

## Statistical Summary (Mean and Standard Deviation)

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

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
2.72 $\pm$ 0.43	8.93 $\pm$ 1.39	11.37 $\pm$ 1.58	9.32 $\pm$ 1.75	23.02 $\pm$ 2.09	n = 156	All Methods & Instruments
2.80	9.00	11.50	9.40	23.00	n = 156	Median value, All Methods & Instruments
<Instruments>						
3.04 $\pm$ 0.26	7.50 $\pm$ 0.27	10.09 $\pm$ 0.83	8.29 $\pm$ 0.83	20.73 $\pm$ 1.49	n = 3	Abbott Architect
2.86 $\pm$ 0.54	8.06 $\pm$ 0.64	10.30 $\pm$ 1.22	8.92 $\pm$ 1.09	23.43 $\pm$ 1.65	n = 5	Abbott AxSym
2.75 $\pm$ 0.35	8.74 $\pm$ 0.79	11.12 $\pm$ 1.10	8.87 $\pm$ 0.96	22.20 $\pm$ 1.38	n = 7	Beckman Coulter ACCESS
2.70 $\pm$ 0.30	8.62 $\pm$ 0.67	10.66 $\pm$ 0.84	8.61 $\pm$ 0.78	22.04 $\pm$ 1.07	n = 19	Beckman Coulter UniCel DxI 800
2.70 $\pm$ 0.11	7.57 $\pm$ 0.34	9.80 $\pm$ 0.74	8.05 $\pm$ 0.22	20.49 $\pm$ 0.88	n = 4	LC/MS/MS
2.06 $\pm$ 0.16	7.49 $\pm$ 0.59	10.10 $\pm$ 0.80	6.93 $\pm$ 0.55	20.35 $\pm$ 1.84	n = 12	Ortho Vitros Eci/ECiQ
2.20 $\pm$ 0.19	6.95 $\pm$ 0.38	9.40 $\pm$ 0.68	7.38 $\pm$ 0.38	22.95 $\pm$ 0.88	n = 6	Roche cobas e601
2.38 $\pm$ 0.08	7.25 $\pm$ 0.23	9.49 $\pm$ 0.59	7.50 $\pm$ 0.32	22.69 $\pm$ 0.66	n = 5	Roche Elecsys
2.15 $\pm$ 0.21	6.92 $\pm$ 0.19	9.29 $\pm$ 0.36	7.33 $\pm$ 0.26	22.45 $\pm$ 1.44	n = 10	Roche MODULAR E
2.98 $\pm$ 0.21	9.99 $\pm$ 0.72	12.63 $\pm$ 0.88	10.16 $\pm$ 0.78	24.85 $\pm$ 1.53	n = 50	Siemens ADVIA Centaur
2.87 $\pm$ 0.40	9.51 $\pm$ 0.35	12.28 $\pm$ 0.20	11.67 $\pm$ 1.09	22.68 $\pm$ 0.98	n = 4	Siemens Immulite 1000
2.77 $\pm$ 0.32	9.76 $\pm$ 0.82	11.76 $\pm$ 1.00	11.39 $\pm$ 0.70	22.90 $\pm$ 1.64	n = 20	Siemens Immulite 2000
2.73 $\pm$ 0.16	10.00 $\pm$ 0.60	12.26 $\pm$ 0.61	11.12 $\pm$ 0.13	22.75 $\pm$ 1.10	n = 4	Siemens Immulite 2500
2.50 $\pm$ 0.00	7.93 $\pm$ 0.23	10.09 $\pm$ 0.29	7.59 $\pm$ 0.20	20.50 $\pm$ 0.54	n = 3	Tosoh Bioscience
2.65 $\pm$ 0.32	8.25 $\pm$ 1.18	10.57 $\pm$ 1.18	8.68 $\pm$ 1.63	22.23 $\pm$ 1.28	n = 14	Mean of Above Means
<Reagents>						
2.95 $\pm$ 0.46	7.80 $\pm$ 0.56	10.19 $\pm$ 1.08	8.63 $\pm$ 0.99	22.46 $\pm$ 2.04	n = 8	Abbott
2.71 $\pm$ 0.30	8.65 $\pm$ 0.70	10.76 $\pm$ 0.90	8.67 $\pm$ 0.83	22.06 $\pm$ 1.15	n = 26	Beckman Coulter
2.70 $\pm$ 0.11	7.57 $\pm$ 0.34	9.80 $\pm$ 0.74	8.05 $\pm$ 0.22	20.49 $\pm$ 0.88	n = 4	In-House
2.06 $\pm$ 0.16	7.49 $\pm$ 0.59	10.10 $\pm$ 0.80	6.93 $\pm$ 0.55	20.35 $\pm$ 1.84	n = 12	Ortho Clinical Diagnostics
2.23 $\pm$ 0.21	7.00 $\pm$ 0.30	9.41 $\pm$ 0.57	7.38 $\pm$ 0.32	22.68 $\pm$ 1.08	n = 21	Roche Elecsys/Modular E/e601/e411
2.98 $\pm$ 0.20	9.99 $\pm$ 0.71	12.64 $\pm$ 0.87	10.15 $\pm$ 0.77	24.86 $\pm$ 1.51	n = 51	Siemens ADVIA/ADVIA Centaur
2.77 $\pm$ 0.31	9.77 $\pm$ 0.74	11.95 $\pm$ 0.90	11.36 $\pm$ 0.71	22.82 $\pm$ 1.46	n = 28	Siemens Immulite
2.50 $\pm$ 0.00	7.93 $\pm$ 0.23	10.09 $\pm$ 0.29	7.59 $\pm$ 0.20	20.50 $\pm$ 0.54	n = 3	Tosoh ST AIA
2.64 $\pm$ 0.32	8.17 $\pm$ 1.08	10.46 $\pm$ 1.05	8.42 $\pm$ 1.40	21.93 $\pm$ 1.50	n = 8	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D2 (ng/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
23.08 ± 2.03	4.86 ± 0.76	2.98 ± 1.65	10.21 ± 1.97	3.14 ± 1.47	n = 14	All Methods & Instruments
22.70	4.90	4.00	10.00	4.00	n = 14	Median value, All Methods & Instruments
						<Instruments>
23.08 ± 2.03	4.86 ± 0.76	2.98 ± 1.65	10.21 ± 1.97	3.14 ± 1.47	n = 14	LC/MS/MS
						<Reagents>
23.08 ± 2.03	4.86 ± 0.76	2.98 ± 1.65	10.21 ± 1.97	3.14 ± 1.47	n = 14	In-House

## Statistical Summary (Mean and Standard Deviation)

25-OH Vitamin D3 (ng/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
25.29 ± 2.03	18.74 ± 1.46	31.03 ± 2.29	28.90 ± 2.64	59.79 ± 5.90	n = 15	All Methods & Instruments
25.00	18.00	31.00	28.40	59.00	n = 15	Median value, All Methods & Instruments
25.29 ± 2.03	18.62 ± 1.59	31.16 ± 1.98	29.10 ± 2.26	60.42 ± 5.16	n = 14	<Instruments> LC/MS/MS
25.29 ± 2.03	18.62 ± 1.59	31.16 ± 1.98	29.10 ± 2.26	60.42 ± 5.16	n = 14	<Reagents> In-House

## Statistical Summary (Mean and Standard Deviation)

Dehydroepiandrosterone sulfate (DHEA-S, µg/dL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
32.95 ± 7.25	116.02 ± 17.03	86.57 ± 14.95	212.11 ± 24.13	135.18 ± 21.40	n = 81	All Methods & Instruments
31.50	113.00	84.70	214.00	132.00	n = 81	Median value, All Methods & Instruments
44.0	99.0	84.0	170.0	127.0	n = 2	[---] Results of LC_MS_MS measurement*
<Instruments>						
36.38 ± 3.71	113.43 ± 6.34	86.75 ± 7.79	204.92 ± 17.69	136.84 ± 15.04	n = 4	Beckman Coulter UniCel DxI 800
45.79 ± 3.09	145.17 ± 5.34	116.55 ± 5.86	225.24 ± 7.68	177.61 ± 7.40	n = 8	Roche Elecsys
47.34 ± 2.95	155.96 ± 3.09	122.25 ± 5.07	234.00 ± 4.86	178.92 ± 5.13	n = 3	Roche MODULAR E
33.11 ± 3.66	114.13 ± 7.40	86.51 ± 7.88	219.63 ± 8.44	140.32 ± 12.38	n = 6	Siemens Immulite 1000
30.12 ± 3.80	111.55 ± 10.44	81.64 ± 7.92	207.80 ± 22.82	126.89 ± 11.57	n = 44	Siemens Immulite 2000
30.89 ± 4.32	110.33 ± 6.71	81.63 ± 9.40	214.26 ± 16.35	134.10 ± 7.15	n = 6	Siemens Immulite 2500
36.77 ± 7.55	122.80 ± 19.49	94.05 ± 18.20	217.22 ± 10.76	147.16 ± 22.91	n = 6	Mean of Above Means
<Reagents>						
36.52 ± 3.17	113.60 ± 5.47	86.76 ± 6.63	203.73 ± 15.58	136.63 ± 13.06	n = 5	Beckman Coulter
43.75 ± 9.41	110.09 ± 24.07	90.44 ± 17.75	184.38 ± 49.76	131.11 ± 31.28	n = 4	In-House
45.65 ± 3.06	146.91 ± 6.84	116.80 ± 6.94	225.86 ± 9.22	176.19 ± 8.60	n = 13	Roche Elecsys/Modular E/e601/e411
30.51 ± 3.95	111.84 ± 9.67	82.12 ± 8.23	210.65 ± 22.19	129.01 ± 12.10	n = 56	Siemens Immulite
39.38 ± 6.64	117.28 ± 14.53	91.66 ± 13.39	206.60 ± 15.95	139.34 ± 18.66	n = 4	Mean of Above Means

\*Values of LC\_MS\_MS measurements were results of multiple analysis of the specimens (CV% < 6%) at Bioanalytical Core Laboratory, Georgetown University, Washington, DC.

