

Endocrinology Proficiency Test Program

Statistical Summary – May 2014 (Event 14-2)

This statistical report summarizes participant data for the five Endocrinology proficiency survey specimens shipped 5 May 2014. Test specimens E11-E15 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: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
2.90 ± 0.66	7.58 ± 1.22	9.64 ± 1.04	9.82 ± 1.46	12.18 ± 1.41	n = 226	All Methods & Instruments
2.90	7.30	9.60	9.40	12.10	n = 226	Median value, All Methods & Instruments
<Instruments>						
2.88 ± 0.23	6.70 ± 0.34	8.33 ± 0.37	8.95 ± 0.32	10.77 ± 0.42	n = 20	Abbott Architect i System
2.81 ± 0.30	8.81 ± 0.78	10.15 ± 1.08	11.19 ± 1.06	13.19 ± 1.07	n = 17	Beckman Coulter ACCESS
3.03 ± 0.25	7.12 ± 0.39	9.65 ± 0.13	9.54 ± 0.34	11.88 ± 0.51	n = 7	Beckman Coulter AU Chemistry System
2.84 ± 0.29	8.78 ± 0.46	9.96 ± 0.41	11.48 ± 0.70	13.08 ± 0.73	n = 13	Beckman Coulter UniCel DxI 800
2.95 ± 0.15	7.80 ± 0.39	10.28 ± 0.52	10.37 ± 0.50	13.21 ± 0.61	n = 16	Ortho Vitros 5600
2.99 ± 0.23	7.73 ± 0.59	10.37 ± 0.93	10.21 ± 0.70	13.25 ± 0.91	n = 4	Ortho Vitros Eci/EciQ
3.34 ± 0.10	6.90 ± 0.09	9.05 ± 0.19	8.80 ± 0.55	10.77 ± 0.23	n = 3	Roche cobas e411
3.19 ± 0.13	6.60 ± 0.21	8.81 ± 0.27	8.52 ± 0.38	10.84 ± 0.37	n = 15	Roche cobas e601
3.23 ± 0.08	6.80 ± 0.33	9.00 ± 0.29	8.67 ± 0.38	11.15 ± 0.52	n = 4	Roche cobas e602
3.19 ± 0.12	6.66 ± 0.20	8.81 ± 0.22	8.46 ± 0.10	10.71 ± 0.37	n = 10	Roche MODULAR E
2.02 ± 0.33	6.92 ± 0.39	9.44 ± 0.47	8.96 ± 0.47	11.61 ± 0.54	n = 50	Siemens ADVIA Centaur
3.69 ± 0.43	8.91 ± 0.21	10.76 ± 0.28	11.23 ± 0.19	13.31 ± 0.46	n = 6	Siemens Dimension EXL
3.63 ± 0.05	8.87 ± 0.14	10.35 ± 0.19	10.90 ± 0.09	12.88 ± 0.32	n = 3	Siemens Dimension RxL
3.91 ± 0.48	9.86 ± 0.72	11.57 ± 0.68	12.23 ± 0.69	14.37 ± 0.71	n = 30	Siemens Dimension Vista
2.69 ± 0.27	7.99 ± 0.44	9.68 ± 0.31	10.23 ± 0.66	12.21 ± 0.60	n = 4	Siemens Immulite 1000
2.44 ± 0.26	7.11 ± 0.37	9.26 ± 0.49	9.39 ± 0.31	11.51 ± 0.82	n = 8	Siemens Immulite 2000
3.08 ± 0.17	7.52 ± 0.04	9.57 ± 0.49	9.68 ± 0.71	12.27 ± 0.84	n = 5	Tosoh Bioscience
3.06 ± 0.43	7.62 ± 1.02	9.66 ± 0.80	9.87 ± 1.21	12.16 ± 1.18	n = 17	Mean of Above Means
<Reagents>						
2.88 ± 0.23	6.70 ± 0.34	8.33 ± 0.37	8.95 ± 0.32	10.77 ± 0.42	n = 20	Abbott
2.84 ± 0.31	8.84 ± 0.63	10.03 ± 0.77	11.39 ± 0.91	13.13 ± 0.92	n = 32	Beckman Coulter
3.03 ± 0.25	7.12 ± 0.39	9.65 ± 0.13	9.54 ± 0.34	11.88 ± 0.51	n = 7	Microgenics DRI
2.95 ± 0.17	7.78 ± 0.43	10.28 ± 0.61	10.33 ± 0.55	13.21 ± 0.68	n = 20	Ortho Clinical Diagnostics
3.22 ± 0.13	6.67 ± 0.22	8.84 ± 0.27	8.50 ± 0.29	10.80 ± 0.38	n = 34	Roche Elecsys/Modular E/e601/e411
2.02 ± 0.33	6.92 ± 0.39	9.44 ± 0.47	8.96 ± 0.47	11.61 ± 0.54	n = 50	Siemens ADVIA/ADVIA Centaur
3.85 ± 0.42	9.57 ± 0.78	11.29 ± 0.85	11.98 ± 0.85	14.02 ± 0.90	n = 36	Siemens Dimension
3.75 ± 0.90	9.94 ± 0.65	11.40 ± 0.18	11.68 ± 0.41	14.49 ± 0.57	n = 3	Siemens Dimension LOCI
2.51 ± 0.30	7.40 ± 0.58	9.42 ± 0.46	9.58 ± 0.58	11.79 ± 0.84	n = 12	Siemens Immulite
3.04 ± 0.10	7.68 ± 0.24	9.33 ± 0.50	9.36 ± 0.47	11.70 ± 0.36	n = 3	Tosoh ST AIA
3.01 ± 0.51	7.73 ± 1.17	9.74 ± 0.96	9.94 ± 1.28	12.27 ± 1.32	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T4 (ng/dL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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0.60 ± 0.09	2.08 ± 0.33	1.69 ± 0.25	2.87 ± 0.40	2.60 ± 0.38	n = 254	All Methods & Instruments
0.60	2.10	1.70	2.88	2.70	n = 254	Median value, All Methods & Instruments
<Instruments>						
0.60 ± 0.04	1.64 ± 0.07	1.44 ± 0.06	2.16 ± 0.10	1.97 ± 0.07	n = 18	Abbott Architect i System
0.60 ± 0.02	2.14 ± 0.07	1.63 ± 0.07	2.70 ± 0.08	2.34 ± 0.11	n = 20	Beckman Coulter ACCESS
0.60 ± 0.00	2.23 ± 0.09	1.60 ± 0.08	2.83 ± 0.09	2.52 ± 0.04	n = 4	Beckman Coulter UniCel DxI 600
0.61 ± 0.03	2.13 ± 0.13	1.62 ± 0.12	2.82 ± 0.16	2.51 ± 0.17	n = 14	Beckman Coulter UniCel DxI 800
0.57 ± 0.05	1.37 ± 0.05	1.70 ± 0.00	2.33 ± 0.05	3.30 ± 0.00	n = 3	bioMerieux Vidas
0.82 ± 0.05	4.21 ± 0.15	2.85 ± 0.14	5.95 ± 0.14	4.98 ± 0.12	n = 17	Ortho Vitros 5600
0.80 ± 0.00	4.23 ± 0.26	2.85 ± 0.16	5.95 ± 0.24	5.03 ± 0.35	n = 6	Ortho Vitros Eci/EciQ
0.68 ± 0.04	2.45 ± 0.06	2.00 ± 0.08	3.35 ± 0.06	3.05 ± 0.06	n = 4	Roche cobas e411
0.68 ± 0.03	2.43 ± 0.10	2.00 ± 0.06	3.37 ± 0.14	3.06 ± 0.13	n = 16	Roche cobas e601
0.68 ± 0.04	2.40 ± 0.08	1.97 ± 0.08	3.39 ± 0.11	3.07 ± 0.08	n = 4	Roche cobas e602
0.65 ± 0.04	2.36 ± 0.07	1.92 ± 0.06	3.28 ± 0.13	2.95 ± 0.11	n = 13	Roche MODULAR E
0.61 ± 0.06	2.06 ± 0.11	1.78 ± 0.08	2.90 ± 0.16	2.76 ± 0.13	n = 61	Siemens ADVIA Centaur
0.50 ± 0.07	1.82 ± 0.07	1.47 ± 0.06	2.68 ± 0.08	2.36 ± 0.07	n = 11	Siemens Dimension EXL
0.43 ± 0.05	2.62 ± 0.13	1.36 ± 0.05	3.23 ± 0.09	2.14 ± 0.10	n = 3	Siemens Dimension RxL
0.51 ± 0.02	1.72 ± 0.07	1.43 ± 0.06	2.54 ± 0.10	2.31 ± 0.08	n = 35	Siemens Dimension Vista
0.40 ± 0.02	2.65 ± 0.10	1.31 ± 0.09	3.24 ± 0.12	2.18 ± 0.16	n = 3	Siemens Dimension Xpand
0.60 ± 0.06	2.44 ± 0.15	1.72 ± 0.08	3.27 ± 0.09	2.66 ± 0.12	n = 10	Siemens Immulite 2000
0.55 ± 0.06	2.54 ± 0.06	2.12 ± 0.10	3.78 ± 0.11	3.63 ± 0.08	n = 5	Tosoh Bioscience
0.60 ± 0.10	2.23 ± 0.40	1.72 ± 0.34	3.01 ± 0.45	2.68 ± 0.54	n = 18	Mean of Above Means
<Reagents>						
0.60 ± 0.04	1.64 ± 0.07	1.44 ± 0.06	2.16 ± 0.10	1.97 ± 0.07	n = 18	Abbott
0.60 ± 0.00	2.15 ± 0.10	1.63 ± 0.09	2.75 ± 0.12	2.42 ± 0.15	n = 38	Beckman Coulter
0.57 ± 0.05	1.37 ± 0.05	1.70 ± 0.00	2.33 ± 0.05	3.30 ± 0.00	n = 3	bioMerieux Vitek
0.81 ± 0.04	4.21 ± 0.16	2.85 ± 0.14	5.96 ± 0.17	4.98 ± 0.15	n = 23	Ortho Clinical Diagnostics
0.67 ± 0.04	2.40 ± 0.09	1.97 ± 0.07	3.33 ± 0.12	3.02 ± 0.12	n = 39	Roche Elecsys/Modular E/e601/e411
0.61 ± 0.06	2.07 ± 0.11	1.78 ± 0.08	2.91 ± 0.16	2.76 ± 0.13	n = 62	Siemens ADVIA/ADVIA Centaur
0.42 ± 0.05	2.63 ± 0.11	1.36 ± 0.06	3.23 ± 0.11	2.18 ± 0.13	n = 7	Siemens Dimension
0.51 ± 0.03	1.75 ± 0.09	1.44 ± 0.07	2.57 ± 0.11	2.32 ± 0.09	n = 45	Siemens Dimension LOCI
0.60 ± 0.05	2.48 ± 0.18	1.75 ± 0.10	3.29 ± 0.10	2.70 ± 0.13	n = 13	Siemens Immulite
0.54 ± 0.07	2.52 ± 0.05	2.06 ± 0.05	3.79 ± 0.07	3.61 ± 0.09	n = 3	Tosoh ST AIA
0.58 ± 0.08	2.16 ± 0.52	1.69 ± 0.27	2.93 ± 0.55	2.74 ± 0.67	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T3-Uptake (%)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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34.73 ± 4.58	43.21 ± 7.39	37.36 ± 4.67	44.80 ± 7.46	42.51 ± 5.69	n = 130	All Methods & Instruments
34.20	44.97	37.00	46.30	42.00	n = 130	Median value, All Methods & Instruments
						<Instruments>
34.83 ± 1.51	35.70 ± 1.77	30.86 ± 1.49	36.38 ± 1.51	33.64 ± 1.56	n = 9	Abbott Architect i System
44.22 ± 1.69	47.32 ± 1.92	44.69 ± 1.65	49.79 ± 1.53	49.56 ± 1.89	n = 11	Beckman Coulter ACCESS
36.28 ± 0.76	47.24 ± 0.36	38.04 ± 1.50	48.15 ± 1.17	43.32 ± 1.33	n = 7	Beckman Coulter AU Chemistry System
45.81 ± 1.76	48.08 ± 1.74	45.02 ± 1.63	48.57 ± 1.75	48.79 ± 1.54	n = 9	Beckman Coulter UniCel DxI 800
37.82 ± 1.46	55.07 ± 1.35	41.17 ± 1.24	57.35 ± 1.70	48.89 ± 1.24	n = 8	Ortho Vitros 5600
36.47 ± 0.50	55.11 ± 1.74	40.40 ± 0.87	56.64 ± 2.14	48.17 ± 0.86	n = 4	Ortho Vitros Eci/ECiQ
28.52 ± 13.24	31.67 ± 14.93	31.43 ± 14.67	33.33 ± 15.71	34.08 ± 16.16	n = 4	Roche cobas e601
33.76 ± 1.98	47.41 ± 2.50	36.54 ± 1.73	48.84 ± 2.65	43.11 ± 2.28	n = 27	Siemens ADVIA Centaur
34.08 ± 0.59	38.08 ± 1.43	36.94 ± 1.40	41.23 ± 0.82	40.88 ± 1.33	n = 6	Siemens Dimension EXL
33.53 ± 1.48	38.20 ± 1.97	36.13 ± 1.75	39.87 ± 1.59	40.36 ± 1.94	n = 20	Siemens Dimension Vista
27.95 ± 1.35	35.08 ± 1.12	31.98 ± 0.86	35.37 ± 4.99	35.30 ± 0.91	n = 3	Siemens Immulite 1000
27.74 ± 2.21	32.35 ± 1.17	29.85 ± 0.75	33.03 ± 1.02	31.52 ± 1.66	n = 8	Siemens Immulite 2000
34.69 ± 5.56	42.43 ± 8.81	36.81 ± 5.38	43.88 ± 9.04	41.60 ± 6.94	n = 12	Mean of Above Means
						<Reagents>
34.83 ± 1.51	35.70 ± 1.77	30.86 ± 1.49	36.38 ± 1.51	33.64 ± 1.56	n = 9	Abbott
45.08 ± 1.99	47.77 ± 1.89	44.91 ± 1.61	49.41 ± 1.71	49.23 ± 1.70	n = 21	Beckman Coulter
35.86 ± 1.29	47.13 ± 0.48	37.96 ± 1.39	48.14 ± 0.95	43.46 ± 1.11	n = 8	Microgenics CEDIA
37.18 ± 1.13	55.12 ± 1.58	40.85 ± 1.07	57.15 ± 2.00	48.59 ± 1.18	n = 12	Ortho Clinical Diagnostics
31.94 ± 1.67	36.22 ± 1.53	36.23 ± 1.00	38.75 ± 1.35	39.37 ± 1.84	n = 9	Roche Elecsys/Modular E/e601/e411
33.76 ± 1.98	47.41 ± 2.50	36.54 ± 1.73	48.84 ± 2.65	43.11 ± 2.28	n = 27	Siemens ADVIA/ADVIA Centaur
33.60 ± 1.43	38.02 ± 1.94	36.35 ± 1.98	40.10 ± 2.00	40.46 ± 2.02	n = 27	Siemens Dimension
27.88 ± 1.91	32.96 ± 2.00	30.25 ± 1.52	32.98 ± 3.33	32.51 ± 2.34	n = 11	Siemens Immulite
34.39 ± 3.98	42.30 ± 7.99	36.64 ± 4.66	43.79 ± 8.22	41.42 ± 6.18	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T Uptake (Unit)

