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Endocrinology Proficiency Test Program

Statistical Summary – May 2015 (Event 15-2)

This statistical report summarizes participant data for the five Endocrinology proficiency survey specimens shipped 4 May 2015. Test specimens E26-E30 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) 474-6706 or email: clinchem@wadsworth.org

Please note that 17-hydroxyprogesterone and dehydroepiandrosterone (DHEA), included in this proficiency test event as educational challenges, will be graded beginning with the January 2016 event.

Statistical Summary (Mean and Standard Deviation)

Thyroxin (T4, µg/dL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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2.00 ± 0.83	9.34 ± 1.12	7.44 ± 0.90	15.83 ± 2.01	11.14 ± 1.30	n = 234	All Methods & Instruments
2.00	9.30	7.41	15.72	11.00	n = 234	Median value, All Methods & Instruments
<Instruments>						
2.67 ± 0.24	7.70 ± 0.35	6.01 ± 0.30	13.71 ± 0.94	8.95 ± 0.47	n = 20	Abbott Architect i System
1.86 ± 0.15	9.40 ± 0.88	7.54 ± 0.76	16.32 ± 1.25	11.55 ± 0.91	n = 19	Beckman Coulter ACCESS
2.28 ± 0.09	9.43 ± 0.28	7.05 ± 0.31	17.51 ± 0.60	11.20 ± 0.39	n = 7	Beckman Coulter AU Chemistry System
1.72 ± 0.24	9.11 ± 0.65	7.27 ± 0.95	15.61 ± 1.19	10.94 ± 0.86	n = 4	Beckman Coulter UniCel DxI 600
1.52 ± 0.20	9.16 ± 0.67	7.03 ± 0.59	15.64 ± 1.09	10.93 ± 0.77	n = 15	Beckman Coulter UniCel DxI 800
1.99 ± 0.09	9.22 ± 0.33	7.68 ± 0.30	16.30 ± 0.48	11.77 ± 0.52	n = 16	Ortho Vitros 5600
1.92 ± 0.18	9.03 ± 0.47	7.51 ± 0.40	16.04 ± 0.68	11.74 ± 0.35	n = 4	Ortho Vitros ECI/ECiQ
2.19 ± 0.93	9.93 ± 0.41	7.75 ± 0.27	16.38 ± 0.77	11.52 ± 0.50	n = 3	Roche cobas e411
2.57 ± 0.16	9.26 ± 0.48	7.17 ± 0.31	15.72 ± 0.73	10.85 ± 0.42	n = 20	Roche cobas e601
2.56 ± 0.08	9.48 ± 0.33	7.45 ± 0.19	16.48 ± 0.80	11.32 ± 0.50	n = 6	Roche cobas e602
2.45 ± 0.05	9.02 ± 0.23	6.95 ± 0.11	15.21 ± 0.43	10.65 ± 0.18	n = 3	Roche Elecsys
2.58 ± 0.16	9.34 ± 0.10	7.43 ± 0.08	16.15 ± 0.46	10.91 ± 0.32	n = 7	Roche MODULAR E
0.82 ± 0.30	9.13 ± 0.44	7.58 ± 0.44	14.37 ± 0.80	10.73 ± 0.42	n = 49	Siemens ADVIA Centaur
2.55 ± 0.19	10.70 ± 0.54	8.30 ± 0.60	18.28 ± 0.49	12.64 ± 0.49	n = 6	Siemens Dimension EXL
2.93 ± 0.70	11.93 ± 0.53	9.31 ± 0.69	19.53 ± 0.84	13.82 ± 0.74	n = 30	Siemens Dimension Vista
1.60 ± 0.46	9.26 ± 1.14	7.26 ± 0.60	15.73 ± 1.84	10.59 ± 1.01	n = 4	Siemens Immulite 1000
1.48 ± 0.22	8.45 ± 0.82	6.55 ± 0.41	14.05 ± 1.59	9.91 ± 0.76	n = 10	Siemens Immulite 2000
2.47 ± 0.09	9.62 ± 0.78	7.38 ± 0.28	16.41 ± 2.04	11.10 ± 0.34	n = 4	Tosoh Bioscience
2.17 ± 0.53	9.27 ± 0.28	7.34 ± 0.45	15.97 ± 1.23	11.10 ± 0.74	n = 18	Mean of Above Means
<Reagents>						
2.67 ± 0.24	7.70 ± 0.35	6.01 ± 0.30	13.71 ± 0.94	8.95 ± 0.47	n = 20	Abbott
1.72 ± 0.25	9.26 ± 0.77	7.30 ± 0.74	15.97 ± 1.24	11.22 ± 0.90	n = 38	Beckman Coulter
2.28 ± 0.09	9.43 ± 0.28	7.05 ± 0.31	17.51 ± 0.60	11.20 ± 0.39	n = 7	Microgenics DRI
1.98 ± 0.11	9.20 ± 0.35	7.66 ± 0.31	16.25 ± 0.54	11.76 ± 0.49	n = 20	Ortho Clinical Diagnostics
2.57 ± 0.15	9.33 ± 0.42	7.27 ± 0.34	15.91 ± 0.77	10.94 ± 0.47	n = 39	Roche Elecsys/Modular E/e601/e411
0.82 ± 0.30	9.13 ± 0.44	7.58 ± 0.44	14.37 ± 0.80	10.73 ± 0.42	n = 49	Siemens ADVIA/ADVIA Centaur
2.82 ± 0.64	11.65 ± 0.78	9.02 ± 0.87	19.20 ± 1.04	13.53 ± 0.96	n = 36	Siemens Dimension
2.18 ± 0.94	11.73 ± 0.67	8.94 ± 0.82	18.92 ± 1.05	13.38 ± 0.41	n = 3	Siemens Dimension LOCI
1.51 ± 0.30	8.63 ± 0.98	6.71 ± 0.59	14.48 ± 1.78	10.09 ± 0.90	n = 14	Siemens Immulite
2.12 ± 0.60	9.41 ± 1.23	7.45 ± 0.94	16.18 ± 1.99	11.26 ± 1.41	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T4 (ng/dL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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0.44 ± 0.07	1.65 ± 0.28	1.09 ± 0.11	3.28 ± 0.76	1.87 ± 0.31	n = 260	All Methods & Instruments
0.43	1.63	1.10	3.24	1.90	n = 260	Median value, All Methods & Instruments
<Instruments>						
0.50 ± 0.04	1.40 ± 0.05	1.00 ± 0.01	2.37 ± 0.15	1.53 ± 0.05	n = 23	Abbott Architect i System
0.39 ± 0.06	1.49 ± 0.10	0.98 ± 0.07	2.60 ± 0.12	1.59 ± 0.07	n = 19	Beckman Coulter ACCESS
0.45 ± 0.07	1.40 ± 0.01	0.91 ± 0.05	2.68 ± 0.12	1.59 ± 0.05	n = 6	Beckman Coulter UniCel DxI 600
0.39 ± 0.06	1.43 ± 0.09	0.95 ± 0.07	2.65 ± 0.18	1.58 ± 0.13	n = 17	Beckman Coulter UniCel DxI 800
0.38 ± 0.04	2.45 ± 0.11	1.10 ± 0.05	5.59 ± 0.16	3.00 ± 0.13	n = 17	Ortho Vitros 5600
0.38 ± 0.03	2.44 ± 0.15	1.12 ± 0.08	5.67 ± 0.35	3.06 ± 0.18	n = 4	Ortho Vitros Eci/ECiQ
0.45 ± 0.04	1.89 ± 0.08	1.22 ± 0.08	4.01 ± 0.13	2.14 ± 0.12	n = 4	Roche cobas e411
0.43 ± 0.03	1.91 ± 0.06	1.20 ± 0.01	4.03 ± 0.17	2.13 ± 0.06	n = 21	Roche cobas e601
0.48 ± 0.03	1.99 ± 0.10	1.25 ± 0.04	4.34 ± 0.18	2.23 ± 0.09	n = 5	Roche cobas e602
0.41 ± 0.02	1.90 ± 0.00	1.20 ± 0.00	4.08 ± 0.11	2.18 ± 0.06	n = 10	Roche MODULAR E
0.42 ± 0.07	1.73 ± 0.10	1.11 ± 0.07	3.47 ± 0.14	1.99 ± 0.09	n = 58	Siemens ADVIA Centaur
0.49 ± 0.02	1.44 ± 0.07	1.03 ± 0.05	3.01 ± 0.16	1.73 ± 0.06	n = 12	Siemens Dimension EXL
0.49 ± 0.02	1.49 ± 0.03	1.08 ± 0.03	3.09 ± 0.08	1.78 ± 0.06	n = 36	Siemens Dimension Vista
0.40 ± 0.08	1.25 ± 0.12	0.90 ± 0.08	2.50 ± 0.18	1.40 ± 0.08	n = 4	Siemens Dimension Xpand
0.43 ± 0.05	1.73 ± 0.05	1.27 ± 0.05	3.23 ± 0.14	1.94 ± 0.10	n = 3	Siemens Immulite 1000
0.42 ± 0.06	1.71 ± 0.05	1.15 ± 0.05	3.05 ± 0.14	1.88 ± 0.09	n = 10	Siemens Immulite 2000
0.30 ± 0.03	2.04 ± 0.08	1.17 ± 0.06	4.55 ± 0.03	2.56 ± 0.05	n = 4	Tosoh Bioscience
0.43 ± 0.05	1.72 ± 0.35	1.10 ± 0.12	3.47 ± 1.00	1.95 ± 0.45	n = 17	Mean of Above Means
<Reagents>						
0.50 ± 0.04	1.40 ± 0.05	1.00 ± 0.01	2.37 ± 0.15	1.53 ± 0.05	n = 23	Abbott
0.40 ± 0.06	1.45 ± 0.09	0.96 ± 0.07	2.62 ± 0.14	1.58 ± 0.09	n = 41	Beckman Coulter
0.38 ± 0.04	2.45 ± 0.12	1.11 ± 0.06	5.62 ± 0.21	3.01 ± 0.15	n = 21	Ortho Clinical Diagnostics
0.43 ± 0.04	1.91 ± 0.06	1.21 ± 0.04	4.07 ± 0.18	2.16 ± 0.08	n = 42	Roche Elecsys/Modular E/e601/e411
0.42 ± 0.07	1.73 ± 0.10	1.11 ± 0.07	3.47 ± 0.14	1.99 ± 0.10	n = 60	Siemens ADVIA/ADVIA Centaur
0.41 ± 0.11	1.29 ± 0.14	0.91 ± 0.08	2.60 ± 0.28	1.47 ± 0.14	n = 7	Siemens Dimension
0.49 ± 0.02	1.48 ± 0.05	1.07 ± 0.04	3.08 ± 0.11	1.77 ± 0.06	n = 47	Siemens Dimension LOCI
0.42 ± 0.06	1.72 ± 0.05	1.17 ± 0.07	3.09 ± 0.16	1.90 ± 0.10	n = 13	Siemens Immulite
0.43 ± 0.04	1.61 ± 0.31	1.07 ± 0.11	3.11 ± 0.78	1.79 ± 0.32	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T3-Uptake (%)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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32.29 ± 5.55	36.27 ± 4.16	33.37 ± 4.14	40.64 ± 5.08	35.88 ± 4.53	n = 133	All Methods & Instruments
32.00	36.50	33.10	41.00	36.00	n = 133	Median value, All Methods & Instruments
<Instruments>						
33.24 ± 2.18	31.91 ± 2.08	30.41 ± 1.99	33.31 ± 2.09	30.98 ± 1.79	n = 8	Abbott Architect i System
37.31 ± 2.81	41.91 ± 3.06	40.03 ± 2.98	45.54 ± 3.73	42.43 ± 2.83	n = 15	Beckman Coulter ACCESS
30.31 ± 2.09	35.50 ± 1.76	32.34 ± 1.31	40.26 ± 1.11	34.65 ± 1.22	n = 7	Beckman Coulter AU Chemistry System
37.46 ± 1.94	42.26 ± 2.66	39.88 ± 2.60	45.92 ± 2.42	41.93 ± 3.22	n = 12	Beckman Coulter UniCel DxI 800
45.56 ± 0.73	37.80 ± 0.53	32.85 ± 1.26	42.80 ± 1.13	35.82 ± 0.56	n = 8	Ortho Vitros 5600
44.53 ± 0.87	36.09 ± 0.57	32.60 ± 0.51	41.20 ± 0.67	34.14 ± 0.68	n = 4	Ortho Vitros Eci/ECiQ
31.81 ± 1.50	36.65 ± 1.25	34.39 ± 1.56	41.91 ± 1.96	37.38 ± 1.61	n = 5	Roche cobas e601
31.57 ± 0.46	37.17 ± 0.32	34.93 ± 0.12	42.83 ± 0.62	37.97 ± 0.06	n = 3	Roche cobas e602
26.66 ± 1.69	32.59 ± 1.70	30.32 ± 1.95	35.83 ± 2.15	32.24 ± 1.93	n = 23	Siemens ADVIA Centaur
32.00 ± 0.64	36.71 ± 1.81	33.64 ± 1.69	40.73 ± 2.61	36.27 ± 1.38	n = 5	Siemens Dimension EXL
31.47 ± 1.61	37.66 ± 1.41	34.64 ± 1.53	42.39 ± 1.82	37.53 ± 1.65	n = 20	Siemens Dimension Vista
28.93 ± 2.67	32.93 ± 2.31	29.52 ± 2.31	33.81 ± 3.36	30.73 ± 2.15	n = 3	Siemens Immulite 1000
26.42 ± 1.12	30.18 ± 2.03	27.51 ± 0.86	31.98 ± 2.66	29.26 ± 1.58	n = 8	Siemens Immulite 2000
32.80 ± 5.62	36.04 ± 3.55	33.03 ± 3.49	40.25 ± 4.72	35.39 ± 4.11	n = 13	Mean of Above Means
<Reagents>						
33.24 ± 2.18	31.91 ± 2.08	30.41 ± 1.99	33.31 ± 2.09	30.98 ± 1.79	n = 8	Abbott
37.46 ± 2.60	42.21 ± 2.94	40.00 ± 2.88	45.80 ± 3.17	42.27 ± 2.96	n = 29	Beckman Coulter
30.58 ± 1.47	35.48 ± 1.45	32.12 ± 1.34	40.45 ± 1.15	34.27 ± 1.40	n = 8	Microgenics CEDIA
45.18 ± 1.06	37.11 ± 1.09	32.79 ± 0.98	42.08 ± 1.44	35.32 ± 1.00	n = 12	Ortho Clinical Diagnostics
31.44 ± 1.19	36.85 ± 0.99	34.45 ± 1.17	42.51 ± 1.78	37.54 ± 1.13	n = 12	Roche Elecsys/Modular E/e601/e411
26.66 ± 1.69	32.59 ± 1.70	30.32 ± 1.95	35.83 ± 2.15	32.24 ± 1.93	n = 23	Siemens ADVIA/ADVIA Centaur
31.63 ± 1.43	37.49 ± 1.42	34.39 ± 1.67	42.17 ± 1.95	37.09 ± 1.80	n = 26	Siemens Dimension
27.37 ± 2.29	30.93 ± 2.48	27.73 ± 0.97	32.40 ± 2.88	29.60 ± 1.75	n = 11	Siemens Immulite
31.92 ± 5.00	35.40 ± 3.59	32.41 ± 3.29	39.55 ± 4.95	34.68 ± 3.95	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T Uptake (Unit)