## Reference:

- Guo T, Chan M, Soldin SJ. Steroid Profiles Using Liquid Chromatography-Tandem Mass Spectrometry With Atmospheric Pressure Photoionization Source. Arch Pathol Lab Med 2004;128:469-75.
- Guo T, Taylor RL, Singh RJ, Soldin SJ. Simultaneous determination of 12 steroids by isotope dilution liquid chromatography-photospray ionization tandem mass spectrometry. Clinica Chimica Acta 2006;372:76-82.

## Statistical Summary (Mean and Standard Deviation)

## Estradiol (pg/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
30.1 ± 12.54	126.8 ± 48.13	164.2 ± 60.07	201.5 ± 50.98	133.6 ± 16.06	n = 165	All Methods & Instruments
28.0	132.0	158.0	193.0	133.0	n = 165	Median value, All Methods & Instruments
						<Instruments>
39.3 ± 2.26	84.8 ± 4.11	112.3 ± 4.06	156.3 ± 3.37	125.3 ± 3.16	n = 3	Abbott Architect
21.5 ± 3.59	80.7 ± 1.98	105.6 ± 6.63	163.6 ± 7.62	140.4 ± 5.99	n = 6	Abbott AxSym
30.0 ± 7.58	212.4 ± 14.64	259.9 ± 14.16	197.3 ± 9.64	149.9 ± 13.35	n = 11	Beckman Coulter ACCESS
32.7 ± 8.53	222.2 ± 11.21	270.5 ± 28.98	208.1 ± 18.45	146.3 ± 16.00	n = 12	Beckman Coulter UniCel DxI 800
12.0 ± 4.53	59.3 ± 15.11	80.2 ± 12.02	134.3 ± 18.38	75.7 ± 13.82	n = 5	Gamma Counter
24.5 ± 3.89	64.6 ± 6.56	99.4 ± 8.39	190.0 ± 22.79	124.1 ± 17.74	n = 4	LC/MS/MS
13.0 ± 1.73	118.9 ± 8.84	159.1 ± 13.73	130.3 ± 10.86	104.2 ± 9.12	n = 7	Ortho Vitros ECi/ECiQ
45.3 ± 1.51	94.6 ± 3.21	134.9 ± 6.88	177.3 ± 3.17	140.2 ± 2.80	n = 4	Roche cobas e601
42.7 ± 8.03	90.0 ± 8.27	133.0 ± 9.10	176.7 ± 9.63	140.1 ± 7.50	n = 7	Roche Elecsys
43.2 ± 3.12	96.9 ± 3.40	137.9 ± 3.99	184.2 ± 7.00	140.9 ± 6.09	n = 8	Roche MODULAR E
40.0 ± 11.38	114.7 ± 30.97	131.7 ± 28.57	271.5 ± 22.51	135.1 ± 13.96	n = 41	Siemens ADVIA Centaur
45.1 ± 7.44	96.4 ± 5.58	128.7 ± 5.97	299.9 ± 40.55	140.5 ± 9.94	n = 3	Siemens ADVIA Centaur CP
20.5 ± 1.21	137.9 ± 11.40	192.1 ± 21.86	180.7 ± 17.75	126.0 ± 12.37	n = 13	Siemens Immulite 1000
22.9 ± 3.46	144.2 ± 9.95	197.7 ± 18.44	196.0 ± 15.16	129.7 ± 10.82	n = 26	Siemens Immulite 2000
26.1 ± 3.32	150.6 ± 12.76	200.7 ± 15.86	193.1 ± 12.44	128.3 ± 12.50	n = 6	Siemens Immulite 2500
28.2 ± 4.89	260.4 ± 17.37	307.4 ± 15.38	142.2 ± 5.00	128.3 ± 6.73	n = 3	Tosoh Bioscience
15.8 ± 14.95	70.9 ± 47.39	98.0 ± 65.52	96.8 ± 67.46	77.8 ± 55.68	n = 3	Reagent Not Listed
29.5 ± 12.01	112.7 ± 51.84	152.7 ± 63.61	176.6 ± 40.61	134.3 ± 10.65	n = 17	Mean of Above Means
						<Reagents>
26.9 ± 9.69	81.4 ± 2.60	108.2 ± 6.70	160.8 ± 7.53	135.1 ± 9.50	n = 9	Abbott
31.3 ± 8.25	217.8 ± 14.31	265.5 ± 23.75	203.3 ± 17.17	148.3 ± 14.58	n = 23	Beckman Coulter
24.5 ± 3.89	64.6 ± 6.56	99.4 ± 8.39	190.0 ± 22.79	124.1 ± 17.74	n = 4	In-House
13.2 ± 1.65	117.3 ± 9.11	157.2 ± 13.27	128.1 ± 11.70	102.4 ± 9.69	n = 8	Ortho Clinical Diagnostics
43.6 ± 3.30	93.4 ± 6.60	134.4 ± 7.64	178.7 ± 8.21	139.5 ± 5.60	n = 19	Roche Elecsys/Modular E/e601/e411
35.6 ± 11.30	138.2 ± 14.26	151.6 ± 14.27	264.6 ± 15.14	138.8 ± 14.12	n = 22	Siemens ADVIA/ADVIA Centaur
44.8 ± 7.22	87.1 ± 6.77	109.6 ± 10.80	289.4 ± 37.75	132.5 ± 12.79	n = 22	Siemens ADVIA:Centaur Estradiol 6 I
22.7 ± 3.58	143.3 ± 11.56	196.6 ± 19.46	191.8 ± 16.81	128.5 ± 11.61	n = 45	Siemens Immulite
28.2 ± 4.89	260.4 ± 17.37	307.4 ± 15.38	142.2 ± 5.00	128.3 ± 6.73	n = 3	Tosoh ST AIA
14.4 ± 15.16	80.8 ± 62.34	102.8 ± 71.88	64.9 ± 66.79	59.7 ± 54.22	n = 3	Reagent Not Listed
28.3 ± 10.80	117.0 ± 57.11	151.3 ± 65.94	180.8 ± 61.64	132.9 ± 9.94	n = 10	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

Free Estriol (ng/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
0.13 ± 0.12	2.68 ± 1.56	2.76 ± 1.65	0.15 ± 0.12	0.13 ± 0.12	n = 21	All Methods & Instruments
0.10	1.90	2.00	0.10	0.10	n = 21	Median value, All Methods & Instruments
n/a*	4.0	4.0	n/a*	n/a*		Calculated concentration based on spiked amount
0.03 ± 0.05	1.36 ± 0.10	1.33 ± 0.05	0.03 ± 0.05	0.03 ± 0.05	n = 3	<Instruments> Beckman Coulter ACCESS
0.04 ± 0.06	1.40 ± 0.00	1.48 ± 0.08	0.06 ± 0.06	0.04 ± 0.06	n = 5	Beckman Coulter UniCel DxI 800
0.10 ± 0.00	2.41 ± 0.66	2.76 ± 1.11	0.17 ± 0.05	0.10 ± 0.00	n = 3	Gamma Counter
0.30 ± 0.00	4.75 ± 0.32	4.80 ± 0.35	0.30 ± 0.00	0.30 ± 0.00	n = 6	Siemens Immulite 2000
0.10 ± 0.11	2.28 ± 1.42	2.44 ± 1.47	0.13 ± 0.12	0.10 ± 0.11	n = 4	Mean of Above Means
0.04 ± 0.06	1.41 ± 0.08	1.42 ± 0.09	0.06 ± 0.06	0.04 ± 0.06	n = 9	<Reagents> Beckman Coulter
0.30 ± 0.00	4.60 ± 0.47	4.70 ± 0.42	0.30 ± 0.00	0.30 ± 0.00	n = 7	Siemens Immulite
0.17 ± 0.15	3.01 ± 1.82	3.06 ± 1.87	0.18 ± 0.14	0.17 ± 0.15	n = 2	Mean of Above Means

\*n/a indicates no addition of exogenous unconjugated estriol.