Specimen: E11 -----	Specimen: E12 -----	Specimen: E13 -----	Specimen: E14 -----	Specimen: E15 -----	Number -----	Instrument or Reagent System -----
1.054 ± 0.145	0.908 ± 0.111	0.993 ± 0.070	0.845 ± 0.070	0.862 ± 0.051	n = 19	All Methods & Instruments
1.070	0.940	0.990	0.830	0.870	n = 19	Median value, All Methods & Instruments
<Instruments>						
0.871 ± 0.044	0.803 ± 0.032	0.972 ± 0.041	0.791 ± 0.030	0.877 ± 0.037	n = 5	Abbott Architect i System
1.133 ± 0.031	0.950 ± 0.054	0.976 ± 0.039	0.858 ± 0.051	0.833 ± 0.059	n = 3	Roche cobas e601
1.157 ± 0.031	0.975 ± 0.033	0.998 ± 0.017	0.895 ± 0.016	0.876 ± 0.023	n = 5	Roche MODULAR E
1.065 ± 0.027	1.497 ± 0.005	1.169 ± 0.037	1.515 ± 0.019	1.339 ± 0.052	n = 3	Siemens ADVIA Centaur
1.073 ± 0.115	1.013 ± 0.263	1.012 ± 0.079	0.954 ± 0.281	0.936 ± 0.198	n = 4	Mean of Above Means
<Reagents>						
0.871 ± 0.044	0.803 ± 0.032	0.972 ± 0.041	0.791 ± 0.030	0.877 ± 0.037	n = 5	Abbott
1.146 ± 0.041	0.969 ± 0.044	0.990 ± 0.028	0.885 ± 0.042	0.861 ± 0.047	n = 10	Roche Elecsys/Modular E/e601/e411
1.065 ± 0.027	1.497 ± 0.005	1.169 ± 0.037	1.515 ± 0.019	1.339 ± 0.052	n = 3	Siemens ADVIA/ADVIA Centaur
1.036 ± 0.127	1.065 ± 0.324	1.034 ± 0.097	1.030 ± 0.350	1.001 ± 0.241	n = 3	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Triiodothyronine (T3, ng/dL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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51.1 ± 9.75	140.8 ± 17.94	167.5 ± 20.49	198.1 ± 27.37	201.9 ± 33.11	n = 182	All Methods & Instruments
50.0	142.0	170.0	203.0	204.0	n = 182	Median value, All Methods & Instruments
<Instruments>						
52.6 ± 4.34	120.3 ± 5.28	152.6 ± 8.15	168.2 ± 8.81	174.4 ± 9.70	n = 16	Abbott Architect i System
47.5 ± 9.75	116.3 ± 7.98	137.0 ± 7.06	154.6 ± 7.61	152.6 ± 6.58	n = 12	Beckman Coulter ACCESS
50.5 ± 7.04	111.8 ± 10.99	129.0 ± 10.56	152.0 ± 15.80	148.1 ± 18.46	n = 5	Beckman Coulter UniCel DxI 600
48.0 ± 7.29	109.1 ± 12.44	130.7 ± 12.76	149.2 ± 10.48	145.7 ± 10.08	n = 14	Beckman Coulter UniCel DxI 800
61.9 ± 1.92	151.4 ± 3.35	167.1 ± 3.75	203.9 ± 3.94	194.5 ± 6.66	n = 13	Ortho Vitros 5600
64.6 ± 3.72	155.2 ± 5.01	176.1 ± 3.64	206.9 ± 3.52	204.6 ± 6.29	n = 12	Roche cobas e601
64.7 ± 1.58	155.5 ± 4.60	177.9 ± 5.84	214.7 ± 6.54	208.8 ± 6.45	n = 4	Roche cobas e602
63.4 ± 3.98	154.7 ± 6.28	175.5 ± 5.24	209.3 ± 3.69	206.5 ± 5.00	n = 12	Roche MODULAR E
46.4 ± 5.45	144.8 ± 9.97	179.1 ± 13.11	213.4 ± 13.67	226.8 ± 13.72	n = 71	Siemens ADVIA Centaur
40.0 ± 0.00	144.2 ± 12.07	158.3 ± 10.17	194.4 ± 12.93	195.1 ± 17.93	n = 8	Siemens Immulite 2000
112.6 ± 172.34	130.3 ± 2.43	145.8 ± 5.43	171.8 ± 3.68	164.4 ± 12.03	n = 4	Tosoh Bioscience
53.9 ± 9.45	136.5 ± 19.67	157.9 ± 20.34	186.2 ± 28.02	184.2 ± 29.20	n = 11	Mean of Above Means
<Reagents>						
52.6 ± 4.34	120.3 ± 5.28	152.6 ± 8.15	168.2 ± 8.81	174.4 ± 9.70	n = 16	Abbott
48.4 ± 7.98	112.6 ± 10.92	133.7 ± 9.93	151.1 ± 11.24	148.7 ± 11.03	n = 31	Beckman Coulter
61.5 ± 2.12	151.5 ± 5.53	167.6 ± 4.01	204.0 ± 4.63	194.6 ± 6.93	n = 15	Ortho Clinical Diagnostics
64.5 ± 3.90	155.6 ± 5.93	176.3 ± 5.79	208.9 ± 5.14	206.7 ± 6.74	n = 32	Roche Elecsys/Modular E/e601/e411
46.5 ± 5.39	144.9 ± 9.78	179.4 ± 13.02	213.6 ± 13.43	227.2 ± 13.75	n = 73	Siemens ADVIA/ADVIA Centaur
40.6 ± 1.76	144.3 ± 11.11	159.8 ± 13.23	192.0 ± 8.84	191.8 ± 20.91	n = 9	Siemens Immulite
52.1 ± 9.11	139.7 ± 17.27	162.9 ± 16.02	191.8 ± 24.29	191.5 ± 25.60	n = 6	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T-3 (pg/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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1.74 ± 0.30	4.50 ± 0.68	4.32 ± 0.60	6.42 ± 1.23	5.62 ± 0.80	n = 137	All Methods & Instruments
1.71	4.50	4.30	6.30	5.70	n = 137	Median value, All Methods & Instruments
						<Instruments>
1.61 ± 0.17	4.18 ± 0.23	4.33 ± 0.34	6.00 ± 0.38	5.39 ± 0.39	n = 12	Abbott Architect i System
1.66 ± 0.17	3.98 ± 0.21	3.85 ± 0.20	5.56 ± 0.29	4.98 ± 0.25	n = 8	Beckman Coulter ACCESS
1.63 ± 0.09	3.84 ± 0.19	3.79 ± 0.11	5.42 ± 0.37	4.73 ± 0.27	n = 4	Beckman Coulter UniCel DxI 600
1.57 ± 0.24	3.77 ± 0.34	3.63 ± 0.17	5.27 ± 0.48	4.57 ± 0.28	n = 11	Beckman Coulter UniCel DxI 800
1.99 ± 0.15	9.82 ± 0.13	6.23 ± 0.24	13.79 ± 0.86	9.05 ± 0.14	n = 5	Ortho Vitros 5600
1.76 ± 0.09	5.97 ± 0.05	5.37 ± 0.16	8.69 ± 0.25	6.99 ± 0.18	n = 6	Roche cobas e601
1.77 ± 0.05	6.00 ± 0.09	5.50 ± 0.09	30.90 ± 40.40	25.78 ± 34.15	n = 3	Roche cobas e602
1.70 ± 0.08	5.82 ± 0.09	5.40 ± 0.14	8.54 ± 0.19	6.82 ± 0.18	n = 9	Roche MODULAR E
1.94 ± 0.11	4.54 ± 0.14	4.38 ± 0.14	6.32 ± 0.17	5.78 ± 0.18	n = 46	Siemens ADVIA Centaur
0.67 ± 0.10	4.77 ± 0.16	3.82 ± 0.16	7.47 ± 0.25	5.56 ± 0.20	n = 16	Siemens Dimension Vista
1.44 ± 0.23	3.74 ± 0.20	4.31 ± 0.32	4.86 ± 0.24	4.69 ± 0.52	n = 9	Siemens Immulite 2000
1.70 ± 0.16	4.61 ± 1.00	4.53 ± 0.89	6.39 ± 1.56	5.58 ± 1.15	n = 11	Mean of Above Means
						<Reagents>
1.61 ± 0.17	4.18 ± 0.23	4.33 ± 0.34	6.00 ± 0.38	5.39 ± 0.39	n = 12	Abbott
1.62 ± 0.19	3.87 ± 0.28	3.74 ± 0.21	5.41 ± 0.42	4.74 ± 0.32	n = 23	Beckman Coulter
1.95 ± 0.17	9.82 ± 0.13	6.13 ± 0.33	13.50 ± 1.02	9.05 ± 0.14	n = 6	Ortho Clinical Diagnostics
1.73 ± 0.08	5.89 ± 0.13	5.40 ± 0.17	8.62 ± 0.28	6.94 ± 0.23	n = 20	Roche Elecsys/Modular E/e601/e411
1.94 ± 0.12	4.53 ± 0.15	4.38 ± 0.15	6.31 ± 0.18	5.77 ± 0.19	n = 46	Siemens ADVIA/ADVIA Centaur
0.66 ± 0.09	4.76 ± 0.16	3.82 ± 0.17	7.45 ± 0.25	5.56 ± 0.21	n = 16	Siemens Dimension LOCI
1.45 ± 0.22	3.70 ± 0.25	4.29 ± 0.30	4.87 ± 0.21	4.69 ± 0.48	n = 10	Siemens Immulite
1.71 ± 0.22	4.38 ± 0.70	4.47 ± 0.81	6.43 ± 1.51	5.69 ± 1.21	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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0.35 $\pm$ 0.05	1.41 $\pm$ 0.16	4.97 $\pm$ 0.46	2.21 $\pm$ 0.23	4.06 $\pm$ 0.40	n = 293	All Methods & Instruments
0.35	1.40	5.00	2.20	4.10	n = 293	Median value, All Methods & Instruments
<Instruments>						
0.32 $\pm$ 0.02	1.33 $\pm$ 0.06	4.36 $\pm$ 0.19	2.07 $\pm$ 0.09	3.45 $\pm$ 0.12	n = 21	Abbott Architect i System
0.30 $\pm$ 0.00	1.18 $\pm$ 0.08	4.62 $\pm$ 0.28	1.90 $\pm$ 0.12	3.77 $\pm$ 0.24	n = 27	Beckman Coulter ACCESS
0.30 $\pm$ 0.00	1.15 $\pm$ 0.06	4.48 $\pm$ 0.15	1.90 $\pm$ 0.18	3.67 $\pm$ 0.23	n = 4	Beckman Coulter UniCel DxI 600
0.30 $\pm$ 0.00	1.18 $\pm$ 0.10	4.56 $\pm$ 0.26	1.89 $\pm$ 0.12	3.65 $\pm$ 0.16	n = 13	Beckman Coulter UniCel DxI 800
0.30 $\pm$ 0.00	1.10 $\pm$ 0.00	4.20 $\pm$ 0.18	1.77 $\pm$ 0.05	3.50 $\pm$ 0.09	n = 3	bioMerieux Vidas
0.30 $\pm$ 0.01	1.40 $\pm$ 0.07	5.88 $\pm$ 0.25	2.46 $\pm$ 0.09	4.77 $\pm$ 0.18	n = 18	Ortho Vitros 5600
0.30 $\pm$ 0.00	1.40 $\pm$ 0.00	5.73 $\pm$ 0.13	2.40 $\pm$ 0.05	4.77 $\pm$ 0.11	n = 6	Ortho Vitros Eci/ECiQ
0.40 $\pm$ 0.00	1.54 $\pm$ 0.08	5.06 $\pm$ 0.14	2.35 $\pm$ 0.11	4.21 $\pm$ 0.22	n = 7	Roche cobas e411
0.41 $\pm$ 0.01	1.56 $\pm$ 0.03	5.04 $\pm$ 0.10	2.34 $\pm$ 0.05	4.18 $\pm$ 0.09	n = 20	Roche cobas e601
0.40 $\pm$ 0.00	1.60 $\pm$ 0.00	5.07 $\pm$ 0.06	2.36 $\pm$ 0.08	4.20 $\pm$ 0.09	n = 6	Roche cobas e602
0.43 $\pm$ 0.04	1.61 $\pm$ 0.07	5.27 $\pm$ 0.27	2.41 $\pm$ 0.08	4.33 $\pm$ 0.23	n = 5	Roche Elecsys
0.41 $\pm$ 0.02	1.57 $\pm$ 0.05	5.03 $\pm$ 0.13	2.36 $\pm$ 0.06	4.19 $\pm$ 0.07	n = 14	Roche MODULAR E
0.35 $\pm$ 0.04	1.37 $\pm$ 0.05	4.99 $\pm$ 0.21	2.19 $\pm$ 0.08	4.04 $\pm$ 0.17	n = 62	Siemens ADVIA Centaur
0.41 $\pm$ 0.02	1.62 $\pm$ 0.08	5.45 $\pm$ 0.28	2.45 $\pm$ 0.12	4.47 $\pm$ 0.13	n = 19	Siemens Dimension EXL
0.31 $\pm$ 0.03	1.31 $\pm$ 0.14	4.55 $\pm$ 0.43	2.08 $\pm$ 0.23	3.61 $\pm$ 0.36	n = 4	Siemens Dimension RxL
0.37 $\pm$ 0.03	1.50 $\pm$ 0.07	5.21 $\pm$ 0.19	2.30 $\pm$ 0.13	4.19 $\pm$ 0.16	n = 36	Siemens Dimension Vista
