

Endocrinology Proficiency Test – May 2012

Enclosed is a statistical summary of participant data for the five endocrinology proficiency survey specimens (E76, E77, E78, E79, E80) shipped 7 May 2012. Test specimens 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 each participant 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 shown on the attached sheets are calculated by a robust statistical technique that does not assume a Gaussian distribution. These statistical reports are also available on the internet at: <http://www.wadsworth.org/chemheme>

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.

Outlined below is a description of the process utilized in the evaluation of your laboratory's proficiency test results.

Target value

In general, targets utilized are derived from all-participant mean values calculated by robust statistical technique. In some cases, however, it is recognized that method, reagent, and/or instrument specific targets may be required and "peer group" specific targets are used where appropriate. Should an alternate target be required to evaluate your laboratory's data, an asterisk will be placed adjacent to the method, reagent, and/or instrument listing(s) corresponding to the peer group utilized.

Acceptable ranges

Limits of acceptable performance were established using criteria specified by CLIA'88 regulations, allowing for rounding to appropriate significant digits. Results falling within this range are scored as 100%. Any result exceeding these limits is considered unsatisfactory and receives a score of 0%. Laboratories must achieve an overall analyte score $\geq 80\%$ in order to meet performance criteria for that analyte.

Range plots

Plots show relative distance of your laboratory's results (represented by an "x") from the target for each sample analyzed. Any result exceeding the high or low limit by $> 20\%$ of the acceptable range is also indicated by a "x" symbol.

Should you have any questions regarding this report, please contact the Endocrinology Section at (518) 474-5101.

Statistical Summary (Mean and Standard Deviation)

Thyroxin (T4, µg/dL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
3.19 ± 0.65	7.94 ± 1.01	10.51 ± 1.16	12.27 ± 1.22	13.88 ± 1.40	n = 234	All Methods & Instruments
3.20	7.80	10.40	12.10	13.70	n = 234	Median value, All Methods & Instruments
<Instruments>						
3.48 ± 0.30	6.79 ± 0.35	9.31 ± 0.36	11.90 ± 0.48	13.76 ± 0.57	n = 16	Abbott Architect i System
3.65 ± 0.11	7.55 ± 0.11	10.09 ± 0.27	11.72 ± 0.16	13.54 ± 0.47	n = 5	Abbott AxSym
2.75 ± 0.22	9.47 ± 0.61	11.79 ± 0.83	13.24 ± 1.04	14.03 ± 0.82	n = 17	Beckman Coulter ACCESS
3.39 ± 0.16	7.35 ± 0.20	9.97 ± 0.22	11.94 ± 0.45	14.58 ± 0.66	n = 10	Beckman Coulter AU Chemistry System
2.65 ± 0.29	9.40 ± 0.47	11.90 ± 0.66	13.45 ± 0.71	13.85 ± 0.95	n = 17	Beckman Coulter UniCel DxI 800
3.15 ± 0.14	7.82 ± 0.40	11.10 ± 0.71	12.61 ± 0.57	15.21 ± 0.85	n = 11	Ortho Vitros 5600
3.08 ± 0.15	7.64 ± 0.34	10.78 ± 0.52	12.21 ± 0.55	14.92 ± 0.77	n = 11	Ortho Vitros Eci/ECiQ
3.60 ± 0.17	6.43 ± 0.43	8.40 ± 0.58	10.51 ± 0.78	11.66 ± 0.85	n = 8	Roche cobas e601
4.40 ± 0.36	7.61 ± 0.56	9.97 ± 0.95	12.18 ± 1.23	13.73 ± 1.33	n = 3	Roche Elecsys
4.25 ± 0.55	7.44 ± 0.61	9.97 ± 0.81	12.21 ± 0.95	13.58 ± 1.02	n = 4	Roche MODULAR D/P
3.79 ± 0.17	6.88 ± 0.20	9.05 ± 0.27	11.45 ± 0.30	12.55 ± 0.26	n = 14	Roche MODULAR E
2.71 ± 0.34	7.99 ± 0.38	10.27 ± 0.44	11.53 ± 0.47	13.00 ± 0.58	n = 52	Siemens ADVIA Centaur
3.33 ± 0.14	7.65 ± 0.45	9.83 ± 0.51	12.71 ± 0.57	14.28 ± 0.15	n = 3	Siemens Dimension EXL
3.37 ± 0.36	7.97 ± 0.41	10.29 ± 0.38	13.29 ± 0.69	14.90 ± 0.59	n = 7	Siemens Dimension RxL
4.40 ± 0.49	9.16 ± 0.55	11.85 ± 0.47	14.64 ± 0.61	16.47 ± 0.64	n = 26	Siemens Dimension Vista
2.86 ± 0.16	7.94 ± 0.39	10.95 ± 0.54	12.76 ± 0.61	14.86 ± 1.11	n = 6	Siemens Immulite 1000
2.89 ± 0.33	7.57 ± 0.38	10.54 ± 0.41	12.02 ± 0.56	13.83 ± 0.71	n = 12	Siemens Immulite 2000
3.12 ± 0.04	7.49 ± 0.24	10.14 ± 1.11	11.77 ± 0.58	13.14 ± 0.43	n = 4	Tosoh Bioscience
3.34 ± 0.56	7.68 ± 0.74	10.34 ± 0.93	12.27 ± 0.83	13.98 ± 1.01	n = 18	Mean of Above Means
<Reagents>						
3.54 ± 0.28	6.97 ± 0.46	9.48 ± 0.48	11.85 ± 0.42	13.71 ± 0.56	n = 21	Abbott
2.70 ± 0.25	9.45 ± 0.55	11.85 ± 0.72	13.35 ± 0.88	13.92 ± 0.89	n = 35	Beckman Coulter
4.17 ± 0.69	7.51 ± 0.74	9.94 ± 0.97	12.39 ± 1.15	13.69 ± 1.24	n = 3	Microgenics CEDIA
3.39 ± 0.16	7.35 ± 0.20	9.97 ± 0.22	11.94 ± 0.45	14.58 ± 0.66	n = 10	Microgenics DRI
3.11 ± 0.15	7.72 ± 0.38	10.91 ± 0.64	12.40 ± 0.60	15.06 ± 0.83	n = 22	Ortho Clinical Diagnostics
3.80 ± 0.25	6.87 ± 0.31	8.96 ± 0.45	11.32 ± 0.43	12.51 ± 0.44	n = 29	Roche Elecsys/Modular E/e601/e411
2.71 ± 0.34	7.99 ± 0.38	10.27 ± 0.44	11.53 ± 0.47	13.00 ± 0.58	n = 52	Siemens ADVIA/ADVIA Centaur
4.00 ± 0.67	8.75 ± 0.79	11.39 ± 1.02	14.19 ± 0.97	15.90 ± 1.07	n = 32	Siemens Dimension
4.69 ± 0.53	9.43 ± 0.68	11.94 ± 0.61	14.87 ± 0.40	16.81 ± 0.20	n = 4	Siemens Dimension LOCI
2.91 ± 0.29	7.79 ± 0.53	10.71 ± 0.52	12.34 ± 0.79	14.12 ± 0.96	n = 19	Siemens Immulite
3.13 ± 0.05	7.57 ± 0.23	10.51 ± 1.19	11.90 ± 0.64	13.31 ± 0.37	n = 3	Tosoh ST AIA
3.43 ± 0.64	7.85 ± 0.88	10.53 ± 0.96	12.37 ± 1.02	14.10 ± 1.21	n = 11	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T4 (ng/dL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
0.55 ± 0.10	2.76 ± 0.50	2.66 ± 0.38	3.25 ± 0.51	2.85 ± 0.37	n = 259	All Methods & Instruments
0.50	2.80	2.70	3.20	2.80	n = 259	Median value, All Methods & Instruments
<Instruments>						
0.60 ± 0.00	1.82 ± 0.10	1.92 ± 0.13	2.64 ± 0.16	2.35 ± 0.15	n = 17	Abbott Architect i System
0.50 ± 0.00	1.90 ± 0.00	1.90 ± 0.09	2.30 ± 0.09	2.07 ± 0.14	n = 3	Abbott AxSym
0.50 ± 0.00	2.91 ± 0.15	2.73 ± 0.13	3.07 ± 0.10	2.77 ± 0.11	n = 20	Beckman Coulter ACCESS
0.50 ± 0.09	3.01 ± 0.20	2.81 ± 0.20	3.10 ± 0.09	2.81 ± 0.20	n = 3	Beckman Coulter UniCel DxI 600
0.52 ± 0.06	3.05 ± 0.11	2.90 ± 0.16	3.24 ± 0.16	2.91 ± 0.16	n = 16	Beckman Coulter UniCel DxI 800
0.62 ± 0.05	5.28 ± 0.21	4.83 ± 0.20	5.69 ± 0.22	4.98 ± 0.20	n = 13	Ortho Vitros 5600
0.63 ± 0.07	5.36 ± 0.24	4.86 ± 0.27	5.60 ± 0.16	4.98 ± 0.18	n = 10	Ortho Vitros ECI/ECiQ
0.63 ± 0.05	2.87 ± 0.05	2.77 ± 0.05	3.87 ± 0.14	3.23 ± 0.05	n = 3	Roche cobas e411
0.60 ± 0.00	2.87 ± 0.14	2.79 ± 0.13	3.78 ± 0.23	3.27 ± 0.22	n = 10	Roche cobas e601
0.62 ± 0.08	2.85 ± 0.18	2.72 ± 0.18	3.73 ± 0.44	3.20 ± 0.32	n = 5	Roche Elecsys
0.64 ± 0.05	2.96 ± 0.15	2.87 ± 0.13	3.94 ± 0.16	3.36 ± 0.13	n = 18	Roche MODULAR E
0.53 ± 0.06	2.64 ± 0.14	2.61 ± 0.13	3.09 ± 0.15	2.78 ± 0.12	n = 62	Siemens ADVIA Centaur
0.35 ± 0.11	2.47 ± 0.11	2.36 ± 0.18	2.97 ± 0.11	2.57 ± 0.19	n = 8	Siemens Dimension EXL
0.47 ± 0.13	3.46 ± 0.41	2.98 ± 0.29	3.86 ± 0.38	3.04 ± 0.30	n = 9	Siemens Dimension RxL
0.44 ± 0.09	2.36 ± 0.11	2.30 ± 0.14	2.89 ± 0.11	2.55 ± 0.13	n = 30	Siemens Dimension Vista
0.38 ± 0.08	3.28 ± 0.19	2.88 ± 0.11	3.56 ± 0.19	2.77 ± 0.11	n = 5	Siemens Dimension Xpand
0.70 ± 0.00	3.65 ± 0.27	3.30 ± 0.18	3.91 ± 0.20	3.37 ± 0.05	n = 3	Siemens Immulite 1000
0.62 ± 0.07	3.59 ± 0.10	3.18 ± 0.10	3.78 ± 0.09	3.26 ± 0.15	n = 14	Siemens Immulite 2000
0.40 ± 0.00	3.26 ± 0.10	3.43 ± 0.14	4.00 ± 0.09	3.70 ± 0.09	n = 3	Tosoh Bioscience
0.55 ± 0.10	2.95 ± 0.61	2.77 ± 0.44	3.49 ± 0.68	2.98 ± 0.48	n = 19	Mean of Above Means
<Reagents>						
0.58 ± 0.05	1.84 ± 0.10	1.92 ± 0.13	2.59 ± 0.20	2.32 ± 0.18	n = 20	Abbott
0.51 ± 0.05	2.98 ± 0.16	2.80 ± 0.17	3.14 ± 0.15	2.82 ± 0.15	n = 39	Beckman Coulter
0.63 ± 0.06	5.32 ± 0.23	4.84 ± 0.22	5.65 ± 0.21	4.98 ± 0.20	n = 23	Ortho Clinical Diagnostics
0.63 ± 0.05	2.91 ± 0.15	2.82 ± 0.14	3.89 ± 0.20	3.33 ± 0.17	n = 37	Roche Elecsys/Modular E/e601/e411
0.53 ± 0.06	2.64 ± 0.15	2.61 ± 0.13	3.09 ± 0.15	2.78 ± 0.13	n = 63	Siemens ADVIA/ADVIA Centaur
0.42 ± 0.13	3.35 ± 0.43	2.89 ± 0.33	3.67 ± 0.47	2.87 ± 0.34	n = 16	Siemens Dimension
0.43 ± 0.10	2.38 ± 0.12	2.32 ± 0.15	2.91 ± 0.12	2.56 ± 0.13	n = 36	Siemens Dimension LOCI
0.65 ± 0.07	3.60 ± 0.14	3.20 ± 0.13	3.80 ± 0.14	3.30 ± 0.16	n = 18	Siemens Immulite
0.55 ± 0.09	2.94 ± 0.80	2.69 ± 0.43	3.36 ± 0.64	2.85 ± 0.37	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T3-Uptake (%)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
30.41 ± 2.96	49.59 ± 9.35	46.05 ± 8.19	43.01 ± 5.06	40.87 ± 5.20	n = 141	All Methods & Instruments
30.00	49.00	46.00	43.20	41.30	n = 141	Median value, All Methods & Instruments
<Instruments>						
29.00 ± 1.03	44.24 ± 1.97	37.14 ± 1.50	35.27 ± 1.62	30.45 ± 1.31	n = 9	Abbott Architect i System
36.14 ± 1.86	51.60 ± 3.73	47.86 ± 2.68	44.57 ± 2.27	43.62 ± 3.05	n = 13	Beckman Coulter ACCESS
30.13 ± 1.68	48.98 ± 2.15	46.94 ± 2.31	45.19 ± 1.63	42.24 ± 1.65	n = 10	Beckman Coulter AU Chemistry System
37.77 ± 2.32	50.38 ± 2.38	47.31 ± 2.38	44.04 ± 2.80	43.99 ± 2.66	n = 12	Beckman Coulter UniCel DxI 800
30.70 ± 0.99	65.00 ± 0.00	58.39 ± 1.80	51.77 ± 1.50	46.29 ± 1.15	n = 6	Ortho Vitros 5600
30.17 ± 1.12	65.00 ± 0.00	56.95 ± 2.44	50.90 ± 1.65	45.23 ± 2.21	n = 6	Ortho Vitros ECI/ECiQ
30.96 ± 0.71	50.30 ± 0.82	48.44 ± 0.47	47.12 ± 0.33	42.99 ± 0.49	n = 4	Roche MODULAR D/P
30.22 ± 1.93	40.23 ± 1.27	39.23 ± 0.90	40.69 ± 0.92	38.49 ± 0.41	n = 5	Roche MODULAR E
30.27 ± 1.58	61.50 ± 3.36	55.09 ± 2.21	46.14 ± 1.77	44.17 ± 1.44	n = 28	Siemens ADVIA Centaur
30.79 ± 4.57	40.00 ± 3.16	39.00 ± 2.25	38.01 ± 3.36	38.31 ± 2.65	n = 4	Siemens Dimension EXL
28.86 ± 1.27	42.51 ± 0.83	39.86 ± 1.27	38.86 ± 1.27	36.83 ± 1.07	n = 5	Siemens Dimension RxL
29.97 ± 1.62	42.68 ± 2.47	40.50 ± 2.00	40.75 ± 2.30	38.68 ± 2.22	n = 18	Siemens Dimension Vista
26.94 ± 2.73	43.91 ± 4.66	38.19 ± 4.06	38.52 ± 1.26	33.98 ± 0.12	n = 5	Siemens Immulite 1000
28.18 ± 0.70	41.02 ± 1.49	36.89 ± 1.56	36.93 ± 1.52	33.33 ± 1.38	n = 11	Siemens Immulite 2000
29.88 ± 1.10	47.97 ± 8.71	44.54 ± 7.76	42.56 ± 5.27	40.22 ± 5.04	n = 14	Mean of Above Means
<Reagents>						
29.00 ± 1.03	44.24 ± 1.97	37.14 ± 1.50	35.27 ± 1.62	30.45 ± 1.31	n = 9	Abbott
36.77 ± 2.41	50.75 ± 3.26	47.44 ± 2.45	44.26 ± 2.51	43.61 ± 2.99	n = 26	Beckman Coulter
30.95 ± 0.82	50.00 ± 0.00	48.22 ± 0.89	46.38 ± 0.87	42.96 ± 1.26	n = 10	Microgenics CEDIA
27.89 ± 0.29	45.54 ± 0.56	43.75 ± 0.19	42.92 ± 0.50	40.90 ± 0.55	n = 3	Microgenics DRI
30.44 ± 1.11	65.00 ± 0.00	57.75 ± 2.26	51.37 ± 1.57	45.83 ± 1.80	n = 12	Ortho Clinical Diagnostics
30.77 ± 0.78	40.45 ± 1.12	39.45 ± 1.16	40.79 ± 0.78	38.46 ± 0.36	n = 6	Roche Elecsys/Modular E/e601/e411
30.27 ± 1.58	61.50 ± 3.36	55.09 ± 2.21	46.14 ± 1.77	44.17 ± 1.44	n = 28	Siemens ADVIA/ADVIA Centaur
29.57 ± 1.66	42.30 ± 2.54	40.29 ± 2.00	39.98 ± 2.70	38.23 ± 2.35	n = 25	Siemens Dimension
28.20 ± 0.91	41.71 ± 2.58	37.30 ± 1.94	37.33 ± 1.51	33.47 ± 1.24	n = 17	Siemens Immulite
29.71 ± 1.22	47.86 ± 8.37	44.60 ± 7.57	42.63 ± 4.90	40.27 ± 5.03	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

