above Means
<Reagents>						
4.00 ± 0.00	7.33 ± 1.79	4.00 ± 0.00	121.45 ± 10.65	148.10 ± 9.88	n = 7	Abbott
1.52 ± 2.16	2.61 ± 1.59	1.51 ± 2.15	31.30 ± 8.55	35.91 ± 6.67	n = 23	Beckman Coulter
3.40 ± 0.00	5.97 ± 0.95	3.40 ± 0.00	62.06 ± 18.86	68.04 ± 13.63	n = 7	Ortho Clinical Diagnostics
4.33 ± 0.90	5.01 ± 1.14	2.94 ± 1.20	40.08 ± 13.83	45.74 ± 11.68	n = 34	Roche Elecsys/Modular E/e601/e411
3.66 ± 2.30	3.97 ± 2.09	3.63 ± 2.28	48.27 ± 18.15	53.12 ± 15.08	n = 52	Siemens ADVIA/ADVIA Centaur
8.03 ± 2.73	4.88 ± 1.73	4.53 ± 2.49	38.90 ± 14.97	46.16 ± 15.32	n = 32	Siemens Immulite
14.82 ± 3.64	5.00 ± 0.00	6.00 ± 1.53	37.77 ± 6.37	45.43 ± 5.08	n = 4	Siemens Immulite Turbo
3.88 ± 1.81	4.97 ± 1.39	3.70 ± 1.28	41.58 ± 9.52	47.77 ± 9.42	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D2 (ng/mL)

Specimen: E06 -----	Specimen: E07 -----	Specimen: E08 -----	Specimen: E09 -----	Specimen: E10 -----	Number -----	Instrument or Reagent System -----
13.39 ± 1.21 13.00	23.58 ± 2.19 23.00	33.75 ± 3.45 34.00	2.89 ± 1.49 3.40	2.70 ± 1.58 2.00	n = 16 n = 16	All Methods & Instruments Median value, All Methods & Instruments
13.39 ± 1.21	23.58 ± 2.19	33.75 ± 3.45	2.89 ± 1.49	2.70 ± 1.58	n = 16	<Instruments> LC/MS/MS
13.39 ± 1.21	23.58 ± 2.19	33.75 ± 3.45	2.89 ± 1.49	2.70 ± 1.58	n = 16	<Reagents> In-House

25-OH Vitamin D3 (ng/mL)