0.30 $\pm$ 0.01	1.21 $\pm$ 0.02	4.18 $\pm$ 0.15	1.96 $\pm$ 0.05	3.45 $\pm$ 0.05	n = 4	Siemens Dimension Xpand
0.40 $\pm$ 0.00	1.32 $\pm$ 0.08	4.78 $\pm$ 0.07	2.22 $\pm$ 0.11	3.86 $\pm$ 0.10	n = 5	Siemens Immulite 1000
0.36 $\pm$ 0.04	1.28 $\pm$ 0.10	4.54 $\pm$ 0.19	1.97 $\pm$ 0.13	3.68 $\pm$ 0.18	n = 14	Siemens Immulite 2000
0.42 $\pm$ 0.05	1.60 $\pm$ 0.07	5.66 $\pm$ 0.17	3.85 $\pm$ 3.16	4.66 $\pm$ 0.15	n = 4	Tosoh Bioscience
0.35 $\pm$ 0.06	1.39 $\pm$ 0.18	4.92 $\pm$ 0.52	2.19 $\pm$ 0.24	4.02 $\pm$ 0.45	n = 20	Mean of Above Means
<Reagents>						
0.32 $\pm$ 0.02	1.33 $\pm$ 0.06	4.36 $\pm$ 0.19	2.07 $\pm$ 0.09	3.45 $\pm$ 0.12	n = 21	Abbott
0.30 $\pm$ 0.00	1.18 $\pm$ 0.09	4.59 $\pm$ 0.26	1.90 $\pm$ 0.12	3.72 $\pm$ 0.22	n = 44	Beckman Coulter
0.30 $\pm$ 0.00	1.10 $\pm$ 0.00	4.20 $\pm$ 0.18	1.77 $\pm$ 0.05	3.50 $\pm$ 0.09	n = 3	bioMerieux Vitek
0.30 $\pm$ 0.01	1.40 $\pm$ 0.07	5.84 $\pm$ 0.24	2.44 $\pm$ 0.09	4.77 $\pm$ 0.16	n = 24	Ortho Clinical Diagnostics
0.41 $\pm$ 0.01	1.57 $\pm$ 0.05	5.05 $\pm$ 0.12	2.35 $\pm$ 0.07	4.19 $\pm$ 0.11	n = 52	Roche Elecsys/Modular E/e601/e411
0.34 $\pm$ 0.05	1.37 $\pm$ 0.06	5.00 $\pm$ 0.24	2.17 $\pm$ 0.09	4.02 $\pm$ 0.18	n = 36	Siemens ADVIA/ADVIA Centaur
0.31 $\pm$ 0.03	1.27 $\pm$ 0.12	4.40 $\pm$ 0.44	2.03 $\pm$ 0.18	3.56 $\pm$ 0.30	n = 9	Siemens Dimension
0.38 $\pm$ 0.03	1.55 $\pm$ 0.09	5.29 $\pm$ 0.25	2.35 $\pm$ 0.15	4.29 $\pm$ 0.22	n = 54	Siemens Dimension LOCI
0.37 $\pm$ 0.04	1.30 $\pm$ 0.10	4.62 $\pm$ 0.21	2.03 $\pm$ 0.16	3.73 $\pm$ 0.18	n = 19	Siemens Immulite
0.37 $\pm$ 0.03	1.37 $\pm$ 0.04	4.96 $\pm$ 0.19	2.20 $\pm$ 0.08	4.06 $\pm$ 0.15	n = 27	Siemens TSH-3
0.34 $\pm$ 0.04	1.34 $\pm$ 0.14	4.79 $\pm$ 0.47	2.13 $\pm$ 0.22	3.89 $\pm$ 0.40	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Vitamin B12 (pg/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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392.2 ± 39.79	377.6 ± 46.18	437.5 ± 52.63	357.7 ± 44.17	373.9 ± 43.61	n = 224	All Methods & Instruments
390.0	382.0	441.0	359.0	374.0	n = 224	Median value, All Methods & Instruments
<Instruments>						
425.3 ± 29.79	403.2 ± 30.20	477.1 ± 27.68	382.6 ± 28.65	407.5 ± 25.53	n = 13	Abbott Architect i System
379.9 ± 26.49	362.9 ± 24.55	425.7 ± 23.96	343.4 ± 19.40	370.5 ± 18.30	n = 20	Beckman Coulter ACCESS
343.8 ± 22.04	328.9 ± 20.19	377.2 ± 12.96	314.0 ± 14.77	337.9 ± 19.78	n = 5	Beckman Coulter UniCel DxI 600
334.8 ± 36.79	314.2 ± 22.08	359.1 ± 22.22	297.9 ± 19.22	319.9 ± 23.08	n = 16	Beckman Coulter UniCel DxI 800
410.6 ± 13.61	382.6 ± 10.28	447.5 ± 15.60	369.3 ± 9.01	395.1 ± 7.78	n = 14	Ortho Vitros 5600
438.3 ± 19.05	395.8 ± 27.01	465.6 ± 19.00	372.8 ± 19.04	406.0 ± 5.67	n = 6	Ortho Vitros ECI/ECIQ
409.7 ± 32.26	395.1 ± 39.68	501.4 ± 51.67	373.3 ± 28.43	385.0 ± 49.99	n = 4	Roche cobas e411
439.8 ± 16.06	423.8 ± 20.48	489.4 ± 14.99	403.3 ± 15.70	423.1 ± 15.02	n = 17	Roche cobas e601
453.8 ± 19.39	437.4 ± 20.97	490.7 ± 31.80	408.0 ± 24.28	423.5 ± 18.03	n = 3	Roche cobas e602
436.5 ± 13.86	421.3 ± 19.86	483.9 ± 14.30	399.8 ± 15.06	414.6 ± 16.74	n = 12	Roche MODULAR E
377.7 ± 23.16	376.9 ± 26.79	430.1 ± 28.84	354.1 ± 24.96	361.9 ± 25.67	n = 72	Siemens ADVIA Centaur
414.3 ± 30.91	392.9 ± 21.86	459.5 ± 29.77	389.7 ± 24.17	391.6 ± 18.82	n = 5	Siemens ADVIA Centaur CP
364.4 ± 23.54	280.8 ± 20.84	350.0 ± 14.97	255.1 ± 25.05	298.5 ± 16.83	n = 19	Siemens Dimension Vista
382.0 ± 33.12	421.7 ± 21.24	471.3 ± 35.73	402.2 ± 33.90	389.9 ± 32.74	n = 4	Siemens Immulite 1000
390.1 ± 26.92	396.7 ± 25.91	483.6 ± 24.66	367.3 ± 23.56	391.6 ± 25.71	n = 10	Siemens Immulite 2000
484.0 ± 45.90	452.1 ± 38.96	527.0 ± 52.92	441.9 ± 29.05	498.7 ± 47.93	n = 3	Tosoh Bioscience
405.4 ± 41.13	392.8 ± 42.06	459.2 ± 49.20	373.3 ± 41.33	388.4 ± 40.57	n = 16	Mean of Above Means
<Reagents>						
425.3 ± 29.79	403.2 ± 30.20	477.1 ± 27.68	382.6 ± 28.65	407.5 ± 25.53	n = 13	Abbott
359.9 ± 36.17	338.8 ± 33.35	391.4 ± 42.27	321.2 ± 29.67	347.2 ± 32.36	n = 41	Beckman Coulter
417.1 ± 18.94	384.7 ± 17.27	452.1 ± 18.60	369.7 ± 11.78	398.1 ± 8.92	n = 20	Ortho Clinical Diagnostics
437.3 ± 20.64	421.1 ± 24.67	486.4 ± 16.73	399.7 ± 18.49	417.2 ± 21.41	n = 37	Roche Elecsys/Modular E/e601/e411
379.4 ± 24.81	378.1 ± 26.75	431.8 ± 29.39	356.1 ± 26.14	364.1 ± 26.60	n = 77	Siemens ADVIA/ADVIA Centaur
364.7 ± 24.39	282.3 ± 20.43	351.0 ± 15.06	256.3 ± 25.75	300.0 ± 15.52	n = 18	Siemens Dimension LOCI
388.4 ± 29.14	403.6 ± 26.89	480.4 ± 28.61	374.9 ± 31.05	390.9 ± 28.30	n = 14	Siemens Immulite
484.0 ± 45.90	452.1 ± 38.96	527.0 ± 52.92	441.9 ± 29.05	498.7 ± 47.93	n = 3	Tosoh AIA
403.8 ± 40.71	388.9 ± 47.33	453.8 ± 54.77	368.2 ± 49.06	387.7 ± 52.34	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Folic Acid (ng/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
5.58 ± 2.06	2.75 ± 0.95	2.44 ± 0.87	6.65 ± 1.36	4.36 ± 0.95	n = 215	All Methods & Instruments
5.40	2.80	2.40	6.60	4.30	n = 215	Median value, All Methods & Instruments
<Instruments>						
5.35 ± 0.71	2.81 ± 0.62	2.69 ± 0.46	7.81 ± 0.82	5.06 ± 0.58	n = 13	Abbott Architect i System
4.81 ± 0.25	2.84 ± 0.17	2.70 ± 0.12	7.88 ± 0.55	4.98 ± 0.23	n = 19	Beckman Coulter ACCESS
4.95 ± 0.34	2.93 ± 0.38	2.70 ± 0.17	7.69 ± 0.73	4.90 ± 0.24	n = 4	Beckman Coulter UniCel DxI 600
4.92 ± 0.26	2.95 ± 0.21	2.71 ± 0.14	7.85 ± 0.55	4.84 ± 0.25	n = 17	Beckman Coulter UniCel DxI 800
3.66 ± 0.28	2.24 ± 0.25	2.21 ± 0.24	6.56 ± 0.58	3.96 ± 0.41	n = 14	Ortho Vitros 5600
3.05 ± 0.23	1.83 ± 0.18	2.06 ± 0.22	5.83 ± 0.65	3.40 ± 0.41	n = 6	Ortho Vitros Eci/ECiQ
5.65 ± 0.99	3.90 ± 0.55	3.90 ± 0.64	6.78 ± 0.96	4.74 ± 0.71	n = 3	Roche cobas e411
5.83 ± 0.44	4.07 ± 0.38	3.80 ± 0.34	6.87 ± 0.57	5.13 ± 0.48	n = 17	Roche cobas e601
5.78 ± 0.51	3.87 ± 0.23	3.69 ± 0.29	6.93 ± 0.14	4.97 ± 0.14	n = 3	Roche cobas e602
5.88 ± 0.45	4.15 ± 0.55	4.06 ± 0.42	7.12 ± 0.61	5.30 ± 0.26	n = 11	Roche MODULAR E
7.87 ± 0.70	2.79 ± 0.32	2.18 ± 0.24	6.17 ± 0.62	4.03 ± 0.40	n = 63	Siemens ADVIA Centaur
7.30 ± 0.27	2.82 ± 0.15	2.36 ± 0.10	7.00 ± 0.46	4.33 ± 0.14	n = 3	Siemens ADVIA Centaur CP
2.17 ± 0.16	0.62 ± 0.19	0.71 ± 0.22	2.69 ± 0.22	1.66 ± 0.19	n = 27	Siemens Dimension Vista
5.63 ± 0.45	2.40 ± 0.30	2.36 ± 0.20	6.71 ± 0.62	4.32 ± 0.22	n = 11	Siemens Immulite 2000
4.86 ± 0.73	4.25 ± 0.55	3.54 ± 0.26	7.01 ± 0.29	4.94 ± 1.08	n = 3	Tosoh Bioscience
5.24 ± 1.35	3.04 ± 0.93	2.81 ± 0.86	7.02 ± 0.63	4.71 ± 0.52	n = 15	Mean of Above Means
<Reagents>						
5.35 ± 0.71	2.81 ± 0.62	2.69 ± 0.46	7.81 ± 0.82	5.06 ± 0.58	n = 13	Abbott
4.87 ± 0.27	2.89 ± 0.22	2.71 ± 0.13	7.85 ± 0.57	4.91 ± 0.26	n = 40	Beckman Coulter
3.46 ± 0.42	2.11 ± 0.30	2.17 ± 0.24	6.35 ± 0.71	3.81 ± 0.48	n = 20	Ortho Clinical Diagnostics
5.82 ± 0.50	4.05 ± 0.44	3.87 ± 0.41	6.95 ± 0.60	5.15 ± 0.44	n = 35	Roche Elecsys/Modular E/e601/e411
7.84 ± 0.69	2.79 ± 0.31	2.19 ± 0.24	6.20 ± 0.64	4.05 ± 0.40	n = 66	Siemens ADVIA/ADVIA Centaur
2.17 ± 0.16	0.62 ± 0.19	0.71 ± 0.22	2.69 ± 0.22	1.66 ± 0.19	n = 27	Siemens Dimension LOCI
5.63 ± 0.45	2.40 ± 0.30	2.36 ± 0.20	6.71 ± 0.62	4.32 ± 0.22	n = 11	Siemens Immulite
4.86 ± 0.73	4.25 ± 0.55	3.54 ± 0.26	7.01 ± 0.29	4.94 ± 1.08	n = 3	Tosoh AIA
5.03 ± 1.55	2.80 ± 1.05	2.58 ± 0.88	6.95 ± 0.66	4.62 ± 0.59	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Cortisol (µg/dL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
2.07 ± 0.32	8.10 ± 1.09	20.19 ± 2.20	12.39 ± 1.74	9.48 ± 0.96	n = 154	All Methods & Instruments
2.10	8.20	20.30	12.60	9.40	n = 154	Median value, All Methods & Instruments
<Instruments>						
2.14 ± 0.24	7.42 ± 0.25	17.17 ± 0.81	10.74 ± 0.59	8.81 ± 0.47	n = 10	Abbott Architect i System
2.25 ± 0.29	8.18 ± 0.86	19.41 ± 1.54	12.24 ± 1.22	9.37 ± 0.68	n = 7	Beckman Coulter ACCESS