T Uptake (Unit)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
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1.125 ± 0.084	0.777 ± 0.115	0.842 ± 0.049	0.806 ± 0.032	0.948 ± 0.197	n = 20	All Methods & Instruments
1.160	0.820	0.860	0.800	0.900	n = 20	Median value, All Methods & Instruments
<Instruments>						
1.070 ± 0.027	0.579 ± 0.029	0.773 ± 0.042	0.802 ± 0.049	1.013 ± 0.050	n = 3	Abbott Architect i System
1.194 ± 0.010	0.849 ± 0.037	0.864 ± 0.047	0.811 ± 0.020	0.917 ± 0.014	n = 3	Roche cobas e601
1.172 ± 0.032	0.818 ± 0.028	0.852 ± 0.036	0.813 ± 0.027	0.874 ± 0.040	n = 7	Roche MODULAR E
1.009 ± 0.052	2.037 ± 0.075	1.825 ± 0.095	1.512 ± 0.037	1.441 ± 0.035	n = 4	Siemens ADVIA Centaur
1.113 ± 0.084	0.964 ± 0.557	0.984 ± 0.412	0.915 ± 0.288	1.022 ± 0.224	n = 4	Mean of Above Means
<Reagents>						
1.070 ± 0.027	0.579 ± 0.029	0.773 ± 0.042	0.802 ± 0.049	1.013 ± 0.050	n = 3	Abbott
1.181 ± 0.023	0.821 ± 0.034	0.856 ± 0.037	0.808 ± 0.026	0.890 ± 0.031	n = 12	Roche Elecsys/Modular E/e601/e411
1.009 ± 0.052	2.037 ± 0.075	1.825 ± 0.095	1.512 ± 0.037	1.441 ± 0.035	n = 4	Siemens ADVIA/ADVIA Centaur
1.083 ± 0.078	1.082 ± 0.696	1.099 ± 0.519	1.003 ± 0.362	1.094 ± 0.258	n = 3	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Triiodothyronine (T3, ng/dL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
57.2 ± 12.86	122.8 ± 21.30	132.1 ± 27.72	146.8 ± 16.62	169.7 ± 26.97	n = 195	All Methods & Instruments
57.0	126.0	134.0	149.0	172.0	n = 195	Median value, All Methods & Instruments
<Instruments>						
56.5 ± 3.38	91.1 ± 3.19	98.6 ± 4.26	130.2 ± 5.77	144.8 ± 8.25	n = 13	Abbott Architect i System
65.9 ± 8.99	118.7 ± 8.97	121.1 ± 10.17	139.5 ± 13.06	142.4 ± 12.98	n = 5	Abbott AxSym
51.8 ± 4.75	94.1 ± 6.45	94.5 ± 6.36	119.0 ± 7.37	125.1 ± 5.29	n = 13	Beckman Coulter ACCESS
52.8 ± 5.12	99.7 ± 0.51	99.0 ± 9.06	119.2 ± 7.69	135.0 ± 4.51	n = 3	Beckman Coulter UniCel DxI 600
54.6 ± 6.20	94.6 ± 6.49	97.3 ± 6.24	125.2 ± 7.62	133.2 ± 7.22	n = 16	Beckman Coulter UniCel DxI 800
62.0 ± 3.04	130.2 ± 4.91	132.3 ± 5.51	163.6 ± 6.55	172.6 ± 7.90	n = 10	Ortho Vitros 5600
59.2 ± 1.91	127.0 ± 5.99	131.0 ± 5.65	159.4 ± 6.34	165.9 ± 5.95	n = 5	Ortho Vitros Eci/ECiQ
89.7 ± 2.85	140.5 ± 2.03	154.0 ± 5.73	162.1 ± 3.41	183.3 ± 7.67	n = 8	Roche cobas e601
96.9 ± 5.72	154.7 ± 12.17	163.6 ± 9.68	165.2 ± 9.43	194.7 ± 6.93	n = 3	Roche Elecsys
87.2 ± 5.35	138.5 ± 6.84	150.3 ± 6.12	157.5 ± 9.08	182.7 ± 6.98	n = 15	Roche MODULAR E
54.7 ± 6.46	134.6 ± 10.15	156.5 ± 11.84	150.0 ± 9.56	193.5 ± 12.82	n = 57	Siemens ADVIA Centaur
45.1 ± 16.60	101.6 ± 12.88	112.5 ± 14.83	139.3 ± 12.47	149.1 ± 16.18	n = 4	Siemens Dimension RxL
51.6 ± 11.96	116.5 ± 10.92	117.7 ± 9.60	149.0 ± 10.32	162.1 ± 8.00	n = 17	Siemens Dimension Vista
40.2 ± 0.42	116.9 ± 11.55	114.5 ± 6.24	141.0 ± 12.03	155.0 ± 14.39	n = 5	Siemens Immulite 1000
51.9 ± 8.01	124.4 ± 12.59	126.8 ± 10.13	155.0 ± 7.99	167.3 ± 12.00	n = 11	Siemens Immulite 2000
58.8 ± 3.23	117.0 ± 8.11	122.7 ± 13.02	139.7 ± 2.26	157.5 ± 9.93	n = 3	Tosoh Bioscience
57.7 ± 13.46	118.7 ± 19.22	123.6 ± 23.01	145.3 ± 16.12	160.0 ± 22.16	n = 16	Mean of Above Means
<Reagents>						
57.7 ± 6.23	96.3 ± 12.07	102.1 ± 10.24	131.0 ± 6.73	144.4 ± 9.45	n = 18	Abbott
53.2 ± 5.61	95.1 ± 6.40	96.4 ± 6.82	122.2 ± 8.15	130.1 ± 7.60	n = 32	Beckman Coulter
60.8 ± 3.25	129.1 ± 5.76	131.9 ± 5.61	162.1 ± 6.96	170.4 ± 8.28	n = 15	Ortho Clinical Diagnostics
89.0 ± 5.21	141.0 ± 7.15	152.5 ± 6.80	159.5 ± 7.61	183.8 ± 7.65	n = 29	Roche Elecsys/Modular E/e601/e411
54.7 ± 6.37	134.8 ± 10.07	156.4 ± 11.70	149.9 ± 9.42	193.7 ± 12.74	n = 58	Siemens ADVIA/ADVIA Centaur
48.6 ± 13.38	111.3 ± 12.79	115.6 ± 10.37	148.8 ± 12.23	160.1 ± 9.62	n = 18	Siemens Dimension
59.8 ± 7.69	125.0 ± 1.80	125.9 ± 8.08	142.3 ± 6.93	166.6 ± 10.01	n = 3	Siemens Dimension LOCI
49.0 ± 8.50	123.0 ± 12.86	122.5 ± 10.30	151.4 ± 10.12	165.5 ± 15.12	n = 17	Siemens Immulite
54.9 ± 5.02	120.4 ± 17.15	124.9 ± 21.51	147.0 ± 13.22	165.1 ± 19.57	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free T-3 (pg/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
1.92 ± 0.26	4.42 ± 0.88	3.97 ± 0.85	4.69 ± 0.66	4.49 ± 0.74	n = 129	All Methods & Instruments
1.90	4.70	4.20	4.70	4.50	n = 129	Median value, All Methods & Instruments
<Instruments>						
1.53 ± 0.23	3.37 ± 0.27	3.19 ± 0.18	4.58 ± 0.25	4.19 ± 0.35	n = 10	Abbott Architect i System
1.88 ± 0.25	3.92 ± 0.35	3.50 ± 0.30	4.59 ± 0.39	4.09 ± 0.30	n = 6	Beckman Coulter ACCESS
1.85 ± 0.19	3.61 ± 0.32	3.28 ± 0.30	4.30 ± 0.46	3.81 ± 0.35	n = 13	Beckman Coulter UniCel DxI 800
1.33 ± 0.14	9.34 ± 0.73	5.91 ± 0.37	8.55 ± 0.36	6.97 ± 1.13	n = 3	Ortho Vitros 5600
1.02 ± 0.48	8.95 ± 0.50	5.93 ± 0.16	9.09 ± 0.56	6.63 ± 0.54	n = 5	Ortho Vitros Eci/ECiQ
2.05 ± 0.19	4.73 ± 0.14	4.55 ± 0.19	6.04 ± 0.10	5.87 ± 0.14	n = 3	Roche cobas e601
1.95 ± 0.19	4.72 ± 0.24	4.35 ± 0.27	5.54 ± 0.73	5.31 ± 0.61	n = 3	Roche Elecsys
1.88 ± 0.17	4.74 ± 0.17	4.46 ± 0.19	5.99 ± 0.24	5.69 ± 0.22	n = 12	Roche MODULAR E
1.99 ± 0.08	4.90 ± 0.16	4.40 ± 0.16	4.67 ± 0.14	4.61 ± 0.15	n = 48	Siemens ADVIA Centaur
0.63 ± 0.09	4.86 ± 0.15	3.24 ± 0.18	5.18 ± 0.14	4.08 ± 0.14	n = 9	Siemens Dimension Vista
2.30 ± 0.27	2.48 ± 0.25	2.77 ± 0.26	3.69 ± 0.22	3.73 ± 0.22	n = 10	Siemens Immulite 2000
1.74 ± 0.46	4.50 ± 1.60	4.06 ± 1.07	5.34 ± 1.51	4.92 ± 1.19	n = 11	Mean of Above Means
<Reagents>						
1.53 ± 0.23	3.37 ± 0.27	3.19 ± 0.18	4.58 ± 0.25	4.19 ± 0.35	n = 10	Abbott
1.84 ± 0.21	3.69 ± 0.36	3.35 ± 0.32	4.38 ± 0.45	3.90 ± 0.36	n = 20	Beckman Coulter
1.17 ± 0.40	9.13 ± 0.67	5.92 ± 0.28	8.86 ± 0.53	6.69 ± 0.73	n = 8	Ortho Clinical Diagnostics
1.90 ± 0.20	4.72 ± 0.18	4.43 ± 0.21	5.96 ± 0.25	5.70 ± 0.22	n = 18	Roche Elecsys/Modular E/e601/e411
1.99 ± 0.09	4.90 ± 0.16	4.40 ± 0.16	4.67 ± 0.14	4.61 ± 0.15	n = 48	Siemens ADVIA/ADVIA Centaur
0.63 ± 0.09	4.86 ± 0.15	3.24 ± 0.18	5.18 ± 0.14	4.08 ± 0.14	n = 9	Siemens Dimension LOCI
2.29 ± 0.26	2.44 ± 0.25	2.76 ± 0.31	3.69 ± 0.24	3.70 ± 0.31	n = 13	Siemens Immulite
1.68 ± 0.53	4.11 ± 1.15	3.76 ± 1.00	4.72 ± 0.76	4.53 ± 1.01	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
3.45 $\pm$ 0.34	3.57 $\pm$ 0.43	2.46 $\pm$ 0.32	1.56 $\pm$ 0.20	1.45 $\pm$ 0.21	n = 293	All Methods & Instruments
3.50	3.60	2.50	1.50	1.40	n = 293	Median value, All Methods & Instruments
<Instruments>						
3.11 $\pm$ 0.14	3.11 $\pm$ 0.13	2.21 $\pm$ 0.12	1.38 $\pm$ 0.06	1.38 $\pm$ 0.07	n = 17	Abbott Architect i System
3.46 $\pm$ 0.15	3.14 $\pm$ 0.30	2.19 $\pm$ 0.29	1.42 $\pm$ 0.08	1.42 $\pm$ 0.08	n = 5	Abbott AxSym
3.16 $\pm$ 0.27	3.26 $\pm$ 0.20	2.20 $\pm$ 0.18	1.43 $\pm$ 0.10	1.20 $\pm$ 0.10	n = 26	Beckman Coulter ACCESS
3.14 $\pm$ 0.10	3.27 $\pm$ 0.05	2.14 $\pm$ 0.10	1.40 $\pm$ 0.00	1.17 $\pm$ 0.05	n = 3	Beckman Coulter UniCel DxI 600
3.05 $\pm$ 0.22	3.19 $\pm$ 0.23	2.10 $\pm$ 0.10	1.39 $\pm$ 0.10	1.19 $\pm$ 0.09	n = 17	Beckman Coulter UniCel DxI 800
4.66 $\pm$ 0.21	4.54 $\pm$ 0.20	2.98 $\pm$ 0.14	1.60 $\pm$ 0.08	1.52 $\pm$ 0.08	n = 13	Ortho Vitros 5600
4.60 $\pm$ 0.19	4.58 $\pm$ 0.20	2.99 $\pm$ 0.14	1.55 $\pm$ 0.09	1.46 $\pm$ 0.07	n = 13	Ortho Vitros Eci/ECiQ
3.58 $\pm$ 0.15	3.85 $\pm$ 0.19	2.66 $\pm$ 0.10	1.76 $\pm$ 0.10	1.73 $\pm$ 0.05	n = 3	Roche cobas e411
3.50 $\pm$ 0.10	3.77 $\pm$ 0.09	2.60 $\pm$ 0.05	1.71 $\pm$ 0.05	1.65 $\pm$ 0.06	n = 13	Roche cobas e601
3.40 $\pm$ 0.06	3.63 $\pm$ 0.10	2.54 $\pm$ 0.08	1.70 $\pm$ 0.07	1.60 $\pm$ 0.00	n = 7	Roche Elecsys
3.48 $\pm$ 0.13	3.74 $\pm$ 0.10	2.60 $\pm$ 0.07	1.74 $\pm$ 0.06	1.66 $\pm$ 0.07	n = 20	Roche MODULAR E
3.53 $\pm$ 0.18	3.63 $\pm$ 0.17	2.48 $\pm$ 0.13	1.55 $\pm$ 0.12	1.44 $\pm$ 0.07	n = 63	Siemens ADVIA Centaur
3.73 $\pm$ 0.17	3.93 $\pm$ 0.40	2.74 $\pm$ 0.37	1.93 $\pm$ 0.20	1.81 $\pm$ 0.22	n = 13	Siemens Dimension EXL
3.17 $\pm$ 0.14	3.20 $\pm$ 0.13	2.23 $\pm$ 0.16	1.36 $\pm$ 0.11	1.37 $\pm$ 0.09	n = 10	Siemens Dimension RxL
3.55 $\pm$ 0.20	3.83 $\pm$ 0.29	2.72 $\pm$ 0.24	1.79 $\pm$ 0.15	1.70 $\pm$ 0.16	n = 33	Siemens Dimension Vista
3.05 $\pm$ 0.06	3.09 $\pm$ 0.26	2.16 $\pm$ 0.19	1.31 $\pm$ 0.13	1.34 $\pm$ 0.13	n = 5	Siemens Dimension Xpand
3.71 $\pm$ 0.15	3.35 $\pm$ 0.17	2.23 $\pm$ 0.17	1.37 $\pm$ 0.07	1.27 $\pm$ 0.07	n = 7	Siemens Immulite 1000
3.40 $\pm$ 0.19	3.28 $\pm$ 0.19	2.25 $\pm$ 0.17	1.41 $\pm$ 0.07	1.28 $\pm$ 0.07	n = 16	Siemens Immulite 2000
4.11 $\pm$ 0.20	4.06 $\pm$ 0.39	2.83 $\pm$ 0.14	1.70 $\pm$ 0.09	1.78 $\pm$ 0.24	n = 3	Tosoh Bioscience
3.44 $\pm$ 0.36	3.55 $\pm$ 0.45	2.45 $\pm$ 0.31	1.54 $\pm$ 0.19	1.47 $\pm$ 0.22	n = 19	Mean of Above Means
<Reagents>						