Specimen: E06 -----	Specimen: E07 -----	Specimen: E08 -----	Specimen: E09 -----	Specimen: E10 -----	Number -----	Instrument or Reagent System -----
23.78 ± 1.47 23.90	29.70 ± 1.94 29.00	32.18 ± 2.19 32.00	28.49 ± 1.08 28.40	45.10 ± 3.03 45.00	n = 16 n = 16	All Methods & Instruments Median value, All Methods & Instruments
23.78 ± 1.47	29.70 ± 1.94	32.18 ± 2.19	28.49 ± 1.08	45.10 ± 3.03	n = 16	<Instruments> LC/MS/MS
23.78 ± 1.47	29.70 ± 1.94	32.18 ± 2.19	28.49 ± 1.08	45.10 ± 3.03	n = 16	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
36.63 ± 9.98	44.99 ± 18.68	48.92 ± 21.51	28.14 ± 10.89	37.69 ± 8.98	n = 160	All Methods & Instruments
34.10	37.00	40.00	25.80	36.50	n = 160	Median value, All Methods & Instruments
						<Instruments>
30.54 ± 1.83	34.29 ± 2.04	36.01 ± 2.05	24.85 ± 1.30	35.63 ± 2.47	n = 19	Abbott Architect i System
31.27 ± 3.18	32.09 ± 3.00	33.20 ± 3.47	19.73 ± 2.19	29.61 ± 3.08	n = 51	DiaSorin Liaison
30.57 ± 3.11	37.40 ± 2.28	43.35 ± 3.79	25.49 ± 1.44	34.88 ± 3.22	n = 3	Immunodiagnostic Systems-iSYS Immun
37.47 ± 2.09	53.72 ± 3.77	66.51 ± 3.75	28.80 ± 1.25	45.32 ± 3.86	n = 15	LC/MS/MS
41.87 ± 0.25	38.35 ± 2.55	39.74 ± 3.62	25.73 ± 0.16	33.77 ± 2.91	n = 5	Ortho Vitros 5600
29.97 ± 1.09	37.39 ± 1.79	40.75 ± 1.59	28.49 ± 1.20	37.91 ± 1.14	n = 4	Roche cobas e411
27.76 ± 1.87	36.25 ± 2.79	39.91 ± 2.16	26.05 ± 1.53	35.87 ± 2.45	n = 9	Roche cobas e601
52.57 ± 5.91	74.86 ± 6.52	80.37 ± 7.39	45.94 ± 5.51	48.22 ± 5.08	n = 40	Siemens ADVIA Centaur
40.42 ± 5.25	51.91 ± 7.27	52.06 ± 8.03	34.67 ± 5.91	44.65 ± 9.53	n = 3	UV/Vis Photometer
34.63 ± 7.24	40.46 ± 10.07	44.83 ± 13.38	26.75 ± 4.34	38.10 ± 6.29	n = 9	Mean of Above Means
						<Reagents>
30.54 ± 1.83	34.29 ± 2.04	36.01 ± 2.05	24.85 ± 1.30	35.63 ± 2.47	n = 19	Abbott
31.27 ± 3.18	32.09 ± 3.00	33.20 ± 3.47	19.73 ± 2.19	29.61 ± 3.08	n = 51	DiaSorin Liaison
38.51 ± 4.60	47.86 ± 6.74	49.31 ± 6.31	33.36 ± 4.03	39.84 ± 3.00	n = 7	Immunodiagnostic Systems Enzyme Imm
30.57 ± 3.11	37.40 ± 2.28	43.35 ± 3.79	25.49 ± 1.44	34.88 ± 3.22	n = 3	Immunodiagnostic Systems-iSYS chemi
37.47 ± 2.09	53.72 ± 3.77	66.51 ± 3.75	28.80 ± 1.25	45.32 ± 3.86	n = 15	In-House
43.14 ± 2.58	39.31 ± 3.24	41.15 ± 4.86	25.73 ± 0.16	34.01 ± 2.67	n = 6	Ortho Clinical Diagnostics
28.45 ± 1.82	36.33 ± 2.54	39.85 ± 2.30	26.68 ± 1.77	36.29 ± 2.32	n = 15	Roche Elecsys/Modular E/e601/e411
52.77 ± 5.70	75.16 ± 6.35	80.72 ± 7.42	45.96 ± 5.17	47.87 ± 4.70	n = 33	Siemens ADVIA Centaur - Vitamin D T
52.39 ± 6.60	74.69 ± 7.60	80.35 ± 9.27	46.62 ± 7.12	50.13 ± 6.13	n = 8	Siemens ADVIA/ADVIA Centaur
37.55 ± 9.37	45.66 ± 16.17	50.43 ± 18.79	29.48 ± 8.95	38.92 ± 7.10	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact human Choriogonadotropin (intact hCG, mIU/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
54.0 ± 3.25	5.1 ± 0.62	39.7 ± 1.75	2.3 ± 0.54	48.7 ± 3.10	n = 47	All Methods & Instruments
53.0	5.0	40.0	2.0	49.0	n = 47	Median value, All Methods & Instruments
						<Instruments>
51.3 ± 1.51	4.7 ± 0.48	38.6 ± 1.86	2.0 ± 0.05	44.9 ± 1.63	n = 11	Roche cobas e601
54.2 ± 2.91	5.1 ± 0.50	40.2 ± 1.55	2.7 ± 0.54	49.7 ± 1.87	n = 13	Siemens Dimension EXL
56.1 ± 2.62	5.2 ± 0.71	40.2 ± 1.33	2.3 ± 0.50	50.6 ± 2.83	n = 13	Siemens Dimension RxL
53.1 ± 2.14	5.0 ± 0.00	39.1 ± 1.80	2.5 ± 0.57	49.0 ± 0.90	n = 6	Siemens Dimension Xpand
53.7 ± 1.90	5.0 ± 0.21	39.5 ± 0.79	2.4 ± 0.26	48.9 ± 2.21	n = 4	Mean of Above Means
						<Reagents>
51.8 ± 2.05	4.8 ± 0.60	39.0 ± 1.99	2.0 ± 0.05	45.4 ± 2.03	n = 13	Roche Elecsys/Modular E/e601/e411
54.8 ± 2.94	5.2 ± 0.57	40.0 ± 1.59	2.5 ± 0.56	49.9 ± 2.23	n = 32	Siemens Dimension
53.3 ± 1.70	5.0 ± 0.22	39.5 ± 0.55	2.2 ± 0.27	47.7 ± 2.54	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Total Beta hCG (mIU/mL)