Specimen: E26 -----	Specimen: E27 -----	Specimen: E28 -----	Specimen: E29 -----	Specimen: E30 -----	Number -----	Instrument or Reagent System -----
1.075 ± 0.149	0.965 ± 0.044	1.053 ± 0.039	0.776 ± 0.094	0.952 ± 0.066	n = 22	All Methods & Instruments
1.160	0.960	1.050	0.750	0.950	n = 22	Median value, All Methods & Instruments
<Instruments>						
0.910 ± 0.016	0.959 ± 0.035	1.025 ± 0.032	0.896 ± 0.021	0.996 ± 0.026	n = 6	Abbott Architect i System
1.183 ± 0.023	0.980 ± 0.026	1.063 ± 0.031	0.745 ± 0.031	0.921 ± 0.031	n = 6	Roche cobas e601
1.178 ± 0.015	0.968 ± 0.024	1.049 ± 0.037	0.697 ± 0.014	0.917 ± 0.031	n = 3	Roche MODULAR E
1.105 ± 0.139	0.969 ± 0.009	1.046 ± 0.017	0.772 ± 0.093	0.941 ± 0.039	n = 3	Mean of Above Means
<Reagents>						
0.910 ± 0.016	0.959 ± 0.035	1.025 ± 0.032	0.896 ± 0.021	0.996 ± 0.026	n = 6	Abbott
1.182 ± 0.020	0.966 ± 0.030	1.060 ± 0.033	0.722 ± 0.031	0.922 ± 0.033	n = 12	Roche Elecsys/Modular E/e601/e411
1.046 ± 0.155	0.963 ± 0.004	1.042 ± 0.020	0.809 ± 0.099	0.959 ± 0.042	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Triiodothyronine (T3, ng/dL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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46.0 ± 8.17	131.5 ± 11.89	120.1 ± 12.72	251.3 ± 27.37	172.7 ± 18.31	n = 190	All Methods & Instruments
46.0	130.0	121.0	252.0	175.0	n = 190	Median value, All Methods & Instruments
<Instruments>						
55.8 ± 4.83	127.8 ± 3.74	116.8 ± 6.68	229.3 ± 16.75	161.8 ± 10.14	n = 19	Abbott Architect i System
50.0 ± 7.16	117.3 ± 7.01	103.8 ± 7.50	214.2 ± 14.57	143.8 ± 8.99	n = 13	Beckman Coulter ACCESS
49.9 ± 7.91	113.2 ± 5.36	105.5 ± 6.20	216.6 ± 12.11	148.1 ± 7.46	n = 6	Beckman Coulter UniCel DxI 600
49.0 ± 5.35	118.5 ± 4.45	102.3 ± 5.00	214.6 ± 10.86	144.8 ± 8.95	n = 15	Beckman Coulter UniCel DxI 800
116.4 ± 4.13	145.3 ± 6.08	133.9 ± 4.82	255.7 ± 10.07	181.1 ± 8.46	n = 13	Ortho Vitros 5600
49.9 ± 3.11	139.7 ± 5.17	126.4 ± 4.20	253.3 ± 7.95	177.4 ± 6.00	n = 16	Roche cobas e601
50.4 ± 2.57	139.5 ± 2.40	128.9 ± 4.59	259.7 ± 7.97	181.8 ± 6.38	n = 6	Roche cobas e602
49.0 ± 4.75	136.0 ± 6.12	126.8 ± 9.93	252.4 ± 12.81	180.8 ± 6.69	n = 10	Roche MODULAR E
41.1 ± 5.90	134.4 ± 8.57	124.1 ± 8.64	273.0 ± 14.00	183.0 ± 11.06	n = 69	Siemens ADVIA Centaur
40.5 ± 6.69	114.7 ± 13.55	105.0 ± 14.84	221.9 ± 13.54	162.9 ± 20.08	n = 9	Siemens Immulite 2000
46.7 ± 33.30	88.2 ± 61.83	75.1 ± 52.84	163.7 ± 114.85	109.9 ± 77.03	n = 3	Tosoh Bioscience
48.6 ± 4.20	126.8 ± 15.31	115.5 ± 15.72	235.3 ± 28.24	164.5 ± 21.16	n = 11	Mean of Above Means
<Reagents>						
55.8 ± 4.83	127.8 ± 3.74	116.8 ± 6.68	229.3 ± 16.75	161.8 ± 10.14	n = 19	Abbott
49.6 ± 6.69	117.3 ± 5.89	103.4 ± 6.31	214.9 ± 12.70	145.1 ± 8.81	n = 34	Beckman Coulter
116.6 ± 3.75	145.4 ± 6.32	133.4 ± 4.53	256.3 ± 10.48	180.3 ± 8.69	n = 15	Ortho Clinical Diagnostics
48.9 ± 4.46	138.2 ± 6.56	126.0 ± 5.94	253.5 ± 9.03	178.7 ± 6.60	n = 36	Roche Elecsys/Modular E/e601/e411
40.9 ± 5.85	134.5 ± 8.63	124.0 ± 8.70	273.4 ± 13.93	183.1 ± 10.85	n = 71	Siemens ADVIA/ADVIA Centaur
40.5 ± 6.12	115.6 ± 12.85	106.0 ± 14.29	226.1 ± 17.29	159.3 ± 20.96	n = 10	Siemens Immulite
47.1 ± 6.32	129.9 ± 11.82	118.5 ± 11.81	241.9 ± 22.23	168.8 ± 14.91	n = 6	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T3 (pg/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
1.51 ± 0.22	3.85 ± 0.42	3.20 ± 0.29	7.71 ± 1.06	4.62 ± 0.49	n = 151	All Methods & Instruments
1.50	3.80	3.20	7.60	4.60	n = 151	Median value, All Methods & Instruments
<Instruments>						
1.71 ± 0.30	3.67 ± 0.33	3.22 ± 0.27	7.48 ± 0.68	4.49 ± 0.35	n = 14	Abbott Architect i System
1.50 ± 0.05	3.38 ± 0.07	2.86 ± 0.12	6.93 ± 0.31	4.01 ± 0.16	n = 8	Beckman Coulter ACCESS
1.23 ± 0.09	3.38 ± 0.08	2.69 ± 0.24	6.69 ± 0.52	3.96 ± 0.31	n = 5	Beckman Coulter UniCel DxI 600
1.60 ± 0.28	3.42 ± 0.36	2.78 ± 0.22	6.52 ± 0.54	3.96 ± 0.23	n = 14	Beckman Coulter UniCel DxI 800
1.43 ± 0.20	4.88 ± 0.12	3.83 ± 0.33	10.26 ± 0.56	5.73 ± 0.35	n = 6	Ortho Vitros 5600
1.62 ± 0.04	4.37 ± 0.10	3.53 ± 0.09	9.68 ± 0.23	5.32 ± 0.06	n = 7	Roche cobas e601
1.75 ± 0.16	4.51 ± 0.04	3.59 ± 0.10	9.87 ± 0.15	5.44 ± 0.08	n = 4	Roche cobas e602
1.66 ± 0.10	4.36 ± 0.27	3.54 ± 0.08	9.53 ± 0.25	5.30 ± 0.22	n = 7	Roche MODULAR E
1.52 ± 0.08	3.90 ± 0.09	3.24 ± 0.10	7.53 ± 0.20	4.62 ± 0.11	n = 49	Siemens ADVIA Centaur
1.22 ± 0.12	3.54 ± 0.11	3.09 ± 0.11	8.32 ± 0.17	4.79 ± 0.13	n = 17	Siemens Dimension Vista
1.50 ± 0.34	4.13 ± 0.43	3.18 ± 0.25	7.16 ± 0.40	4.46 ± 0.38	n = 12	Siemens Immulite 2000
1.54 ± 0.17	3.94 ± 0.54	3.23 ± 0.37	8.12 ± 1.48	4.72 ± 0.66	n = 11	Mean of Above Means
<Reagents>						
1.71 ± 0.30	3.67 ± 0.33	3.22 ± 0.27	7.48 ± 0.68	4.49 ± 0.35	n = 14	Abbott
1.53 ± 0.28	3.41 ± 0.26	2.79 ± 0.20	6.70 ± 0.51	3.97 ± 0.23	n = 27	Beckman Coulter
1.36 ± 0.05	4.83 ± 0.17	3.78 ± 0.32	10.21 ± 0.53	5.66 ± 0.37	n = 7	Ortho Clinical Diagnostics
1.65 ± 0.10	4.41 ± 0.12	3.55 ± 0.10	9.70 ± 0.24	5.34 ± 0.14	n = 20	Roche Elecsys/Modular E/e601/e411
1.51 ± 0.08	3.90 ± 0.09	3.24 ± 0.09	7.53 ± 0.21	4.61 ± 0.11	n = 49	Siemens ADVIA/ADVIA Centaur
1.22 ± 0.12	3.53 ± 0.11	3.08 ± 0.11	8.29 ± 0.16	4.78 ± 0.12	n = 17	Siemens Dimension LOCI
1.50 ± 0.33	4.10 ± 0.43	3.17 ± 0.24	7.11 ± 0.44	4.44 ± 0.36	n = 13	Siemens Immulite
1.51 ± 0.16	3.94 ± 0.50	3.25 ± 0.31	8.03 ± 1.32	4.72 ± 0.55	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
6.70 $\pm$ 0.51	6.53 $\pm$ 0.57	9.42 $\pm$ 0.76	3.19 $\pm$ 0.26	4.23 $\pm$ 0.32	n = 302	All Methods & Instruments
6.78	6.50	9.42	3.20	4.20	n = 302	Median value, All Methods & Instruments
<Instruments>						
6.36 $\pm$ 0.32	5.77 $\pm$ 0.37	8.47 $\pm$ 0.49	2.80 $\pm$ 0.13	3.81 $\pm$ 0.20	n = 25	Abbott Architect i System
6.81 $\pm$ 0.40	6.46 $\pm$ 0.35	9.75 $\pm$ 0.60	3.08 $\pm$ 0.16	4.31 $\pm$ 0.26	n = 27	Beckman Coulter ACCESS
6.81 $\pm$ 0.65	6.77 $\pm$ 0.79	9.98 $\pm$ 1.03	2.92 $\pm$ 0.17	4.42 $\pm$ 0.48	n = 7	Beckman Coulter UniCel DxI 600
6.78 $\pm$ 0.48	6.43 $\pm$ 0.55	9.75 $\pm$ 0.80	3.07 $\pm$ 0.22	4.45 $\pm$ 0.39	n = 17	Beckman Coulter UniCel DxI 800
8.87 $\pm$ 0.24	8.17 $\pm$ 0.21	12.32 $\pm$ 0.40	3.65 $\pm$ 0.14	5.12 $\pm$ 0.18	n = 18	Ortho Vitros 5600
8.88 $\pm$ 0.06	8.09 $\pm$ 0.02	12.36 $\pm$ 0.14	3.62 $\pm$ 0.06	5.08 $\pm$ 0.11	n = 5	Ortho Vitros ECI/ECIQ
6.84 $\pm$ 0.13	6.36 $\pm$ 0.07	9.07 $\pm$ 0.31	3.26 $\pm$ 0.15	4.20 $\pm$ 0.11	n = 8	Roche cobas e411
6.85 $\pm$ 0.16	6.41 $\pm$ 0.19	9.01 $\pm$ 0.19	3.27 $\pm$ 0.08	4.20 $\pm$ 0.11	n = 21	Roche cobas e601
6.85 $\pm$ 0.27	6.32 $\pm$ 0.31	8.97 $\pm$ 0.36	3.26 $\pm$ 0.10	4.18 $\pm$ 0.15	n = 6	Roche cobas e602
6.92 $\pm$ 0.24	6.52 $\pm$ 0.24	9.21 $\pm$ 0.40	3.38 $\pm$ 0.08	4.33 $\pm$ 0.18	n = 4	Roche Elecsys
6.89 $\pm$ 0.17	6.33 $\pm$ 0.13	8.96 $\pm$ 0.23	3.25 $\pm$ 0.08	4.16 $\pm$ 0.09	n = 11	Roche MODULAR E
6.88 $\pm$ 0.28	6.47 $\pm$ 0.38	9.55 $\pm$ 0.47	3.14 $\pm$ 0.19	4.22 $\pm$ 0.20	n = 61	Siemens ADVIA Centaur
6.39 $\pm$ 0.22	7.05 $\pm$ 0.22	9.88 $\pm$ 0.33	3.40 $\pm$ 0.11	4.38 $\pm$ 0.12	n = 21	Siemens Dimension EXL
6.30 $\pm$ 0.29	5.80 $\pm$ 0.36	8.07 $\pm$ 0.33	2.82 $\pm$ 0.10	3.44 $\pm$ 0.20	n = 3	Siemens Dimension RxL
6.16 $\pm$ 0.14	6.66 $\pm$ 0.19	9.47 $\pm$ 0.24	3.21 $\pm$ 0.08	4.14 $\pm$ 0.13	n = 38	Siemens Dimension Vista
6.29 $\pm$ 0.73	5.84 $\pm$ 0.61	8.64 $\pm$ 0.65	2.90 $\pm$ 0.30	3.73 $\pm$ 0.53	n = 4	Siemens Dimension Xpand
6.86 $\pm$ 0.37	6.35 $\pm$ 0.38	8.92 $\pm$ 0.52	3.28 $\pm$ 0.04	4.11 $\pm$ 0.16	n = 5	Siemens Immulite 1000
7.22 $\pm$ 0.55	6.42 $\pm$ 0.48	9.30 $\pm$ 0.68	3.12 $\pm$ 0.23	4.27 $\pm$ 0.27	n = 15	Siemens Immulite 2000
7.61 $\pm$ 0.64	7.16 $\pm$ 0.65	10.99 $\pm$ 0.92	3.54 $\pm$ 0.41	4.53 $\pm$ 0.33	n = 4	Tosoh Bioscience
6.75 $\pm$ 0.35	6.45 $\pm$ 0.45	9.29 $\pm$ 0.71	3.21 $\pm$ 0.25	4.25 $\pm$ 0.32	n = 19	Mean of Above Means
<Reagents>						
6.36 $\pm$ 0.32	5.77 $\pm$ 0.37	8.47 $\pm$ 0.49	2.80 $\pm$ 0.13	3.81 $\pm$ 0.20	n = 25	Abbott
6.80 $\pm$ 0.46	6.47 $\pm$ 0.46	9.76 $\pm$ 0.72	3.06 $\pm$ 0.19	4.36 $\pm$ 0.32	n = 51	Beckman Coulter
8.87 $\pm$ 0.21	8.15 $\pm$ 0.18	12.32 $\pm$ 0.35	3.64 $\pm$ 0.12	5.11 $\pm$ 0.16	n = 23	Ortho Clinical Diagnostics
6.86 $\pm$ 0.17	6.39 $\pm$ 0.20	9.01 $\pm$ 0.22	3.28 $\pm$ 0.09	4.20 $\pm$ 0.11	n = 50	Roche Elecsys/Modular E/e601/e411
6.92 $\pm$ 0.36	6.61 $\pm$ 0.53	9.73 $\pm$ 0.53	3.20 $\pm$ 0.24	4.29 $\pm$ 0.23	n = 37	Siemens ADVIA/ADVIA Centaur
6.23 $\pm$ 0.51	5.81 $\pm$ 0.50	8.36 $\pm$ 0.62	2.85 $\pm$ 0.22	3.56 $\pm$ 0.39	n = 7	Siemens Dimension
6.23 $\pm$ 0.20	6.79 $\pm$ 0.28	9.59 $\pm$ 0.33	3.27 $\pm$ 0.13	4.21 $\pm$ 0.18	n = 59	Siemens Dimension LOCI
7.12 $\pm$ 0.53	6.40 $\pm$ 0.45	9.20 $\pm$ 0.68	3.14 $\pm$ 0.23	4.22 $\pm$ 0.25	n = 20	Siemens Immulite
6.85 $\pm$ 0.20	6.37 $\pm$ 0.18	9.35 $\pm$ 0.31	3.08 $\pm$ 0.10	4.13 $\pm$ 0.12	n = 25	Siemens TSH-3
6.69 $\pm$ 0.36	6.36 $\pm$ 0.38	9.22 $\pm$ 0.56	3.13 $\pm$ 0.23	4.17 $\pm$ 0.33	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Vitamin B12 (pg/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
171.1 ± 72.14	589.8 ± 67.21	492.7 ± 51.74	579.6 ± 62.56	495.2 ± 49.65	n = 228	All Methods & Instruments
166.0	589.0	495.0	580.0	495.0	n = 228	Median value, All Methods & Instruments