2.05 ± 0.28	7.90 ± 0.39	18.00 ± 0.97	12.08 ± 0.63	8.68 ± 0.41	n = 6	Beckman Coulter UniCel DxI 600
2.29 ± 0.18	8.26 ± 0.55	18.65 ± 0.84	12.61 ± 0.76	9.18 ± 0.45	n = 14	Beckman Coulter UniCel DxI 800
2.55 ± 0.27	8.25 ± 0.54	21.61 ± 1.63	12.05 ± 0.63	10.09 ± 0.86	n = 3	LC/MS/MS
1.70 ± 0.08	6.52 ± 0.22	16.35 ± 0.58	9.77 ± 0.23	7.93 ± 0.35	n = 9	Ortho Vitros 5600
1.60 ± 0.11	6.78 ± 0.28	19.87 ± 0.73	10.65 ± 0.40	9.00 ± 0.39	n = 10	Roche cobas e601
1.60 ± 0.09	6.76 ± 0.39	20.15 ± 0.45	10.85 ± 0.27	9.10 ± 0.09	n = 3	Roche cobas e602
1.64 ± 0.09	6.77 ± 0.29	19.98 ± 0.87	10.60 ± 0.36	8.84 ± 0.50	n = 9	Roche MODULAR E
2.17 ± 0.19	8.65 ± 0.46	21.43 ± 1.20	13.32 ± 0.76	10.04 ± 0.67	n = 53	Siemens ADVIA Centaur
2.28 ± 0.06	8.95 ± 0.45	21.53 ± 1.05	13.60 ± 0.18	10.42 ± 0.37	n = 3	Siemens ADVIA Centaur CP
2.16 ± 0.19	9.48 ± 0.85	21.83 ± 2.23	14.86 ± 1.07	10.49 ± 1.07	n = 14	Siemens Immulite 2000
2.05 ± 0.33	7.82 ± 1.01	19.77 ± 1.85	11.87 ± 1.49	9.32 ± 0.79	n = 12	Mean of Above Means
<Reagents>						
2.14 ± 0.24	7.42 ± 0.25	17.17 ± 0.81	10.74 ± 0.59	8.81 ± 0.47	n = 10	Abbott
2.24 ± 0.25	8.16 ± 0.62	18.74 ± 1.25	12.37 ± 0.89	9.11 ± 0.58	n = 27	Beckman Coulter
2.47 ± 0.25	8.02 ± 0.62	20.95 ± 1.76	11.75 ± 0.77	9.85 ± 0.77	n = 5	In-House
1.71 ± 0.07	6.57 ± 0.23	16.50 ± 0.62	9.84 ± 0.29	7.93 ± 0.36	n = 11	Ortho Clinical Diagnostics
1.62 ± 0.10	6.83 ± 0.33	20.12 ± 0.81	10.73 ± 0.44	9.02 ± 0.42	n = 26	Roche Elecsys/Modular E/e601/e411
2.18 ± 0.19	8.67 ± 0.47	21.43 ± 1.19	13.34 ± 0.74	10.06 ± 0.67	n = 56	Siemens ADVIA/ADVIA Centaur
2.18 ± 0.18	9.56 ± 0.88	22.24 ± 2.49	15.11 ± 1.26	10.59 ± 1.11	n = 16	Siemens Immulite
2.10 ± 0.29	7.86 ± 1.03	19.68 ± 2.21	11.83 ± 1.72	9.35 ± 0.87	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Insulin (μU/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
27.50 ± 6.25	300.59 ±101.06	111.31 ± 34.25	109.48 ± 45.75	387.57 ±105.42	n = 99	All Methods & Instruments
27.00	300.00	111.70	117.00	375.10	n = 99	Median value, All Methods & Instruments
<Instruments>						
23.66 ± 0.17	270.92 ± 7.73	93.00 ± 2.00	93.89 ± 1.24	377.76 ± 10.83	n = 7	Abbott Architect i System
21.96 ± 2.06	274.78 ± 17.51	97.52 ± 8.81	92.60 ± 8.50	328.12 ± 44.42	n = 4	Beckman Coulter ACCESS
20.52 ± 0.87	265.03 ± 3.57	93.11 ± 2.35	87.00 ± 4.86	315.69 ± 28.67	n = 3	Beckman Coulter UniCel DxI 600
19.82 ± 1.70	264.39 ± 19.82	96.30 ± 6.56	86.46 ± 6.33	325.25 ± 37.98	n = 7	Beckman Coulter UniCel DxI 800
29.93 ± 0.81	352.07 ± 8.89	121.02 ± 2.19	125.60 ± 2.71	443.81 ± 11.62	n = 8	Roche cobas e601
28.92 ± 1.29	347.96 ± 15.23	116.39 ± 4.00	123.66 ± 5.47	436.23 ± 19.71	n = 5	Roche cobas e602
29.64 ± 0.86	351.59 ± 7.30	117.70 ± 1.91	122.30 ± 2.88	434.57 ± 8.98	n = 8	Roche MODULAR E
36.58 ± 2.35	422.66 ± 50.14	168.30 ± 8.57	173.58 ± 8.58	541.07 ±104.63	n = 22	Siemens ADVIA Centaur
24.37 ± 2.03	185.07 ± 16.32	89.39 ± 6.27	62.87 ± 7.74	299.72 ± 0.51	n = 3	Siemens Immulite 1000
23.05 ± 1.62	166.46 ± 14.44	78.74 ± 5.26	56.29 ± 5.81	297.65 ± 7.99	n = 22	Siemens Immulite 2000
29.38 ± 1.23	330.95 ± 17.23	117.72 ± 2.86	123.91 ± 0.56	395.44 ± 54.01	n = 3	Tosoh Bioscience
25.80 ± 5.03	295.60 ± 75.73	103.24 ± 18.04	102.49 ± 31.96	374.73 ± 75.20	n = 11	Mean of Above Means
<Reagents>						
23.66 ± 0.17	270.92 ± 7.73	93.00 ± 2.00	93.89 ± 1.24	377.76 ± 10.83	n = 7	Abbott
20.67 ± 1.80	266.25 ± 17.20	96.11 ± 6.63	88.38 ± 7.50	325.90 ± 38.47	n = 13	Beckman Coulter
29.75 ± 1.19	352.53 ± 12.75	118.57 ± 3.81	124.17 ± 4.93	441.01 ± 16.03	n = 25	Roche Elecsys/Modular E/e601/e411
36.47 ± 2.34	422.08 ± 48.39	167.69 ± 8.91	173.06 ± 8.72	537.49 ±103.36	n = 23	Siemens ADVIA/ADVIA Centaur
23.59 ± 1.36	184.74 ± 28.13	76.26 ± 6.85	60.71 ± 9.36	300.00 ± 0.00	n = 5	Siemens Immulite
23.07 ± 1.79	166.50 ± 13.44	80.29 ± 5.46	56.46 ± 6.02	297.96 ± 8.11	n = 20	Siemens Immulite-Insulin lot# > 400
29.38 ± 1.23	330.95 ± 17.23	117.72 ± 2.86	123.91 ± 0.56	395.44 ± 54.01	n = 3	Tosoh ST AIA
26.08 ± 5.18	284.16 ± 90.95	102.18 ± 27.00	100.32 ± 39.42	373.36 ± 81.15	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free Estriol (ng/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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0.06 ± 0.04	0.09 ± 0.02	0.08 ± 0.05	0.09 ± 0.02	0.07 ± 0.05	n = 17	All Methods & Instruments
0.07	0.10	0.07	0.10	0.07	n = 17	Median value, All Methods & Instruments
<Instruments>						
0.04 ± 0.05	0.09 ± 0.02	0.05 ± 0.05	0.09 ± 0.02	0.04 ± 0.05	n = 3	Beckman Coulter UniCel DxI 800
0.09 ± 0.02	0.09 ± 0.02	0.09 ± 0.02	0.09 ± 0.02	0.09 ± 0.02	n = 5	Siemens Immulite 2000
0.06 ± 0.03	0.09 ± 0.00	0.06 ± 0.02	0.09 ± 0.00	0.06 ± 0.03	n = 2	Mean of Above Means
<Reagents>						
0.04 ± 0.04	0.08 ± 0.02	0.04 ± 0.04	0.08 ± 0.02	0.04 ± 0.04	n = 7	Beckman Coulter
0.04 ± 0.05	0.07 ± 0.05	0.13 ± 0.05	0.07 ± 0.05	0.11 ± 0.07	n = 3	In-House
0.08 ± 0.02	0.08 ± 0.02	0.08 ± 0.02	0.08 ± 0.02	0.08 ± 0.02	n = 6	Siemens Immulite
0.05 ± 0.02	0.08 ± 0.01	0.08 ± 0.04	0.08 ± 0.01	0.08 ± 0.03	n = 3	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Estradiol (pg/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
29.1 ± 9.30 30.0	110.2 ± 12.11 109.0	91.8 ± 11.28 93.0	37.7 ± 12.15 38.0	43.5 ± 7.65 44.0	n = 162 n = 162	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
36.6 ± 5.28	104.1 ± 5.74	99.3 ± 2.96	53.9 ± 4.03	51.2 ± 5.10	n = 12	Abbott Architect i System
26.4 ± 10.10	132.5 ± 13.52	79.6 ± 17.06	36.5 ± 6.34	46.5 ± 14.08	n = 6	Beckman Coulter ACCESS
35.7 ± 10.65	130.3 ± 21.59	98.3 ± 9.05	46.3 ± 15.55	43.8 ± 10.92	n = 5	Beckman Coulter UniCel DxI 600
25.5 ± 7.75	129.4 ± 8.15	87.6 ± 3.81	36.8 ± 8.08	44.0 ± 8.32	n = 8	Beckman Coulter UniCel DxI 800
19.7 ± 3.71	99.7 ± 9.19	71.0 ± 8.87	45.3 ± 5.20	47.6 ± 5.46	n = 6	Ortho Vitros 5600
33.5 ± 4.95	114.3 ± 4.84	96.9 ± 5.00	44.4 ± 3.30	42.8 ± 3.57	n = 7	Roche cobas e411
39.1 ± 2.51	117.8 ± 4.62	98.6 ± 4.23	46.8 ± 3.18	46.9 ± 1.83	n = 10	Roche cobas e601
39.3 ± 3.12	117.3 ± 5.56	98.8 ± 4.73	44.9 ± 3.11	46.1 ± 4.50	n = 5	Roche cobas e602
39.6 ± 3.24	115.4 ± 3.50	98.8 ± 2.62	47.2 ± 2.94	46.1 ± 3.75	n = 7	Roche MODULAR E
29.8 ± 5.00	105.8 ± 6.54	92.6 ± 6.47	27.7 ± 4.65	41.0 ± 5.23	n = 47	Siemens ADVIA Centaur
38.0 ± 4.51	127.8 ± 6.56	107.2 ± 4.11	40.9 ± 22.56	56.1 ± 25.54	n = 3	Siemens ADVIA Centaur CP
14.7 ± 2.65	55.8 ± 6.91	57.7 ± 5.80	11.0 ± 0.00	11.6 ± 1.12	n = 6	Siemens Dimension Vista
20.0 ± 0.00	97.3 ± 8.28	83.6 ± 9.64	36.0 ± 8.89	37.1 ± 8.50	n = 7	Siemens Immulite 1000
20.0 ± 0.00	111.0 ± 9.01	86.5 ± 7.65	40.9 ± 6.40	45.5 ± 7.12	n = 21	Siemens Immulite 2000
30.3 ± 9.17	115.3 ± 13.08	91.9 ± 11.61	42.4 ± 6.69	45.4 ± 3.93	n = 14	Mean of Above Means
<Reagents>						
36.6 ± 5.28	104.1 ± 5.74	99.3 ± 2.96	53.9 ± 4.03	51.2 ± 5.10	n = 12	Abbott
28.3 ± 10.69	130.6 ± 13.24	88.1 ± 11.60	38.3 ± 10.21	44.6 ± 10.96	n = 19	Beckman Coulter
22.0 ± 12.84	92.4 ± 40.23	86.6 ± 38.17	21.7 ± 10.56	33.6 ± 10.76	n = 3	In-House
20.2 ± 3.37	100.9 ± 8.87	71.5 ± 8.17	45.3 ± 4.63	48.9 ± 3.15	n = 7	Ortho Clinical Diagnostics
38.0 ± 4.13	115.9 ± 4.89	98.0 ± 4.46	45.9 ± 3.17	45.6 ± 3.36	n = 31	Roche Elecsys/Modular E/e601/e411
30.2 ± 4.98	105.7 ± 7.18	93.0 ± 6.87	27.8 ± 4.81	40.6 ± 4.97	n = 39	Siemens ADVIA Centaur Enhanced Estr
30.0 ± 6.72	108.4 ± 7.62	93.9 ± 7.84	27.4 ± 2.85	43.0 ± 4.92	n = 11	Siemens ADVIA/ADVIA Centaur
14.7 ± 2.96	57.7 ± 5.25	58.8 ± 6.08	11.0 ± 0.00	11.8 ± 1.27	n = 5	Siemens Dimension LOCI
20.0 ± 0.00	107.9 ± 11.48	85.8 ± 8.33	39.7 ± 7.41	43.7 ± 8.86	n = 28	Siemens Immulite
26.6 ± 8.11	106.7 ± 11.72	88.5 ± 11.27	35.1 ± 13.55	44.3 ± 4.86	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Testosterone (ng/dL)