## Statistical Summary (Mean and Standard Deviation)

Free T-3 (pg/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
1.80 ± 0.25	2.94 ± 0.62	3.81 ± 0.77	5.43 ± 1.16	5.23 ± 0.79	n = 111	All Methods & Instruments
1.80	3.10	4.10	5.50	5.50	n = 111	Median value, All Methods & Instruments
<Instruments>						
1.62 ± 0.20	2.38 ± 0.20	3.28 ± 0.21	5.99 ± 0.19	4.99 ± 0.19	n = 4	Abbott Architect
1.75 ± 0.06	2.87 ± 0.16	3.47 ± 0.16	5.28 ± 0.28	4.77 ± 0.15	n = 4	Beckman Coulter ACCESS
1.60 ± 0.17	2.66 ± 0.16	3.21 ± 0.24	4.57 ± 0.34	4.17 ± 0.28	n = 14	Beckman Coulter UniCel DxI 800
1.25 ± 0.29	5.77 ± 0.48	7.00 ± 0.68	8.98 ± 0.83	6.68 ± 0.59	n = 5	Ortho Vitros ECi/ECiQ
2.04 ± 0.10	3.38 ± 0.24	4.17 ± 0.05	7.60 ± 0.55	5.86 ± 0.39	n = 3	Roche cobas e601
1.85 ± 0.12	3.30 ± 0.18	4.20 ± 0.11	7.25 ± 0.17	5.78 ± 0.13	n = 4	Roche Elecsys
1.69 ± 0.18	3.10 ± 0.24	4.06 ± 0.25	7.24 ± 0.33	5.59 ± 0.25	n = 8	Roche MODULAR E
1.93 ± 0.12	3.27 ± 0.12	4.28 ± 0.12	5.51 ± 0.16	5.68 ± 0.18	n = 41	Siemens ADVIA Centaur
0.56 ± 0.10	2.85 ± 0.19	4.22 ± 0.24	6.10 ± 0.54	5.55 ± 0.27	n = 3	Siemens Dimension Vista
1.83 ± 0.28	1.78 ± 0.24	2.68 ± 0.28	4.07 ± 0.17	4.42 ± 0.34	n = 13	Siemens Immulite 2000
1.75 ± 0.27	1.79 ± 0.24	2.84 ± 0.35	4.16 ± 0.18	4.25 ± 0.22	n = 4	Siemens Immulite 2500
1.76 ± 0.18	2.80 ± 0.63	3.68 ± 0.68	6.00 ± 1.57	5.24 ± 0.80	n = 11	Mean of Above Means
<Reagents>						
1.54 ± 0.29	2.49 ± 0.20	3.16 ± 0.27	5.53 ± 0.62	4.72 ± 0.37	n = 7	Abbott
1.64 ± 0.18	2.71 ± 0.21	3.27 ± 0.26	4.72 ± 0.47	4.27 ± 0.38	n = 17	Beckman Coulter
1.25 ± 0.29	5.77 ± 0.48	7.00 ± 0.68	8.98 ± 0.83	6.68 ± 0.59	n = 5	Ortho Clinical Diagnostics
1.81 ± 0.22	3.22 ± 0.26	4.13 ± 0.19	7.26 ± 0.31	5.69 ± 0.26	n = 14	Roche Elecsys/Modular E/e601/e411
1.93 ± 0.12	3.28 ± 0.13	4.28 ± 0.13	5.51 ± 0.15	5.68 ± 0.18	n = 42	Siemens ADVIA/ADVIA Centaur
1.80 ± 0.27	1.80 ± 0.25	2.71 ± 0.29	4.09 ± 0.17	4.40 ± 0.32	n = 18	Siemens Immulite
1.68 ± 0.23	2.89 ± 0.97	3.71 ± 1.10	5.83 ± 1.70	5.19 ± 0.92	n = 6	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

Folic Acid (ng/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
1.62 ± 0.86	1.39 ± 0.57	4.80 ± 0.93	3.89 ± 0.98	13.30 ± 1.60	n = 229	All Methods & Instruments
1.40	1.30	4.80	3.80	13.20	n = 229	Median value, All Methods & Instruments
						<Instruments>
1.20 ± 0.25	2.01 ± 0.35	6.33 ± 0.42	4.80 ± 0.38	16.18 ± 0.87	n = 14	Abbott AxSym
0.91 ± 0.18	1.43 ± 0.22	5.00 ± 0.57	4.21 ± 0.53	13.24 ± 1.35	n = 21	Beckman Coulter ACCESS
0.76 ± 0.20	1.34 ± 0.20	4.74 ± 0.36	3.74 ± 0.31	12.73 ± 0.77	n = 23	Beckman Coulter UniCel DxI 800
0.97 ± 0.20	1.62 ± 0.26	4.77 ± 0.61	4.02 ± 0.38	13.86 ± 1.42	n = 20	Ortho Vitros ECi/ECiQ
2.33 ± 0.55	2.98 ± 0.41	5.61 ± 0.56	5.33 ± 0.43	12.94 ± 0.78	n = 10	Roche cobas e601
2.27 ± 0.60	2.59 ± 0.43	5.46 ± 0.49	5.12 ± 0.24	12.88 ± 0.74	n = 5	Roche Elecsys
2.66 ± 0.37	3.30 ± 0.36	5.89 ± 0.31	5.47 ± 0.31	13.13 ± 0.99	n = 15	Roche MODULAR E
2.35 ± 0.31	1.02 ± 0.18	4.07 ± 0.46	3.08 ± 0.28	13.14 ± 1.59	n = 72	Siemens ADVIA Centaur
2.57 ± 0.42	0.97 ± 0.14	4.55 ± 0.36	3.63 ± 0.14	18.38 ± 4.10	n = 3	Siemens ADVIA Centaur CP
0.54 ± 0.06	0.64 ± 0.14	2.89 ± 0.21	1.40 ± 0.36	10.47 ± 0.74	n = 6	Siemens Dimension Vista
1.10 ± 0.19	1.61 ± 0.18	6.54 ± 0.49	5.06 ± 0.33	15.65 ± 0.35	n = 5	Siemens Immulite 1000
1.00 ± 0.00	1.26 ± 0.19	4.93 ± 0.38	3.82 ± 0.41	12.92 ± 0.81	n = 21	Siemens Immulite 2000
1.27 ± 0.16	1.63 ± 0.48	5.61 ± 0.35	4.50 ± 0.32	14.82 ± 1.42	n = 5	Siemens Immulite 2500
1.16 ± 0.29	2.27 ± 0.24	4.93 ± 0.37	4.99 ± 0.41	13.18 ± 1.79	n = 6	Tosoh Bioscience
1.45 ± 0.79	1.69 ± 0.77	5.16 ± 0.85	4.41 ± 0.89	13.56 ± 1.58	n = 14	Mean of Above Means
						<Reagents>
1.20 ± 0.25	2.01 ± 0.35	6.33 ± 0.42	4.80 ± 0.38	16.18 ± 0.87	n = 14	Abbott
0.83 ± 0.20	1.38 ± 0.21	4.86 ± 0.48	3.94 ± 0.48	12.92 ± 1.06	n = 45	Beckman Coulter
0.97 ± 0.20	1.62 ± 0.26	4.77 ± 0.61	4.02 ± 0.38	13.86 ± 1.42	n = 20	Ortho Clinical Diagnostics
2.48 ± 0.49	3.05 ± 0.48	5.73 ± 0.42	5.35 ± 0.37	13.10 ± 0.96	n = 30	Roche Elecsys/Modular E/e601/e411
2.36 ± 0.32	1.02 ± 0.17	4.09 ± 0.47	3.10 ± 0.30	13.22 ± 1.64	n = 74	Siemens ADVIA/AD VIA Centaur
0.57 ± 0.05	0.73 ± 0.14	2.90 ± 0.18	1.37 ± 0.14	10.81 ± 0.92	n = 3	Siemens Dimension/Stratus
1.00 ± 0.00	1.36 ± 0.24	5.20 ± 0.73	4.07 ± 0.67	13.55 ± 1.58	n = 31	Siemens Immulite
1.16 ± 0.29	2.27 ± 0.24	4.93 ± 0.37	4.99 ± 0.41	13.18 ± 1.79	n = 6	Tosoh AIA
0.92 ± 0.77	0.96 ± 0.74	2.86 ± 0.26	1.45 ± 0.54	10.25 ± 0.54	n = 3	Reagent Not Listed
1.15 ± 0.59	1.52 ± 0.69	4.69 ± 1.16	3.82 ± 1.42	13.02 ± 1.57	n = 9	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

## Follitropin (FSH, mIU/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
17.32 ± 1.66	10.18 ± 1.84	11.37 ± 1.74	29.51 ± 4.87	56.33 ± 6.95	n = 190	All Methods & Instruments
17.40	10.30	11.60	29.70	56.00	n = 190	Median value, All Methods & Instruments
						<Instruments>
14.22 ± 0.95	8.75 ± 0.12	11.07 ± 0.16	25.37 ± 1.13	45.31 ± 1.98	n = 4	Abbott Architect
15.51 ± 1.15	9.48 ± 0.67	11.53 ± 0.74	27.34 ± 2.13	48.93 ± 4.07	n = 9	Abbott AxSym
17.52 ± 0.87	10.87 ± 0.45	13.58 ± 1.09	30.65 ± 1.71	55.07 ± 4.74	n = 10	Beckman Coulter ACCESS
16.67 ± 1.08	10.31 ± 0.53	12.69 ± 0.54	29.47 ± 1.84	52.14 ± 2.89	n = 19	Beckman Coulter UniCel DxI 800
13.86 ± 0.84	7.96 ± 0.55	8.98 ± 0.61	25.17 ± 1.87	45.03 ± 2.95	n = 8	Ortho Vitros ECi/ECiQ
16.20 ± 0.82	10.42 ± 0.52	12.14 ± 0.75	29.72 ± 1.52	51.73 ± 2.08	n = 8	Roche cobas e601
17.22 ± 0.99	11.09 ± 0.66	12.98 ± 0.65	31.58 ± 1.66	52.88 ± 2.73	n = 7	Roche Elecsys
16.10 ± 0.51	10.26 ± 0.41	12.12 ± 0.41	29.49 ± 1.10	51.19 ± 1.91	n = 8	Roche MODULAR E
18.10 ± 1.11	11.96 ± 0.66	11.77 ± 0.66	34.44 ± 2.22	62.93 ± 3.39	n = 55	Siemens ADVIA Centaur
18.54 ± 0.87	12.71 ± 0.31	12.31 ± 0.34	37.16 ± 0.69	65.75 ± 0.58	n = 4	Siemens ADVIA Centaur CP
17.51 ± 0.85	7.79 ± 0.54	8.93 ± 0.60	23.20 ± 1.37	56.04 ± 3.88	n = 12	Siemens Immulite 1000
18.40 ± 1.30	8.39 ± 0.58	9.43 ± 0.66	24.55 ± 1.82	56.88 ± 4.35	n = 27	Siemens Immulite 2000
17.73 ± 0.68	7.83 ± 0.23	8.84 ± 0.27	24.20 ± 0.56	54.53 ± 2.19	n = 6	Siemens Immulite 2500
17.55 ± 1.34	10.45 ± 0.65	14.45 ± 0.76	28.32 ± 2.25	51.68 ± 2.82	n = 4	Tosoh Bioscience
13.80 ± 0.33	8.29 ± 0.58	9.65 ± 0.98	25.36 ± 0.65	47.14 ± 3.65	n = 4	Reagent Not Listed
16.75 ± 1.62	9.73 ± 1.61	11.40 ± 1.89	28.04 ± 3.86	52.62 ± 5.44	n = 15	Mean of Above Means
						<Reagents>
15.08 ± 1.27	9.20 ± 0.66	11.32 ± 0.60	26.59 ± 2.05	47.68 ± 3.95	n = 13	Abbott
16.97 ± 1.12	10.48 ± 0.61	12.94 ± 0.83	29.85 ± 1.92	53.14 ± 3.92	n = 29	Beckman Coulter
13.86 ± 0.73	7.96 ± 0.48	9.00 ± 0.53	25.16 ± 1.63	44.69 ± 2.62	n = 10	Ortho Clinical Diagnostics
16.44 ± 0.88	10.54 ± 0.61	12.38 ± 0.70	30.16 ± 1.64	51.84 ± 2.22	n = 23	Roche Elecsys/Modular E/e601/e411
18.13 ± 1.10	12.02 ± 0.68	11.81 ± 0.66	34.66 ± 2.31	63.17 ± 3.36	n = 59	Siemens ADVIA/ADVIA Centaur
18.03 ± 1.17	8.12 ± 0.60	9.19 ± 0.65	24.17 ± 1.67	56.21 ± 3.91	n = 46	Siemens Immulite
18.11 ± 1.07	10.72 ± 0.50	14.77 ± 0.60	29.20 ± 1.99	52.95 ± 1.55	n = 3	Tosoh ST AIA
16.81 ± 1.62	9.88 ± 1.50	11.64 ± 2.01	28.35 ± 3.44	52.49 ± 5.55	n = 7	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