<Instruments>						
349.0 ± 36.82	629.4 ± 38.42	518.1 ± 37.19	625.4 ± 44.60	511.5 ± 34.21	n = 15	Abbott Architect i System
110.7 ± 22.14	560.2 ± 51.34	472.7 ± 43.25	563.0 ± 39.79	476.8 ± 33.77	n = 18	Beckman Coulter ACCESS
87.4 ± 17.82	476.0 ± 26.57	419.0 ± 33.08	512.3 ± 36.13	418.0 ± 19.69	n = 7	Beckman Coulter UniCel DxI 600
83.9 ± 14.89	509.8 ± 52.63	426.6 ± 40.56	512.4 ± 55.05	429.7 ± 47.08	n = 21	Beckman Coulter UniCel DxI 800
197.8 ± 9.90	630.1 ± 36.34	499.2 ± 20.53	611.9 ± 41.05	505.9 ± 17.31	n = 15	Ortho Vitros 5600
198.9 ± 18.84	662.6 ± 50.76	518.2 ± 55.84	661.2 ± 39.11	532.1 ± 61.41	n = 4	Ortho Vitros Eci/ECiQ
245.4 ± 15.18	650.5 ± 25.37	531.1 ± 2.04	657.8 ± 24.06	544.1 ± 23.51	n = 4	Roche cobas e411
243.2 ± 15.84	636.7 ± 31.21	519.9 ± 22.27	617.3 ± 23.51	523.4 ± 26.19	n = 17	Roche cobas e601
254.8 ± 4.51	633.8 ± 10.33	532.5 ± 5.14	626.0 ± 2.41	534.1 ± 5.93	n = 4	Roche cobas e602
244.6 ± 16.29	639.3 ± 20.54	534.2 ± 16.94	620.5 ± 16.89	538.0 ± 9.49	n = 9	Roche MODULAR E
145.0 ± 23.46	571.9 ± 47.51	481.3 ± 41.33	557.4 ± 43.20	483.9 ± 42.94	n = 70	Siemens ADVIA Centaur
135.1 ± 8.46	584.9 ± 10.08	514.1 ± 16.32	593.5 ± 6.32	495.5 ± 4.53	n = 3	Siemens ADVIA Centaur CP
222.5 ± 16.12	559.5 ± 21.25	481.0 ± 21.15	545.5 ± 24.86	484.5 ± 17.65	n = 23	Siemens Dimension Vista
186.8 ± 23.07	692.2 ± 44.76	577.6 ± 53.43	683.3 ± 105.63	546.9 ± 35.30	n = 11	Siemens Immulite 2000
50.0 ± 0.02	675.9 ± 34.75	615.5 ± 44.37	673.7 ± 31.84	614.4 ± 30.62	n = 5	Tosoh Bioscience
183.3 ± 81.13	613.7 ± 60.23	509.2 ± 47.20	606.5 ± 57.02	510.0 ± 44.60	n = 15	Mean of Above Means
<Reagents>						
349.0 ± 36.82	629.4 ± 38.42	518.1 ± 37.19	625.4 ± 44.60	511.5 ± 34.21	n = 15	Abbott
93.2 ± 21.69	523.5 ± 59.28	443.7 ± 47.63	532.8 ± 53.85	446.6 ± 47.11	n = 46	Beckman Coulter
197.5 ± 12.15	634.6 ± 36.06	500.8 ± 26.38	621.9 ± 44.48	508.4 ± 23.59	n = 19	Ortho Clinical Diagnostics
246.3 ± 15.71	639.8 ± 26.34	527.8 ± 18.87	624.7 ± 23.54	532.2 ± 23.09	n = 35	Roche Elecsys/Modular E/e601/e411
144.5 ± 22.94	572.6 ± 46.31	483.1 ± 41.31	559.3 ± 43.14	484.5 ± 41.80	n = 73	Siemens ADVIA/ADVIA Centaur
222.9 ± 16.57	559.9 ± 21.88	481.8 ± 21.44	546.2 ± 25.52	484.5 ± 18.25	n = 22	Siemens Dimension LOCI
186.8 ± 23.09	685.3 ± 49.36	569.3 ± 59.43	679.7 ± 99.56	545.9 ± 33.53	n = 12	Siemens Immulite
50.0 ± 0.02	675.9 ± 34.75	615.5 ± 44.37	673.7 ± 31.84	614.4 ± 30.62	n = 5	Tosoh AIA
183.9 ± 89.07	617.8 ± 57.87	513.1 ± 51.39	608.8 ± 57.57	510.9 ± 44.80	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Folic Acid (ng/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
6.85 ± 1.57	8.40 ± 2.02	1.58 ± 0.52	19.01 ± 3.77	19.86 ± 4.19	n = 220	All Methods & Instruments
6.90	8.50	1.54	19.56	20.00	n = 220	Median value, All Methods & Instruments
<Instruments>						
6.71 ± 0.41	8.22 ± 0.50	1.64 ± 0.24	20.28 ± 1.14	22.42 ± 2.90	n = 15	Abbott Architect i System
6.40 ± 0.40	7.77 ± 0.42	1.50 ± 0.15	19.73 ± 1.23	21.32 ± 1.05	n = 17	Beckman Coulter ACCESS
6.65 ± 0.37	8.11 ± 0.62	1.63 ± 0.23	20.08 ± 0.98	20.38 ± 1.24	n = 6	Beckman Coulter UniCel DxI 600
6.84 ± 0.34	8.51 ± 0.38	1.59 ± 0.31	19.92 ± 0.84	20.31 ± 0.76	n = 21	Beckman Coulter UniCel DxI 800
5.13 ± 0.40	6.50 ± 0.59	1.52 ± 0.26	19.16 ± 1.22	19.71 ± 0.51	n = 15	Ortho Vitros 5600
4.81 ± 0.43	6.36 ± 0.48	1.44 ± 0.26	19.16 ± 1.54	19.27 ± 1.33	n = 3	Ortho Vitros ECI/ECiQ
7.16 ± 0.10	8.79 ± 0.29	2.75 ± 0.27	18.47 ± 0.14	19.94 ± 0.10	n = 3	Roche cobas e411
7.14 ± 0.35	8.59 ± 0.43	2.97 ± 0.29	16.61 ± 1.28	17.66 ± 1.40	n = 17	Roche cobas e601
7.14 ± 0.43	8.64 ± 0.74	3.25 ± 0.30	16.50 ± 0.89	17.60 ± 1.30	n = 4	Roche cobas e602
7.04 ± 0.08	8.76 ± 0.40	3.06 ± 0.42	16.53 ± 1.49	17.27 ± 1.78	n = 8	Roche MODULAR E
8.48 ± 0.67	10.24 ± 1.02	1.55 ± 0.20	21.61 ± 2.15	22.96 ± 1.76	n = 61	Siemens ADVIA Centaur
8.46 ± 1.11	9.41 ± 1.20	1.65 ± 0.36	19.65 ± 1.45	24.00 ± 0.00	n = 3	Siemens ADVIA Centaur CP
4.17 ± 0.19	4.34 ± 0.22	1.03 ± 0.19	10.39 ± 0.52	10.65 ± 0.44	n = 30	Siemens Dimension Vista
6.91 ± 0.56	8.88 ± 1.11	1.33 ± 0.12	20.32 ± 3.16	20.88 ± 2.40	n = 11	Siemens Immulite 2000
5.99 ± 0.49	9.21 ± 0.64	2.48 ± 0.45	15.27 ± 1.42	11.98 ± 1.26	n = 5	Tosoh Bioscience
6.68 ± 1.13	8.47 ± 1.07	1.88 ± 0.74	18.88 ± 2.04	19.78 ± 3.04	n = 15	Mean of Above Means
<Reagents>						
6.71 ± 0.41	8.22 ± 0.50	1.64 ± 0.24	20.28 ± 1.14	22.42 ± 2.90	n = 15	Abbott
6.65 ± 0.42	8.17 ± 0.57	1.55 ± 0.24	19.90 ± 1.04	20.66 ± 1.07	n = 44	Beckman Coulter
5.08 ± 0.43	6.48 ± 0.57	1.51 ± 0.26	19.16 ± 1.28	19.54 ± 0.86	n = 18	Ortho Clinical Diagnostics
7.13 ± 0.35	8.66 ± 0.46	3.00 ± 0.34	16.84 ± 1.43	17.84 ± 1.64	n = 33	Roche Elecsys/Modular E/e601/e411
8.47 ± 0.70	10.21 ± 1.05	1.55 ± 0.22	21.50 ± 2.17	23.05 ± 1.70	n = 64	Siemens ADVIA/ADVIA Centaur
4.17 ± 0.19	4.34 ± 0.22	1.03 ± 0.19	10.39 ± 0.52	10.65 ± 0.44	n = 30	Siemens Dimension LOCI
6.91 ± 0.56	8.88 ± 1.11	1.33 ± 0.12	20.32 ± 3.16	20.88 ± 2.40	n = 11	Siemens Immulite
5.99 ± 0.49	9.21 ± 0.64	2.48 ± 0.45	15.27 ± 1.42	11.98 ± 1.26	n = 5	Tosoh AIA
6.44 ± 1.25	8.33 ± 1.54	1.66 ± 0.58	18.66 ± 3.06	18.95 ± 4.49	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Cortisol (µg/dL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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4.46 ± 0.55	12.76 ± 1.47	14.47 ± 1.77	21.11 ± 2.49	28.92 ± 3.38	n = 158	All Methods & Instruments
4.46	13.00	14.60	21.40	28.70	n = 158	Median value, All Methods & Instruments
<Instruments>						
5.24 ± 0.22	11.54 ± 0.57	12.96 ± 0.44	18.05 ± 0.64	24.11 ± 0.49	n = 11	Abbott Architect i System
4.40 ± 0.36	12.02 ± 0.57	13.57 ± 0.80	19.83 ± 0.54	28.54 ± 2.08	n = 7	Beckman Coulter ACCESS
4.37 ± 0.35	10.80 ± 0.54	12.49 ± 0.59	19.05 ± 1.20	25.49 ± 1.33	n = 6	Beckman Coulter UniCel DxI 600
4.37 ± 0.45	11.18 ± 0.99	12.27 ± 0.80	18.79 ± 1.07	26.28 ± 1.34	n = 16	Beckman Coulter UniCel DxI 800
4.83 ± 0.86	13.67 ± 2.01	15.34 ± 2.24	20.66 ± 3.80	29.88 ± 5.56	n = 3	LC/MS/MS
3.27 ± 0.10	10.73 ± 0.36	12.60 ± 0.54	17.48 ± 0.67	24.90 ± 1.34	n = 9	Ortho Vitros 5600
3.91 ± 0.03	13.55 ± 0.64	16.65 ± 0.73	22.57 ± 1.27	38.95 ± 5.69	n = 3	Roche cobas e411
4.10 ± 0.16	13.92 ± 0.44	16.28 ± 0.74	23.21 ± 0.97	32.71 ± 0.99	n = 12	Roche cobas e601
4.22 ± 0.24	14.16 ± 0.84	16.56 ± 0.65	23.88 ± 0.96	33.45 ± 1.18	n = 3	Roche cobas e602
4.09 ± 0.19	13.75 ± 0.29	15.96 ± 0.33	22.64 ± 0.80	31.89 ± 0.59	n = 7	Roche MODULAR E
4.69 ± 0.42	13.39 ± 1.02	15.21 ± 1.17	22.22 ± 1.60	30.05 ± 2.29	n = 56	Siemens ADVIA Centaur
4.69 ± 0.25	12.80 ± 0.45	14.72 ± 0.60	22.15 ± 0.42	29.00 ± 0.69	n = 3	Siemens ADVIA Centaur CP
4.45 ± 0.22	13.17 ± 0.99	14.38 ± 1.17	21.35 ± 1.75	28.81 ± 1.60	n = 14	Siemens Immulite 2000
4.38 ± 0.42	12.75 ± 1.31	14.56 ± 1.71	20.99 ± 2.18	29.16 ± 3.76	n = 13	Mean of Above Means
<Reagents>						
5.24 ± 0.22	11.54 ± 0.57	12.96 ± 0.44	18.05 ± 0.64	24.11 ± 0.49	n = 11	Abbott
4.38 ± 0.41	11.32 ± 0.97	12.62 ± 0.92	19.15 ± 1.20	26.50 ± 1.65	n = 29	Beckman Coulter
3.98 ± 2.13	11.48 ± 5.74	12.95 ± 6.31	17.36 ± 8.60	24.94 ± 13.00	n = 4	In-House
3.30 ± 0.12	10.77 ± 0.36	12.64 ± 0.53	17.60 ± 0.77	24.78 ± 1.21	n = 11	Ortho Clinical Diagnostics
4.08 ± 0.19	13.80 ± 0.49	16.21 ± 0.67	23.03 ± 1.10	32.47 ± 1.04	n = 26	Roche Elecsys/Modular E/e601/e411
4.69 ± 0.41	13.35 ± 1.01	15.17 ± 1.15	22.21 ± 1.54	29.97 ± 2.22	n = 59	Siemens ADVIA/ADVIA Centaur
4.49 ± 0.25	13.28 ± 0.95	14.46 ± 1.10	21.65 ± 1.58	28.86 ± 1.53	n = 16	Siemens Immulite
4.32 ± 0.57	12.19 ± 1.25	13.73 ± 1.42	19.79 ± 2.46	27.17 ± 3.12	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Insulin (µU/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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46.49 ± 7.39	255.28 ± 56.07	106.74 ± 28.38	106.53 ± 29.19	387.78 ± 96.25	n = 97	All Methods & Instruments
47.00	250.40	98.40	97.90	384.30	n = 97	Median value, All Methods & Instruments
<Instruments>						
39.01 ± 0.50	231.00 ± 1.89	97.06 ± 1.82	94.43 ± 1.83	372.49 ± 45.52	n = 7	Abbott Architect i System
36.35 ± 2.07	229.17 ± 11.72	89.25 ± 4.13	89.09 ± 5.64	306.95 ± 18.76	n = 4	Beckman Coulter ACCESS
37.00 ± 1.20	236.39 ± 16.55	93.82 ± 2.78	91.72 ± 3.22	342.43 ± 39.51	n = 5	Beckman Coulter UniCel DxI 600
36.97 ± 1.71	224.10 ± 10.92	92.30 ± 3.83	88.18 ± 4.57	354.34 ± 38.53	n = 14	Beckman Coulter UniCel DxI 800
46.81 ± 1.28	271.36 ± 10.12	110.89 ± 3.55	111.26 ± 3.71	439.54 ± 10.46	n = 9	Roche cobas e601
46.97 ± 1.12	276.91 ± 6.88	112.31 ± 1.92	113.27 ± 2.58	441.33 ± 8.92	n = 5	Roche cobas e602
47.05 ± 2.12	268.86 ± 10.80	108.67 ± 3.91	111.05 ± 3.91	425.95 ± 12.08	n = 6	Roche MODULAR E
54.03 ± 2.61	339.27 ± 32.16	156.17 ± 7.29	157.90 ± 6.29	490.66 ± 126.42	n = 20	Siemens ADVIA Centaur
51.35 ± 3.11	200.17 ± 8.41	78.13 ± 3.30	80.26 ± 4.09	304.08 ± 9.83	n = 16	Siemens Immulite 2000
47.45 ± 0.54	264.11 ± 3.52	116.20 ± 5.22	116.21 ± 3.10	401.33 ± 72.52	n = 3	Tosoh Bioscience
44.35 ± 6.71	249.66 ± 34.34	101.39 ± 15.75	101.04 ± 17.12	387.34 ± 63.46	n = 10	Mean of Above Means
<Reagents>						
39.01 ± 0.50	231.00 ± 1.89	97.06 ± 1.82	94.43 ± 1.83	372.49 ± 45.52	n = 7	Abbott
36.92 ± 1.69	227.11 ± 13.21	92.23 ± 3.90	89.25 ± 4.79	343.25 ± 40.55	n = 23	Beckman Coulter