Specimen: E11 -----	Specimen: E12 -----	Specimen: E13 -----	Specimen: E14 -----	Specimen: E15 -----	Number -----	Instrument or Reagent System -----
105.11 ± 23.85 107.00	220.30 ± 31.69 220.60	30.87 ± 12.34 29.80	125.22 ± 27.73 120.00	400.70 ± 74.28 391.00	n = 139 n = 139	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
135.46 ± 8.09	186.63 ± 14.23	23.77 ± 2.41	83.76 ± 3.64	430.27 ± 25.15	n = 3	Abbott Architect i System
95.70 ± 7.77	188.67 ± 6.20	32.21 ± 5.49	105.26 ± 5.09	345.76 ± 18.07	n = 9	Beckman Coulter ACCESS
88.49 ± 0.70	181.28 ± 3.52	32.03 ± 2.73	102.15 ± 0.95	320.91 ± 4.80	n = 6	Beckman Coulter UniCel DxI 600
86.83 ± 4.93	179.45 ± 7.97	30.86 ± 2.99	100.25 ± 4.43	320.46 ± 11.31	n = 12	Beckman Coulter UniCel DxI 800
98.57 ± 10.77	214.80 ± 24.56	18.55 ± 3.29	121.60 ± 4.45	380.85 ± 29.93	n = 5	Gamma Counter
117.47 ± 5.41	194.06 ± 6.56	8.28 ± 10.86	95.23 ± 3.18	395.57 ± 14.21	n = 4	LC/MS/MS
79.94 ± 4.74	268.75 ± 14.44	27.91 ± 2.67	136.27 ± 10.72	482.19 ± 18.26	n = 4	Ortho Vitros 5600
124.07 ± 4.31	222.96 ± 9.53	27.04 ± 2.99	111.96 ± 5.79	502.42 ± 22.58	n = 9	Roche cobas e601
126.88 ± 6.94	221.57 ± 6.36	26.91 ± 3.58	111.76 ± 6.95	500.56 ± 14.56	n = 5	Roche cobas e602
131.73 ± 7.41	225.04 ± 5.95	27.04 ± 3.18	113.32 ± 4.88	502.47 ± 11.09	n = 4	Roche Elecsys
120.39 ± 5.66	218.24 ± 9.09	26.60 ± 4.33	109.39 ± 5.09	484.68 ± 21.01	n = 9	Roche MODULAR E
117.26 ± 13.27	239.78 ± 23.75	48.76 ± 11.53	152.24 ± 16.06	400.34 ± 52.32	n = 40	Siemens ADVIA Centaur
76.38 ± 10.25	236.39 ± 24.25	21.67 ± 4.05	147.29 ± 14.26	361.80 ± 36.54	n = 17	Siemens Immulite 2000
50.97 ± 8.66	211.71 ± 24.81	21.09 ± 2.99	103.75 ± 9.94	375.84 ± 37.83	n = 4	Tosoh Bioscience
105.24 ± 25.10	212.36 ± 25.16	26.18 ± 6.14	111.64 ± 18.41	413.44 ± 72.62	n = 14	Mean of Above Means
<Reagents>						
135.46 ± 8.09	186.63 ± 14.23	23.77 ± 2.41	83.76 ± 3.64	430.27 ± 25.15	n = 3	Abbott
89.15 ± 6.58	182.74 ± 8.24	31.49 ± 3.81	101.98 ± 5.04	325.92 ± 18.58	n = 27	Beckman Coulter
117.45 ± 5.43	194.07 ± 6.56	10.29 ± 10.30	95.24 ± 3.19	398.79 ± 13.47	n = 5	In-House
79.94 ± 4.74	268.75 ± 14.44	27.91 ± 2.67	136.27 ± 10.72	482.19 ± 18.26	n = 4	Ortho Clinical Diagnostics
123.89 ± 7.58	221.26 ± 8.69	26.78 ± 3.45	111.37 ± 6.04	496.55 ± 20.87	n = 29	Roche Elecsys/Modular E/e601/e411
116.76 ± 13.60	238.87 ± 24.23	48.30 ± 11.82	151.59 ± 16.60	398.46 ± 53.05	n = 41	Siemens ADVIA/ADVIA Centaur
98.57 ± 10.77	214.80 ± 24.56	18.55 ± 3.29	121.60 ± 4.45	380.85 ± 29.93	n = 5	Siemens Coat-A-Count
77.87 ± 10.56	240.42 ± 26.72	22.13 ± 4.52	149.84 ± 15.76	369.69 ± 45.08	n = 19	Siemens Immulite
54.21 ± 5.59	221.17 ± 19.81	22.42 ± 1.87	107.51 ± 5.00	390.11 ± 35.28	n = 3	Tosoh ST AIA
100.08 ± 26.44	217.77 ± 27.92	24.28 ± 8.02	116.91 ± 24.43	404.70 ± 52.33	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Progesterone (ng/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
8.08 ± 1.03	5.25 ± 0.60	14.21 ± 1.82	15.69 ± 2.18	2.93 ± 0.23	n = 158	All Methods & Instruments
7.90	5.20	14.70	16.00	2.90	n = 158	Median value, All Methods & Instruments
<Instruments>						
9.45 ± 0.36	5.43 ± 0.09	15.07 ± 0.42	15.72 ± 0.34	2.83 ± 0.05	n = 8	Abbott Architect i System
8.57 ± 0.65	5.49 ± 0.62	13.78 ± 1.41	14.86 ± 1.25	3.12 ± 0.31	n = 8	Beckman Coulter ACCESS
8.68 ± 1.24	5.80 ± 0.34	13.49 ± 1.37	15.71 ± 0.45	3.03 ± 0.21	n = 5	Beckman Coulter UniCel DxI 600
8.58 ± 0.63	5.84 ± 0.36	13.91 ± 0.87	15.91 ± 0.28	3.11 ± 0.16	n = 9	Beckman Coulter UniCel DxI 800
8.11 ± 0.98	5.13 ± 0.76	14.85 ± 1.81	15.11 ± 1.75	2.65 ± 0.34	n = 4	LC/MS/MS
5.66 ± 0.18	3.97 ± 0.19	10.21 ± 0.24	10.92 ± 0.21	3.10 ± 0.01	n = 6	Ortho Vitros 5600
9.05 ± 0.34	5.05 ± 0.22	15.38 ± 0.37	16.92 ± 0.31	2.93 ± 0.10	n = 6	Roche cobas e411
8.83 ± 0.18	4.89 ± 0.19	14.63 ± 0.38	16.03 ± 0.75	2.76 ± 0.13	n = 11	Roche cobas e601
9.05 ± 0.16	5.04 ± 0.14	15.06 ± 0.29	16.32 ± 0.38	2.92 ± 0.08	n = 5	Roche cobas e602
8.93 ± 0.17	4.90 ± 0.11	15.00 ± 0.27	16.51 ± 0.24	2.80 ± 0.00	n = 8	Roche MODULAR E
7.87 ± 0.40	5.53 ± 0.40	15.21 ± 0.84	17.10 ± 1.03	2.96 ± 0.21	n = 49	Siemens ADVIA Centaur
7.66 ± 0.52	5.20 ± 0.30	15.45 ± 0.28	17.21 ± 0.23	3.03 ± 0.30	n = 3	Siemens ADVIA Centaur CP
6.84 ± 0.37	5.61 ± 0.62	12.21 ± 0.62	12.94 ± 1.31	3.28 ± 0.24	n = 7	Siemens Immulite 1000
7.08 ± 0.56	4.66 ± 0.30	11.43 ± 0.78	12.31 ± 0.74	2.83 ± 0.20	n = 23	Siemens Immulite 2000
8.33 ± 0.94	5.23 ± 0.45	14.30 ± 1.41	15.62 ± 1.66	2.95 ± 0.17	n = 14	Mean of Above Means
<Reagents>						
9.45 ± 0.36	5.43 ± 0.09	15.07 ± 0.42	15.72 ± 0.34	2.83 ± 0.05	n = 8	Abbott
8.56 ± 0.75	5.73 ± 0.48	13.75 ± 1.23	15.70 ± 1.04	3.09 ± 0.23	n = 22	Beckman Coulter
8.11 ± 0.98	4.67 ± 1.61	14.59 ± 1.68	14.76 ± 1.65	2.43 ± 0.78	n = 5	In-House
5.67 ± 0.15	3.97 ± 0.16	10.17 ± 0.24	10.92 ± 0.19	3.09 ± 0.08	n = 7	Ortho Clinical Diagnostics
8.92 ± 0.20	4.95 ± 0.18	14.93 ± 0.44	16.42 ± 0.58	2.82 ± 0.13	n = 31	Roche Elecsys/Modular E/e601/e411
7.87 ± 0.42	5.51 ± 0.40	15.22 ± 0.81	17.11 ± 0.99	2.96 ± 0.22	n = 52	Siemens ADVIA/ADVIA Centaur
7.02 ± 0.55	4.77 ± 0.44	11.63 ± 0.74	12.39 ± 0.81	2.91 ± 0.28	n = 28	Siemens Immulite Progesterone (LKPW)
8.07 ± 1.18	5.04 ± 0.58	13.90 ± 1.85	14.96 ± 2.16	2.92 ± 0.18	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