Free T4 (ng/dL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
0.40 ± 0.09	1.62 ± 0.40	1.98 ± 0.44	2.08 ± 0.33	2.05 ± 0.25	n = 254	All Methods & Instruments
0.40	1.60	2.00	2.10	2.00	n = 254	Median value, All Methods & Instruments
						<Instruments>
0.44 ± 0.06	1.24 ± 0.09	1.50 ± 0.11	1.73 ± 0.13	1.82 ± 0.09	n = 7	Abbott Architect
0.37 ± 0.05	1.08 ± 0.06	1.46 ± 0.08	1.53 ± 0.10	1.86 ± 0.08	n = 11	Abbott AxSym
0.37 ± 0.06	1.64 ± 0.09	2.12 ± 0.11	2.15 ± 0.13	2.09 ± 0.11	n = 21	Beckman Coulter ACCESS
0.38 ± 0.07	1.50 ± 0.13	1.98 ± 0.13	2.03 ± 0.19	1.96 ± 0.13	n = 20	Beckman Coulter UniCel DxI 800
0.40 ± 0.00	2.73 ± 0.11	3.36 ± 0.11	3.10 ± 0.11	2.63 ± 0.12	n = 13	Ortho Vitros ECi/ECiQ
0.50 ± 0.00	1.76 ± 0.10	2.10 ± 0.10	2.29 ± 0.09	2.37 ± 0.09	n = 10	Roche cobas e601
0.47 ± 0.05	1.68 ± 0.07	2.04 ± 0.10	2.20 ± 0.06	2.31 ± 0.11	n = 6	Roche Elecsys
0.48 ± 0.04	1.73 ± 0.10	2.11 ± 0.09	2.27 ± 0.10	2.31 ± 0.09	n = 16	Roche MODULAR E
0.36 ± 0.06	1.42 ± 0.09	1.70 ± 0.11	1.96 ± 0.12	1.94 ± 0.10	n = 69	Siemens ADVIA Centaur
0.31 ± 0.15	2.16 ± 0.43	2.51 ± 0.46	2.33 ± 0.40	1.88 ± 0.23	n = 28	Siemens Dimension
0.38 ± 0.04	1.28 ± 0.04	1.70 ± 0.00	1.55 ± 0.06	1.90 ± 0.00	n = 8	Siemens Dimension Vista
0.50 ± 0.00	2.02 ± 0.07	2.24 ± 0.35	2.08 ± 0.07	2.05 ± 0.11	n = 7	Siemens Immulite 1000
0.50 ± 0.00	2.05 ± 0.06	2.30 ± 0.46	2.16 ± 0.23	2.19 ± 0.11	n = 18	Siemens Immulite 2000
0.53 ± 0.08	2.10 ± 0.11	2.41 ± 0.11	2.22 ± 0.15	2.20 ± 0.08	n = 4	Siemens Immulite 2500
0.32 ± 0.07	2.05 ± 0.19	2.49 ± 0.18	2.56 ± 0.28	2.38 ± 0.25	n = 6	Tosoh Bioscience
0.42 ± 0.08	1.74 ± 0.42	2.09 ± 0.40	2.12 ± 0.33	2.11 ± 0.24	n = 15	Mean of Above Means
						<Reagents>
0.39 ± 0.06	1.13 ± 0.10	1.47 ± 0.08	1.61 ± 0.15	1.84 ± 0.08	n = 18	Abbott
0.37 ± 0.07	1.58 ± 0.13	2.05 ± 0.14	2.10 ± 0.17	2.03 ± 0.14	n = 41	Beckman Coulter
0.38 ± 0.04	2.74 ± 0.10	3.35 ± 0.11	3.10 ± 0.10	2.64 ± 0.11	n = 15	Ortho Clinical Diagnostics
0.49 ± 0.04	1.72 ± 0.09	2.09 ± 0.10	2.26 ± 0.10	2.33 ± 0.10	n = 33	Roche Elecsys/Modular E/e601/e411
0.36 ± 0.06	1.42 ± 0.09	1.70 ± 0.11	1.96 ± 0.12	1.94 ± 0.10	n = 70	Siemens ADVIA/ADVIA Centaur
0.33 ± 0.14	1.98 ± 0.55	2.35 ± 0.54	2.18 ± 0.49	1.88 ± 0.20	n = 34	Siemens Dimension/Stratus
0.50 ± 0.00	2.05 ± 0.07	2.36 ± 0.32	2.15 ± 0.19	2.16 ± 0.12	n = 29	Siemens Immulite
0.32 ± 0.08	2.01 ± 0.18	2.46 ± 0.20	2.52 ± 0.30	2.32 ± 0.24	n = 5	Tosoh ST AIA
0.46 ± 0.10	1.38 ± 0.24	1.78 ± 0.24	1.70 ± 0.36	2.12 ± 0.41	n = 3	Reagent Not Listed
0.40 ± 0.07	1.74 ± 0.44	2.11 ± 0.47	2.12 ± 0.39	2.12 ± 0.25	n = 9	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

Intact human Choriogonadotropin (intact hCG, mIU/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
1.2 ± 0.58	1.1 ± 0.64	43.1 ± 2.26	1.1 ± 0.66	40.3 ± 2.02	n = 66	All Methods & Instruments
1.0	1.0	43.0	1.0	41.0	n = 66	Median value, All Methods & Instruments
						<Instruments>
2.7 ± 3.62	2.4 ± 3.68	46.2 ± 2.80	2.1 ± 3.89	42.1 ± 2.04	n = 4	Roche Elecsys
1.2 ± 0.58	1.1 ± 0.65	43.0 ± 2.12	1.1 ± 0.65	40.2 ± 1.93	n = 59	Siemens Dimension
1.9 ± 0.86	1.7 ± 0.74	44.6 ± 1.83	1.6 ± 0.61	41.2 ± 1.09	n = 2	Mean of Above Means
						<Reagents>
2.7 ± 3.63	1.2 ± 0.41	45.6 ± 2.61	1.0 ± 0.75	42.1 ± 2.06	n = 5	Roche Elecsys/Modular E/e601/e411
1.2 ± 0.58	1.1 ± 0.65	43.0 ± 2.12	1.1 ± 0.65	40.2 ± 1.93	n = 59	Siemens Dimension/Stratus
1.9 ± 0.86	1.1 ± 0.05	44.3 ± 1.49	1.0 ± 0.04	41.2 ± 1.10	n = 2	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