3.17 $\pm$ 0.21	3.10 $\pm$ 0.18	2.20 $\pm$ 0.15	1.39 $\pm$ 0.07	1.39 $\pm$ 0.08	n = 22	Abbott
3.11 $\pm$ 0.24	3.24 $\pm$ 0.20	2.15 $\pm$ 0.15	1.41 $\pm$ 0.10	1.20 $\pm$ 0.10	n = 46	Beckman Coulter
4.63 $\pm$ 0.20	4.56 $\pm$ 0.20	2.98 $\pm$ 0.14	1.57 $\pm$ 0.09	1.49 $\pm$ 0.08	n = 26	Ortho Clinical Diagnostics
3.49 $\pm$ 0.12	3.75 $\pm$ 0.11	2.60 $\pm$ 0.07	1.73 $\pm$ 0.07	1.66 $\pm$ 0.07	n = 44	Roche Elecsys/Modular E/e601/e411
3.50 $\pm$ 0.21	3.59 $\pm$ 0.20	2.43 $\pm$ 0.14	1.62 $\pm$ 0.11	1.45 $\pm$ 0.07	n = 36	Siemens ADVIA/ADVIA Centaur
3.18 $\pm$ 0.18	3.19 $\pm$ 0.20	2.22 $\pm$ 0.20	1.36 $\pm$ 0.13	1.38 $\pm$ 0.13	n = 17	Siemens Dimension
3.61 $\pm$ 0.21	3.86 $\pm$ 0.32	2.73 $\pm$ 0.26	1.82 $\pm$ 0.15	1.73 $\pm$ 0.18	n = 44	Siemens Dimension LOCI
3.50 $\pm$ 0.23	3.29 $\pm$ 0.19	2.24 $\pm$ 0.17	1.40 $\pm$ 0.07	1.28 $\pm$ 0.07	n = 24	Siemens Immulite
3.58 $\pm$ 0.14	3.67 $\pm$ 0.13	2.53 $\pm$ 0.11	1.49 $\pm$ 0.06	1.43 $\pm$ 0.06	n = 28	Siemens TSH-3
4.11 $\pm$ 0.20	4.06 $\pm$ 0.39	2.83 $\pm$ 0.14	1.70 $\pm$ 0.09	1.78 $\pm$ 0.24	n = 3	Tosoh AIA
3.49 $\pm$ 0.37	3.59 $\pm$ 0.43	2.48 $\pm$ 0.30	1.54 $\pm$ 0.17	1.47 $\pm$ 0.19	n = 10	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Vitamin B12 (pg/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
350.2 ± 42.05	250.2 ± 40.08	226.7 ± 36.77	450.4 ± 67.98	333.5 ± 47.31	n = 225	All Methods & Instruments
348.0	243.0	219.0	444.0	329.0	n = 225	Median value, All Methods & Instruments
<Instruments>						
407.4 ± 25.30	285.1 ± 6.85	256.8 ± 26.11	534.2 ± 30.02	368.3 ± 13.37	n = 7	Abbott Architect i System
367.5 ± 25.32	275.9 ± 23.32	232.7 ± 18.11	475.7 ± 23.79	361.7 ± 27.24	n = 7	Abbott AxSym
310.8 ± 22.34	245.7 ± 14.89	216.4 ± 13.01	407.2 ± 21.28	304.8 ± 18.74	n = 20	Beckman Coulter ACCESS
298.9 ± 24.50	233.5 ± 6.30	214.4 ± 22.96	429.4 ± 101.77	307.3 ± 66.36	n = 4	Beckman Coulter UniCel DxI 600
291.3 ± 27.88	231.6 ± 15.06	214.1 ± 8.34	386.2 ± 17.17	281.1 ± 21.75	n = 19	Beckman Coulter UniCel DxI 800
346.2 ± 16.31	296.8 ± 12.84	280.0 ± 9.36	487.8 ± 20.33	356.2 ± 9.21	n = 10	Ortho Vitros 5600
360.3 ± 24.05	299.5 ± 12.21	273.3 ± 13.78	486.8 ± 33.36	358.9 ± 16.49	n = 16	Ortho Vitros Eci/ECiQ
414.9 ± 12.24	205.8 ± 11.74	203.8 ± 6.15	493.7 ± 13.58	370.3 ± 21.23	n = 4	Roche cobas e411
401.1 ± 10.69	293.5 ± 14.33	264.4 ± 11.44	517.1 ± 20.33	385.4 ± 13.69	n = 11	Roche cobas e601
398.1 ± 15.62	291.2 ± 12.95	264.6 ± 11.32	512.2 ± 12.52	384.8 ± 13.88	n = 17	Roche MODULAR E
342.9 ± 25.41	226.5 ± 20.48	202.7 ± 18.40	417.5 ± 31.26	311.3 ± 23.53	n = 72	Siemens ADVIA Centaur
361.4 ± 29.01	101.1 ± 32.48	50.0 ± 0.00	332.1 ± 28.10	137.0 ± 19.63	n = 11	Siemens Dimension Vista
341.5 ± 19.22	258.3 ± 13.03	242.7 ± 5.23	531.5 ± 13.67	375.8 ± 15.66	n = 4	Siemens Immulite 1000
345.3 ± 32.79	242.2 ± 20.38	224.1 ± 16.63	519.0 ± 29.92	352.6 ± 28.42	n = 14	Siemens Immulite 2000
388.3 ± 48.49	372.7 ± 45.33	311.9 ± 35.75	559.3 ± 53.90	425.0 ± 39.09	n = 3	Tosoh Bioscience
359.4 ± 39.84	262.9 ± 44.21	240.7 ± 33.80	479.3 ± 62.83	354.6 ± 39.27	n = 15	Mean of Above Means
<Reagents>						
388.4 ± 33.17	283.6 ± 19.65	242.4 ± 21.26	503.4 ± 41.35	366.2 ± 20.76	n = 14	Abbott
301.9 ± 26.55	238.1 ± 15.86	214.3 ± 13.56	396.6 ± 24.45	292.7 ± 22.27	n = 43	Beckman Coulter
353.7 ± 21.11	298.4 ± 12.66	275.9 ± 12.59	487.2 ± 26.77	358.1 ± 13.80	n = 26	Ortho Clinical Diagnostics
402.0 ± 16.03	288.8 ± 20.94	264.3 ± 11.05	513.3 ± 19.67	385.3 ± 17.36	n = 36	Roche Elecsys/Modular E/e601/e411
343.0 ± 25.18	226.7 ± 20.48	203.0 ± 18.61	418.2 ± 31.77	311.4 ± 23.30	n = 73	Siemens ADVIA/ADVIA Centaur
361.4 ± 29.01	101.1 ± 32.48	50.0 ± 0.00	332.1 ± 28.10	137.0 ± 19.63	n = 11	Siemens Dimension LOCI
343.1 ± 29.30	244.0 ± 20.87	228.2 ± 16.95	520.2 ± 26.96	357.3 ± 27.29	n = 19	Siemens Immulite
388.3 ± 48.49	372.7 ± 45.33	311.9 ± 35.75	559.3 ± 53.90	425.0 ± 39.09	n = 3	Tosoh AIA
361.9 ± 31.42	264.7 ± 65.53	245.5 ± 40.85	472.8 ± 74.73	354.5 ± 49.19	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Folic Acid (ng/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
3.10 ± 0.81	1.35 ± 0.66	3.28 ± 1.09	12.98 ± 3.30	5.59 ± 1.53	n = 232	All Methods & Instruments
3.20	1.30	3.20	12.70	5.50	n = 232	Median value, All Methods & Instruments
<Instruments>						
3.53 ± 0.45	1.65 ± 0.40	3.98 ± 0.30	17.35 ± 0.51	6.91 ± 0.38	n = 7	Abbott Architect i System
3.88 ± 0.42	2.12 ± 0.35	4.34 ± 0.35	17.17 ± 0.99	7.24 ± 0.56	n = 7	Abbott AxSym
3.52 ± 0.25	1.72 ± 0.18	4.67 ± 0.32	15.96 ± 1.11	7.66 ± 0.51	n = 20	Beckman Coulter ACCESS
3.42 ± 0.38	1.62 ± 0.27	4.21 ± 0.56	14.67 ± 1.44	7.09 ± 0.86	n = 4	Beckman Coulter UniCel DxI 600
3.44 ± 0.33	1.73 ± 0.31	4.24 ± 0.56	14.81 ± 1.47	7.09 ± 0.79	n = 19	Beckman Coulter UniCel DxI 800
2.40 ± 0.32	1.58 ± 0.19	3.19 ± 0.38	14.58 ± 1.40	5.51 ± 0.71	n = 10	Ortho Vitros 5600
2.28 ± 0.24	1.40 ± 0.19	3.02 ± 0.40	14.84 ± 1.12	5.44 ± 0.48	n = 16	Ortho Vitros Eci/ECiQ
3.40 ± 0.09	2.21 ± 0.56	3.27 ± 0.14	10.37 ± 0.50	5.23 ± 0.14	n = 3	Roche cobas e411
3.64 ± 0.55	2.29 ± 0.37	3.79 ± 0.53	10.74 ± 1.21	5.85 ± 0.72	n = 11	Roche cobas e601
3.80 ± 0.48	2.58 ± 0.30	4.13 ± 0.50	10.88 ± 0.70	6.00 ± 0.43	n = 15	Roche MODULAR E
3.11 ± 0.35	0.91 ± 0.16	2.70 ± 0.31	12.39 ± 1.64	4.85 ± 0.48	n = 67	Siemens ADVIA Centaur
1.04 ± 0.17	0.50 ± 0.00	1.21 ± 0.23	5.37 ± 0.34	2.37 ± 0.28	n = 26	Siemens Dimension Vista
3.71 ± 0.23	1.74 ± 0.23	4.26 ± 0.26	15.65 ± 1.05	6.98 ± 0.15	n = 4	Siemens Immulite 1000
2.73 ± 0.20	1.17 ± 0.11	3.19 ± 0.20	12.96 ± 1.26	5.49 ± 0.47	n = 14	Siemens Immulite 2000
2.76 ± 0.39	1.98 ± 0.24	4.09 ± 0.52	11.18 ± 1.94	6.14 ± 0.90	n = 3	Tosoh Bioscience
3.28 ± 0.58	1.72 ± 0.51	3.79 ± 0.69	13.62 ± 2.90	6.19 ± 1.05	n = 15	Mean of Above Means
<Reagents>						
3.71 ± 0.46	1.90 ± 0.43	4.15 ± 0.35	17.33 ± 0.84	7.07 ± 0.50	n = 14	Abbott
3.49 ± 0.27	1.72 ± 0.24	4.46 ± 0.48	15.35 ± 1.41	7.37 ± 0.72	n = 43	Beckman Coulter
2.33 ± 0.29	1.47 ± 0.21	3.09 ± 0.41	14.75 ± 1.19	5.46 ± 0.59	n = 26	Ortho Clinical Diagnostics
3.74 ± 0.50	2.44 ± 0.47	3.93 ± 0.56	10.90 ± 0.94	5.89 ± 0.59	n = 33	Roche Elecsys/Modular E/e601/e411
3.12 ± 0.36	0.91 ± 0.16	2.70 ± 0.32	12.43 ± 1.71	4.86 ± 0.50	n = 68	Siemens ADVIA/ADVIA Centaur
1.05 ± 0.16	0.50 ± 0.00	1.22 ± 0.23	5.37 ± 0.35	2.39 ± 0.27	n = 25	Siemens Dimension LOCI
2.94 ± 0.48	1.26 ± 0.25	3.37 ± 0.49	13.57 ± 1.62	5.79 ± 0.81	n = 19	Siemens Immulite
2.76 ± 0.39	1.98 ± 0.24	4.09 ± 0.52	11.18 ± 1.94	6.14 ± 0.90	n = 3	Tosoh AIA
3.05 ± 0.73	1.54 ± 0.61	3.55 ± 0.90	13.03 ± 3.21	5.89 ± 1.20	n = 8	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Cortisol (µg/dL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
1.65 ± 0.25 1.60	10.07 ± 1.38 10.20	16.59 ± 2.22 16.80	26.84 ± 3.58 26.90	9.51 ± 1.37 9.50	n = 158 n = 158	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
1.63 ± 0.26	8.42 ± 0.48	13.98 ± 0.50	21.84 ± 0.59	8.74 ± 0.38	n = 9	Abbott Architect i System
1.82 ± 0.26	9.89 ± 0.40	16.85 ± 0.62	25.78 ± 1.18	9.64 ± 0.63	n = 7	Beckman Coulter ACCESS
1.65 ± 0.36	10.00 ± 0.18	16.80 ± 0.72	26.26 ± 1.09	9.82 ± 0.32	n = 3	Beckman Coulter UniCel DxI 600
1.77 ± 0.23	9.91 ± 0.79	16.14 ± 1.19	25.67 ± 1.69	8.94 ± 0.66	n = 16	Beckman Coulter UniCel DxI 800
2.10 ± 0.27	9.97 ± 0.97	17.06 ± 2.18	27.95 ± 2.83	10.88 ± 1.21	n = 3	LC/MS/MS
1.30 ± 0.14	8.53 ± 0.46	13.67 ± 1.01	21.21 ± 1.07	7.76 ± 0.18	n = 7	Ortho Vitros 5600
1.32 ± 0.13	8.59 ± 0.89	13.51 ± 1.46	20.91 ± 1.84	7.92 ± 0.75	n = 7	Ortho Vitros ECI/ECiQ
1.51 ± 0.13	8.59 ± 0.32	14.51 ± 0.36	24.64 ± 0.38	8.88 ± 0.24	n = 5	Roche cobas e601
1.55 ± 0.12	8.67 ± 0.20	14.74 ± 0.35	24.96 ± 0.50	8.97 ± 0.20	n = 4	Roche Elecsys
1.53 ± 0.21	8.44 ± 0.43	14.53 ± 0.69	24.53 ± 1.08	8.60 ± 0.43	n = 11	Roche MODULAR E
1.64 ± 0.15	10.61 ± 0.60	17.21 ± 0.81	28.29 ± 1.72	9.72 ± 0.47	n = 55	Siemens ADVIA Centaur
1.80 ± 0.09	11.25 ± 0.45	18.03 ± 0.86	30.01 ± 1.44	10.19 ± 0.57	n = 3	Siemens ADVIA Centaur CP
1.85 ± 0.12	11.90 ± 0.89	20.78 ± 2.10	33.13 ± 1.75	13.22 ± 0.04	n = 4	Siemens Immulite 1000
1.82 ± 0.20	11.84 ± 0.87	19.77 ± 1.03	30.85 ± 2.18	12.69 ± 0.80	n = 17	Siemens Immulite 2000
1.66 ± 0.21	9.68 ± 1.31	16.09 ± 2.24	26.02 ± 3.63	9.43 ± 1.40	n = 14	Mean of Above Means
<Reagents>						
1.63 ± 0.26	8.42 ± 0.48	13.98 ± 0.50	21.84 ± 0.59	8.74 ± 0.38	n = 9	Abbott
1.77 ± 0.25	9.90 ± 0.60	16.43 ± 1.05	25.82 ± 1.52	9.25 ± 0.73	n = 26	Beckman Coulter
2.10 ± 0.27	9.97 ± 0.97	17.06 ± 2.18	27.95 ± 2.83	10.88 ± 1.21	n = 3	In-House
1.31 ± 0.14	8.51 ± 0.73	13.59 ± 1.26	21.01 ± 1.55	7.80 ± 0.61	n = 14	Ortho Clinical Diagnostics
1.51 ± 0.17	8.52 ± 0.34	14.60 ± 0.50	24.69 ± 0.78	8.72 ± 0.37	n = 22	Roche Elecsys/Modular E/e601/e411