46.88 ± 1.76	272.84 ± 11.72	111.49 ± 4.17	111.85 ± 4.11	437.91 ± 14.91	n = 23	Roche Elecsys/Modular E/e601/e411
53.99 ± 2.54	340.91 ± 31.90	156.15 ± 7.05	158.11 ± 6.09	495.60 ± 122.55	n = 21	Siemens ADVIA/ADVIA Centaur
52.31 ± 2.20	199.15 ± 5.36	80.15 ± 3.17	81.92 ± 2.89	300.00 ± 0.00	n = 5	Siemens Immulite
50.12 ± 3.49	203.15 ± 10.34	77.56 ± 3.36	80.69 ± 4.96	305.69 ± 12.69	n = 13	Siemens Immulite-Insulin lot# > 400
47.45 ± 0.54	264.11 ± 3.52	116.20 ± 5.22	116.21 ± 3.10	401.33 ± 72.52	n = 3	Tosoh ST AIA
47.14 ± 6.42	241.96 ± 44.51	100.47 ± 23.57	99.74 ± 22.87	375.62 ± 70.20	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free Estriol (ng/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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0.08 ± 0.04	0.08 ± 0.04	0.07 ± 0.04	0.09 ± 0.02	0.09 ± 0.02	n = 13	All Methods & Instruments
0.08	0.10	0.08	0.10	0.10	n = 13	Median value, All Methods & Instruments
0.08 ± 0.04	0.10 ± 0.00	0.08 ± 0.04	0.10 ± 0.00	0.10 ± 0.00	n = 4	<Instruments> Beckman Coulter UniCel DxI 800
0.07 ± 0.04	0.09 ± 0.03	0.07 ± 0.04	0.09 ± 0.02	0.09 ± 0.02	n = 8	<Reagents> Beckman Coulter
0.09 ± 0.02	0.09 ± 0.02	0.09 ± 0.02	0.09 ± 0.02	0.09 ± 0.02	n = 3	Siemens Immulite
0.08 ± 0.01	0.09 ± 0.00	0.08 ± 0.01	0.09 ± 0.00	0.09 ± 0.00	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Estradiol (pg/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
28.2 ± 8.38 28.3	23.5 ± 5.55 24.0	39.3 ± 7.81 39.7	110.5 ± 18.33 111.4	151.5 ± 19.10 152.4	n = 163 n = 163	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
40.9 ± 6.11	29.1 ± 5.78	46.4 ± 4.74	112.5 ± 5.56	155.3 ± 6.79	n = 10	Abbott Architect i System
18.6 ± 4.64	16.8 ± 5.51	30.3 ± 7.15	96.4 ± 10.24	134.9 ± 20.61	n = 7	Beckman Coulter ACCESS
17.1 ± 13.30	17.5 ± 5.40	29.0 ± 15.62	67.7 ± 3.16	126.2 ± 19.53	n = 3	Beckman Coulter UniCel DxI 600
20.0 ± 0.00	20.7 ± 3.74	28.4 ± 10.51	91.6 ± 6.58	123.8 ± 7.48	n = 10	Beckman Coulter UniCel DxI 800
29.0 ± 1.43	17.4 ± 0.46	35.1 ± 3.66	111.6 ± 14.48	151.9 ± 19.91	n = 3	LC/MS/MS
9.7 ± 2.54	16.5 ± 3.29	29.1 ± 3.65	60.3 ± 5.32	85.9 ± 7.73	n = 6	Ortho Vitros 5600
30.2 ± 5.20	20.9 ± 4.17	36.7 ± 4.99	113.5 ± 10.33	163.8 ± 14.08	n = 6	Roche cobas e411
32.8 ± 3.01	25.1 ± 2.20	38.8 ± 2.65	115.7 ± 6.41	161.0 ± 8.89	n = 15	Roche cobas e601
35.3 ± 1.97	28.7 ± 2.28	43.4 ± 1.63	126.9 ± 4.20	178.3 ± 2.47	n = 4	Roche cobas e602
35.0 ± 6.56	25.2 ± 4.48	41.6 ± 7.32	110.9 ± 5.17	157.8 ± 13.32	n = 6	Roche MODULAR E
31.4 ± 4.21	26.0 ± 4.83	43.5 ± 4.76	122.8 ± 6.84	156.6 ± 7.51	n = 49	Siemens ADVIA Centaur
26.6 ± 2.05	23.3 ± 2.21	42.3 ± 3.88	133.6 ± 4.42	175.7 ± 7.20	n = 4	Siemens ADVIA Centaur CP
32.0 ± 4.97	14.2 ± 3.28	39.2 ± 7.81	104.0 ± 7.44	161.2 ± 10.64	n = 7	Siemens Dimension Vista
20.0 ± 0.02	20.6 ± 1.67	30.1 ± 4.93	99.4 ± 4.26	134.2 ± 8.27	n = 5	Siemens Immulite 1000
20.0 ± 0.00	22.4 ± 3.30	37.7 ± 6.20	94.9 ± 10.81	138.1 ± 10.00	n = 21	Siemens Immulite 2000
26.9 ± 8.76	21.6 ± 4.75	36.9 ± 6.46	106.6 ± 18.44	150.3 ± 20.47	n = 15	Mean of Above Means
<Reagents>						
40.9 ± 6.11	29.1 ± 5.78	46.4 ± 4.74	112.5 ± 5.56	155.3 ± 6.79	n = 10	Abbott
19.5 ± 5.64	18.9 ± 5.16	29.1 ± 10.19	90.1 ± 12.38	125.9 ± 12.55	n = 20	Beckman Coulter
24.5 ± 11.58	14.9 ± 6.75	29.1 ± 14.69	92.9 ± 48.70	125.6 ± 65.84	n = 4	In-House
9.6 ± 2.30	16.9 ± 3.13	29.2 ± 3.31	59.9 ± 4.85	86.2 ± 7.12	n = 7	Ortho Clinical Diagnostics
32.8 ± 4.70	25.1 ± 3.32	39.2 ± 4.40	116.9 ± 9.39	163.9 ± 12.31	n = 33	Roche Elecsys/Modular E/e601/e411
30.5 ± 4.54	25.3 ± 4.82	43.4 ± 4.67	123.6 ± 7.61	156.9 ± 8.91	n = 42	Siemens ADVIA Centaur Enhanced Estr
32.4 ± 2.71	27.3 ± 3.67	43.5 ± 4.87	123.3 ± 6.02	159.6 ± 6.34	n = 11	Siemens ADVIA/ADVIA Centaur
30.7 ± 4.32	13.4 ± 2.30	35.2 ± 2.64	102.4 ± 6.78	159.4 ± 10.54	n = 6	Siemens Dimension LOCI
20.0 ± 0.01	22.0 ± 2.89	36.1 ± 6.91	96.1 ± 9.76	137.4 ± 9.86	n = 26	Siemens Immulite
27.3 ± 9.00	21.5 ± 5.85	36.8 ± 7.01	104.3 ± 18.33	145.8 ± 21.44	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Testosterone (ng/dL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
183.4 ± 41.32	702.6 ±100.54	142.3 ± 25.48	980.0 ±146.53	113.4 ± 19.83	n = 148	All Methods & Instruments
188.0	718.0	143.5	994.2	114.0	n = 148	Median value, All Methods & Instruments
<Instruments>						
263.9 ± 12.82	827.8 ± 45.93	178.6 ± 11.82	1155.5 ± 59.18	129.0 ± 9.16	n = 7	Abbott Architect i System
171.4 ± 9.20	632.4 ± 16.79	133.4 ± 5.98	886.7 ± 28.01	109.0 ± 6.36	n = 13	Beckman Coulter ACCESS
154.0 ± 10.61	536.7 ± 18.51	119.7 ± 6.86	767.5 ± 36.77	97.5 ± 5.18	n = 7	Beckman Coulter UniCel DxI 600
160.3 ± 8.10	538.5 ± 24.42	122.8 ± 4.98	785.3 ± 42.29	100.0 ± 6.94	n = 13	Beckman Coulter UniCel DxI 800
227.3 ± 4.29	717.2 ± 12.92	165.6 ± 13.34	981.7 ± 75.76	130.6 ± 20.15	n = 5	LC/MS/MS
125.8 ± 3.13	731.4 ± 6.98	111.6 ± 3.25	1116.0 ± 36.41	92.4 ± 2.04	n = 4	Ortho Vitros 5600
199.2 ± 10.96	727.4 ± 31.96	148.5 ± 6.71	1024.4 ± 65.11	111.2 ± 6.08	n = 12	Roche cobas e601
202.0 ± 6.89	746.2 ± 36.50	157.1 ± 1.32	1066.1 ± 55.18	115.0 ± 0.58	n = 5	Roche cobas e602
196.5 ± 4.72	732.3 ± 9.05	152.5 ± 1.54	1030.5 ± 32.84	107.9 ± 1.40	n = 3	Roche Elecsys
206.5 ± 6.72	751.9 ± 16.64	157.2 ± 7.24	1064.2 ± 27.31	115.9 ± 5.54	n = 8	Roche MODULAR E
198.0 ± 23.55	759.2 ± 66.47	155.5 ± 21.01	1024.0 ±126.30	130.2 ± 16.52	n = 44	Siemens ADVIA Centaur
114.7 ± 16.12	650.0 ± 75.24	113.3 ± 14.90	890.1 ± 93.28	92.3 ± 17.01	n = 15	Siemens Immulite 2000
121.3 ± 10.50	692.6 ± 29.70	96.3 ± 7.02	1025.2 ± 49.45	74.9 ± 4.53	n = 5	Tosoh Bioscience
180.0 ± 44.18	705.8 ± 79.84	140.1 ± 25.68	997.0 ±117.84	108.6 ± 16.59	n = 13	Mean of Above Means
<Reagents>						
263.9 ± 12.82	827.8 ± 45.93	178.6 ± 11.82	1155.5 ± 59.18	129.0 ± 9.16	n = 7	Abbott
163.7 ± 11.57	572.2 ± 56.41	126.1 ± 8.40	819.8 ± 69.45	103.1 ± 8.32	n = 33	Beckman Coulter
227.3 ± 4.31	717.2 ± 12.93	165.6 ± 13.35	981.5 ± 76.09	123.9 ± 35.34	n = 6	In-House
125.8 ± 3.13	731.4 ± 6.98	111.6 ± 3.25	1116.0 ± 36.41	92.4 ± 2.04	n = 4	Ortho Clinical Diagnostics
201.7 ± 8.83	739.4 ± 27.19	152.7 ± 6.48	1049.9 ± 56.59	112.8 ± 5.44	n = 30	Roche Elecsys/Modular E/e601/e411
198.5 ± 23.44	761.2 ± 66.75	155.6 ± 20.64	1023.6 ±123.77	130.3 ± 16.29	n = 45	Siemens ADVIA/ADVIA Centaur
113.1 ± 16.54	656.3 ± 76.29	114.6 ± 15.13	901.0 ±111.00	92.5 ± 16.26	n = 16	Siemens Immulite
124.9 ± 15.73	687.7 ± 45.93	94.7 ± 3.97	1001.9 ± 45.15	74.5 ± 1.15	n = 3	Tosoh ST AIA
175.9 ± 55.30	716.2 ± 69.59	137.6 ± 30.56	1011.2 ±105.74	108.0 ± 20.40	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Progesterone (ng/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
7.00 ± 1.65	0.37 ± 0.17	8.06 ± 0.90	10.34 ± 1.57	14.10 ± 1.92	n = 160	All Methods & Instruments
6.90	0.40	8.10	10.00	14.30	n = 160	Median value, All Methods & Instruments
<Instruments>						
14.09 ± 0.58	0.13 ± 0.05	9.08 ± 0.31	11.23 ± 0.73	15.48 ± 1.32	n = 6	Abbott Architect i System
6.85 ± 0.44	0.31 ± 0.05	8.20 ± 0.63	11.44 ± 0.64	14.17 ± 0.70	n = 9	Beckman Coulter ACCESS
7.08 ± 0.17	0.41 ± 0.05	8.60 ± 0.64	11.58 ± 0.66	14.49 ± 0.69	n = 4	Beckman Coulter UniCel DxI 600
7.14 ± 0.72	0.35 ± 0.09	8.87 ± 1.04	12.06 ± 0.98	14.85 ± 0.93	n = 11	Beckman Coulter UniCel DxI 800
6.90 ± 0.87	0.10 ± 0.00	8.59 ± 1.02	11.30 ± 0.67	15.45 ± 1.97	n = 4	LC/MS/MS
4.29 ± 0.30	1.26 ± 0.07	6.13 ± 0.54	9.53 ± 0.77	11.14 ± 0.96	n = 6	Ortho Vitros 5600
9.16 ± 0.30	0.54 ± 0.06	8.10 ± 0.32	11.96 ± 0.54	15.78 ± 0.56	n = 6	Roche cobas e411
9.09 ± 0.25	0.52 ± 0.04	8.22 ± 0.22	11.97 ± 0.29	15.96 ± 0.39	n = 13	Roche cobas e601
9.32 ± 0.04	0.53 ± 0.04	8.39 ± 0.19	12.13 ± 0.31	16.02 ± 0.49	n = 5	Roche cobas e602
9.10 ± 0.31	0.52 ± 0.07	8.02 ± 0.14	11.65 ± 0.29	15.31 ± 0.26	n = 7	Roche MODULAR E
6.71 ± 0.63	0.39 ± 0.15	8.20 ± 0.50	9.13 ± 0.59	14.06 ± 0.91	n = 48	Siemens ADVIA Centaur
7.47 ± 0.31	0.49 ± 0.01	9.01 ± 0.61	9.87 ± 0.42	14.54 ± 1.15	n = 3	Siemens ADVIA Centaur CP
8.00 ± 0.50	0.45 ± 0.04	8.00 ± 0.46	9.88 ± 0.39	13.63 ± 0.60	n = 3	Siemens Dimension Vista
5.86 ± 0.27	0.36 ± 0.05	7.63 ± 0.69	10.07 ± 1.01	11.61 ± 1.94	n = 5	Siemens Immulite 1000
5.34 ± 0.36	0.22 ± 0.03	6.90 ± 0.45	9.30 ± 0.73	11.27 ± 0.66	n = 24	Siemens Immulite 2000
7.41 ± 1.68	0.39 ± 0.15	8.28 ± 0.60	10.93 ± 1.17	14.49 ± 1.59	n = 15	Mean of Above Means
<Reagents>						
14.09 ± 0.58	0.13 ± 0.05	9.08 ± 0.31	11.23 ± 0.73	15.48 ± 1.32	n = 6	Abbott
6.98 ± 0.50	0.35 ± 0.08	8.53 ± 0.83	11.70 ± 0.83	14.52 ± 0.88	n = 24	Beckman Coulter
6.90 ± 0.87	0.10 ± 0.00	8.59 ± 1.02	11.30 ± 0.67	15.69 ± 1.73	n = 5	In-House
4.23 ± 0.30	1.23 ± 0.09	6.06 ± 0.51	9.49 ± 0.69	11.04 ± 0.90	n = 7	Ortho Clinical Diagnostics
9.14 ± 0.33	0.53 ± 0.05	8.21 ± 0.32	11.99 ± 0.47	15.86 ± 0.57	n = 32	Roche Elecsys/Modular E/e601/e411
6.76 ± 0.65	0.40 ± 0.15	8.24 ± 0.53	9.18 ± 0.61	14.08 ± 0.93	n = 51	Siemens ADVIA/ADVIA Centaur
8.00 ± 0.50	0.45 ± 0.04	8.00 ± 0.46	9.88 ± 0.39	13.63 ± 0.60	n = 3	Siemens Dimension LOCI
5.40 ± 0.39	0.24 ± 0.06	7.01 ± 0.49	9.43 ± 0.78	11.40 ± 0.71	n = 28	Siemens Immulite Progesterone (LKPW)
7.01 ± 2.05	0.32 ± 0.17	8.12 ± 0.86	10.52 ± 1.20	14.13 ± 1.85	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