## Intact Parathyrin (PTH, pg/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
3.20 ± 1.99	18.53 ± 2.89	3.15 ± 1.66	176.91 ± 31.93	61.88 ± 10.78	n = 159	All Methods & Instruments
3.00	18.20	3.00	175.00	63.00	n = 159	Median value, All Methods & Instruments
						<Instruments>
2.74 ± 1.37	42.43 ± 3.13	3.13 ± 0.69	395.69 ± 16.76	135.33 ± 5.61	n = 3	Abbott Architect
0.60 ± 0.52	16.47 ± 1.01	0.94 ± 0.10	164.61 ± 6.11	54.69 ± 3.07	n = 10	Beckman Coulter ACCESS
0.91 ± 0.76	15.73 ± 1.57	0.88 ± 0.28	160.28 ± 7.34	52.41 ± 3.15	n = 13	Beckman Coulter UniCel DxI 800
5.61 ± 0.64	17.25 ± 0.96	5.05 ± 0.76	138.96 ± 3.33	50.47 ± 1.89	n = 8	Roche cobas e601
6.71 ± 1.33	21.53 ± 2.38	5.98 ± 1.17	156.58 ± 11.95	53.64 ± 4.96	n = 14	Roche Elecsys
6.00 ± 0.00	17.14 ± 0.57	4.55 ± 0.72	134.64 ± 6.58	48.92 ± 2.44	n = 9	Roche MODULAR E
2.53 ± 0.27	20.14 ± 1.80	2.54 ± 0.31	208.81 ± 12.57	68.55 ± 4.20	n = 39	Siemens ADVIA Centaur
4.08 ± 1.23	15.70 ± 4.81	4.09 ± 1.09	162.49 ± 24.63	62.72 ± 9.30	n = 14	Siemens Immulite 1000
3.00 ± 0.00	18.66 ± 2.11	3.00 ± 0.00	186.98 ± 18.40	68.48 ± 7.20	n = 39	Siemens Immulite 2000
3.00 ± 0.00	20.68 ± 1.11	3.00 ± 0.00	187.59 ± 12.72	71.23 ± 3.45	n = 5	Siemens Immulite 2500
1.28 ± 0.51	13.58 ± 2.03	1.13 ± 0.69	119.39 ± 9.11	42.49 ± 4.40	n = 3	Tosoh Bioscience
3.22 ± 2.12	17.65 ± 2.56	3.10 ± 1.74	161.53 ± 26.91	57.14 ± 10.08	n = 11	Mean of Above Means
						<Reagents>
2.74 ± 1.37	42.43 ± 3.13	3.13 ± 0.69	395.69 ± 16.76	135.33 ± 5.61	n = 3	Abbott
0.74 ± 0.65	16.14 ± 1.37	0.93 ± 0.14	162.28 ± 7.09	53.40 ± 3.42	n = 23	Beckman Coulter
5.99 ± 0.89	18.83 ± 2.76	5.30 ± 1.12	143.58 ± 13.44	50.96 ± 3.85	n = 31	Roche Elecsys/Modular E/e601/e411
2.54 ± 0.28	20.21 ± 1.83	2.56 ± 0.33	209.19 ± 12.58	68.75 ± 4.45	n = 40	Siemens ADVIA/ADVIA Centaur
3.00 ± 0.00	18.55 ± 2.78	3.00 ± 0.00	182.74 ± 21.15	67.65 ± 7.63	n = 56	Siemens Immulite
1.28 ± 0.51	13.58 ± 2.03	1.13 ± 0.69	119.39 ± 9.11	42.49 ± 4.40	n = 3	Tosoh ST AIA
2.47 ± 1.58	17.66 ± 2.49	2.57 ± 1.49	163.21 ± 33.65	56.64 ± 11.25	n = 6	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

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

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
16.14 $\pm$ 7.75	159.45 $\pm$ 62.38	43.19 $\pm$ 19.45	33.45 $\pm$ 11.48	85.65 $\pm$ 30.27	n = 104	All Methods & Instruments
16.90	147.80	44.70	29.10	84.40	n = 104	Median value, All Methods & Instruments
<Instruments>						
18.73 $\pm$ 0.14	179.40 $\pm$ 3.99	48.12 $\pm$ 1.31	36.25 $\pm$ 0.54	93.02 $\pm$ 2.78	n = 3	Abbott Architect
17.40 $\pm$ 0.88	170.09 $\pm$ 12.37	48.04 $\pm$ 2.85	30.13 $\pm$ 1.33	92.52 $\pm$ 4.67	n = 7	Beckman Coulter UniCel DxI 800
22.25 $\pm$ 0.54	206.76 $\pm$ 3.27	54.76 $\pm$ 4.99	44.08 $\pm$ 0.15	106.03 $\pm$ 0.05	n = 3	Roche cobas e601
21.33 $\pm$ 2.11	204.49 $\pm$ 15.58	56.59 $\pm$ 4.26	43.63 $\pm$ 3.02	106.28 $\pm$ 2.90	n = 7	Roche Elecsys
22.06 $\pm$ 0.66	206.42 $\pm$ 5.61	57.99 $\pm$ 1.99	44.01 $\pm$ 1.58	104.97 $\pm$ 1.04	n = 6	Roche MODULAR E
25.78 $\pm$ 1.17	249.07 $\pm$ 11.61	69.41 $\pm$ 3.60	48.56 $\pm$ 2.49	131.65 $\pm$ 6.60	n = 18	Siemens ADVIA Centaur
7.18 $\pm$ 0.69	107.15 $\pm$ 8.86	25.07 $\pm$ 1.83	23.90 $\pm$ 1.48	62.14 $\pm$ 4.81	n = 9	Siemens Immulite 1000
9.78 $\pm$ 1.19	112.18 $\pm$ 8.90	27.42 $\pm$ 2.76	24.85 $\pm$ 1.06	62.18 $\pm$ 4.06	n = 34	Siemens Immulite 2000
12.69 $\pm$ 1.56	119.80 $\pm$ 14.12	29.53 $\pm$ 3.49	24.84 $\pm$ 1.42	63.62 $\pm$ 5.67	n = 7	Siemens Immulite 2500
25.73 $\pm$ 2.30	223.74 $\pm$ 14.91	67.76 $\pm$ 6.18	46.39 $\pm$ 4.40	117.43 $\pm$ 8.58	n = 4	Tosoh Bioscience
18.77 $\pm$ 6.53	180.09 $\pm$ 51.08	49.20 $\pm$ 16.60	36.99 $\pm$ 10.44	94.67 $\pm$ 24.85	n = 10	Mean of Above Means
<Reagents>						
18.73 $\pm$ 0.14	179.40 $\pm$ 3.99	48.12 $\pm$ 1.31	36.25 $\pm$ 0.54	93.02 $\pm$ 2.78	n = 3	Abbott
17.66 $\pm$ 0.88	169.50 $\pm$ 10.73	48.35 $\pm$ 2.52	30.67 $\pm$ 1.58	92.21 $\pm$ 3.89	n = 9	Beckman Coulter
22.10 $\pm$ 1.00	207.27 $\pm$ 7.17	57.46 $\pm$ 2.78	44.19 $\pm$ 1.45	105.73 $\pm$ 2.05	n = 16	Roche Elecsys/Modular E/e601/e411
25.78 $\pm$ 1.17	249.07 $\pm$ 11.61	69.41 $\pm$ 3.60	48.56 $\pm$ 2.49	131.65 $\pm$ 6.60	n = 18	Siemens ADVIA/ADVIA Centaur
9.63 $\pm$ 1.89	111.76 $\pm$ 9.55	27.19 $\pm$ 2.92	24.70 $\pm$ 1.26	62.34 $\pm$ 4.44	n = 50	Siemens Immulite
25.73 $\pm$ 2.30	223.74 $\pm$ 14.91	67.76 $\pm$ 6.18	46.39 $\pm$ 4.40	117.43 $\pm$ 8.58	n = 4	Tosoh ST AIA
20.52 $\pm$ 5.66	193.25 $\pm$ 45.42	54.24 $\pm$ 14.72	38.90 $\pm$ 9.50	101.43 $\pm$ 22.65	n = 6	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

Lutropin (LH, mIU/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
2.93 ± 0.47	5.65 ± 0.79	16.68 ± 2.37	3.56 ± 0.90	55.57 ± 7.07	n = 190	All Methods & Instruments
2.80	5.60	16.80	3.30	55.40	n = 190	Median value, All Methods & Instruments
<Instruments>						
2.22 ± 0.04	4.91 ± 0.11	13.67 ± 0.66	3.20 ± 0.08	42.01 ± 1.98	n = 4	Abbott Architect
2.69 ± 0.14	5.47 ± 0.30	15.66 ± 1.15	3.81 ± 0.22	52.53 ± 4.93	n = 9	Abbott AxSym
2.44 ± 0.08	4.74 ± 0.25	13.83 ± 0.54	2.64 ± 0.12	48.20 ± 1.82	n = 11	Beckman Coulter ACCESS
2.43 ± 0.15	4.63 ± 0.24	13.77 ± 0.83	2.66 ± 0.20	47.11 ± 3.14	n = 19	Beckman Coulter UniCel DxI 800
3.25 ± 0.14	5.48 ± 0.18	17.47 ± 0.65	3.23 ± 0.07	67.45 ± 2.43	n = 8	Ortho Vitros ECi/ECiQ
3.59 ± 0.19	6.66 ± 0.25	17.38 ± 0.47	4.48 ± 0.08	53.54 ± 2.26	n = 8	Roche cobas e601
3.17 ± 0.23	6.23 ± 0.33	16.27 ± 0.53	4.11 ± 0.17	50.19 ± 2.60	n = 7	Roche Elecsys
3.43 ± 0.17	6.46 ± 0.19	17.23 ± 0.46	4.25 ± 0.12	53.06 ± 1.69	n = 8	Roche MODULAR E
2.74 ± 0.17	5.42 ± 0.38	16.33 ± 1.12	3.05 ± 0.18	55.66 ± 3.42	n = 54	Siemens ADVIA Centaur
2.75 ± 0.23	5.55 ± 0.23	15.77 ± 0.59	3.19 ± 0.26	52.61 ± 3.81	n = 4	Siemens ADVIA Centaur CP
3.49 ± 0.15	6.68 ± 0.32	19.76 ± 0.95	5.01 ± 0.32	61.44 ± 2.64	n = 13	Siemens Immulite 1000
3.40 ± 0.25	6.28 ± 0.51	20.09 ± 1.34	4.55 ± 0.38	62.07 ± 4.00	n = 27	Siemens Immulite 2000
3.32 ± 0.19	6.28 ± 0.18	19.71 ± 0.80	4.81 ± 0.19	62.29 ± 1.12	n = 6	Siemens Immulite 2500
2.73 ± 0.09	5.45 ± 0.19	15.45 ± 0.52	3.35 ± 0.17	53.52 ± 1.79	n = 4	Tosoh Bioscience
2.98 ± 0.26	5.68 ± 0.96	37.50 ± 57.73	3.76 ± 0.99	62.84 ± 7.30	n = 4	Reagent Not Listed
2.98 ± 0.46	5.74 ± 0.70	16.52 ± 2.21	3.72 ± 0.80	54.87 ± 7.06	n = 15	Mean of Above Means
<Reagents>						
2.57 ± 0.27	5.29 ± 0.38	15.04 ± 1.42	3.63 ± 0.37	49.39 ± 6.81	n = 13	Abbott
2.44 ± 0.12	4.67 ± 0.26	13.81 ± 0.71	2.65 ± 0.17	47.58 ± 2.74	n = 30	Beckman Coulter
3.24 ± 0.12	5.40 ± 0.24	17.25 ± 0.77	3.20 ± 0.10	66.72 ± 2.68	n = 10	Ortho Clinical Diagnostics
3.39 ± 0.26	6.43 ± 0.33	16.93 ± 0.75	4.26 ± 0.23	52.53 ± 2.92	n = 23	Roche Elecsys/Modular E/e601/e411
2.74 ± 0.17	5.43 ± 0.37	16.28 ± 1.10	3.06 ± 0.19	55.45 ± 3.51	n = 58	Siemens ADVIA/ADVIA Centaur
3.42 ± 0.21	6.40 ± 0.46	19.94 ± 1.20	4.72 ± 0.42	61.96 ± 3.16	n = 46	Siemens Immulite
2.70 ± 0.09	5.37 ± 0.14	15.26 ± 0.47	3.28 ± 0.15	52.82 ± 1.41	n = 3	Tosoh ST AIA
2.92 ± 0.42	5.54 ± 0.62	16.19 ± 1.81	3.49 ± 0.70	54.57 ± 6.63	n = 7	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