1.65 ± 0.16	10.64 ± 0.62	17.25 ± 0.83	28.38 ± 1.76	9.74 ± 0.49	n = 58	Siemens ADVIA/ADVIA Centaur
1.84 ± 0.18	11.80 ± 0.87	19.92 ± 1.15	31.33 ± 2.22	12.80 ± 0.78	n = 23	Siemens Immulite
1.68 ± 0.24	9.61 ± 1.27	15.99 ± 2.17	25.85 ± 3.68	9.49 ± 1.50	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Insulin (μU/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
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34.73 ± 17.98	188.43 ± 91.32	91.71 ± 60.12	59.56 ± 27.32	79.98 ± 50.97	n = 96	All Methods & Instruments
38.50	211.20	98.60	60.70	84.30	n = 96	Median value, All Methods & Instruments
<Instruments>						
36.38 ± 0.61	193.51 ± 3.18	96.85 ± 1.81	57.53 ± 0.68	80.63 ± 1.25	n = 7	Abbott Architect i System
38.62 ± 1.13	199.36 ± 9.74	96.75 ± 3.45	60.04 ± 1.47	84.12 ± 2.85	n = 3	Beckman Coulter UniCel DxI 600
37.59 ± 2.44	207.64 ± 4.87	93.11 ± 2.80	57.29 ± 3.91	80.47 ± 6.06	n = 7	Beckman Coulter UniCel DxI 800
43.97 ± 0.57	238.39 ± 5.13	124.44 ± 1.95	75.85 ± 1.53	108.70 ± 2.62	n = 4	Roche cobas e601
45.26 ± 1.89	230.81 ± 10.76	121.72 ± 4.89	75.38 ± 3.34	108.06 ± 5.61	n = 6	Roche Elecsys
45.19 ± 1.94	238.40 ± 10.81	124.51 ± 5.05	76.62 ± 3.75	108.90 ± 3.89	n = 9	Roche MODULAR E
51.01 ± 3.00	277.71 ± 19.54	153.38 ± 7.67	89.53 ± 9.09	132.94 ± 9.71	n = 20	Siemens ADVIA Centaur
9.86 ± 0.64	62.36 ± 6.87	14.96 ± 1.17	26.14 ± 1.29	15.09 ± 1.71	n = 5	Siemens Immulite 1000
12.38 ± 2.31	74.85 ± 13.41	18.64 ± 4.43	28.09 ± 2.65	18.58 ± 3.27	n = 27	Siemens Immulite 2000
38.07 ± 13.28	202.81 ± 68.30	99.67 ± 45.05	62.44 ± 21.48	86.50 ± 38.96	n = 9	Mean of Above Means
<Reagents>						
36.38 ± 0.61	193.51 ± 3.18	96.85 ± 1.81	57.53 ± 0.68	80.63 ± 1.25	n = 7	Abbott
38.00 ± 1.95	206.83 ± 8.48	94.97 ± 4.02	58.18 ± 3.40	81.85 ± 5.26	n = 11	Beckman Coulter
44.96 ± 1.71	236.55 ± 9.72	123.74 ± 4.50	75.91 ± 3.11	108.65 ± 4.04	n = 21	Roche Elecsys/Modular E/e601/e411
50.89 ± 2.89	278.67 ± 19.44	154.09 ± 8.16	89.45 ± 8.82	133.19 ± 9.48	n = 21	Siemens ADVIA/ADVIA Centaur
11.82 ± 2.21	71.96 ± 12.37	17.63 ± 3.78	27.63 ± 2.41	17.82 ± 3.12	n = 33	Siemens Immulite
38.64 ± 12.79	207.37 ± 67.76	102.32 ± 45.64	62.82 ± 21.84	87.95 ± 39.38	n = 5	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Free Estriol (ng/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
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0.46 ± 0.06	0.10 ± 0.00	1.38 ± 0.62	0.10 ± 0.00	2.24 ± 0.83	n = 17	All Methods & Instruments
0.50	0.10	1.30	0.10	2.30	n = 17	Median value, All Methods & Instruments
						<Instruments>
0.48 ± 0.04	0.10 ± 0.00	0.79 ± 0.37	0.10 ± 0.00	1.63 ± 0.09	n = 4	Beckman Coulter UniCel DxI 800
0.48 ± 0.08	0.10 ± 0.00	1.53 ± 0.16	0.10 ± 0.00	2.43 ± 0.09	n = 5	Siemens Immulite 2000
0.48 ± 0.01	0.10 ± 0.00	1.16 ± 0.42	0.10 ± 0.00	2.03 ± 0.46	n = 2	Mean of Above Means
						<Reagents>
0.46 ± 0.06	0.10 ± 0.00	1.00 ± 0.00	0.10 ± 0.00	1.60 ± 0.08	n = 7	Beckman Coulter
0.46 ± 0.08	0.10 ± 0.00	1.50 ± 0.16	0.10 ± 0.00	2.40 ± 0.10	n = 6	Siemens Immulite
0.46 ± 0.00	0.10 ± 0.00	1.25 ± 0.29	0.10 ± 0.00	2.00 ± 0.46	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Estradiol (pg/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
22.7 ± 11.12	58.6 ± 13.96	128.9 ± 30.10	34.3 ± 8.78	107.3 ± 26.66	n = 162	All Methods & Instruments
20.0	58.0	122.0	34.0	107.0	n = 162	Median value, All Methods & Instruments
						<Instruments>
29.4 ± 3.59	58.5 ± 4.44	109.0 ± 3.95	46.2 ± 3.25	95.1 ± 3.25	n = 11	Abbott Architect i System
16.2 ± 6.63	76.2 ± 10.89	168.2 ± 12.20	34.4 ± 9.55	123.8 ± 12.76	n = 7	Beckman Coulter ACCESS
19.7 ± 5.82	72.9 ± 5.36	168.4 ± 13.25	43.5 ± 11.34	109.6 ± 7.57	n = 4	Beckman Coulter UniCel DxI 600
21.0 ± 4.63	69.1 ± 9.86	151.9 ± 30.32	27.3 ± 7.21	106.0 ± 17.24	n = 10	Beckman Coulter UniCel DxI 800
20.0 ± 4.60	48.8 ± 8.70	111.1 ± 30.18	28.4 ± 7.94	96.5 ± 24.67	n = 3	LC/MS/MS
13.1 ± 3.00	52.3 ± 5.89	122.5 ± 12.92	26.6 ± 4.26	102.2 ± 8.97	n = 4	Ortho Vitros ECI/ECiQ
38.4 ± 2.72	59.4 ± 1.70	121.1 ± 1.81	39.6 ± 3.73	109.9 ± 7.13	n = 7	Roche cobas e601
36.0 ± 4.85	56.9 ± 6.29	120.3 ± 7.87	37.1 ± 3.82	109.7 ± 7.22	n = 5	Roche Elecsys
41.0 ± 5.17	59.5 ± 4.43	123.0 ± 7.97	39.4 ± 4.51	111.3 ± 9.73	n = 11	Roche MODULAR E
13.0 ± 1.82	48.0 ± 4.89	106.4 ± 6.09	30.7 ± 6.45	82.9 ± 5.23	n = 45	Siemens ADVIA Centaur
15.0 ± 3.00	46.6 ± 4.51	103.3 ± 3.76	26.0 ± 1.50	83.0 ± 4.89	n = 4	Siemens ADVIA Centaur CP
23.4 ± 3.39	76.2 ± 6.18	166.4 ± 12.30	29.4 ± 6.01	133.8 ± 12.06	n = 10	Siemens Immulite 1000
22.5 ± 4.49	70.7 ± 5.78	154.7 ± 15.14	36.5 ± 5.42	132.1 ± 12.09	n = 26	Siemens Immulite 2000
22.8 ± 9.57	61.0 ± 11.35	131.4 ± 26.59	33.9 ± 6.96	107.2 ± 16.06	n = 13	Mean of Above Means
						<Reagents>
29.4 ± 3.59	58.5 ± 4.44	109.0 ± 3.95	46.2 ± 3.25	95.1 ± 3.25	n = 11	Abbott
19.1 ± 6.89	72.5 ± 10.42	164.2 ± 21.04	33.8 ± 11.39	112.6 ± 17.68	n = 19	Beckman Coulter
20.0 ± 4.60	48.8 ± 8.70	111.1 ± 30.18	28.4 ± 7.94	96.5 ± 24.67	n = 3	In-House
15.2 ± 3.90	50.6 ± 5.65	117.8 ± 11.97	26.7 ± 3.38	101.0 ± 7.07	n = 6	Ortho Clinical Diagnostics
38.3 ± 4.57	58.2 ± 4.06	121.6 ± 5.85	38.7 ± 4.38	110.0 ± 8.63	n = 25	Roche Elecsys/Modular E/e601/e411
13.5 ± 2.30	47.9 ± 4.59	106.2 ± 6.12	29.2 ± 4.01	83.6 ± 5.36	n = 32	Siemens ADVIA Centaur Enhanced Estr
49.0 ± 4.07	47.0 ± 6.86	145.0 ± 19.70	47.5 ± 7.92	180.8 ± 19.05	n = 7	Siemens ADVIA Centaur Estradiol-6 I
12.7 ± 1.58	48.3 ± 4.11	106.1 ± 4.86	28.9 ± 4.52	81.3 ± 4.34	n = 10	Siemens ADVIA/ADVIA Centaur
22.9 ± 4.22	72.8 ± 7.20	158.7 ± 15.79	34.9 ± 6.47	132.7 ± 11.98	n = 38	Siemens Immulite
22.6 ± 11.29	54.8 ± 10.03	124.3 ± 23.18	34.2 ± 7.71	101.4 ± 18.26	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Testosterone (ng/dL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
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227.65 ± 36.50	270.05 ± 58.14	59.25 ± 16.83	246.82 ± 23.57	348.47 ± 48.29	n = 145	All Methods & Instruments
224.10	261.00	58.00	247.00	347.00	n = 145	Median value, All Methods & Instruments
260.0, 253.0	219.0, 218.0	43.9, 44.2	242.0, 245.0	338.0, 346.0	n = 2	[---] Results of LC_MS_MS measurement*
						<Instruments>
170.93 ± 13.08	185.59 ± 24.84	29.19 ± 3.76	173.80 ± 23.23	192.16 ± 21.44	n = 3	Abbott AxSym
229.78 ± 7.00	238.94 ± 6.86	47.72 ± 3.12	228.27 ± 7.20	290.80 ± 12.38	n = 7	Beckman Coulter ACCESS
219.14 ± 4.88	231.48 ± 4.86	46.96 ± 4.64	229.04 ± 1.47	276.04 ± 2.90	n = 3	Beckman Coulter UniCel DxI 600
222.53 ± 7.32	226.97 ± 6.87	46.92 ± 3.68	219.46 ± 12.65	267.48 ± 12.73	n = 12	Beckman Coulter UniCel DxI 800
238.54 ± 11.64	250.43 ± 7.66	36.79 ± 4.15	252.59 ± 18.19	322.20 ± 18.31	n = 5	Gamma Counter
268.06 ± 17.69	225.13 ± 20.31	44.60 ± 4.68	249.79 ± 21.62	350.03 ± 28.08	n = 5	LC/MS/MS
201.42 ± 7.84	332.26 ± 9.71	68.13 ± 5.59	258.29 ± 8.07	401.31 ± 16.40	n = 5	Ortho Vitros ECi/ECiQ
270.16 ± 12.59	275.81 ± 8.26	47.62 ± 3.45	237.18 ± 12.42	351.27 ± 20.06	n = 4	Roche cobas e601
287.46 ± 11.65	285.39 ± 10.89	51.32 ± 4.08	247.33 ± 5.87	364.95 ± 11.03	n = 9	Roche Elecsys
282.24 ± 14.63	295.15 ± 15.29	54.62 ± 3.84	251.80 ± 12.74	369.53 ± 17.97	n = 13	Roche MODULAR E
220.30 ± 22.08	240.69 ± 22.23	64.83 ± 8.24	252.22 ± 20.60	360.30 ± 33.20	n = 44	Siemens ADVIA Centaur
202.96 ± 33.30	422.06 ± 27.30	78.26 ± 13.44	314.79 ± 22.05	406.65 ± 42.20	n = 4	Siemens Immulite 1000
199.12 ± 22.45	360.33 ± 35.49	83.60 ± 12.75	248.64 ± 25.73	344.75 ± 41.72	n = 20	Siemens Immulite 2000
219.73 ± 18.70	353.93 ± 32.77	84.18 ± 16.14	266.71 ± 17.61	376.09 ± 20.73	n = 3	Siemens Immulite 2500
229.48 ± 35.04	273.78 ± 63.98	54.98 ± 17.40	245.85 ± 16.53	342.38 ± 52.65	n = 14	Mean of Above Means
						<Reagents>
170.93 ± 13.08	185.59 ± 24.84	29.19 ± 3.76	173.80 ± 23.23	192.16 ± 21.44	n = 3	Abbott
224.04 ± 8.01	231.34 ± 8.70	47.24 ± 3.65	224.11 ± 11.23	275.64 ± 15.59	n = 22	Beckman Coulter
257.13 ± 34.94	216.82 ± 26.74	42.71 ± 6.04	239.99 ± 31.70	335.70 ± 44.27	n = 6	In-House
201.67 ± 6.63	335.24 ± 9.28	69.32 ± 4.86	256.80 ± 11.00	398.58 ± 13.09	n = 7	Ortho Clinical Diagnostics
281.77 ± 16.00	288.62 ± 14.92	52.29 ± 4.47	247.63 ± 12.43	364.81 ± 18.64	n = 27	Roche Elecsys/Modular E/e601/e411
220.30 ± 22.08	240.69 ± 22.23	64.83 ± 8.24	252.22 ± 20.60	360.30 ± 33.20	n = 44	Siemens ADVIA/ADVIA Centaur
238.54 ± 11.64	250.43 ± 7.66	36.79 ± 4.15	252.59 ± 18.19	322.20 ± 18.31	n = 5	Siemens Coat-A-Count
201.41 ± 23.85	368.58 ± 41.22	82.99 ± 13.39	257.64 ± 32.19	356.71 ± 45.75	n = 27	Siemens Immulite
223.60 ± 33.87	259.84 ± 60.69	52.36 ± 17.96	249.59 ± 9.76	338.09 ± 52.85	n = 8	Mean of Above Means