17-hydroxyprogesterone (ng/dL)

Specimen: E26 -----	Specimen: E27 -----	Specimen: E28 -----	Specimen: E29 -----	Specimen: E30 -----	Number -----	Instrument or Reagent System -----
34.60 ± 7.17 31.40	51.75 ± 10.02 50.00	51.69 ± 12.75 48.40	88.01 ± 17.70 84.50	90.03 ± 6.76 90.00	n = 10 n = 10	All Methods & Instruments Median value, All Methods & Instruments
32.69 ± 6.16	47.99 ± 3.72	43.65 ± 0.46	81.95 ± 7.18	88.35 ± 8.34	n = 7	<Instruments> LC/MS/MS
33.30 ± 6.98	48.32 ± 3.98	46.25 ± 5.49	80.85 ± 8.30	86.92 ± 8.92	n = 6	<Reagents> In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone (DHEA, ng/dL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
69.2 ± 46.24	405.7 ±176.37	388.5 ±170.29	883.6 ±347.66	613.3 ±246.86	n = 8	All Methods & Instruments
82.0	370.0	356.0	798.0	559.0	n = 8	Median value, All Methods & Instruments
						<Instruments>
79.9 ± 55.04	447.6 ±292.95	482.1 ±272.03	919.4 ±588.73	705.9 ±434.63	n = 3	Automated microplate processor
64.4 ± 38.38	369.7 ± 76.47	352.2 ± 49.86	824.9 ±180.56	563.7 ± 55.01	n = 5	LC/MS/MS
72.1 ± 8.84	408.7 ± 44.40	417.2 ± 74.10	872.1 ± 53.87	634.8 ± 81.08	n = 2	Mean of Above Means
						<Reagents>
52.1 ± 44.10	343.0 ±131.95	335.5 ± 85.60	757.5 ±295.83	563.7 ± 55.08	n = 6	In-House