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

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
1.20 $\pm$ 0.17	3.32 $\pm$ 0.46	8.96 $\pm$ 1.28	2.97 $\pm$ 0.67	52.51 $\pm$ 8.72	n = 175	All Methods & Instruments
1.20	3.30	8.70	3.10	51.00	n = 175	Median value, All Methods & Instruments
<Instruments>						
1.30 $\pm$ 0.09	4.35 $\pm$ 0.19	11.53 $\pm$ 0.42	3.67 $\pm$ 0.14	65.78 $\pm$ 2.97	n = 3	Abbott Architect
1.45 $\pm$ 0.11	4.24 $\pm$ 0.11	11.71 $\pm$ 0.66	4.09 $\pm$ 0.14	64.51 $\pm$ 4.86	n = 7	Abbott AxSym
1.07 $\pm$ 0.05	3.28 $\pm$ 0.05	8.78 $\pm$ 0.20	2.33 $\pm$ 0.07	48.31 $\pm$ 2.23	n = 10	Beckman Coulter ACCESS
1.01 $\pm$ 0.08	3.25 $\pm$ 0.17	8.52 $\pm$ 0.54	2.26 $\pm$ 0.12	49.04 $\pm$ 3.49	n = 19	Beckman Coulter UniCel DxI 800
2.01 $\pm$ 0.71	5.17 $\pm$ 0.43	11.31 $\pm$ 0.65	4.06 $\pm$ 0.48	51.24 $\pm$ 1.25	n = 7	Ortho Vitros ECi/ECiQ
1.28 $\pm$ 0.05	3.76 $\pm$ 0.17	10.49 $\pm$ 0.70	3.50 $\pm$ 0.13	62.73 $\pm$ 3.17	n = 7	Roche cobas e601
1.25 $\pm$ 0.06	3.72 $\pm$ 0.17	10.41 $\pm$ 0.42	3.48 $\pm$ 0.14	61.54 $\pm$ 3.19	n = 8	Roche Elecsys
1.22 $\pm$ 0.05	3.73 $\pm$ 0.13	10.66 $\pm$ 0.39	3.44 $\pm$ 0.17	63.33 $\pm$ 1.96	n = 7	Roche MODULAR E
1.25 $\pm$ 0.12	3.30 $\pm$ 0.21	8.20 $\pm$ 0.45	3.21 $\pm$ 0.19	45.62 $\pm$ 3.22	n = 58	Siemens ADVIA Centaur
1.55 $\pm$ 0.06	3.57 $\pm$ 0.16	8.24 $\pm$ 0.34	3.53 $\pm$ 0.16	43.30 $\pm$ 6.11	n = 4	Siemens ADVIA Centaur CP
1.16 $\pm$ 0.10	2.94 $\pm$ 0.24	9.84 $\pm$ 0.52	2.40 $\pm$ 0.17	64.00 $\pm$ 3.79	n = 10	Siemens Immulite 1000
1.07 $\pm$ 0.09	2.77 $\pm$ 0.18	8.69 $\pm$ 0.52	2.23 $\pm$ 0.18	56.89 $\pm$ 3.54	n = 22	Siemens Immulite 2000
1.16 $\pm$ 0.18	2.76 $\pm$ 0.06	8.57 $\pm$ 0.56	2.27 $\pm$ 0.12	59.28 $\pm$ 3.95	n = 6	Siemens Immulite 2500
1.28 $\pm$ 0.24	3.99 $\pm$ 0.52	6.05 $\pm$ 0.81	3.23 $\pm$ 0.42	7.80 $\pm$ 1.00	n = 3	Tosoh Bioscience
1.23 $\pm$ 0.15	3.57 $\pm$ 0.62	9.56 $\pm$ 1.61	3.14 $\pm$ 0.72	57.00 $\pm$ 8.53	n = 14	Mean of Above Means
<Reagents>						
1.41 $\pm$ 0.13	4.26 $\pm$ 0.15	11.66 $\pm$ 0.60	3.97 $\pm$ 0.24	64.98 $\pm$ 4.25	n = 10	Abbott
1.03 $\pm$ 0.07	3.26 $\pm$ 0.13	8.63 $\pm$ 0.45	2.29 $\pm$ 0.10	48.76 $\pm$ 3.11	n = 29	Beckman Coulter
1.84 $\pm$ 0.69	4.99 $\pm$ 0.50	11.11 $\pm$ 0.65	3.93 $\pm$ 0.47	50.74 $\pm$ 1.49	n = 9	Ortho Clinical Diagnostics
1.25 $\pm$ 0.06	3.74 $\pm$ 0.16	10.53 $\pm$ 0.51	3.47 $\pm$ 0.15	62.56 $\pm$ 2.95	n = 21	Roche Elecsys/Modular E/e601/e411
1.27 $\pm$ 0.14	3.32 $\pm$ 0.22	8.20 $\pm$ 0.44	3.23 $\pm$ 0.21	45.61 $\pm$ 3.47	n = 62	Siemens ADVIA/ADVIA Centaur
1.10 $\pm$ 0.10	2.81 $\pm$ 0.19	8.94 $\pm$ 0.74	2.28 $\pm$ 0.18	59.20 $\pm$ 4.91	n = 38	Siemens Immulite
1.28 $\pm$ 0.24	3.99 $\pm$ 0.52	6.05 $\pm$ 0.81	3.23 $\pm$ 0.42	7.80 $\pm$ 1.00	n = 3	Tosoh ST AIA
1.26 $\pm$ 0.20	3.73 $\pm$ 0.70	9.39 $\pm$ 1.90	3.24 $\pm$ 0.69	55.18 $\pm$ 8.44	n = 7	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

Progesterone (ng/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
5.17 ± 0.81	18.76 ± 3.92	12.37 ± 2.37	18.07 ± 3.43	20.05 ± 3.12	n = 153	All Methods & Instruments
5.00	18.30	11.90	17.90	20.90	n = 153	Median value, All Methods & Instruments
<Instruments>						
5.59 ± 0.60	17.37 ± 2.03	11.30 ± 1.38	19.14 ± 1.83	20.82 ± 2.76	n = 4	Abbott AxSym
5.49 ± 0.51	18.67 ± 0.96	12.37 ± 0.56	17.03 ± 1.38	20.81 ± 1.28	n = 9	Beckman Coulter ACCESS
5.67 ± 0.82	20.21 ± 2.85	13.59 ± 1.60	17.69 ± 1.60	21.90 ± 1.62	n = 14	Beckman Coulter UniCel DxI 800
4.75 ± 0.81	17.36 ± 2.63	12.00 ± 1.37	16.80 ± 2.01	18.34 ± 1.48	n = 3	Gamma Counter
5.38 ± 0.20	16.63 ± 0.83	10.30 ± 0.68	20.50 ± 1.54	18.66 ± 0.95	n = 4	LC/MS/MS
3.67 ± 0.49	12.87 ± 1.36	8.80 ± 0.51	12.70 ± 0.92	15.73 ± 0.74	n = 5	Ortho Vitros Eci/ECiQ
4.63 ± 0.14	17.96 ± 0.29	11.26 ± 0.40	18.06 ± 0.32	21.40 ± 0.56	n = 5	Roche cobas e601
4.83 ± 0.24	18.52 ± 0.42	11.72 ± 0.47	18.12 ± 0.52	21.67 ± 0.79	n = 6	Roche Elecsys
4.57 ± 0.17	17.90 ± 0.80	11.52 ± 0.48	17.79 ± 0.61	21.44 ± 0.78	n = 9	Roche MODULAR E
5.82 ± 0.33	23.04 ± 1.00	14.98 ± 1.00	21.74 ± 1.10	22.18 ± 1.13	n = 44	Siemens ADVIA Centaur
5.75 ± 0.19	21.32 ± 0.32	14.57 ± 0.51	19.93 ± 0.50	20.40 ± 1.00	n = 3	Siemens ADVIA Centaur CP
4.62 ± 0.48	14.29 ± 1.28	10.12 ± 0.81	13.26 ± 1.01	16.48 ± 1.00	n = 10	Siemens Immulite 1000
4.55 ± 0.34	15.06 ± 0.60	10.47 ± 0.49	15.01 ± 0.82	15.97 ± 0.86	n = 23	Siemens Immulite 2000
4.78 ± 0.27	16.61 ± 1.38	10.76 ± 1.07	17.45 ± 1.34	17.82 ± 1.82	n = 6	Siemens Immulite 2500
5.03 ± 0.62	17.64 ± 2.59	11.56 ± 1.66	17.67 ± 2.46	19.71 ± 2.42	n = 14	Mean of Above Means
<Reagents>						
5.74 ± 0.55	17.99 ± 2.14	11.72 ± 1.47	19.83 ± 2.15	21.25 ± 2.52	n = 5	Abbott
5.59 ± 0.71	19.36 ± 2.23	12.95 ± 1.32	17.43 ± 1.57	21.42 ± 1.61	n = 23	Beckman Coulter
5.38 ± 0.20	16.63 ± 0.83	10.30 ± 0.68	20.50 ± 1.54	18.66 ± 0.95	n = 4	In-House
3.61 ± 0.43	12.93 ± 1.23	8.82 ± 0.46	12.70 ± 0.80	15.93 ± 0.80	n = 6	Ortho Clinical Diagnostics
4.66 ± 0.21	18.14 ± 0.67	11.52 ± 0.49	18.01 ± 0.59	21.51 ± 0.77	n = 20	Roche Elecsys/Modular E/e601/e411
5.81 ± 0.32	22.94 ± 1.09	14.94 ± 0.97	21.63 ± 1.19	22.07 ± 1.21	n = 47	Siemens ADVIA/ADVIA Centaur
4.61 ± 0.38	15.04 ± 0.97	10.42 ± 0.68	14.80 ± 1.50	16.22 ± 1.02	n = 39	Siemens Immulite
5.14 ± 0.76	17.48 ± 3.02	11.40 ± 1.88	18.04 ± 3.15	19.78 ± 2.67	n = 7	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