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

Statistical Summary (Mean and Standard Deviation)

Progesterone (ng/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
12.26 ± 2.14	28.30 ± 5.69	21.19 ± 3.82	4.99 ± 0.49	4.27 ± 0.46	n = 158	All Methods & Instruments
11.90	29.30	21.80	5.00	4.30	n = 158	Median value, All Methods & Instruments
<Instruments>						
15.08 ± 1.26	28.47 ± 2.34	22.13 ± 1.87	5.65 ± 0.32	4.83 ± 0.40	n = 7	Abbott Architect i System
13.35 ± 0.35	25.60 ± 1.60	18.87 ± 0.92	5.29 ± 0.54	4.34 ± 0.37	n = 9	Beckman Coulter ACCESS
13.08 ± 1.21	27.20 ± 3.15	19.61 ± 1.34	5.54 ± 0.83	4.55 ± 0.46	n = 4	Beckman Coulter UniCel DxI 600
13.43 ± 1.45	26.75 ± 2.48	21.15 ± 1.72	5.55 ± 0.60	4.67 ± 0.38	n = 11	Beckman Coulter UniCel DxI 800
13.00 ± 1.00	22.63 ± 0.84	17.50 ± 1.51	5.12 ± 0.20	4.06 ± 0.02	n = 3	LC/MS/MS
8.41 ± 0.44	17.93 ± 0.86	13.07 ± 0.59	4.20 ± 0.18	3.36 ± 0.10	n = 3	Ortho Vitros 5600
8.47 ± 0.54	17.63 ± 0.82	13.13 ± 0.85	4.28 ± 0.27	3.41 ± 0.19	n = 4	Ortho Vitros ECI/ECiQ
15.65 ± 0.50	32.62 ± 0.68	23.20 ± 0.27	4.81 ± 0.19	4.04 ± 0.12	n = 8	Roche cobas e601
15.97 ± 0.76	33.16 ± 2.48	23.47 ± 1.87	4.83 ± 0.34	4.11 ± 0.29	n = 3	Roche Elecsys
15.04 ± 0.51	31.65 ± 1.39	22.63 ± 0.98	4.61 ± 0.23	3.93 ± 0.22	n = 12	Roche MODULAR E
11.34 ± 0.72	32.65 ± 2.00	24.32 ± 1.41	4.98 ± 0.38	4.36 ± 0.31	n = 46	Siemens ADVIA Centaur
11.23 ± 0.23	32.68 ± 0.59	24.36 ± 0.65	4.77 ± 0.14	4.25 ± 0.19	n = 3	Siemens ADVIA Centaur CP
10.77 ± 0.93	22.05 ± 3.44	16.52 ± 3.10	4.99 ± 0.60	4.24 ± 0.84	n = 8	Siemens Immulite 1000
11.12 ± 1.07	22.60 ± 1.93	17.13 ± 1.35	5.03 ± 0.39	4.26 ± 0.45	n = 28	Siemens Immulite 2000
12.61 ± 2.63	27.34 ± 5.73	20.31 ± 4.02	4.97 ± 0.47	4.22 ± 0.40	n = 14	Mean of Above Means
<Reagents>						
14.83 ± 1.34	28.00 ± 2.59	21.78 ± 1.95	5.71 ± 0.33	4.82 ± 0.36	n = 8	Abbott
13.18 ± 0.80	26.16 ± 2.13	19.86 ± 1.77	5.43 ± 0.62	4.52 ± 0.41	n = 24	Beckman Coulter
45.78 ± 59.91	78.39 ± 101.43	62.12 ± 81.73	18.40 ± 24.40	14.32 ± 18.69	n = 3	In-House
8.42 ± 0.47	17.76 ± 0.84	13.06 ± 0.70	4.23 ± 0.23	3.38 ± 0.15	n = 7	Ortho Clinical Diagnostics
15.36 ± 0.62	32.05 ± 1.27	22.85 ± 0.85	4.70 ± 0.23	3.98 ± 0.20	n = 26	Roche Elecsys/Modular E/e601/e411
11.33 ± 0.69	32.66 ± 1.91	24.32 ± 1.37	4.96 ± 0.36	4.35 ± 0.30	n = 49	Siemens ADVIA/ADVIA Centaur
11.30 ± 1.38	20.99 ± 1.81	14.63 ± 1.38	4.73 ± 0.31	3.81 ± 0.76	n = 4	Siemens Immulite Progesterone (LKPG)
11.02 ± 1.02	22.69 ± 2.37	17.39 ± 1.74	5.03 ± 0.39	4.27 ± 0.48	n = 33	Siemens Immulite Progesterone (LKPW)
9.44 ± 6.12	19.17 ± 3.68	17.31 ± 4.11	5.21 ± 3.49	4.31 ± 2.68	n = 3	Other/Not listed
11.81 ± 2.46	24.80 ± 5.84	18.95 ± 4.06	5.00 ± 0.45	4.21 ± 0.43	n = 9	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone sulfate (DHEA-S, µg/dL)