17-hydroxyprogesterone (ng/dL)

Specimen: E11 -----	Specimen: E12 -----	Specimen: E13 -----	Specimen: E14 -----	Specimen: E15 -----	Number -----	Instrument or Reagent System -----
16.63 ± 13.51 12.00	35.98 ± 13.62 37.00	110.30 ± 20.40 108.00	89.52 ± 14.02 84.00	56.03 ± 8.54 55.00	n = 11 n = 11	All Methods & Instruments Median value, All Methods & Instruments
10.33 ± 7.53 27.28 ± 30.01 18.81 ± 9.66	31.98 ± 21.92 34.10 ± 10.97 33.04 ± 1.21	67.03 ± 44.67 121.83 ± 10.76 94.43 ± 31.25	71.48 ± 51.59 88.54 ± 14.15 80.01 ± 9.73	33.03 ± 27.90 54.54 ± 4.47 43.78 ± 12.26	n = 3 n = 6 n = 2	<Instruments> Gamma Counter LC/MS/MS Mean of Above Means
27.28 ± 30.01	34.10 ± 10.97	121.83 ± 10.76	88.54 ± 14.15	54.54 ± 4.47	n = 6	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone (DHEA, ng/dL)

Specimen: E11 -----	Specimen: E12 -----	Specimen: E13 -----	Specimen: E14 -----	Specimen: E15 -----	Number -----	Instrument or Reagent System -----
56.3 ± 42.08 48.8	205.1 ±135.06 197.0	268.2 ±151.67 263.0	278.3 ±173.13 290.0	893.6 ±586.22 842.0	n = 9 n = 9	All Methods & Instruments Median value, All Methods & Instruments
73.3 ± 53.83 49.1 ± 34.60 61.2 ± 13.83	242.2 ±133.66 177.9 ±145.73 210.0 ± 36.67	352.5 ±221.10 248.3 ±104.52 300.4 ± 59.42	304.3 ±180.26 256.3 ±188.41 280.3 ± 27.32	1228.9 ±906.71 964.0 ±102.32 1096.5 ±150.99	n = 3 n = 5 n = 2	<Instruments> Automated microplate processor LC/MS/MS Mean of Above Means
40.0 ± 37.36	153.8 ±130.28	211.2 ±124.54	221.2 ±180.60	704.8 ±476.16	n = 6	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone sulfate (DHEA-S, µg/dL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
34.31 ± 7.16	170.48 ± 16.71	172.15 ± 16.48	186.41 ± 20.07	446.06 ± 41.77	n = 80	All Methods & Instruments
33.90	170.00	172.60	186.00	448.00	n = 80	Median value, All Methods & Instruments
<Instruments>						
35.05 ± 1.20	144.51 ± 1.60	160.35 ± 6.05	159.77 ± 1.60	440.31 ± 24.20	n = 5	Abbott Architect i System
36.11 ± 3.02	160.61 ± 12.23	165.23 ± 14.94	170.24 ± 12.55	409.57 ± 38.03	n = 5	Beckman Coulter ACCESS
37.24 ± 1.38	163.44 ± 5.01	171.74 ± 10.86	175.56 ± 3.77	404.05 ± 3.91	n = 3	Beckman Coulter UniCel DxI 800
46.08 ± 4.70	178.29 ± 9.27	177.57 ± 10.74	199.87 ± 16.99	480.58 ± 28.49	n = 4	Roche cobas e601
49.91 ± 1.49	188.17 ± 11.63	191.25 ± 7.99	214.93 ± 17.50	487.46 ± 27.99	n = 3	Roche cobas e602
45.92 ± 1.75	180.12 ± 5.60	178.25 ± 6.18	200.47 ± 6.76	482.25 ± 17.65	n = 7	Roche MODULAR E
28.59 ± 2.83	103.14 ± 6.80	120.94 ± 7.30	115.95 ± 7.05	358.94 ± 18.81	n = 5	Siemens ADVIA Centaur
29.18 ± 1.50	166.74 ± 6.76	173.07 ± 10.81	189.12 ± 13.31	444.16 ± 11.26	n = 3	Siemens Immulite 1000
30.62 ± 3.63	174.11 ± 13.27	174.33 ± 13.44	189.57 ± 13.18	452.15 ± 28.90	n = 38	Siemens Immulite 2000
37.24 ± 8.13	169.69 ± 14.59	173.47 ± 8.60	184.40 ± 23.97	443.40 ± 41.54	n = 9	Mean of Above Means
<Reagents>						
35.05 ± 1.20	144.51 ± 1.60	160.35 ± 6.05	159.77 ± 1.60	440.31 ± 24.20	n = 5	Abbott
36.18 ± 2.46	159.90 ± 10.73	165.16 ± 15.02	172.31 ± 8.95	400.49 ± 26.40	n = 9	Beckman Coulter
46.68 ± 3.23	179.92 ± 10.39	180.81 ± 11.93	199.97 ± 14.26	477.68 ± 26.77	n = 16	Roche Elecsys/Modular E/e601/e411
28.59 ± 2.83	103.14 ± 6.80	120.94 ± 7.30	115.95 ± 7.05	358.94 ± 18.81	n = 5	Siemens ADVIA/ADVIA Centaur
30.47 ± 3.50	173.42 ± 13.02	174.16 ± 13.21	189.54 ± 13.18	451.48 ± 27.72	n = 41	Siemens Immulite
34.57 ± 6.32	156.01 ± 27.49	164.62 ± 19.15	170.96 ± 29.80	428.45 ± 44.61	n = 5	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Lutropin (LH, mIU/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
4.68 ± 0.96	8.40 ± 1.50	158.04 ± 17.53	5.33 ± 1.12	88.76 ± 11.28	n = 187	All Methods & Instruments
4.50	8.20	159.00	5.10	88.30	n = 187	Median value, All Methods & Instruments
<Instruments>						
4.09 ± 0.13	7.59 ± 0.33	134.90 ± 6.45	4.84 ± 0.29	74.70 ± 3.89	n = 13	Abbott Architect i System
3.53 ± 0.19	6.17 ± 0.31	130.41 ± 8.82	3.95 ± 0.25	72.61 ± 5.61	n = 9	Beckman Coulter ACCESS
3.46 ± 0.26	6.32 ± 0.21	140.54 ± 6.68	3.87 ± 0.37	73.82 ± 3.36	n = 5	Beckman Coulter UniCel DxI 600
3.48 ± 0.23	6.44 ± 0.46	137.93 ± 7.53	3.90 ± 0.24	75.07 ± 4.17	n = 14	Beckman Coulter UniCel DxI 800
4.34 ± 0.31	8.10 ± 0.34	200.00 ± 0.00	4.72 ± 0.28	106.45 ± 3.33	n = 11	Ortho Vitros 5600
5.46 ± 0.17	9.86 ± 0.34	163.29 ± 6.88	6.43 ± 0.19	88.26 ± 3.14	n = 6	Roche cobas e411
5.47 ± 0.10	9.80 ± 0.23	158.46 ± 4.68	6.37 ± 0.14	86.77 ± 2.00	n = 14	Roche cobas e601
5.38 ± 0.08	9.81 ± 0.24	157.09 ± 5.36	6.31 ± 0.21	86.16 ± 2.74	n = 5	Roche cobas e602
5.35 ± 0.46	9.82 ± 0.96	158.24 ± 17.31	6.32 ± 0.51	87.02 ± 10.71	n = 3	Roche Elecsys
5.51 ± 0.06	9.89 ± 0.16	162.40 ± 2.88	6.44 ± 0.11	86.91 ± 2.56	n = 7	Roche MODULAR E
4.23 ± 0.28	7.77 ± 0.47	165.56 ± 7.62	4.81 ± 0.31	93.17 ± 5.05	n = 53	Siemens ADVIA Centaur
5.53 ± 0.12	11.22 ± 0.27	150.00 ± 0.00	6.86 ± 0.21	109.06 ± 1.59	n = 9	Siemens Dimension Vista
6.11 ± 0.44	9.97 ± 0.36	179.73 ± 14.38	6.75 ± 0.43	93.22 ± 9.22	n = 6	Siemens Immulite 1000
6.00 ± 0.33	9.44 ± 0.41	156.80 ± 11.56	6.44 ± 0.43	88.13 ± 7.43	n = 23	Siemens Immulite 2000
4.47 ± 0.05	8.24 ± 0.10	156.31 ± 3.62	5.13 ± 0.14	87.25 ± 3.61	n = 3	Tosoh Bioscience
4.86 ± 0.98	8.77 ± 1.63	155.23 ± 15.67	5.60 ± 1.18	86.50 ± 10.25	n = 15	Mean of Above Means
<Reagents>						
4.09 ± 0.13	7.59 ± 0.33	134.90 ± 6.45	4.84 ± 0.29	74.70 ± 3.89	n = 13	Abbott
3.49 ± 0.22	6.30 ± 0.38	136.28 ± 8.76	3.91 ± 0.27	74.20 ± 4.62	n = 28	Beckman Coulter
4.37 ± 0.32	8.16 ± 0.40	200.00 ± 0.00	4.76 ± 0.29	106.79 ± 3.25	n = 12	Ortho Clinical Diagnostics
5.47 ± 0.11	9.85 ± 0.27	160.06 ± 6.15	6.40 ± 0.17	87.16 ± 2.85	n = 35	Roche Elecsys/Modular E/e601/e411
4.25 ± 0.29	7.79 ± 0.49	165.56 ± 7.70	4.83 ± 0.32	93.08 ± 4.95	n = 55	Siemens ADVIA/ADVIA Centaur
5.53 ± 0.12	11.22 ± 0.27	150.00 ± 0.00	6.86 ± 0.21	109.06 ± 1.59	n = 9	Siemens Dimension LOCI
6.02 ± 0.36	9.55 ± 0.45	160.50 ± 14.82	6.51 ± 0.45	89.02 ± 7.86	n = 29	Siemens Immulite
4.73 ± 0.94	8.59 ± 1.63	155.46 ± 19.28	5.43 ± 1.16	90.30 ± 13.89	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Follitropin (FSH, mIU/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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19.74 ± 2.13	4.77 ± 0.69	127.50 ± 22.94	20.89 ± 3.55	153.36 ± 28.81	n = 189	All Methods & Instruments
19.60	4.80	119.82	20.40	145.00	n = 189	Median value, All Methods & Instruments
<Instruments>						
17.36 ± 0.82	4.70 ± 0.24	109.71 ± 4.64	18.17 ± 0.75	132.89 ± 9.94	n = 13	Abbott Architect i System
19.97 ± 0.88	5.47 ± 0.23	121.35 ± 6.32	21.17 ± 0.71	140.14 ± 4.20	n = 8	Beckman Coulter ACCESS
19.43 ± 1.45	5.28 ± 0.40	115.33 ± 11.87	20.96 ± 1.34	145.05 ± 8.71	n = 5	Beckman Coulter UniCel DxI 600
20.05 ± 1.25	5.55 ± 0.26	122.50 ± 7.21	20.65 ± 1.44	145.39 ± 9.72	n = 14	Beckman Coulter UniCel DxI 800
16.06 ± 0.38	4.35 ± 0.28	112.15 ± 3.57	18.11 ± 0.65	137.18 ± 2.68	n = 11	Ortho Vitros 5600
20.22 ± 0.62	5.25 ± 0.15	130.31 ± 5.09	21.92 ± 0.37	157.60 ± 5.81	n = 6	Roche cobas e411
18.19 ± 0.51	4.73 ± 0.14	117.58 ± 2.07	19.55 ± 0.54	142.55 ± 3.23	n = 14	Roche cobas e601
18.35 ± 0.54	4.85 ± 0.23	118.98 ± 3.71	19.97 ± 0.66	142.78 ± 1.06	n = 5	Roche cobas e602
19.77 ± 0.76	5.08 ± 0.24	127.11 ± 3.61	21.38 ± 0.69	155.66 ± 6.59	n = 3	Roche Elecsys
18.30 ± 0.56	4.71 ± 0.19	117.79 ± 3.72	19.25 ± 0.49	142.75 ± 4.81	n = 7	Roche MODULAR E
21.90 ± 1.09	4.84 ± 0.34	157.56 ± 9.20	25.14 ± 1.29	193.38 ± 9.81	n = 58	Siemens ADVIA Centaur
18.10 ± 0.29	5.22 ± 0.12	116.69 ± 1.82	20.21 ± 0.43	140.44 ± 3.06	n = 8	Siemens Dimension Vista
18.49 ± 0.81	3.20 ± 0.16	104.86 ± 4.38	15.64 ± 0.53	129.10 ± 7.20	n = 6	Siemens Immulite 1000
19.72 ± 0.98	3.40 ± 0.19	109.81 ± 6.81	16.68 ± 0.86	126.09 ± 10.99	n = 22	Siemens Immulite 2000
20.83 ± 1.39	6.07 ± 0.05	112.31 ± 2.39	20.55 ± 0.19	139.03 ± 9.65	n = 3	Tosoh Bioscience
19.15 ± 1.43	4.95 ± 0.65	116.68 ± 6.99	19.95 ± 2.06	140.96 ± 8.34	n = 15	Mean of Above Means
<Reagents>						
17.36 ± 0.82	4.70 ± 0.24	109.71 ± 4.64	18.17 ± 0.75	132.89 ± 9.94	n = 13	Abbott
19.92 ± 1.20	5.49 ± 0.29	121.44 ± 7.82	20.85 ± 1.27	143.35 ± 8.36	n = 27	Beckman Coulter
16.10 ± 0.37	4.32 ± 0.28	111.58 ± 3.98	18.04 ± 0.66	136.78 ± 2.98	n = 12	Ortho Clinical Diagnostics
18.66 ± 1.03	4.85 ± 0.28	120.53 ± 6.77	20.08 ± 1.25	146.10 ± 8.20	n = 35	Roche Elecsys/Modular E/e601/e411
21.88 ± 1.09	4.83 ± 0.34	157.59 ± 9.22	25.09 ± 1.31	193.22 ± 10.18	n = 60	Siemens ADVIA/ADVIA Centaur
18.10 ± 0.29	5.22 ± 0.12	116.69 ± 1.82	20.21 ± 0.43	140.44 ± 3.06	n = 8	Siemens Dimension LOCI
19.47 ± 1.08	3.35 ± 0.20	108.47 ± 6.50	16.45 ± 0.93	126.80 ± 10.13	n = 28	Siemens Immulite
18.72 ± 1.79	4.78 ± 0.60	114.65 ± 5.72	19.51 ± 2.44	138.09 ± 6.93	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Prolactin (µg/L)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
1.86 ± 0.33	3.31 ± 0.64	4.79 ± 0.58	16.34 ± 2.86	23.98 ± 3.71	n = 168	All Methods & Instruments
1.80	3.40	4.80	15.80	23.38	n = 168	Median value, All Methods & Instruments
<Instruments>						
1.90 ± 0.12	3.45 ± 0.14	5.31 ± 0.20	18.04 ± 0.52	26.05 ± 1.18	n = 10	Abbott Architect i System
1.69 ± 0.05	2.59 ± 0.05	4.44 ± 0.16	15.19 ± 0.30	22.21 ± 0.77	n = 8	Beckman Coulter ACCESS
1.68 ± 0.13	2.50 ± 0.06	4.23 ± 0.14	14.83 ± 0.52	22.15 ± 0.43	n = 5	Beckman Coulter UniCel DxI 600
1.69 ± 0.19	2.49 ± 0.28	4.19 ± 0.22	15.15 ± 0.77	21.99 ± 0.93	n = 14	Beckman Coulter UniCel DxI 800
1.98 ± 0.43	3.47 ± 0.66	5.56 ± 0.29	14.88 ± 0.63	23.15 ± 1.31	n = 10	Ortho Vitros 5600
2.51 ± 0.27	4.04 ± 0.23	5.44 ± 0.40	22.48 ± 1.55	31.04 ± 1.78	n = 5	Roche cobas e411
2.37 ± 0.10	3.96 ± 0.08	5.25 ± 0.15	21.97 ± 0.77	30.90 ± 1.19	n = 10	Roche cobas e601
2.30 ± 0.00	3.80 ± 0.09	5.20 ± 0.18	21.34 ± 0.26	30.60 ± 0.18	n = 3	Roche cobas e602
2.45 ± 0.12	4.06 ± 0.23	5.44 ± 0.29	22.51 ± 1.26	31.37 ± 1.84	n = 4	Roche Elecsys
2.34 ± 0.08	3.89 ± 0.11	5.25 ± 0.12	21.97 ± 0.17	30.73 ± 0.50	n = 6	Roche MODULAR E
1.87 ± 0.15	3.56 ± 0.21	4.79 ± 0.22	15.65 ± 1.19	23.08 ± 1.23	n = 53	Siemens ADVIA Centaur
1.55 ± 0.06	2.98 ± 0.10	4.78 ± 0.15	19.05 ± 0.68	27.57 ± 0.68	n = 11	Siemens Dimension Vista
1.47 ± 0.08	2.42 ± 0.14	3.75 ± 0.17	13.33 ± 0.74	19.34 ± 1.03	n = 18	Siemens Immulite 2000
1.98 ± 0.39	3.35 ± 0.68	4.95 ± 0.59	18.14 ± 3.75	26.18 ± 4.68	n = 13	Mean of Above Means
<Reagents>						
1.92 ± 0.12	3.46 ± 0.13	5.29 ± 0.20	18.04 ± 0.55	25.83 ± 1.44	n = 11	Abbott
1.69 ± 0.14	2.51 ± 0.17	4.28 ± 0.23	15.12 ± 0.61	22.09 ± 0.80	n = 27	Beckman Coulter
1.97 ± 0.43	3.47 ± 0.58	5.64 ± 0.31	14.88 ± 0.53	23.05 ± 1.16	n = 12	Ortho Clinical Diagnostics
2.37 ± 0.11	3.93 ± 0.16	5.27 ± 0.24	21.97 ± 0.90	30.85 ± 0.79	n = 28	Roche Elecsys/Modular E/e601/e411
1.88 ± 0.15	3.57 ± 0.21	4.79 ± 0.23	15.68 ± 1.16	23.11 ± 1.20	n = 55	Siemens ADVIA/ADVIA Centaur
1.55 ± 0.06	2.98 ± 0.10	4.78 ± 0.15	19.05 ± 0.68	27.57 ± 0.68	n = 11	Siemens Dimension LOCI
1.48 ± 0.08	2.43 ± 0.15	3.79 ± 0.21	13.42 ± 0.74	19.55 ± 1.23	n = 20	Siemens Immulite
1.81 ± 0.28	3.21 ± 0.57	4.87 ± 0.62	16.63 ± 2.85	24.36 ± 3.66	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact Parathyrin (PTH, pg/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
4.43 ± 3.26 5.08	3.34 ± 2.23 3.00	3.04 ± 2.01 3.00	8.81 ± 4.37 8.33	18.83 ± 9.53 19.00	n = 173 n = 173	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
1.39 ± 2.28	1.48 ± 2.25	1.50 ± 2.19	5.42 ± 2.39	11.14 ± 7.27	n = 13	Beckman Coulter ACCESS
0.37 ± 0.55	0.52 ± 0.48	0.37 ± 0.55	7.22 ± 3.27	16.59 ± 6.94	n = 6	Beckman Coulter UniCel DxI 600
0.78 ± 0.44	0.79 ± 0.43	0.79 ± 0.43	5.59 ± 2.73	12.59 ± 6.09	n = 15	Beckman Coulter UniCel DxI 800
3.40 ± 0.00	3.40 ± 0.00	3.40 ± 0.00	14.19 ± 0.49	31.65 ± 3.68	n = 7	Ortho Vitros 5600
6.34 ± 1.87	3.41 ± 1.37	3.32 ± 1.53	9.51 ± 3.66	18.84 ± 8.15	n = 19	Roche cobas e601
5.62 ± 0.56	3.03 ± 0.23	3.01 ± 0.34	12.45 ± 1.44	23.96 ± 2.93	n = 5	Roche cobas e602
5.90 ± 0.68	3.76 ± 1.26	2.70 ± 0.76	11.10 ± 4.43	20.22 ± 7.86	n = 5	Roche Elecsys
5.27 ± 0.47	2.59 ± 0.47	2.43 ± 0.33	10.44 ± 3.88	20.47 ± 7.77	n = 10	Roche MODULAR E
3.87 ± 2.40	3.88 ± 2.39	3.89 ± 2.51	7.67 ± 3.75	22.07 ± 9.53	n = 49	Siemens ADVIA Centaur
4.17 ± 1.53	4.17 ± 1.53	4.17 ± 1.53	6.92 ± 3.04	14.88 ± 10.25	n = 6	Siemens ADVIA Centaur CP
15.69 ± 11.87	4.34 ± 1.64	4.24 ± 1.18	10.38 ± 5.04	16.22 ± 9.10	n = 7	Siemens Immulite 1000
10.18 ± 3.64	4.83 ± 1.97	3.00 ± 0.00	12.09 ± 4.45	18.40 ± 10.42	n = 22	Siemens Immulite 2000
1.00 ± 0.00	1.00 ± 0.00	1.00 ± 0.00	9.43 ± 3.00	20.39 ± 5.06	n = 5	Tosoh Bioscience
4.08 ± 3.25	2.96 ± 1.51	2.69 ± 1.34	9.41 ± 2.79	18.53 ± 4.57	n = 13	Mean of Above Means
<Reagents>						
0.53 ± 0.54	0.61 ± 0.48	0.60 ± 0.49	5.75 ± 2.79	12.65 ± 7.04	n = 34	Beckman Coulter
3.40 ± 0.00	3.40 ± 0.00	3.40 ± 0.00	14.19 ± 0.49	31.65 ± 3.68	n = 7	Ortho Clinical Diagnostics
5.61 ± 0.95	3.23 ± 1.20	2.98 ± 1.16	10.29 ± 3.73	19.94 ± 7.74	n = 41	Roche Elecsys/Modular E/e601/e411
3.91 ± 2.29	3.91 ± 2.29	3.92 ± 2.39	7.57 ± 3.67	21.32 ± 9.90	n = 55	Siemens ADVIA/ADVIA Centaur
9.44 ± 4.10	4.52 ± 1.89	3.00 ± 0.00	11.30 ± 4.79	17.35 ± 10.18	n = 25	Siemens Immulite
24.60 ± 4.62	5.47 ± 1.27	5.06 ± 0.16	13.91 ± 3.26	21.15 ± 8.30	n = 4	Siemens Immulite Turbo
1.81 ± 1.48	1.81 ± 1.48	1.81 ± 1.48	8.58 ± 2.32	18.77 ± 4.50	n = 3	Tosoh ST AIA
3.82 ± 2.90	3.37 ± 1.58	3.03 ± 1.37	10.22 ± 3.19	19.58 ± 4.58	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D2 (ng/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
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2.98 ± 1.14	2.90 ± 1.44	2.99 ± 1.55	2.67 ± 1.54	2.83 ± 1.74	n = 16	All Methods & Instruments
3.00	3.00	3.00	2.00	2.50	n = 16	Median value, All Methods & Instruments
2.98 ± 1.14	2.90 ± 1.44	2.99 ± 1.55	2.67 ± 1.54	2.83 ± 1.74	n = 16	<Instruments> LC/MS/MS
2.98 ± 1.14	2.90 ± 1.44	2.99 ± 1.55	2.67 ± 1.54	2.83 ± 1.74	n = 16	<Reagents> In-House