## Qualitative hCG report:

[AB1] Abbott	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	2	2	0	2	1
Indeterminant	0	0	0	0	0
Positive	0	0	2	0	1
[AD1] American Diagnostics	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	2	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	0	0	2	0	2
[BC1] Beckman Coulter	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	40	40	0	39	0
Indeterminant	0	0	0	0	0
Positive	0	0	40	1	40
[CD1] Cardinal Health	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	7	7	0	7	0
Indeterminant	0	0	0	0	0
Positive	0	0	7	0	7
[FI1] Fisher	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	47	47	0	47	0
Indeterminant	0	0	0	0	0
Positive	0	0	47	0	47
[GZ1] Genzyme	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	11	11	0	11	0
Indeterminant	0	0	0	0	0
Positive	0	0	11	0	11
[IM1] Inverness Medical	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	5	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	0	0	5	0	5

## Statistical Summary (Mean and Standard Deviation)

	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
[JP1] Jant Pharmacal					
Negative	2	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	0	0	2	0	2
[JJ1] Ortho Clinical Diagnostics					
Negative	2	2	0	2	0
Indeterminant	0	0	0	0	0
Positive	0	0	2	0	2
[PM1] Polymedco					
Negative	5	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	0	0	5	0	5
[QQ2] Quidel QuickVue One-Step hCG Combo					
Negative	19	19	0	19	0
Indeterminant	0	0	0	0	0
Positive	0	0	19	0	19
[QQ1] Quidel QuickVue+ One-Step hCG Combo					
Negative	18	18	0	18	0
Indeterminant	0	0	0	0	0
Positive	0	0	18	0	18
[RO2] Roche Hitachi and Modular D/P					
Negative	3	3	0	3	0
Indeterminant	0	0	0	0	0
Positive	0	0	3	0	3
[RO1] Roche Integra and MIRA					
Negative	3	3	0	3	0
Indeterminant	0	0	0	0	0
Positive	0	0	3	0	3

## Statistical Summary (Mean and Standard Deviation)

[BY1] Siemens ADVIA/ADVIA Centaur	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	20	22	0	22	0
Indeterminant	2	0	0	0	0
Positive	0	0	22	0	22
[DA1] Siemens Dimension/Stratus	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	10	10	0	10	0
Indeterminant	0	0	0	0	0
Positive	0	0	10	0	10
[DP5] Siemens Immulite	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	5	5	0	5	0
Indeterminant	0	0	0	0	0
Positive	0	0	5	0	5
[SB1] Stanbio	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	15	15	0	15	0
Indeterminant	0	0	0	0	0
Positive	0	0	15	0	15
[ZZZ] Reagent Not Listed	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	25	25	0	25	0
Indeterminant	0	0	0	0	0
Positive	0	0	25	0	25
[---] All Methods & Instruments	Specimen:E41	Specimen:E42	Specimen:E43	Specimen:E44	Specimen:E45
Negative	241	243	0	242	1
Indeterminant	2	0	0	0	0
Positive	0	0	243	1	242

## Statistical Summary (Mean and Standard Deviation)

## Triiodothyronine (T3, ng/dL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
53.9 ± 12.36	86.9 ± 13.29	113.5 ± 19.49	190.9 ± 22.69	172.3 ± 21.66	n = 198	All Methods & Instruments
53.0	88.0	116.0	191.0	173.0	n = 198	Median value, All Methods & Instruments
<Instruments>						
52.4 ± 3.66	60.4 ± 4.82	88.1 ± 4.23	173.5 ± 4.37	158.4 ± 5.81	n = 6	Abbott Architect
58.1 ± 9.66	73.0 ± 12.84	91.8 ± 11.40	165.7 ± 11.37	158.4 ± 11.45	n = 11	Abbott AxSym
58.4 ± 7.05	77.3 ± 7.95	93.6 ± 8.96	173.0 ± 8.46	146.4 ± 9.63	n = 14	Beckman Coulter ACCESS
59.7 ± 7.69	72.6 ± 8.43	89.5 ± 10.07	161.0 ± 9.58	138.4 ± 11.57	n = 20	Beckman Coulter UniCel DxI 800
56.7 ± 3.20	91.6 ± 2.27	116.3 ± 3.49	189.8 ± 3.36	175.7 ± 2.83	n = 6	Ortho Vitros ECi/ECiQ
76.2 ± 6.11	95.3 ± 5.82	124.5 ± 7.28	190.0 ± 10.32	180.5 ± 7.19	n = 8	Roche cobas e601
77.5 ± 5.00	99.5 ± 6.29	131.5 ± 8.61	188.0 ± 13.90	180.2 ± 9.14	n = 5	Roche Elecsys
75.6 ± 5.10	95.9 ± 6.73	127.6 ± 7.68	192.3 ± 10.15	182.1 ± 8.96	n = 13	Roche MODULAR E
50.8 ± 6.07	92.6 ± 7.56	126.3 ± 13.38	205.6 ± 11.17	190.7 ± 14.61	n = 61	Siemens ADVIA Centaur
45.3 ± 12.40	67.4 ± 14.17	95.9 ± 13.40	174.4 ± 15.48	165.7 ± 8.16	n = 11	Siemens Dimension
39.5 ± 4.86	71.5 ± 1.71	95.6 ± 14.23	174.2 ± 7.21	163.2 ± 6.42	n = 4	Siemens Dimension Vista
43.2 ± 4.12	86.2 ± 6.18	114.8 ± 8.24	224.1 ± 5.77	172.6 ± 17.19	n = 7	Siemens Immulite 1000
42.7 ± 4.55	91.5 ± 4.29	114.7 ± 7.19	206.1 ± 10.86	165.6 ± 10.91	n = 18	Siemens Immulite 2000
49.9 ± 3.72	104.5 ± 10.83	121.8 ± 3.23	235.7 ± 9.49	174.4 ± 11.78	n = 3	Siemens Immulite 2500
49.3 ± 5.02	76.7 ± 6.55	102.4 ± 7.78	167.2 ± 10.77	157.3 ± 10.28	n = 5	Tosoh Bioscience
54.4 ± 12.14	84.0 ± 13.88	109.0 ± 16.78	185.4 ± 20.94	168.0 ± 14.01	n = 15	Mean of Above Means
<Reagents>						
55.4 ± 7.65	67.2 ± 11.07	89.6 ± 7.92	169.5 ± 8.88	158.4 ± 9.26	n = 17	Abbott
59.2 ± 7.45	74.7 ± 8.42	91.4 ± 9.52	166.3 ± 11.03	142.1 ± 11.11	n = 34	Beckman Coulter
57.1 ± 3.10	92.1 ± 2.21	116.6 ± 3.27	190.6 ± 3.71	176.6 ± 3.66	n = 7	Ortho Clinical Diagnostics
75.9 ± 5.34	96.0 ± 6.28	127.2 ± 7.77	189.5 ± 11.48	181.1 ± 8.07	n = 27	Roche Elecsys/Modular E/e601/e411
50.4 ± 6.34	92.4 ± 7.66	126.2 ± 13.13	205.0 ± 11.75	190.4 ± 14.39	n = 63	Siemens ADVIA/ADVIA Centaur
43.0 ± 10.94	69.0 ± 11.20	95.8 ± 13.65	174.4 ± 13.45	165.1 ± 7.85	n = 15	Siemens Dimension/Stratus
43.7 ± 5.01	90.8 ± 6.01	115.6 ± 7.53	213.5 ± 14.92	167.7 ± 12.90	n = 28	Siemens Immulite
39.3 ± 19.94	62.3 ± 32.02	82.6 ± 41.96	137.4 ± 67.16	128.5 ± 63.81	n = 4	Tosoh ST AIA
51.8 ± 10.78	80.8 ± 14.26	105.6 ± 18.47	182.0 ± 23.23	165.2 ± 19.92	n = 8	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