Specimen: E76 -----	Specimen: E77 -----	Specimen: E78 -----	Specimen: E79 -----	Specimen: E80 -----	Number -----	Instrument or Reagent System -----
31.59 ± 6.18 30.10	108.36 ± 17.73 106.10	171.64 ± 19.09 170.00	184.44 ± 13.22 184.00	309.47 ± 26.16 308.00	n = 75 n = 75	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
33.61 ± 1.24	122.76 ± 5.04	174.77 ± 5.81	180.39 ± 8.76	283.53 ± 6.88	n = 4	Abbott Architect i System
37.54 ± 1.19	105.79 ± 4.69	157.49 ± 8.49	172.77 ± 13.22	292.91 ± 27.11	n = 3	Beckman Coulter UniCel DxI 800
39.85 ± 2.38	128.40 ± 6.99	194.08 ± 9.68	186.06 ± 7.90	304.40 ± 12.28	n = 4	Roche Elecsys
43.72 ± 2.92	141.44 ± 9.14	203.26 ± 11.42	198.63 ± 12.59	328.80 ± 15.68	n = 8	Roche MODULAR E
24.72 ± 3.94	80.58 ± 5.42	114.93 ± 8.51	115.83 ± 10.40	193.47 ± 14.19	n = 3	Siemens ADVIA Centaur
30.26 ± 1.62	98.43 ± 5.62	170.30 ± 12.98	187.49 ± 11.13	331.13 ± 20.07	n = 5	Siemens Immulite 1000
28.93 ± 2.34	103.76 ± 9.47	167.95 ± 9.87	183.06 ± 11.62	309.97 ± 23.25	n = 40	Siemens Immulite 2000
34.04 ± 6.68	111.56 ± 20.25	172.32 ± 24.95	184.36 ± 7.88	308.20 ± 19.54	n = 7	Mean of Above Means
<Reagents>						
33.61 ± 1.24	122.76 ± 5.04	174.77 ± 5.81	180.39 ± 8.76	283.53 ± 6.88	n = 4	Abbott
37.55 ± 0.95	105.10 ± 3.47	158.99 ± 5.15	179.42 ± 12.32	298.70 ± 22.78	n = 5	Beckman Coulter
35.47 ± 11.25	87.17 ± 20.63	137.23 ± 22.21	147.51 ± 27.27	242.42 ± 31.78	n = 3	In-House
42.42 ± 2.93	137.18 ± 9.46	199.74 ± 9.74	195.14 ± 11.70	320.35 ± 17.06	n = 14	Roche Elecsys/Modular E/e601/e411
24.72 ± 3.94	80.58 ± 5.42	114.93 ± 8.51	115.83 ± 10.40	193.47 ± 14.19	n = 3	Siemens ADVIA/ADVIA Centaur
29.07 ± 2.28	103.02 ± 9.07	168.06 ± 9.66	183.38 ± 11.55	311.93 ± 23.74	n = 46	Siemens Immulite
33.94 ± 6.07	105.19 ± 20.91	159.77 ± 28.59	171.10 ± 26.98	280.77 ± 45.29	n = 6	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Lutropin (LH, mIU/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
4.27 ± 0.54	9.75 ± 1.21	127.02 ± 19.32	6.37 ± 0.86	13.31 ± 2.56	n = 194	All Methods & Instruments
4.30	9.90	126.90	6.30	13.10	n = 194	Median value, All Methods & Instruments
						<Instruments>
3.19 ± 0.11	7.36 ± 0.30	93.05 ± 4.20	5.23 ± 0.17	10.38 ± 0.36	n = 11	Abbott Architect i System
3.67 ± 0.34	8.33 ± 0.48	113.21 ± 6.19	5.24 ± 0.24	10.57 ± 0.57	n = 10	Beckman Coulter ACCESS
3.64 ± 0.65	8.24 ± 0.84	103.00 ± 10.15	4.75 ± 0.72	9.99 ± 1.10	n = 3	Beckman Coulter UniCel DxI 600
3.59 ± 0.15	8.20 ± 0.52	110.41 ± 6.74	5.29 ± 0.31	10.71 ± 0.43	n = 17	Beckman Coulter UniCel DxI 800
4.68 ± 0.21	10.88 ± 0.28	172.61 ± 5.28	6.29 ± 0.24	13.76 ± 0.60	n = 7	Ortho Vitros 5600
4.64 ± 0.16	10.83 ± 0.17	167.64 ± 1.09	6.24 ± 0.20	13.74 ± 0.14	n = 6	Ortho Vitros ECI/ECIQ
4.55 ± 0.13	10.02 ± 0.29	115.72 ± 3.72	7.15 ± 0.19	14.11 ± 0.36	n = 11	Roche cobas e601
4.66 ± 0.08	10.23 ± 0.34	117.15 ± 4.11	7.38 ± 0.25	14.68 ± 0.56	n = 6	Roche Elecsys
4.67 ± 0.14	10.18 ± 0.23	116.94 ± 2.99	7.20 ± 0.21	14.29 ± 0.23	n = 12	Roche MODULAR E
4.15 ± 0.24	9.61 ± 0.64	130.89 ± 8.30	6.19 ± 0.35	12.27 ± 0.75	n = 55	Siemens ADVIA Centaur
4.25 ± 0.19	9.39 ± 0.83	125.01 ± 10.68	6.34 ± 0.47	12.78 ± 0.86	n = 3	Siemens ADVIA Centaur CP
4.60 ± 0.15	11.96 ± 0.34	150.00 ± 0.00	7.75 ± 0.25	16.51 ± 0.28	n = 5	Siemens Dimension Vista
4.74 ± 0.39	10.97 ± 0.86	153.55 ± 15.39	7.19 ± 0.68	17.42 ± 1.10	n = 9	Siemens Immulite 1000
4.77 ± 0.32	10.57 ± 0.66	139.59 ± 9.96	6.89 ± 0.49	17.36 ± 1.07	n = 27	Siemens Immulite 2000
4.34 ± 0.53	9.83 ± 1.34	127.57 ± 24.49	6.40 ± 0.98	13.42 ± 2.60	n = 14	Mean of Above Means
						<Reagents>
3.20 ± 0.14	7.38 ± 0.29	93.05 ± 4.24	5.25 ± 0.21	10.38 ± 0.36	n = 12	Abbott
3.62 ± 0.25	8.26 ± 0.54	110.98 ± 6.95	5.25 ± 0.32	10.65 ± 0.50	n = 30	Beckman Coulter
4.66 ± 0.19	10.86 ± 0.24	170.69 ± 5.18	6.27 ± 0.23	13.71 ± 0.49	n = 13	Ortho Clinical Diagnostics
4.62 ± 0.12	10.16 ± 0.26	116.46 ± 3.56	7.22 ± 0.21	14.29 ± 0.38	n = 32	Roche Elecsys/Modular E/e601/e411
4.15 ± 0.24	9.60 ± 0.65	130.68 ± 8.38	6.20 ± 0.36	12.30 ± 0.77	n = 58	Siemens ADVIA/ADVIA Centaur
4.55 ± 0.12	11.85 ± 0.23	150.00 ± 0.00	7.69 ± 0.25	16.45 ± 0.12	n = 4	Siemens Dimension LOCI
4.73 ± 0.35	10.61 ± 0.70	141.45 ± 11.36	6.91 ± 0.54	17.37 ± 1.07	n = 38	Siemens Immulite
4.29 ± 0.57	9.91 ± 1.52	130.10 ± 25.71	6.41 ± 0.95	13.54 ± 2.72	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Follitropin (FSH, mIU/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
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13.33 ± 1.22	17.40 ± 4.48	52.74 ± 14.09	23.67 ± 4.25	24.30 ± 3.73	n = 197	All Methods & Instruments
13.30	16.60	51.00	23.10	25.10	n = 197	Median value, All Methods & Instruments
<Instruments>						
12.52 ± 0.53	14.39 ± 0.59	44.37 ± 1.66	20.07 ± 1.04	22.91 ± 1.08	n = 11	Abbott Architect i System
15.36 ± 0.58	17.68 ± 1.18	53.13 ± 3.42	24.60 ± 0.57	27.61 ± 1.38	n = 10	Beckman Coulter ACCESS
14.97 ± 0.77	16.74 ± 1.11	48.22 ± 4.32	22.97 ± 1.85	26.48 ± 0.24	n = 3	Beckman Coulter UniCel DxI 600
15.26 ± 0.91	17.24 ± 1.09	52.45 ± 2.08	24.37 ± 1.44	27.17 ± 1.69	n = 17	Beckman Coulter UniCel DxI 800
10.66 ± 0.54	13.94 ± 0.37	42.61 ± 1.30	19.56 ± 0.39	21.15 ± 0.51	n = 7	Ortho Vitros 5600
10.68 ± 0.53	13.56 ± 0.57	42.34 ± 1.08	19.44 ± 0.63	21.13 ± 1.19	n = 6	Ortho Vitros ECi/ECiQ
13.10 ± 0.59	16.57 ± 0.42	50.43 ± 1.61	22.87 ± 0.89	24.59 ± 1.00	n = 11	Roche cobas e601
13.52 ± 0.26	17.03 ± 0.31	52.69 ± 0.92	23.54 ± 0.34	25.60 ± 0.00	n = 6	Roche Elecsys
12.85 ± 0.48	16.13 ± 0.55	48.98 ± 1.75	22.15 ± 0.63	23.89 ± 0.77	n = 12	Roche MODULAR E
13.62 ± 0.71	23.09 ± 1.02	70.45 ± 3.46	28.85 ± 1.45	26.06 ± 1.15	n = 58	Siemens ADVIA Centaur
12.55 ± 0.27	22.30 ± 0.36	65.72 ± 2.10	26.74 ± 0.79	25.53 ± 0.41	n = 3	Siemens ADVIA Centaur CP
12.59 ± 0.43	15.70 ± 0.46	50.02 ± 1.12	21.65 ± 0.49	26.87 ± 0.52	n = 5	Siemens Dimension Vista
12.92 ± 0.59	12.18 ± 0.48	35.23 ± 1.34	19.13 ± 0.71	17.24 ± 0.69	n = 9	Siemens Immulite 1000
12.85 ± 0.66	12.64 ± 0.43	36.23 ± 2.22	19.33 ± 0.86	17.97 ± 0.73	n = 27	Siemens Immulite 2000
13.10 ± 1.39	15.96 ± 2.89	48.58 ± 8.95	22.27 ± 2.90	24.28 ± 3.26	n = 14	Mean of Above Means
<Reagents>						
12.55 ± 0.63	14.46 ± 0.71	44.47 ± 1.95	20.21 ± 1.25	23.04 ± 1.32	n = 12	Abbott