25-OH Vitamin D3 (ng/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
20.64 ± 1.23	25.32 ± 2.68	34.72 ± 2.64	45.77 ± 4.86	59.28 ± 4.16	n = 16	All Methods & Instruments
20.30	25.00	35.00	45.80	59.10	n = 16	Median value, All Methods & Instruments
20.64 ± 1.23	25.32 ± 2.68	34.72 ± 2.64	45.77 ± 4.86	59.28 ± 4.16	n = 16	<Instruments> LC/MS/MS
20.64 ± 1.23	25.32 ± 2.68	34.72 ± 2.64	45.77 ± 4.86	59.28 ± 4.16	n = 16	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
23.80 ± 4.34	26.29 ± 12.63	30.86 ± 6.97	37.23 ± 16.07	48.39 ± 13.81	n = 163	All Methods & Instruments
23.90	23.80	31.20	33.70	44.00	n = 163	Median value, All Methods & Instruments
<Instruments>						
24.44 ± 1.39	23.17 ± 0.87	31.36 ± 1.21	31.20 ± 1.89	44.35 ± 1.97	n = 18	Abbott Architect i System
22.12 ± 1.74	15.65 ± 1.38	23.66 ± 1.76	23.10 ± 1.96	37.03 ± 3.16	n = 51	DiaSorin Liaison
26.27 ± 7.28	22.29 ± 5.07	30.00 ± 6.33	35.05 ± 4.90	49.90 ± 11.60	n = 3	Gamma Counter
20.94 ± 1.69	22.60 ± 1.72	30.62 ± 2.27	33.87 ± 1.02	45.06 ± 2.64	n = 4	Immunodiagnostic Systems-iSYS Immun
21.77 ± 1.76	25.99 ± 2.78	35.84 ± 2.71	46.46 ± 4.87	60.59 ± 4.51	n = 15	LC/MS/MS
73.47 ± 4.72	56.02 ± 3.39	48.28 ± 3.16	37.48 ± 1.90	43.27 ± 2.73	n = 7	Ortho Vitros 5600
19.35 ± 2.70	22.50 ± 3.74	32.82 ± 2.29	33.25 ± 3.52	39.74 ± 3.09	n = 4	Roche cobas e411
18.97 ± 1.86	24.15 ± 2.66	30.62 ± 3.81	31.42 ± 3.56	40.81 ± 4.56	n = 10	Roche cobas e601
30.30 ± 4.42	41.78 ± 4.67	35.50 ± 4.35	60.12 ± 5.48	65.54 ± 5.21	n = 39	Siemens ADVIA Centaur
27.39 ± 1.38	29.86 ± 2.44	33.76 ± 3.73	44.93 ± 4.89	61.03 ± 10.68	n = 3	UV/Vis Photometer
23.26 ± 3.86	23.54 ± 3.83	32.09 ± 3.41	36.26 ± 9.02	47.86 ± 10.25	n = 10	Mean of Above Means
<Reagents>						
24.44 ± 1.39	23.17 ± 0.87	31.36 ± 1.21	31.20 ± 1.89	44.35 ± 1.97	n = 18	Abbott
22.07 ± 1.72	15.63 ± 1.39	23.62 ± 1.75	23.07 ± 1.88	36.91 ± 3.06	n = 50	DiaSorin Liaison
27.45 ± 0.98	30.63 ± 3.16	36.42 ± 3.59	44.38 ± 4.94	61.56 ± 10.54	n = 6	Immunodiagnostic Systems Enzyme Imm
21.56 ± 2.00	21.57 ± 2.94	29.30 ± 3.24	33.24 ± 1.60	44.43 ± 2.59	n = 5	Immunodiagnostic Systems-iSYS chemi
21.77 ± 1.76	25.99 ± 2.78	35.84 ± 2.71	46.46 ± 4.87	60.59 ± 4.51	n = 15	In-House
72.67 ± 4.91	56.01 ± 2.62	48.95 ± 3.40	37.07 ± 2.07	43.70 ± 2.75	n = 8	Ortho Clinical Diagnostics
19.25 ± 2.23	24.06 ± 2.99	31.71 ± 3.40	32.12 ± 3.49	40.60 ± 3.99	n = 17	Roche Elecsys/Modular E/e601/e411
29.70 ± 4.12	41.01 ± 4.08	34.93 ± 4.24	60.22 ± 5.61	64.61 ± 4.54	n = 32	Siemens ADVIA Centaur - Vitamin D T
34.07 ± 5.56	46.46 ± 5.79	37.99 ± 3.95	63.66 ± 11.66	70.88 ± 5.91	n = 7	Siemens ADVIA/ADVIA Centaur
24.56 ± 4.83	30.27 ± 13.02	33.83 ± 5.93	40.24 ± 13.55	51.49 ± 12.89	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact human Choriogonadotropin (intact hCG, mIU/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
55.6 ± 2.97	1.3 ± 0.72	47.8 ± 4.06	1.2 ± 0.81	40.9 ± 2.74	n = 47	All Methods & Instruments
56.0	1.0	49.0	1.0	41.0	n = 47	Median value, All Methods & Instruments
						<Instruments>
52.8 ± 1.86	0.9 ± 0.60	42.0 ± 2.06	0.8 ± 0.57	37.5 ± 1.87	n = 11	Roche cobas e601
56.0 ± 2.68	1.4 ± 0.94	49.7 ± 2.59	1.4 ± 1.03	41.3 ± 2.09	n = 14	Siemens Dimension EXL
56.9 ± 2.42	1.4 ± 0.56	49.0 ± 1.98	1.4 ± 0.56	42.1 ± 1.48	n = 12	Siemens Dimension RxL
57.3 ± 2.31	1.3 ± 0.51	50.3 ± 0.97	1.0 ± 0.90	42.8 ± 1.22	n = 6	Siemens Dimension Xpand
56.1 ± 1.78	1.3 ± 0.23	48.4 ± 3.22	1.1 ± 0.27	41.2 ± 2.05	n = 4	Mean of Above Means
						<Reagents>
53.2 ± 2.10	1.0 ± 0.72	42.5 ± 2.51	0.8 ± 0.53	38.0 ± 2.15	n = 13	Roche Elecsys/Modular E/e601/e411
56.6 ± 2.58	1.4 ± 0.68	49.6 ± 2.14	1.3 ± 0.82	41.9 ± 1.81	n = 32	Siemens Dimension
54.9 ± 1.96	1.2 ± 0.22	46.0 ± 4.03	1.1 ± 0.26	39.9 ± 2.28	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Total Beta hCG (mIU/mL)