Specimen: E06	Specimen: E07	Specimen: E08	Specimen: E09	Specimen: E10	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
63.2 ± 6.15	6.3 ± 1.04	38.0 ± 7.11	3.0 ± 0.90	53.1 ± 8.62	n = 253	All Methods & Instruments
64.0	6.0	39.0	3.0	54.0	n = 253	Median value, All Methods & Instruments
<Instruments>						
51.7 ± 2.59	6.4 ± 0.75	28.7 ± 1.79	3.2 ± 1.10	44.2 ± 2.29	n = 23	Abbott Architect i System
62.5 ± 3.05	6.2 ± 0.50	29.6 ± 1.66	3.0 ± 0.00	51.1 ± 1.97	n = 23	Beckman Coulter ACCESS
61.3 ± 1.71	14.5 ± 22.84	29.9 ± 1.04	3.2 ± 0.89	50.8 ± 1.30	n = 4	Beckman Coulter UniCel DxI 600
61.2 ± 3.15	6.1 ± 0.58	29.7 ± 1.55	3.2 ± 0.88	50.5 ± 3.16	n = 15	Beckman Coulter UniCel DxI 800
65.9 ± 2.89	6.7 ± 0.53	46.0 ± 2.83	2.8 ± 0.36	58.4 ± 2.95	n = 20	Ortho Vitros 5600
65.8 ± 2.27	6.5 ± 0.62	44.2 ± 2.32	3.4 ± 1.53	57.9 ± 2.45	n = 6	Ortho Vitros Eci/ECiQ
71.2 ± 5.29	5.4 ± 0.56	41.5 ± 2.97	2.4 ± 0.49	65.1 ± 5.22	n = 6	Roche cobas e411
68.3 ± 2.43	5.0 ± 0.12	39.3 ± 1.36	2.0 ± 0.00	61.5 ± 2.31	n = 10	Roche cobas e601
70.3 ± 0.90	5.0 ± 0.00	39.8 ± 0.41	2.5 ± 1.23	62.7 ± 0.90	n = 4	Roche cobas e602
71.6 ± 1.84	5.1 ± 0.20	41.2 ± 0.92	2.1 ± 0.20	64.3 ± 1.37	n = 3	Roche Elecsys
68.4 ± 1.11	5.0 ± 0.00	39.5 ± 1.26	2.0 ± 0.05	62.3 ± 2.40	n = 13	Roche MODULAR E
59.8 ± 3.49	7.7 ± 1.01	36.3 ± 2.19	3.5 ± 1.04	45.4 ± 2.27	n = 52	Siemens ADVIA Centaur
58.0 ± 3.23	8.7 ± 0.63	36.4 ± 1.67	4.0 ± 0.55	45.5 ± 1.37	n = 6	Siemens ADVIA Centaur CP
66.1 ± 1.01	6.0 ± 0.00	42.2 ± 0.89	3.0 ± 0.00	58.1 ± 1.16	n = 42	Siemens Dimension Vista
88.1 ± 5.44	5.4 ± 0.38	42.9 ± 2.19	2.6 ± 1.21	71.1 ± 5.96	n = 4	Siemens Immulite 1000
108.1 ± 6.64	6.3 ± 0.81	51.8 ± 2.95	2.7 ± 0.60	93.6 ± 5.42	n = 17	Siemens Immulite 2000
65.1 ± 6.14	5.9 ± 0.93	38.8 ± 6.63	2.8 ± 0.59	57.0 ± 9.31	n = 16	Mean of Above Means
<Reagents>						
51.7 ± 2.51	6.5 ± 0.74	28.8 ± 1.90	3.3 ± 1.16	44.2 ± 2.20	n = 24	Abbott
61.9 ± 3.04	6.1 ± 0.50	29.7 ± 1.56	3.0 ± 0.00	50.8 ± 2.28	n = 42	Beckman Coulter
65.8 ± 2.74	6.6 ± 0.56	45.6 ± 2.86	2.8 ± 0.41	58.3 ± 2.85	n = 26	Ortho Clinical Diagnostics
69.2 ± 2.58	5.0 ± 0.00	39.8 ± 1.59	2.0 ± 0.00	62.4 ± 2.33	n = 36	Roche Elecsys/Modular E/e601/e411
59.6 ± 3.48	7.8 ± 1.03	36.3 ± 2.13	3.6 ± 1.01	45.4 ± 2.17	n = 58	Siemens ADVIA/ADVIA Centaur
64.3 ± 5.51	5.8 ± 0.41	41.9 ± 2.63	2.8 ± 0.41	56.5 ± 4.60	n = 4	Siemens Dimension
66.1 ± 1.07	6.0 ± 0.00	42.2 ± 0.87	3.0 ± 0.00	58.1 ± 1.13	n = 39	Siemens Dimension LOCI
105.2 ± 9.98	6.1 ± 0.84	50.5 ± 4.51	2.6 ± 0.65	90.9 ± 9.37	n = 21	Siemens Immulite
63.5 ± 4.95	6.2 ± 0.68	39.5 ± 7.45	2.9 ± 0.44	54.2 ± 7.76	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Qualitative hCG report:

[AB1] Abbott	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative	0	0	0	8	0
Indeterminant	0	7	0	0	0
Positive	8	1	8	0	8
[AR1] Alere hCG Combo Cassette	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative	0	4	0	5	0
Indeterminant	0	0	0	0	0
Positive	5	1	5	0	5
[AD1] American Diagnostics	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative	0	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	2	0	2	0	2
[BC1] Beckman Coulter	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative	0	19	0	26	0
Indeterminant	0	5	0	1	0
Positive	27	3	27	0	27
[CD1] Cardinal Health	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative	0	16	0	17	0
Indeterminant	0	1	0	0	0
Positive	17	0	17	0	17
[CM1] CEN-MED Elite Plus hCG One Step	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative	0	5	0	6	0
Indeterminant	0	0	0	0	0
Positive	6	1	6	0	6
[FI1] Fisher	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative	0	36	0	47	0
Indeterminant	0	4	0	0	0
Positive	47	7	47	0	47

Statistical Summary (Mean and Standard Deviation)

[IM1] Inverness Medical		Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative		0	4	0	4	0
Indeterminant		0	0	0	0	0
Positive		4	0	4	0	4
[JJ1] Ortho Clinical Diagnostics		Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative		0	0	0	2	0
Indeterminant		0	1	0	0	0
Positive		3	2	3	1	3
[PM1] Polymedco		Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative		0	3	0	4	0
Indeterminant		0	0	0	0	0
Positive		4	1	4	0	4
[QQ2] Quidel QuickVue One-Step hCG Combo		Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative		0	20	0	20	0
Indeterminant		0	0	0	0	0
Positive		20	0	20	0	20
[QQ1] Quidel QuickVue± One-Step hCG Combo		Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative		0	17	0	18	0
Indeterminant		0	0	0	0	0
Positive		18	1	18	0	18
[RO3] Roche Elecsys/Modular E/e601/e411		Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative		0	5	0	8	0
Indeterminant		0	2	0	0	0
Positive		8	1	8	0	8
[GZ1] Sekisui Diagnostics (Genzyme)		Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
Negative		0	7	0	7	0
Indeterminant		0	0	0	0	0
Positive		7	0	7	0	7

Statistical Summary (Mean and Standard Deviation)

[BY1]	Siemens ADVIA/ADVIA Centaur	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
	Negative	0	7	0	23	0
	Indeterminant	0	13	0	0	0
	Positive	23	3	23	0	23
[DA5]	Siemens Dimension	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
	Negative	0	1	0	2	0
	Indeterminant	0	1	0	0	0
	Positive	2	0	2	0	2
[DA6]	Siemens Dimension LOCI	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
	Negative	0	0	0	5	0
	Indeterminant	0	5	0	0	0
	Positive	5	0	5	0	5
[DP5]	Siemens Immulite	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
	Negative	0	2	0	3	0
	Indeterminant	0	1	0	0	0
	Positive	3	0	3	0	3
[SB1]	Stanbio	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
	Negative	0	6	0	8	0
	Indeterminant	0	0	0	0	0
	Positive	8	2	8	0	8
[TR1]	TrueMedix	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
	Negative	0	4	0	5	0
	Indeterminant	0	1	0	0	0
	Positive	5	0	5	0	5
[---]	All Methods & Instruments	Specimen:E06	Specimen:E07	Specimen:E08	Specimen:E09	Specimen:E10
	Negative	0	158	0	220	0
	Indeterminant	0	41	0	1	0
	Positive	222	23	222	1	222