15.24 ± 0.82	17.33 ± 1.15	52.45 ± 2.76	24.35 ± 1.37	27.21 ± 1.54	n = 30	Beckman Coulter
10.67 ± 0.53	13.78 ± 0.51	42.50 ± 1.25	19.51 ± 0.52	21.16 ± 0.83	n = 13	Ortho Clinical Diagnostics
13.15 ± 0.58	16.53 ± 0.67	50.46 ± 2.34	22.75 ± 0.97	24.53 ± 1.19	n = 32	Roche Elecsys/Modular E/e601/e411
13.56 ± 0.74	23.04 ± 1.01	70.20 ± 3.60	28.74 ± 1.51	26.02 ± 1.12	n = 61	Siemens ADVIA/ADVIA Centaur
12.44 ± 0.34	15.80 ± 0.47	50.05 ± 1.30	21.65 ± 0.49	26.90 ± 0.60	n = 4	Siemens Dimension LOCI
12.87 ± 0.64	12.50 ± 0.50	35.84 ± 2.03	19.23 ± 0.81	17.78 ± 0.76	n = 38	Siemens Immulite
12.91 ± 1.22	15.55 ± 2.70	47.98 ± 9.10	21.85 ± 2.97	24.15 ± 3.27	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Prolactin (µg/L)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
1.25 ± 0.22 1.30	3.06 ± 0.44 3.10	3.43 ± 0.68 3.60	6.37 ± 0.94 6.50	19.20 ± 2.87 19.20	n = 175 n = 175	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
1.45 ± 0.12	3.99 ± 0.22	4.01 ± 0.19	8.25 ± 0.32	25.24 ± 1.46	n = 8	Abbott Architect i System
1.12 ± 0.07	2.93 ± 0.05	2.71 ± 0.10	5.85 ± 0.24	17.48 ± 0.62	n = 9	Beckman Coulter ACCESS
1.32 ± 0.49	2.70 ± 0.09	2.54 ± 0.10	5.49 ± 0.20	17.34 ± 0.82	n = 3	Beckman Coulter UniCel DxI 600
1.07 ± 0.11	2.90 ± 0.14	2.74 ± 0.21	5.60 ± 0.37	17.33 ± 0.95	n = 17	Beckman Coulter UniCel DxI 800
2.12 ± 0.45	3.73 ± 0.34	3.99 ± 0.45	7.26 ± 0.29	19.03 ± 0.73	n = 7	Ortho Vitros 5600
2.06 ± 0.82	3.53 ± 0.86	3.82 ± 0.77	6.92 ± 0.86	18.89 ± 1.06	n = 5	Ortho Vitros Eci/ECiQ
1.30 ± 0.00	3.24 ± 0.10	3.73 ± 0.11	6.91 ± 0.17	22.62 ± 0.52	n = 7	Roche cobas e601
1.38 ± 0.07	3.21 ± 0.24	3.93 ± 0.16	7.26 ± 0.24	23.70 ± 0.89	n = 7	Roche Elecsys
1.34 ± 0.06	3.28 ± 0.15	3.85 ± 0.16	7.05 ± 0.17	23.07 ± 0.79	n = 10	Roche MODULAR E
1.36 ± 0.10	3.19 ± 0.18	3.83 ± 0.26	6.64 ± 0.31	19.70 ± 1.02	n = 56	Siemens ADVIA Centaur
0.90 ± 0.05	2.82 ± 0.23	2.74 ± 0.27	5.97 ± 0.35	19.36 ± 1.34	n = 7	Siemens Dimension Vista
1.16 ± 0.11	2.56 ± 0.11	2.78 ± 0.08	5.55 ± 0.28	16.94 ± 0.65	n = 5	Siemens Immulite 1000
1.04 ± 0.06	2.41 ± 0.14	2.66 ± 0.16	4.99 ± 0.29	15.46 ± 0.92	n = 23	Siemens Immulite 2000
1.27 ± 0.28	3.09 ± 0.46	3.35 ± 0.68	6.42 ± 0.96	19.48 ± 3.07	n = 13	Mean of Above Means
<Reagents>						
1.46 ± 0.12	3.89 ± 0.34	3.96 ± 0.19	8.17 ± 0.41	24.53 ± 2.49	n = 10	Abbott
1.08 ± 0.09	2.90 ± 0.12	2.71 ± 0.18	5.67 ± 0.33	17.40 ± 0.83	n = 29	Beckman Coulter
2.02 ± 0.45	3.66 ± 0.58	3.92 ± 0.60	7.14 ± 0.58	18.96 ± 0.88	n = 12	Ortho Clinical Diagnostics
1.34 ± 0.06	3.25 ± 0.17	3.84 ± 0.17	7.07 ± 0.25	23.12 ± 0.94	n = 25	Roche Elecsys/Modular E/e601/e411
1.36 ± 0.11	3.19 ± 0.18	3.83 ± 0.26	6.63 ± 0.31	19.66 ± 1.05	n = 58	Siemens ADVIA/ADVIA Centaur
0.90 ± 0.06	2.82 ± 0.25	2.75 ± 0.29	5.95 ± 0.39	19.33 ± 1.49	n = 6	Siemens Dimension LOCI
1.05 ± 0.07	2.43 ± 0.15	2.68 ± 0.16	5.06 ± 0.35	15.72 ± 1.08	n = 30	Siemens Immulite
1.27 ± 0.32	3.16 ± 0.50	3.41 ± 0.66	6.51 ± 1.03	19.66 ± 3.01	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact Parathyrin (PTH, pg/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
3.08 ± 2.05 3.00	9.40 ± 3.25 9.90	80.07 ± 17.26 82.40	6.22 ± 3.00 6.70	132.97 ± 26.93 135.00	n = 168 n = 168	All Methods & Instruments Median value, All Methods & Instruments
<Instruments>						
1.70 ± 1.90	16.34 ± 0.77	119.49 ± 5.59	10.71 ± 0.53	194.42 ± 7.14	n = 7	Abbott Architect i System
0.39 ± 0.47	8.17 ± 0.94	63.38 ± 5.33	5.92 ± 0.84	109.20 ± 13.75	n = 9	Beckman Coulter ACCESS
2.01 ± 2.65	8.10 ± 1.23	59.22 ± 8.56	5.26 ± 0.69	103.99 ± 13.20	n = 12	Beckman Coulter UniCel DxI 800
3.40 ± 0.00	11.70 ± 0.67	91.16 ± 11.50	8.31 ± 0.60	147.42 ± 15.95	n = 5	Ortho Vitros 5600
3.40 ± 0.00	12.27 ± 0.97	97.79 ± 8.12	8.69 ± 0.57	158.74 ± 12.30	n = 3	Ortho Vitros Eci/ECiQ
6.26 ± 1.41	11.34 ± 0.82	67.73 ± 1.14	8.24 ± 1.03	110.53 ± 5.63	n = 10	Roche cobas e601
5.64 ± 1.38	11.94 ± 1.44	69.49 ± 7.50	8.65 ± 1.13	113.28 ± 10.36	n = 10	Roche Elecsys
5.57 ± 1.65	10.47 ± 1.20	64.22 ± 5.04	7.61 ± 1.20	105.22 ± 7.00	n = 11	Roche MODULAR E
2.14 ± 1.08	5.47 ± 1.43	90.21 ± 8.69	2.52 ± 0.32	150.25 ± 12.82	n = 45	Siemens ADVIA Centaur
2.64 ± 0.26	6.92 ± 0.77	90.60 ± 6.40	2.57 ± 0.60	149.51 ± 12.39	n = 3	Siemens ADVIA Centaur CP
4.33 ± 1.08	9.52 ± 0.73	71.71 ± 11.73	6.11 ± 1.26	121.69 ± 16.74	n = 8	Siemens Immulite 1000
3.00 ± 0.00	11.54 ± 1.20	88.15 ± 6.21	7.46 ± 0.99	144.95 ± 10.14	n = 33	Siemens Immulite 2000
3.32 ± 1.80	10.25 ± 2.75	79.66 ± 17.57	7.04 ± 2.40	131.70 ± 27.12	n = 12	Mean of Above Means
<Reagents>						
1.70 ± 1.90	16.34 ± 0.77	119.49 ± 5.59	10.71 ± 0.53	194.42 ± 7.14	n = 7	Abbott
0.61 ± 0.52	8.15 ± 1.09	61.91 ± 7.43	5.53 ± 0.78	107.06 ± 12.52	n = 23	Beckman Coulter
3.40 ± 0.00	11.86 ± 0.86	94.21 ± 10.47	8.45 ± 0.62	152.33 ± 15.07	n = 8	Ortho Clinical Diagnostics
5.86 ± 1.49	11.19 ± 1.26	66.13 ± 5.27	8.16 ± 1.13	109.05 ± 7.67	n = 35	Roche Elecsys/Modular E/e601/e411
2.23 ± 1.01	5.63 ± 1.55	90.09 ± 8.47	2.52 ± 0.36	150.16 ± 12.56	n = 49	Siemens ADVIA/ADVIA Centaur
3.00 ± 0.00	11.41 ± 1.51	88.63 ± 6.79	7.36 ± 1.30	144.66 ± 10.84	n = 37	Siemens Immulite
5.00 ± 0.00	9.75 ± 0.56	74.41 ± 7.12	6.84 ± 0.73	125.73 ± 9.97	n = 5	Siemens Immulite Turbo
3.05 ± 1.82	10.52 ± 3.09	83.64 ± 18.66	7.27 ± 2.34	138.20 ± 28.43	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D2 (ng/ml)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
2.13 ± 1.75	1.90 ± 1.74	1.94 ± 1.71	2.29 ± 1.65	48.22 ± 6.68	n = 13	All Methods & Instruments
1.20	1.30	1.30	2.50	46.20	n = 13	Median value, All Methods & Instruments
						<Instruments>
2.13 ± 1.75	1.90 ± 1.74	1.94 ± 1.71	2.29 ± 1.65	48.22 ± 6.68	n = 13	LC/MS/MS
						<Reagents>
2.13 ± 1.75	1.90 ± 1.74	1.94 ± 1.71	2.29 ± 1.65	48.22 ± 6.68	n = 13	In-House

Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D3 (ng/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
24.01 ± 2.28	19.04 ± 2.58	92.58 ± 9.38	32.82 ± 2.84	31.19 ± 2.43	n = 13	All Methods & Instruments
23.00	18.00	92.00	32.00	31.00	n = 13	Median value, All Methods & Instruments
						<Instruments>
24.01 ± 2.28	19.04 ± 2.58	92.58 ± 9.38	32.82 ± 2.84	31.19 ± 2.43	n = 13	LC/MS/MS
						<Reagents>
24.01 ± 2.28	19.04 ± 2.58	92.58 ± 9.38	32.82 ± 2.84	31.19 ± 2.43	n = 13	In-House

Statistical Summary (Mean and Standard Deviation)