Specimen: E11	Specimen: E12	Specimen: E13	Specimen: E14	Specimen: E15	Number	Instrument or Reagent System
70.9 ± 8.52 72.7	1.3 ± 0.64 1.1	39.7 ± 9.06 41.0	1.3 ± 0.81 1.0	50.2 ± 8.10 52.0	n = 250 n = 250	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
62.0 ± 2.26	1.9 ± 1.68	32.8 ± 0.82	1.8 ± 1.68	43.4 ± 2.29	n = 23	Abbott Architect i System
75.0 ± 5.48	1.0 ± 0.08	28.4 ± 2.06	0.9 ± 0.33	51.3 ± 3.39	n = 25	Beckman Coulter ACCESS
74.8 ± 5.18	1.6 ± 0.52	29.6 ± 1.09	1.0 ± 0.58	55.1 ± 5.52	n = 7	Beckman Coulter UniCel DxI 600
75.6 ± 5.15	1.1 ± 0.37	29.7 ± 2.06	1.0 ± 0.00	52.4 ± 3.82	n = 12	Beckman Coulter UniCel DxI 800
71.0 ± 4.11	2.3 ± 0.28	49.7 ± 2.43	2.3 ± 0.28	52.0 ± 2.80	n = 20	Ortho Vitros 5600
67.8 ± 3.61	3.3 ± 1.59	47.4 ± 2.35	3.3 ± 1.59	49.9 ± 2.23	n = 6	Ortho Vitros ECI/ECiQ
83.5 ± 4.33	0.9 ± 0.14	44.5 ± 1.09	0.9 ± 0.55	60.5 ± 1.55	n = 7	Roche cobas e411
79.8 ± 3.09	1.3 ± 1.54	43.2 ± 1.38	1.4 ± 1.83	58.6 ± 1.81	n = 13	Roche cobas e601
77.7 ± 1.58	1.5 ± 1.74	42.5 ± 1.22	1.2 ± 1.94	57.0 ± 1.65	n = 4	Roche cobas e602
83.6 ± 2.55	0.7 ± 0.23	43.8 ± 0.92	0.2 ± 0.05	60.8 ± 1.59	n = 3	Roche Elecsys
80.6 ± 3.00	1.0 ± 0.47	43.7 ± 1.29	0.9 ± 0.75	58.7 ± 2.16	n = 12	Roche MODULAR E
63.6 ± 2.84	2.0 ± 0.00	34.7 ± 1.37	1.8 ± 0.55	41.0 ± 2.20	n = 50	Siemens ADVIA Centaur
58.6 ± 2.45	2.9 ± 1.18	33.3 ± 0.88	2.4 ± 1.24	38.1 ± 1.88	n = 4	Siemens ADVIA Centaur CP
73.4 ± 1.67	1.0 ± 0.00	46.1 ± 1.02	1.0 ± 0.00	53.3 ± 1.12	n = 40	Siemens Dimension Vista
108.0 ± 3.42	1.6 ± 1.64	46.2 ± 1.27	1.6 ± 1.64	64.5 ± 1.22	n = 4	Siemens Immulite 1000
132.1 ± 9.25	1.0 ± 0.00	59.3 ± 4.04	1.0 ± 0.00	92.7 ± 6.04	n = 14	Siemens Immulite 2000
74.2 ± 8.88	1.4 ± 0.67	40.9 ± 8.71	1.3 ± 0.68	53.8 ± 7.70	n = 16	Mean of Above Means
<Reagents>						
61.7 ± 2.59	2.0 ± 1.83	32.9 ± 0.86	2.0 ± 1.84	43.3 ± 2.24	n = 24	Abbott
75.1 ± 5.33	1.1 ± 0.41	29.0 ± 2.18	0.9 ± 0.30	52.0 ± 4.15	n = 44	Beckman Coulter
70.2 ± 4.22	2.3 ± 0.30	49.2 ± 2.59	2.3 ± 0.30	51.5 ± 2.79	n = 26	Ortho Clinical Diagnostics
80.6 ± 3.61	0.9 ± 0.28	43.5 ± 1.39	0.7 ± 0.63	59.0 ± 2.18	n = 39	Roche Elecsys/Modular E/e601/e411
63.2 ± 3.08	2.0 ± 0.00	34.6 ± 1.41	2.0 ± 0.00	40.8 ± 2.30	n = 54	Siemens ADVIA/ADVIA Centaur
69.1 ± 7.95	1.0 ± 0.00	47.4 ± 2.56	0.7 ± 0.51	49.5 ± 5.40	n = 3	Siemens Dimension
73.3 ± 1.72	1.0 ± 0.00	46.1 ± 1.05	1.0 ± 0.00	53.4 ± 1.13	n = 38	Siemens Dimension LOCI
127.0 ± 13.45	1.0 ± 0.00	56.8 ± 6.88	1.0 ± 0.00	88.1 ± 12.79	n = 18	Siemens Immulite
70.5 ± 6.56	1.4 ± 0.61	42.6 ± 9.53	1.3 ± 0.68	50.2 ± 6.10	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Qualitative hCG report:

[AB1] Abbott		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
-----		-----	-----	-----	-----	-----
	Negative	0	8	0	8	0
	Indeterminant	0	0	1	0	0
	Positive	8	0	7	0	8
[AR1] Alere hCG Combo Cassette		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
-----		-----	-----	-----	-----	-----
	Negative	0	6	0	6	0
	Indeterminant	0	0	0	0	0
	Positive	6	0	6	0	6
[BC1] Beckman Coulter		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
-----		-----	-----	-----	-----	-----
	Negative	0	28	0	28	0
	Indeterminant	0	0	0	0	0
	Positive	28	0	28	0	28
[CD1] Cardinal Health		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
-----		-----	-----	-----	-----	-----
	Negative	0	17	0	17	0
	Indeterminant	0	0	0	0	0
	Positive	17	0	17	0	17
[CM1] CEN-MED Elite Plus hCG One Step		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
-----		-----	-----	-----	-----	-----
	Negative	0	5	0	5	0
	Indeterminant	0	0	0	0	0
	Positive	5	0	5	0	5
[FI1] Fisher		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
-----		-----	-----	-----	-----	-----
	Negative	0	48	0	48	0
	Indeterminant	0	0	0	0	0
	Positive	48	0	48	0	48
[IM1] Inverness Medical		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
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	Negative	0	2	0	2	0
	Indeterminant	0	0	0	0	0
	Positive	2	0	2	0	2

Statistical Summary (Mean and Standard Deviation)

[JJ1] Ortho Clinical Diagnostics	Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative	0	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	3	1	3	1	3
[PM1] Polymedco	Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
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:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
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:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative	0	17	0	17	0
Indeterminant	0	0	0	0	0
Positive	17	0	17	0	17
[R03] Roche Elecsys/Modular E/e601/e411	Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative	0	10	0	10	0
Indeterminant	0	0	0	0	0
Positive	10	0	10	0	10
[GZ1] Sekisui Diagnostics (Genzyme)	Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative	0	7	0	7	0
Indeterminant	0	0	0	0	0
Positive	7	0	7	0	7
[BY1] Siemens ADVIA/ADVIA Centaur	Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative	0	21	0	21	0
Indeterminant	0	0	0	0	0
Positive	21	0	21	0	21

Statistical Summary (Mean and Standard Deviation)

[DA5] Siemens Dimension		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative		0	2	0	2	0
Indeterminant		0	0	0	0	0
Positive		2	0	2	0	2
[DA6] Siemens Dimension LOCI		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative		0	4	0	4	0
Indeterminant		0	0	0	0	0
Positive		4	0	4	0	4
[DP5] Siemens Immulite		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative		0	2	0	2	0
Indeterminant		0	0	0	0	0
Positive		2	0	2	0	2
[SB1] Stanbio		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative		0	8	0	8	0
Indeterminant		0	0	0	0	0
Positive		8	0	8	0	8
[TR1] TrueMedix		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative		0	5	0	5	0
Indeterminant		0	0	0	0	0
Positive		5	0	5	0	5
[---] All Methods & Instruments		Specimen:E11	Specimen:E12	Specimen:E13	Specimen:E14	Specimen:E15
Negative		0	215	0	215	0
Indeterminant		0	0	1	0	0
Positive		216	1	215	1	216