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone sulfate (DHEA-S, µg/dL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
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73.10 ± 12.29	283.02 ± 25.84	124.98 ± 14.49	455.38 ± 43.73	208.32 ± 21.59	n = 82	All Methods & Instruments
72.00	284.00	123.00	452.00	208.00	n = 82	Median value, All Methods & Instruments
 <Instruments>						
78.64 ± 0.69	300.38 ± 5.43	134.18 ± 2.24	484.29 ± 6.29	215.97 ± 3.27	n = 5	Abbott Architect i System
74.18 ± 1.53	274.53 ± 12.71	122.48 ± 5.22	437.49 ± 28.90	197.66 ± 8.92	n = 7	Beckman Coulter ACCESS
67.92 ± 1.94	256.63 ± 2.85	118.27 ± 4.82	413.47 ± 7.12	187.86 ± 7.36	n = 3	Beckman Coulter UniCel DxI 600
77.52 ± 6.54	281.97 ± 15.99	122.89 ± 9.06	446.95 ± 23.61	199.01 ± 9.96	n = 10	Beckman Coulter UniCel DxI 800
89.18 ± 4.04	308.79 ± 6.90	140.67 ± 4.24	489.91 ± 15.53	223.17 ± 7.20	n = 5	Roche cobas e601
94.28 ± 6.98	318.50 ± 20.94	151.03 ± 10.77	515.62 ± 20.57	241.59 ± 10.23	n = 3	Roche cobas e602
94.77 ± 1.51	312.40 ± 5.36	142.72 ± 3.52	502.39 ± 9.15	235.34 ± 3.07	n = 5	Roche MODULAR E
64.66 ± 4.57	242.85 ± 12.74	111.42 ± 3.27	385.33 ± 17.55	177.93 ± 7.39	n = 4	Siemens ADVIA Centaur
72.56 ± 6.36	285.69 ± 6.85	121.22 ± 3.23	493.32 ± 39.25	219.74 ± 9.47	n = 3	Siemens Immulite 1000
64.92 ± 7.29	275.98 ± 21.01	119.62 ± 12.32	442.67 ± 37.18	206.20 ± 17.62	n = 32	Siemens Immulite 2000
77.20 ± 11.65	286.65 ± 24.78	127.54 ± 12.99	463.42 ± 42.89	210.47 ± 20.68	n = 10	Mean of Above Means
 <Reagents>						
78.64 ± 0.69	300.38 ± 5.43	134.18 ± 2.24	484.29 ± 6.29	215.97 ± 3.27	n = 5	Abbott
74.65 ± 6.80	275.40 ± 17.95	121.76 ± 7.58	437.83 ± 26.30	196.67 ± 10.08	n = 20	Beckman Coulter
91.94 ± 5.02	309.52 ± 8.81	142.57 ± 5.37	498.54 ± 22.71	234.74 ± 13.60	n = 14	Roche Elecsys/Modular E/e601/e411
64.66 ± 4.57	242.85 ± 12.74	111.42 ± 3.27	385.33 ± 17.55	177.93 ± 7.39	n = 4	Siemens ADVIA/ADVIA Centaur
65.57 ± 7.50	277.16 ± 19.99	119.84 ± 11.51	446.49 ± 39.88	207.67 ± 17.41	n = 35	Siemens Immulite
74.23 ± 10.47	282.47 ± 24.55	125.51 ± 12.00	452.90 ± 42.10	206.72 ± 20.15	n = 5	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Lutropin (LH, mIU/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
5.71 ± 0.81 5.60	3.91 ± 0.50 3.90	221.00 ± 44.12 200.00	12.51 ± 1.42 12.60	96.99 ± 11.12 95.00	n = 185 n = 185	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
4.99 ± 0.32	3.32 ± 0.24	222.42 ± 12.86	10.69 ± 0.56	79.94 ± 3.10	n = 11	Abbott Architect i System
4.88 ± 0.05	3.83 ± 0.21	251.12 ± 2.73	10.98 ± 0.61	89.45 ± 1.63	n = 9	Beckman Coulter ACCESS
4.79 ± 0.24	3.67 ± 0.25	253.61 ± 8.20	10.56 ± 0.45	87.48 ± 6.56	n = 4	Beckman Coulter UniCel DxI 600
4.68 ± 0.30	3.65 ± 0.23	247.05 ± 7.58	10.41 ± 0.62	86.07 ± 4.19	n = 15	Beckman Coulter UniCel DxI 800
5.85 ± 0.19	3.46 ± 0.08	200.00 ± 0.00	14.27 ± 0.26	124.09 ± 1.57	n = 10	Ortho Vitros 5600
6.66 ± 0.32	4.91 ± 0.21	200.00 ± 0.00	13.96 ± 0.62	97.33 ± 3.99	n = 6	Roche cobas e411
6.41 ± 0.20	4.76 ± 0.11	200.00 ± 0.00	13.33 ± 0.25	92.58 ± 1.99	n = 17	Roche cobas e601
6.19 ± 0.21	4.64 ± 0.20	200.00 ± 0.00	12.93 ± 0.32	91.41 ± 2.92	n = 5	Roche cobas e602
6.53 ± 0.41	4.85 ± 0.36	226.84 ± 49.05	13.71 ± 0.89	92.64 ± 3.23	n = 3	Roche Elecsys
6.50 ± 0.19	4.85 ± 0.08	200.00 ± 0.01	13.40 ± 0.35	92.08 ± 3.56	n = 6	Roche MODULAR E
5.32 ± 0.31	3.77 ± 0.23	257.89 ± 55.75	12.47 ± 0.69	102.89 ± 6.73	n = 52	Siemens ADVIA Centaur
5.45 ± 0.19	4.23 ± 0.05	230.59 ± 55.91	12.71 ± 0.37	104.83 ± 11.10	n = 3	Siemens ADVIA Centaur CP
6.25 ± 0.14	4.06 ± 0.13	150.00 ± 0.00	14.60 ± 0.23	108.36 ± 2.26	n = 9	Siemens Dimension Vista
6.87 ± 0.51	4.25 ± 0.20	200.00 ± 0.00	13.09 ± 0.74	100.35 ± 6.60	n = 4	Siemens Immulite 1000
6.70 ± 0.41	3.90 ± 0.26	200.00 ± 0.00	12.53 ± 0.77	97.13 ± 7.39	n = 23	Siemens Immulite 2000
5.74 ± 0.18	3.92 ± 0.15	271.07 ± 38.72	12.41 ± 0.44	94.94 ± 5.01	n = 4	Tosoh Bioscience
5.89 ± 0.80	4.11 ± 0.56	219.87 ± 30.99	12.72 ± 1.36	94.87 ± 8.47	n = 16	Mean of Above Means
<Reagents>						
4.99 ± 0.32	3.32 ± 0.24	222.42 ± 12.86	10.69 ± 0.56	79.94 ± 3.10	n = 11	Abbott
4.77 ± 0.27	3.71 ± 0.24	250.08 ± 7.51	10.61 ± 0.63	87.76 ± 4.77	n = 28	Beckman Coulter
5.89 ± 0.22	3.47 ± 0.09	200.00 ± 0.00	14.27 ± 0.27	124.27 ± 2.24	n = 11	Ortho Clinical Diagnostics
6.44 ± 0.27	4.78 ± 0.18	200.00 ± 0.00	13.38 ± 0.51	92.74 ± 3.18	n = 37	Roche Elecsys/Modular E/e601/e411
5.33 ± 0.31	3.80 ± 0.25	256.35 ± 56.32	12.50 ± 0.67	102.95 ± 7.03	n = 55	Siemens ADVIA/ADVIA Centaur
6.25 ± 0.14	4.06 ± 0.13	150.00 ± 0.00	14.60 ± 0.23	108.36 ± 2.26	n = 9	Siemens Dimension LOCI
6.72 ± 0.42	3.95 ± 0.29	200.00 ± 0.00	12.62 ± 0.78	97.66 ± 7.36	n = 27	Siemens Immulite
5.78 ± 0.77	3.81 ± 0.41	212.62 ± 34.49	12.71 ± 1.59	98.17 ± 13.80	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Follitropin (FSH, mIU/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
14.22 ± 1.15	7.19 ± 0.80	28.33 ± 2.53	18.78 ± 3.29	144.87 ± 25.61	n = 189	All Methods & Instruments
14.10	7.10	28.30	18.00	138.00	n = 189	Median value, All Methods & Instruments
<Instruments>						
13.15 ± 0.72	6.39 ± 0.28	26.66 ± 1.45	15.66 ± 0.82	118.67 ± 6.35	n = 11	Abbott Architect i System
14.24 ± 0.57	7.08 ± 0.25	31.45 ± 2.00	16.55 ± 1.01	125.21 ± 6.97	n = 10	Beckman Coulter ACCESS
14.93 ± 0.72	7.12 ± 0.36	31.09 ± 0.57	16.60 ± 0.46	125.82 ± 8.53	n = 4	Beckman Coulter UniCel DxI 600
14.72 ± 1.10	7.50 ± 0.24	31.69 ± 1.86	16.98 ± 1.02	125.70 ± 8.86	n = 16	Beckman Coulter UniCel DxI 800
13.90 ± 0.31	5.93 ± 0.22	23.72 ± 0.48	15.72 ± 0.31	128.61 ± 4.85	n = 10	Ortho Vitros 5600
14.24 ± 0.30	7.28 ± 0.10	30.49 ± 0.40	18.69 ± 0.41	138.95 ± 2.62	n = 6	Roche cobas e411
13.50 ± 0.46	6.89 ± 0.19	28.91 ± 0.80	17.84 ± 0.49	134.41 ± 3.67	n = 16	Roche cobas e601
13.62 ± 0.33	6.94 ± 0.20	28.99 ± 0.83	17.69 ± 0.63	133.22 ± 4.39	n = 5	Roche cobas e602
13.66 ± 0.65	7.00 ± 0.36	29.01 ± 1.10	17.82 ± 0.86	135.49 ± 5.87	n = 3	Roche Elecsys
13.63 ± 0.51	6.90 ± 0.25	28.90 ± 1.21	17.73 ± 1.21	137.57 ± 10.00	n = 6	Roche MODULAR E
15.21 ± 0.92	8.03 ± 0.45	28.04 ± 1.66	23.48 ± 1.15	176.89 ± 13.35	n = 55	Siemens ADVIA Centaur
14.63 ± 0.59	7.25 ± 0.19	26.07 ± 1.83	20.93 ± 0.69	177.21 ± 11.13	n = 3	Siemens ADVIA Centaur CP
12.66 ± 0.33	6.44 ± 0.21	26.98 ± 0.84	16.15 ± 0.63	118.29 ± 2.04	n = 9	Siemens Dimension Vista
13.63 ± 0.39	6.87 ± 0.43	26.81 ± 1.23	18.30 ± 0.72	143.08 ± 6.05	n = 4	Siemens Immulite 1000
13.65 ± 0.69	6.69 ± 0.31	27.30 ± 1.38	18.05 ± 0.68	153.80 ± 11.87	n = 23	Siemens Immulite 2000
16.79 ± 0.91	8.56 ± 0.28	37.48 ± 1.98	18.35 ± 1.22	128.50 ± 4.06	n = 4	Tosoh Bioscience
13.98 ± 0.78	6.99 ± 0.53	28.57 ± 2.47	17.46 ± 1.28	132.53 ± 11.98	n = 16	Mean of Above Means
<Reagents>						
13.15 ± 0.72	6.39 ± 0.28	26.66 ± 1.45	15.66 ± 0.82	118.67 ± 6.35	n = 11	Abbott
14.57 ± 0.92	7.31 ± 0.36	31.53 ± 1.75	16.77 ± 0.98	125.35 ± 8.33	n = 30	Beckman Coulter
13.93 ± 0.36	5.97 ± 0.25	23.76 ± 0.57	15.77 ± 0.39	129.33 ± 5.13	n = 11	Ortho Clinical Diagnostics
13.69 ± 0.53	6.98 ± 0.27	29.19 ± 1.09	17.92 ± 0.71	135.32 ± 4.89	n = 36	Roche Elecsys/Modular E/e601/e411
15.17 ± 0.92	7.99 ± 0.48	27.95 ± 1.72	23.39 ± 1.25	176.89 ± 13.23	n = 58	Siemens ADVIA/ADVIA Centaur
12.66 ± 0.33	6.44 ± 0.21	26.98 ± 0.84	16.15 ± 0.63	118.29 ± 2.04	n = 9	Siemens Dimension LOCI
13.65 ± 0.63	6.71 ± 0.34	27.22 ± 1.38	18.09 ± 0.70	152.01 ± 11.96	n = 27	Siemens Immulite
13.80 ± 0.82	6.78 ± 0.64	27.58 ± 2.20	16.68 ± 1.10	132.97 ± 18.49	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Prolactin (µg/L)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
2.84 ± 0.57 2.70	7.01 ± 1.21 6.80	38.47 ± 6.19 36.90	6.20 ± 1.04 6.00	7.73 ± 1.22 7.40	n = 172 n = 172	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
3.32 ± 0.30	8.58 ± 0.60	43.87 ± 2.80	7.49 ± 0.57	9.43 ± 0.82	n = 9	Abbott Architect i System
2.67 ± 0.16	6.81 ± 0.40	34.99 ± 1.76	6.01 ± 0.32	7.38 ± 0.39	n = 10	Beckman Coulter ACCESS
2.85 ± 0.12	7.10 ± 0.18	35.23 ± 2.19	6.15 ± 0.17	7.64 ± 0.32	n = 4	Beckman Coulter UniCel DxI 600
2.67 ± 0.27	6.64 ± 0.50	33.80 ± 2.33	5.92 ± 0.37	7.24 ± 0.40	n = 13	Beckman Coulter UniCel DxI 800
3.52 ± 0.55	7.31 ± 0.47	38.57 ± 2.51	6.58 ± 0.51	9.76 ± 0.69	n = 10	Ortho Vitros 5600
3.87 ± 0.28	9.59 ± 0.79	53.35 ± 2.01	8.31 ± 0.74	10.10 ± 0.54	n = 5	Roche cobas e411
3.68 ± 0.13	9.22 ± 0.29	49.40 ± 0.93	8.00 ± 0.20	9.14 ± 0.26	n = 14	Roche cobas e601
3.63 ± 0.16	9.05 ± 0.29	48.47 ± 1.90	7.99 ± 0.35	9.12 ± 0.16	n = 4	Roche cobas e602
3.94 ± 0.10	9.83 ± 0.14	51.90 ± 0.55	8.34 ± 0.26	9.27 ± 0.69	n = 3	Roche Elecsys
3.70 ± 0.18	9.01 ± 0.19	48.61 ± 1.29	7.86 ± 0.21	8.94 ± 0.26	n = 6	Roche MODULAR E
2.66 ± 0.14	6.44 ± 0.26	35.89 ± 1.84	5.72 ± 0.26	7.06 ± 0.27	n = 51	Siemens ADVIA Centaur
2.66 ± 0.10	6.77 ± 0.32	37.14 ± 3.30	6.10 ± 0.36	7.35 ± 0.19	n = 3	Siemens ADVIA Centaur CP
2.49 ± 0.04	7.02 ± 0.17	42.51 ± 0.58	6.09 ± 0.09	7.65 ± 0.09	n = 11	Siemens Dimension Vista
2.24 ± 0.16	5.87 ± 0.31	34.16 ± 1.51	5.07 ± 0.22	6.58 ± 0.40	n = 20	Siemens Immulite 2000
3.13 ± 0.62	7.76 ± 1.42	41.70 ± 7.62	6.81 ± 1.18	8.33 ± 1.24	n = 14	Mean of Above Means
<Reagents>						
3.26 ± 0.36	8.52 ± 0.74	43.38 ± 3.42	7.40 ± 0.71	9.29 ± 1.02	n = 10	Abbott
2.71 ± 0.22	6.79 ± 0.45	34.52 ± 2.28	6.00 ± 0.33	7.35 ± 0.41	n = 27	Beckman Coulter
3.51 ± 0.57	7.33 ± 0.54	38.86 ± 2.42	6.59 ± 0.52	9.77 ± 0.73	n = 12	Ortho Clinical Diagnostics
3.72 ± 0.19	9.23 ± 0.45	49.78 ± 2.20	8.01 ± 0.35	9.19 ± 0.46	n = 32	Roche Elecsys/Modular E/e601/e411
2.66 ± 0.14	6.45 ± 0.27	35.93 ± 1.91	5.73 ± 0.27	7.08 ± 0.27	n = 54	Siemens ADVIA/ADVIA Centaur
2.49 ± 0.04	7.02 ± 0.17	42.51 ± 0.58	6.09 ± 0.09	7.65 ± 0.09	n = 11	Siemens Dimension LOCI
2.24 ± 0.20	5.88 ± 0.34	34.12 ± 1.62	5.08 ± 0.21	6.60 ± 0.43	n = 22	Siemens Immulite
2.92 ± 0.57	7.22 ± 1.14	39.40 ± 5.52	6.36 ± 0.98	8.11 ± 1.30	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact Parathyrin (PTH, pg/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
3.12 ± 2.10 3.00	4.03 ± 2.25 4.00	3.03 ± 2.01 3.00	9.80 ± 5.39 9.00	90.45 ± 18.03 88.00	n = 183 n = 183	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
2.30 ± 2.03	4.31 ± 1.68	2.72 ± 1.42	18.23 ± 8.66	160.63 ± 15.42	n = 5	Abbott Architect i System
1.75 ± 2.68	2.59 ± 2.20	1.93 ± 2.50	7.68 ± 3.61	82.91 ± 7.60	n = 12	Beckman Coulter ACCESS
0.50 ± 0.57	1.97 ± 1.44	0.65 ± 0.43	7.81 ± 3.02	85.35 ± 3.40	n = 7	Beckman Coulter UniCel DxI 600
1.00 ± 0.00	1.70 ± 0.75	1.00 ± 0.00	7.67 ± 2.86	82.61 ± 4.86	n = 18	Beckman Coulter UniCel DxI 800
3.40 ± 0.00	4.90 ± 1.03	3.40 ± 0.00	15.28 ± 4.77	129.73 ± 12.84	n = 9	Ortho Vitros 5600
3.97 ± 1.19	5.89 ± 1.40	3.63 ± 1.27	13.84 ± 5.76	78.17 ± 4.83	n = 22	Roche cobas e601
3.50 ± 0.34	5.56 ± 1.30	3.05 ± 0.28	14.06 ± 4.56	77.26 ± 1.71	n = 4	Roche cobas e602
3.79 ± 0.39	7.28 ± 1.03	3.50 ± 0.39	19.14 ± 3.53	87.10 ± 5.59	n = 4	Roche Elecsys
3.53 ± 1.49	5.31 ± 1.38	3.09 ± 1.54	12.77 ± 4.86	72.56 ± 7.78	n = 9	Roche MODULAR E
4.23 ± 2.56	4.43 ± 2.36	4.15 ± 2.49	8.53 ± 4.80	104.24 ± 8.80	n = 49	Siemens ADVIA Centaur
3.55 ± 3.14	5.31 ± 1.59	3.63 ± 3.06	13.98 ± 4.10	109.61 ± 5.19	n = 4	Siemens ADVIA Centaur CP
4.18 ± 1.12	4.18 ± 1.12	4.18 ± 1.12	8.04 ± 3.40	87.37 ± 3.95	n = 7	Siemens Immulite 1000
3.00 ± 0.00	3.00 ± 0.00	3.00 ± 0.00	7.29 ± 3.26	98.94 ± 9.36	n = 21	Siemens Immulite 2000
1.00 ± 0.00	1.58 ± 0.80	1.00 ± 0.00	7.13 ± 5.68	66.09 ± 8.07	n = 7	Tosoh Bioscience
2.97 ± 1.30	4.17 ± 1.78	2.91 ± 1.17	11.27 ± 4.46	87.89 ± 17.19	n = 14	Mean of Above Means
<Reagents>						
2.30 ± 2.03	4.31 ± 1.68	2.72 ± 1.42	18.23 ± 8.66	160.63 ± 15.42	n = 5	Abbott
0.66 ± 0.53	1.77 ± 1.07	0.82 ± 0.30	7.69 ± 3.11	83.06 ± 5.70	n = 37	Beckman Coulter
3.40 ± 0.00	4.90 ± 1.03	3.40 ± 0.00	15.28 ± 4.77	129.73 ± 12.84	n = 9	Ortho Clinical Diagnostics
3.75 ± 1.05	5.95 ± 1.48	3.40 ± 1.11	14.54 ± 5.72	78.03 ± 6.89	n = 41	Roche Elecsys/Modular E/e601/e411
4.19 ± 2.61	4.49 ± 2.31	4.12 ± 2.54	8.95 ± 4.98	104.81 ± 8.64	n = 53	Siemens ADVIA/ADVIA Centaur
3.00 ± 0.00	3.00 ± 0.00	3.00 ± 0.00	7.47 ± 3.32	97.22 ± 9.60	n = 24	Siemens Immulite
5.00 ± 0.00	5.00 ± 0.00	5.00 ± 0.00	7.37 ± 3.02	85.78 ± 5.06	n = 4	Siemens Immulite Turbo
1.00 ± 0.00	1.90 ± 0.79	1.00 ± 0.00	9.17 ± 5.92	65.45 ± 7.57	n = 5	Tosoh AIA
2.98 ± 1.51	3.99 ± 1.54	3.00 ± 1.41	10.70 ± 4.28	96.27 ± 28.17	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D2 (ng/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
30.04 ± 2.31	20.32 ± 2.15	10.42 ± 0.74	2.73 ± 1.57	2.74 ± 1.56	n = 13	All Methods & Instruments
29.00	19.90	10.00	2.00	2.00	n = 13	Median value, All Methods & Instruments
						<Instruments>
30.04 ± 2.31	20.32 ± 2.15	10.42 ± 0.74	2.73 ± 1.57	2.74 ± 1.56	n = 13	LC/MS/MS
						<Reagents>
30.04 ± 2.31	20.32 ± 2.15	10.42 ± 0.74	2.73 ± 1.57	2.74 ± 1.56	n = 13	In-House