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

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
31.59 ± 8.63	24.79 ± 9.93	74.91 ± 35.57	29.83 ± 8.83	45.60 ± 21.68	n = 119	All Methods & Instruments
31.80	21.00	55.70	27.00	35.00	n = 119	Median value, All Methods & Instruments
<Instruments>						
20.81 ± 1.38	18.90 ± 0.93	50.22 ± 1.92	26.30 ± 1.32	29.72 ± 1.31	n = 11	Abbott Architect i System
32.94 ± 1.43	31.65 ± 0.54	113.10 ± 5.19	36.44 ± 2.07	49.17 ± 3.12	n = 3	BioRad PhD System
31.96 ± 2.22	20.31 ± 1.25	53.04 ± 3.19	23.75 ± 1.67	31.62 ± 2.31	n = 50	DiaSorin Liaison
22.02 ± 3.41	16.89 ± 2.51	44.96 ± 8.33	25.22 ± 6.07	32.59 ± 4.00	n = 4	Gamma Counter
19.33 ± 1.90	24.49 ± 2.90	72.12 ± 7.76	30.41 ± 3.73	45.09 ± 3.46	n = 4	Immunodiagnostic Systems-iSYS Immun
23.92 ± 2.25	18.69 ± 2.64	90.64 ± 10.71	33.37 ± 2.20	79.18 ± 9.65	n = 11	LC/MS/MS
45.52 ± 5.07	43.87 ± 4.76	118.22 ± 7.01	44.22 ± 4.33	77.07 ± 3.39	n = 23	Siemens ADVIA Centaur
34.35 ± 4.91	32.87 ± 4.30	122.14 ± 22.09	35.09 ± 3.98	49.05 ± 4.37	n = 9	Other/Not listed
28.08 ± 8.62	24.82 ± 8.88	82.82 ± 33.68	31.42 ± 6.67	47.33 ± 19.18	n = 8	Mean of Above Means
<Reagents>						
20.81 ± 1.38	18.90 ± 0.93	50.22 ± 1.92	26.30 ± 1.32	29.72 ± 1.31	n = 11	Abbott
31.94 ± 2.17	20.30 ± 1.32	53.09 ± 3.28	23.74 ± 1.72	31.60 ± 2.39	n = 48	DiaSorin Liaison
22.92 ± 2.16	17.19 ± 2.98	45.27 ± 8.71	23.19 ± 2.06	31.77 ± 3.58	n = 4	DiaSorin Radioimmunoassay
33.62 ± 4.70	32.12 ± 3.82	116.88 ± 30.06	35.13 ± 2.92	50.39 ± 4.61	n = 18	Immunodiagnostic Systems Enzyme Imm
23.21 ± 7.48	21.92 ± 1.14	62.08 ± 7.86	26.25 ± 1.92	39.23 ± 5.51	n = 3	Immunodiagnostic Systems-iSYS chemi
23.92 ± 2.25	18.69 ± 2.64	90.64 ± 10.71	33.37 ± 2.20	79.18 ± 9.65	n = 11	In-House
45.52 ± 5.07	43.87 ± 4.76	118.22 ± 7.01	44.22 ± 4.33	77.07 ± 3.39	n = 23	Siemens ADVIA/ADVIA Centaur
27.53 ± 7.89	22.43 ± 7.77	74.76 ± 32.26	29.41 ± 7.19	46.38 ± 21.34	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Intact human Choriogonadotropin (intact hCG, mIU/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
-----	-----	-----	-----	-----	-----	-----
46.7 ± 2.25	41.0 ± 2.17	49.8 ± 3.26	1.3 ± 0.77	45.6 ± 1.85	n = 50	All Methods & Instruments
47.0	41.0	50.0	1.0	45.0	n = 50	Median value, All Methods & Instruments
<Instruments>						
45.1 ± 1.33	40.8 ± 1.45	45.3 ± 3.33	3.4 ± 3.35	46.7 ± 1.68	n = 6	Roche cobas e601
43.1 ± 2.86	37.4 ± 2.56	42.8 ± 2.36	3.2 ± 4.89	43.0 ± 2.70	n = 3	Roche Elecsys
48.1 ± 2.92	42.0 ± 2.02	50.2 ± 2.21	1.6 ± 1.45	45.7 ± 2.60	n = 7	Siemens Dimension EXL
46.9 ± 1.74	40.9 ± 1.67	51.0 ± 2.03	1.2 ± 0.48	45.6 ± 1.44	n = 21	Siemens Dimension RxL
47.2 ± 1.47	41.1 ± 1.88	50.9 ± 2.01	1.3 ± 0.80	45.6 ± 1.46	n = 11	Siemens Dimension Xpand
46.2 ± 1.88	41.1 ± 0.48	48.3 ± 3.67	2.1 ± 1.07	45.6 ± 1.10	n = 5	Mean of Above Means
<Reagents>						
44.7 ± 2.21	40.2 ± 3.29	44.4 ± 3.30	3.3 ± 3.92	45.7 ± 2.54	n = 9	Roche Elecsys/Modular E/e601/e411
47.1 ± 1.98	41.1 ± 1.85	50.8 ± 2.08	1.3 ± 0.78	45.6 ± 1.68	n = 39	Siemens Dimension
45.9 ± 1.36	40.7 ± 0.53	47.6 ± 3.66	2.3 ± 1.16	45.7 ± 0.07	n = 2	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Total Beta hCG (mIU/mL)

Specimen: E76	Specimen: E77	Specimen: E78	Specimen: E79	Specimen: E80	Number	Instrument or Reagent System
43.4 ± 8.02	38.6 ± 7.39	54.6 ± 8.51	1.3 ± 0.77	54.9 ± 8.02	n = 251	All Methods & Instruments
44.0	39.0	55.0	1.0	55.0	n = 251	Median value, All Methods & Instruments
						<Instruments>
33.4 ± 1.49	29.0 ± 1.31	44.6 ± 1.45	2.0 ± 1.97	43.6 ± 2.19	n = 20	Abbott Architect i System
33.7 ± 1.80	30.2 ± 1.48	52.9 ± 3.22	0.9 ± 0.44	54.6 ± 2.97	n = 27	Beckman Coulter ACCESS
32.9 ± 2.72	29.5 ± 2.83	53.6 ± 5.30	3.0 ± 2.28	52.4 ± 6.45	n = 4	Beckman Coulter UniCel DxI 600
33.0 ± 2.67	30.4 ± 2.07	52.3 ± 2.97	1.2 ± 0.44	52.6 ± 3.65	n = 17	Beckman Coulter UniCel DxI 800
52.8 ± 2.15	48.1 ± 2.16	59.4 ± 2.22	2.0 ± 0.00	56.9 ± 2.48	n = 13	Ortho Vitros 5600
51.6 ± 3.09	46.9 ± 2.54	58.1 ± 4.01	2.0 ± 0.00	56.6 ± 3.42	n = 16	Ortho Vitros ECI/ECiQ
45.2 ± 2.36	41.5 ± 1.86	64.7 ± 3.07	1.3 ± 0.51	65.5 ± 2.74	n = 3	Roche cobas e411
43.1 ± 1.53	40.1 ± 1.80	62.7 ± 1.62	0.8 ± 0.41	62.5 ± 1.33	n = 10	Roche cobas e601
43.5 ± 1.22	40.7 ± 0.90	64.8 ± 0.41	0.8 ± 0.41	63.1 ± 1.13	n = 4	Roche Elecsys
42.9 ± 1.41	40.0 ± 1.23	62.8 ± 2.17	0.9 ± 0.52	62.4 ± 2.05	n = 17	Roche MODULAR E
43.7 ± 1.83	37.2 ± 1.72	47.4 ± 1.92	1.9 ± 1.27	48.6 ± 1.91	n = 54	Siemens ADVIA Centaur
42.2 ± 2.61	36.9 ± 1.38	46.6 ± 1.52	2.0 ± 0.00	47.7 ± 1.38	n = 5	Siemens ADVIA Centaur CP
47.7 ± 1.00	43.2 ± 0.78	60.5 ± 1.41	1.0 ± 0.00	60.1 ± 1.41	n = 35	Siemens Dimension Vista
51.6 ± 1.69	41.6 ± 2.05	72.4 ± 7.03	1.0 ± 0.00	69.0 ± 3.52	n = 5	Siemens Immulite 1000
60.8 ± 3.27	54.8 ± 3.64	88.9 ± 5.77	1.0 ± 0.00	85.6 ± 8.57	n = 15	Siemens Immulite 2000
43.7 ± 8.29	39.2 ± 7.41	58.0 ± 9.38	1.4 ± 0.61	57.5 ± 8.58	n = 15	Mean of Above Means
						<Reagents>
33.5 ± 1.57	29.1 ± 1.30	44.8 ± 1.57	2.0 ± 2.08	43.5 ± 2.17	n = 22	Abbott
33.4 ± 2.17	30.2 ± 1.75	52.7 ± 3.35	1.0 ± 0.00	53.9 ± 3.54	n = 48	Beckman Coulter
52.1 ± 2.76	47.4 ± 2.48	58.7 ± 3.30	2.0 ± 0.00	56.8 ± 2.99	n = 29	Ortho Clinical Diagnostics
43.1 ± 1.65	40.2 ± 1.48	63.1 ± 2.09	0.9 ± 0.48	62.6 ± 1.97	n = 34	Roche Elecsys/Modular E/e601/e411
43.7 ± 1.85	37.2 ± 1.69	47.3 ± 1.89	1.9 ± 1.11	48.5 ± 1.88	n = 59	Siemens ADVIA/ADVIA Centaur
47.7 ± 1.00	43.2 ± 0.78	60.5 ± 1.41	1.0 ± 0.00	60.1 ± 1.41	n = 35	Siemens Dimension LOCI
58.5 ± 6.35	51.2 ± 7.51	85.5 ± 9.17	1.0 ± 0.00	81.4 ± 10.93	n = 20	Siemens Immulite
44.5 ± 9.18	39.8 ± 8.35	56.7 ± 11.19	1.4 ± 0.55	56.5 ± 10.51	n = 7	Mean of Above Means

Statistical Summary (Mean and Standard Deviation)

Qualitative hCG report:

[AB1] Abbott	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	9	0
Indeterminant	0	0	0	0	0
Positive	9	9	9	0	9
[AD1] American Diagnostics	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	2	0
Indeterminant	0	0	0	0	0
Positive	2	2	2	0	2
[BC1] Beckman Coulter	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	1	29	0
Indeterminant	0	1	0	0	0
Positive	29	28	28	0	29
[CD1] Cardinal Health	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	9	0
Indeterminant	0	0	0	0	0
Positive	9	9	9	0	9
[CM1] CEN-MED Elite Plus hCG One Step	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	8	0
Indeterminant	1	1	1	0	1
Positive	7	7	7	0	7
[FI1] Fisher	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	51	0
Indeterminant	0	0	0	0	0
Positive	51	51	51	0	51
[IM1] Inverness Medical	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	5	0
Indeterminant	0	0	0	0	0
Positive	5	5	5	0	5
[JJ1] Ortho Clinical Diagnostics	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	2	0
Indeterminant	0	0	0	0	0
Positive	2	2	2	0	2
[PM1] Polymedco	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
Negative	0	0	0	4	0
Indeterminant	0	0	0	0	0
Positive	4	4	4	0	4

Statistical Summary (Mean and Standard Deviation)

[QQ2]	Quidel QuickVue One-Step hCG Combo	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	26	0
	Indeterminant	0	0	0	0	0
	Positive	26	26	26	0	26
[QQ1]	Quidel QuickVue ₊ One-Step hCG Combo	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	21	0
	Indeterminant	0	0	0	0	0
	Positive	21	21	21	0	21
[RO3]	Roche Elecsys/Modular E/e601/e411	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	6	0
	Indeterminant	0	0	0	0	0
	Positive	6	6	6	0	6
[RO2]	Roche Hitachi and Modular D/P	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	1	0
	Indeterminant	0	0	0	0	0
	Positive	1	1	1	0	1
[GZ1]	Sekisui Diagnostics (Genzyme)	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	9	0
	Indeterminant	0	0	0	0	0
	Positive	9	9	9	0	9
[BY1]	Siemens ADVIA/ADVIA Centaur	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	24	0
	Indeterminant	0	0	0	0	0
	Positive	24	24	24	0	24
[DA5]	Siemens Dimension	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	6	0
	Indeterminant	0	0	0	0	0
	Positive	6	6	6	0	6
[DA6]	Siemens Dimension LOCI	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	4	0
	Indeterminant	0	0	0	0	0
	Positive	4	4	4	0	4
[DP5]	Siemens Immulite	Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
	Negative	0	0	0	2	0
	Indeterminant	0	0	0	0	0
	Positive	2	2	2	0	2

Statistical Summary (Mean and Standard Deviation)

[SB1] Stanbio		Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
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	Negative	0	0	0	10	0
	Indeterminant	0	0	0	0	0
	Positive	10	10	10	0	10
[TR1] TrueMedix		Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
-----		-----	-----	-----	-----	-----
	Negative	0	0	0	5	0
	Indeterminant	0	0	0	0	0
	Positive	5	5	5	0	5
[WP3] Wampole Clearview		Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
-----		-----	-----	-----	-----	-----
	Negative	0	0	0	2	0
	Indeterminant	0	0	0	0	0
	Positive	2	2	2	0	2
[ZZZ] Other/Not listed		Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
-----		-----	-----	-----	-----	-----
	Negative	0	0	0	7	0
	Indeterminant	0	0	0	0	0
	Positive	7	7	7	0	7
[---] All Methods & Instruments		Specimen:E76	Specimen:E77	Specimen:E78	Specimen:E79	Specimen:E80
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	Negative	0	0	1	242	0
	Indeterminant	1	2	1	0	1
	Positive	241	240	240	0	241