25-OH Vitamin D3 (ng/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
37.91 ± 1.62	60.74 ± 3.23	62.50 ± 4.47	45.88 ± 3.44	48.52 ± 1.40	n = 13	All Methods & Instruments
37.00	60.00	59.90	44.00	48.00	n = 13	Median value, All Methods & Instruments
						<Instruments>
37.91 ± 1.62	60.74 ± 3.23	62.50 ± 4.47	45.88 ± 3.44	48.52 ± 1.40	n = 13	LC/MS/MS
						<Reagents>
37.91 ± 1.62	60.74 ± 3.23	62.50 ± 4.47	45.88 ± 3.44	48.52 ± 1.40	n = 13	In-House

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
43.86 ± 10.37 42.80	58.66 ± 9.77 57.20	54.89 ± 9.15 54.00	38.76 ± 5.71 38.90	41.20 ± 5.91 41.00	n = 183 n = 183	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
32.90 ± 1.42	54.92 ± 2.55	55.61 ± 2.45	40.59 ± 1.80	43.23 ± 1.81	n = 24	Abbott Architect i System
58.96 ± 2.84	62.96 ± 4.04	48.63 ± 3.13	40.55 ± 1.98	35.89 ± 2.26	n = 4	Beckman Coulter ACCESS
39.80 ± 4.94	51.90 ± 4.71	50.24 ± 4.21	34.25 ± 3.40	38.06 ± 4.09	n = 48	DiaSorin Liaison
43.05 ± 2.10	59.26 ± 1.37	59.19 ± 3.19	42.03 ± 0.95	43.14 ± 0.91	n = 3	Immunodiagnostic Systems-iSYS Immun
68.53 ± 2.62	81.34 ± 4.02	74.43 ± 5.31	46.62 ± 3.38	49.00 ± 0.00	n = 12	LC/MS/MS
64.76 ± 4.04	67.06 ± 3.59	46.22 ± 3.61	48.33 ± 3.20	34.70 ± 1.92	n = 11	Ortho Vitros 5600
41.84 ± 3.07	50.70 ± 4.89	54.07 ± 7.46	45.46 ± 13.94	43.48 ± 6.59	n = 3	Roche cobas e411
37.88 ± 2.42	51.39 ± 3.26	47.13 ± 2.76	37.06 ± 2.67	37.33 ± 2.70	n = 13	Roche cobas e601
47.47 ± 4.78	64.51 ± 6.46	62.69 ± 6.00	38.11 ± 3.68	44.18 ± 3.94	n = 44	Siemens ADVIA Centaur
49.11 ± 0.67	73.76 ± 4.61	65.57 ± 3.41	55.42 ± 3.48	51.81 ± 2.84	n = 5	Tosoh Bioscience
41.97 ± 5.44	54.50 ± 2.26	50.14 ± 4.56	36.97 ± 4.60	38.48 ± 2.05	n = 3	UV/Vis Photometer
46.67 ± 11.32	60.04 ± 9.61	54.77 ± 8.43	41.67 ± 5.82	41.42 ± 5.42	n = 11	Mean of Above Means
<Reagents>						
32.90 ± 1.42	54.92 ± 2.55	55.61 ± 2.45	40.59 ± 1.80	43.23 ± 1.81	n = 24	Abbott
57.68 ± 2.85	63.70 ± 3.51	48.29 ± 3.73	40.21 ± 3.05	34.66 ± 3.21	n = 6	Beckman Coulter
39.80 ± 4.94	51.90 ± 4.71	50.24 ± 4.21	34.25 ± 3.40	38.06 ± 4.09	n = 48	DiaSorin Liaison
39.98 ± 4.20	56.99 ± 9.59	54.88 ± 11.31	43.52 ± 5.27	42.39 ± 6.11	n = 4	Immunodiagnostic Systems Enzyme Imm
43.05 ± 2.10	59.26 ± 1.37	59.19 ± 3.19	42.03 ± 0.95	43.14 ± 0.91	n = 3	Immunodiagnostic Systems-iSYS chemi
68.53 ± 2.62	81.33 ± 4.10	74.36 ± 5.52	46.23 ± 4.33	49.00 ± 0.00	n = 13	In-House
65.12 ± 4.01	66.79 ± 3.53	46.27 ± 3.42	47.88 ± 3.61	34.68 ± 1.98	n = 12	Ortho Clinical Diagnostics
38.81 ± 2.86	52.14 ± 3.78	48.42 ± 4.05	37.53 ± 2.90	38.23 ± 3.74	n = 20	Roche Elecsys/Modular E/e601/e411
48.18 ± 4.71	65.27 ± 7.29	63.56 ± 6.08	38.35 ± 3.76	44.55 ± 4.30	n = 34	Siemens ADVIA Centaur - Vitamin D T
45.02 ± 4.48	63.27 ± 5.54	59.90 ± 5.14	37.43 ± 3.40	43.28 ± 3.12	n = 10	Siemens ADVIA/ADVIA Centaur
50.28 ± 2.46	73.65 ± 5.26	65.68 ± 3.92	55.88 ± 3.86	52.50 ± 2.91	n = 4	Tosoh AIA
47.07 ± 11.21	61.81 ± 8.65	56.31 ± 8.48	41.30 ± 5.27	41.96 ± 5.46	n = 11	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact human Choriogonadotropin (intact hCG, mIU/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
51.0 ± 2.65	1.4 ± 0.90	45.9 ± 7.56	1.4 ± 0.90	47.2 ± 3.29	n = 46	All Methods & Instruments
50.0	1.0	48.0	1.0	47.0	n = 46	Median value, All Methods & Instruments
						<Instruments>
49.6 ± 0.84	2.2 ± 2.11	36.6 ± 0.80	2.2 ± 2.11	44.2 ± 1.30	n = 12	Roche cobas e601
52.3 ± 2.65	1.3 ± 0.98	50.5 ± 2.42	1.3 ± 0.98	49.0 ± 2.68	n = 15	Siemens Dimension EXL
51.5 ± 2.38	1.5 ± 0.69	51.5 ± 2.92	1.5 ± 0.69	48.5 ± 1.70	n = 10	Siemens Dimension RxL
50.1 ± 2.15	1.4 ± 0.55	47.2 ± 2.10	1.4 ± 0.55	47.2 ± 2.69	n = 5	Siemens Dimension Xpand
50.9 ± 1.22	1.5 ± 0.36	47.4 ± 6.00	1.5 ± 0.36	47.4 ± 1.97	n = 4	Mean of Above Means
						<Reagents>
49.4 ± 1.64	2.1 ± 1.91	36.5 ± 1.22	2.1 ± 1.91	44.1 ± 1.82	n = 14	Roche Elecsys/Modular E/e601/e411
51.7 ± 2.60	1.4 ± 0.81	50.3 ± 3.00	1.4 ± 0.81	48.5 ± 2.53	n = 30	Siemens Dimension
50.5 ± 1.31	1.8 ± 0.45	43.4 ± 7.83	1.8 ± 0.45	46.3 ± 2.50	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Total Beta hCG (mIU/mL)

Specimen: E26	Specimen: E27	Specimen: E28	Specimen: E29	Specimen: E30	Number	Instrument or Reagent System
61.5 ± 8.33 63.0	1.2 ± 0.83 1.0	34.1 ± 7.62 33.0	1.2 ± 0.85 1.0	55.7 ± 10.30 58.0	n = 251 n = 251	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
51.6 ± 2.43	1.8 ± 1.73	28.3 ± 1.54	1.8 ± 1.73	46.2 ± 1.95	n = 23	Abbott Architect i System
66.0 ± 2.88	0.5 ± 0.37	27.9 ± 1.29	0.5 ± 0.37	58.7 ± 2.53	n = 27	Beckman Coulter ACCESS
68.0 ± 3.82	1.5 ± 1.97	29.5 ± 1.53	1.4 ± 2.05	60.6 ± 2.96	n = 8	Beckman Coulter UniCel DxI 600
67.3 ± 5.59	1.2 ± 1.54	28.9 ± 1.50	1.2 ± 1.52	58.8 ± 3.69	n = 15	Beckman Coulter UniCel DxI 800
62.7 ± 2.47	2.3 ± 0.34	44.0 ± 1.84	2.3 ± 0.34	59.1 ± 2.51	n = 19	Ortho Vitros 5600
63.1 ± 3.27	3.4 ± 1.79	44.5 ± 2.99	3.4 ± 1.79	59.7 ± 3.45	n = 5	Ortho Vitros ECI/ECiQ
69.4 ± 4.17	0.9 ± 0.62	38.9 ± 1.64	0.9 ± 0.62	64.4 ± 2.84	n = 8	Roche cobas e411
66.8 ± 1.02	0.5 ± 0.57	37.4 ± 0.91	0.5 ± 0.57	63.0 ± 1.05	n = 15	Roche cobas e601
66.6 ± 1.02	1.8 ± 2.36	37.1 ± 0.27	1.8 ± 2.36	63.3 ± 0.51	n = 3	Roche cobas e602
67.4 ± 2.63	0.1 ± 0.00	37.8 ± 0.92	0.1 ± 0.00	64.0 ± 2.47	n = 3	Roche Elecsys
65.2 ± 1.83	1.5 ± 1.60	36.4 ± 0.85	1.5 ± 1.60	61.3 ± 1.71	n = 9	Roche MODULAR E
51.7 ± 3.04	2.0 ± 0.00	28.0 ± 1.70	2.0 ± 0.00	40.8 ± 2.79	n = 49	Siemens ADVIA Centaur
53.8 ± 3.23	2.0 ± 0.00	27.0 ± 1.80	2.0 ± 0.00	43.5 ± 1.86	n = 3	Siemens ADVIA Centaur CP
63.4 ± 1.12	1.0 ± 0.00	39.5 ± 0.76	1.0 ± 0.00	58.2 ± 0.90	n = 42	Siemens Dimension Vista
84.7 ± 8.64	2.1 ± 2.05	43.6 ± 0.82	2.1 ± 2.05	78.7 ± 9.81	n = 3	Siemens Immulite 1000
96.1 ± 4.98	1.0 ± 0.00	52.5 ± 3.98	1.0 ± 0.00	89.0 ± 5.37	n = 12	Siemens Immulite 2000
71.5 ± 1.47	0.7 ± 0.61	42.7 ± 1.46	0.7 ± 0.61	66.3 ± 2.50	n = 4	Tosoh Bioscience
65.1 ± 7.61	1.4 ± 0.79	36.5 ± 7.63	1.4 ± 0.78	60.3 ± 9.56	n = 17	Mean of Above Means
<Reagents>						
51.7 ± 2.37	2.0 ± 1.88	28.3 ± 1.51	2.0 ± 1.88	46.4 ± 1.96	n = 24	Abbott
66.6 ± 4.11	0.5 ± 0.42	28.6 ± 1.66	0.6 ± 0.41	59.1 ± 2.95	n = 37	Beckman Coulter
67.0 ± 3.83	0.5 ± 0.24	28.2 ± 1.37	0.5 ± 0.24	59.3 ± 3.64	n = 13	Beckman Coulter IFCC Standardized
62.7 ± 2.62	2.3 ± 0.32	44.2 ± 2.11	2.3 ± 0.32	59.2 ± 2.72	n = 24	Ortho Clinical Diagnostics
66.7 ± 2.67	0.7 ± 0.61	37.4 ± 1.31	0.7 ± 0.61	62.9 ± 2.29	n = 38	Roche Elecsys/Modular E/e601/e411
51.8 ± 3.06	2.0 ± 0.00	27.9 ± 1.72	2.0 ± 0.00	41.0 ± 2.83	n = 52	Siemens ADVIA/ADVIA Centaur
59.7 ± 6.93	0.7 ± 0.51	41.5 ± 4.61	0.7 ± 0.51	54.7 ± 6.93	n = 3	Siemens Dimension
63.4 ± 1.16	1.0 ± 0.00	39.5 ± 0.77	1.0 ± 0.00	58.2 ± 0.93	n = 40	Siemens Dimension LOCI
94.9 ± 5.99	1.0 ± 0.00	50.7 ± 5.28	1.0 ± 0.00	88.0 ± 5.78	n = 15	Siemens Immulite
61.9 ± 6.68	1.1 ± 0.72	35.9 ± 8.58	1.1 ± 0.72	56.6 ± 8.88	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Qualitative hCG report:

[AB1] Abbott		Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
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Negative		0	8	0	8	0
Indeterminant		0	0	0	0	0
Positive		8	0	8	0	8
[AR1] Alere hCG Combo Cassette		Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
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Negative		0	8	0	8	0
Indeterminant		0	0	0	0	0
Positive		8	0	8	0	8
[BC1] Beckman Coulter		Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
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Negative		0	24	0	24	0
Indeterminant		0	0	1	0	0
Positive		24	0	23	0	24
[CD1] Cardinal Health		Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
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Negative		0	23	0	23	0
Indeterminant		0	0	0	0	0
Positive		23	0	23	0	23
[CM1] CEN-MED Elite Plus hCG One Step		Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
-----		-----	-----	-----	-----	-----
Negative		0	5	0	5	0
Indeterminant		0	0	0	0	0
Positive		5	0	5	0	5
[FI1] Fisher		Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
-----		-----	-----	-----	-----	-----
Negative		0	44	0	44	0
Indeterminant		0	0	0	0	0
Positive		44	0	44	0	44
[IH1] In-House		Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
-----		-----	-----	-----	-----	-----
Negative		0	1	0	1	0
Indeterminant		0	0	0	0	0
Positive		1	0	1	0	1

Statistical Summary (Mean and Standard Deviation)

[JJ1] Ortho Clinical Diagnostics	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	3	1	3	1	3
[PM1] Polymedco	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
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:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
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:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	16	0	16	0
Indeterminant	0	0	0	0	0
Positive	16	0	16	0	16
[RO3] Roche Elecsys/Modular E/e601/e411	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	11	0	11	0
Indeterminant	0	0	0	0	0
Positive	11	0	11	0	11
[GZ1] Sekisui Diagnostics (Genzyme)	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	5	0	5	0	5
[BY1] Siemens ADVIA/ADVIA Centaur	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	22	0	22	0
Indeterminant	0	0	1	0	0
Positive	22	0	21	0	22

Statistical Summary (Mean and Standard Deviation)

[DA5] Siemens Dimension	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	1	0	1	0
Indeterminant	0	0	0	0	0
Positive	1	0	1	0	1
[DA6] Siemens Dimension LOCI	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	4	0	4	0
Indeterminant	0	0	0	0	0
Positive	4	0	4	0	4
[DP5] Siemens Immulite	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	2	0	2	0	2
[SB1] Stanbio	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	7	0	7	0
Indeterminant	0	0	0	0	0
Positive	7	0	7	0	7
[TR1] TrueMedix	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	4	0	4	0
Indeterminant	0	0	0	0	0
Positive	4	0	4	0	4
[---] All Methods & Instruments	Specimen:E26	Specimen:E27	Specimen:E28	Specimen:E29	Specimen:E30
Negative	0	211	0	211	0
Indeterminant	0	0	2	0	0
Positive	212	1	210	1	212