## Thyroxin (T4, µg/dL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
2.28 ± 0.51	5.04 ± 0.59	7.09 ± 0.64	8.51 ± 0.94	10.95 ± 0.77	n = 244	All Methods & Instruments
2.20	5.00	7.00	8.50	10.90	n = 244	Median value, All Methods & Instruments
<Instruments>						
2.93 ± 0.38	4.80 ± 0.24	6.70 ± 0.45	8.37 ± 0.68	10.23 ± 0.71	n = 7	Abbott Architect
2.88 ± 0.56	4.87 ± 0.64	6.85 ± 0.47	7.87 ± 0.68	10.87 ± 0.23	n = 13	Abbott AxSym
1.94 ± 0.17	5.66 ± 0.44	7.77 ± 0.45	9.50 ± 0.78	11.35 ± 0.76	n = 20	Beckman Coulter ACCESS
2.55 ± 0.39	5.21 ± 0.42	7.27 ± 0.45	8.86 ± 0.44	11.53 ± 0.84	n = 11	Beckman Coulter AU Chemistry System
1.82 ± 0.24	5.71 ± 0.55	7.62 ± 0.61	9.34 ± 0.46	11.04 ± 0.67	n = 24	Beckman Coulter UniCel DxI 800
2.26 ± 0.10	4.38 ± 0.24	5.94 ± 0.10	7.21 ± 0.29	10.57 ± 0.69	n = 3	Gamma Counter
2.12 ± 0.12	4.65 ± 0.28	6.69 ± 0.39	8.41 ± 0.51	10.53 ± 0.66	n = 12	Ortho Vitros Eci/ECiQ
3.02 ± 0.19	4.73 ± 0.24	6.60 ± 0.24	7.87 ± 0.50	11.02 ± 0.74	n = 8	Roche cobas e601
2.84 ± 0.10	4.59 ± 0.20	6.45 ± 0.27	7.71 ± 0.37	10.55 ± 0.54	n = 3	Roche Elecsys
3.17 ± 0.51	4.80 ± 0.73	6.80 ± 0.82	8.44 ± 0.47	11.00 ± 0.55	n = 3	Roche MODULAR D/P
2.93 ± 0.13	4.67 ± 0.17	6.60 ± 0.31	7.99 ± 0.33	10.84 ± 0.48	n = 14	Roche MODULAR E
2.10 ± 0.32	4.80 ± 0.36	6.92 ± 0.45	7.75 ± 0.45	10.64 ± 0.53	n = 58	Siemens ADVIA Centaur
2.56 ± 0.47	5.66 ± 0.40	7.57 ± 0.43	9.29 ± 0.43	11.71 ± 0.54	n = 22	Siemens Dimension
3.18 ± 0.56	6.39 ± 0.30	8.67 ± 0.85	11.32 ± 0.88	14.05 ± 0.77	n = 5	Siemens Dimension Vista
1.89 ± 0.20	4.93 ± 0.39	7.18 ± 0.59	9.39 ± 0.79	11.56 ± 0.83	n = 9	Siemens Immulite 1000
2.08 ± 0.28	4.87 ± 0.43	7.13 ± 0.55	8.99 ± 0.39	10.91 ± 0.68	n = 17	Siemens Immulite 2000
1.87 ± 0.14	4.97 ± 0.31	7.44 ± 0.39	9.03 ± 0.14	11.17 ± 0.34	n = 3	Siemens Immulite 2500
2.22 ± 0.13	5.06 ± 0.23	7.09 ± 0.26	8.32 ± 0.43	10.05 ± 0.36	n = 7	Tosoh Bioscience
2.46 ± 0.52	4.94 ± 0.42	7.02 ± 0.53	8.53 ± 0.80	10.92 ± 0.47	n = 18	Mean of Above Means
<Reagents>						
2.90 ± 0.50	4.83 ± 0.52	6.80 ± 0.46	8.05 ± 0.72	10.74 ± 0.56	n = 20	Abbott
1.89 ± 0.22	5.69 ± 0.49	7.69 ± 0.55	9.39 ± 0.62	11.18 ± 0.72	n = 44	Beckman Coulter
2.87 ± 0.66	4.95 ± 0.62	7.00 ± 0.55	8.53 ± 0.42	11.26 ± 0.98	n = 6	Microgenics CEDIA
2.58 ± 0.30	5.25 ± 0.41	7.36 ± 0.47	8.98 ± 0.43	11.48 ± 0.70	n = 8	Microgenics DRI
2.13 ± 0.11	4.62 ± 0.28	6.68 ± 0.38	8.37 ± 0.50	10.49 ± 0.61	n = 14	Ortho Clinical Diagnostics
2.94 ± 0.15	4.67 ± 0.20	6.56 ± 0.30	7.88 ± 0.41	10.83 ± 0.55	n = 27	Roche Elecsys/Modular E/e601/e411
2.11 ± 0.32	4.81 ± 0.37	6.93 ± 0.47	7.76 ± 0.47	10.65 ± 0.55	n = 59	Siemens ADVIA/ADVIA Centaur
2.66 ± 0.54	5.78 ± 0.48	7.67 ± 0.53	9.43 ± 0.66	11.90 ± 0.86	n = 27	Siemens Dimension/Stratus
1.99 ± 0.26	4.90 ± 0.41	7.18 ± 0.55	9.10 ± 0.55	11.12 ± 0.74	n = 29	Siemens Immulite
2.24 ± 0.17	5.06 ± 0.21	7.17 ± 0.27	8.41 ± 0.46	10.04 ± 0.44	n = 5	Tosoh ST AIA
2.43 ± 0.43	5.00 ± 0.38	7.09 ± 0.39	8.58 ± 0.63	10.97 ± 0.52	n = 10	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

Total Beta hCG (mIU/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
2.0 ± 1.76	1.4 ± 1.24	61.7 ± 8.55	1.4 ± 1.21	53.8 ± 7.69	n = 242	All Methods & Instruments
1.0	1.0	63.0	1.0	55.0	n = 242	Median value, All Methods & Instruments
						<Instruments>
1.0 ± 0.00	1.0 ± 0.00	52.8 ± 3.52	1.0 ± 0.00	48.3 ± 2.51	n = 9	Abbott Architect
1.6 ± 0.57	1.4 ± 1.50	80.4 ± 4.73	1.4 ± 1.50	70.4 ± 5.81	n = 8	Abbott AxSym
2.2 ± 2.13	2.1 ± 2.25	65.2 ± 2.98	2.1 ± 2.25	56.6 ± 2.77	n = 37	Beckman Coulter ACCESS
1.2 ± 0.49	1.0 ± 0.66	65.8 ± 4.13	1.0 ± 0.50	57.1 ± 3.74	n = 23	Beckman Coulter UniCel DxI 800
1.9 ± 1.63	1.8 ± 1.70	55.4 ± 2.56	1.8 ± 1.70	50.0 ± 2.21	n = 19	Ortho Vitros ECi/ECiQ
0.5 ± 0.57	0.5 ± 0.57	64.0 ± 0.82	0.5 ± 0.57	57.4 ± 0.61	n = 9	Roche cobas e601
0.7 ± 0.77	0.5 ± 0.76	67.7 ± 1.16	0.5 ± 0.76	60.2 ± 3.37	n = 8	Roche Elecsys
0.8 ± 0.70	0.8 ± 0.70	64.9 ± 1.09	0.8 ± 0.70	57.9 ± 2.14	n = 14	Roche MODULAR E
3.8 ± 1.23	2.0 ± 0.00	56.4 ± 3.88	2.0 ± 0.00	48.1 ± 2.79	n = 59	Siemens ADVIA Centaur
3.2 ± 0.41	2.0 ± 0.00	59.2 ± 3.82	2.0 ± 0.00	47.0 ± 2.88	n = 4	Siemens ADVIA Centaur CP
1.0 ± 0.00	1.0 ± 0.00	55.6 ± 0.98	1.0 ± 0.00	49.1 ± 0.78	n = 11	Siemens Dimension Vista
1.0 ± 0.00	1.0 ± 0.00	77.2 ± 7.07	1.0 ± 0.00	72.3 ± 3.77	n = 8	Siemens Immulite 1000
1.0 ± 0.00	1.0 ± 0.00	94.3 ± 3.50	1.0 ± 0.00	84.8 ± 6.19	n = 18	Siemens Immulite 2000
1.0 ± 0.00	1.0 ± 0.00	71.0 ± 8.16	1.0 ± 0.00	66.8 ± 7.69	n = 3	Siemens Immulite 2500
1.3 ± 0.51	1.3 ± 0.51	65.5 ± 2.74	1.3 ± 0.51	58.2 ± 2.36	n = 3	Tosoh Bioscience
1.2 ± 0.56	1.2 ± 0.55	64.6 ± 9.37	1.2 ± 0.55	57.5 ± 9.76	n = 15	Mean of Above Means
						<Reagents>
1.2 ± 0.57	1.1 ± 0.84	65.0 ± 16.24	1.1 ± 0.84	57.8 ± 13.24	n = 17	Abbott
1.8 ± 1.78	1.7 ± 1.92	65.4 ± 3.36	1.7 ± 1.90	56.8 ± 3.04	n = 62	Beckman Coulter
1.9 ± 1.49	1.8 ± 1.57	55.3 ± 2.61	1.8 ± 1.57	50.0 ± 2.22	n = 21	Ortho Clinical Diagnostics
0.7 ± 0.67	0.7 ± 0.69	65.2 ± 2.08	0.7 ± 0.69	58.1 ± 2.02	n = 32	Roche Elecsys/Modular E/e601/e411
3.8 ± 1.20	2.0 ± 0.00	56.6 ± 3.92	2.0 ± 0.00	48.0 ± 2.81	n = 63	Siemens ADVIA/ADVIA Centaur
1.0 ± 0.00	1.0 ± 0.00	55.6 ± 1.60	1.0 ± 0.00	48.5 ± 3.84	n = 11	Siemens Dimension/Stratus
1.0 ± 0.00	1.0 ± 0.00	87.7 ± 11.55	1.0 ± 0.00	79.5 ± 9.52	n = 29	Siemens Immulite
1.3 ± 0.51	1.3 ± 0.51	65.5 ± 2.74	1.3 ± 0.51	58.2 ± 2.36	n = 3	Tosoh ST AIA
1.6 ± 1.02	1.6 ± 1.02	55.7 ± 0.51	1.6 ± 1.02	49.3 ± 0.51	n = 3	Reagent Not Listed
1.3 ± 0.43	1.3 ± 0.46	60.8 ± 5.90	1.3 ± 0.46	53.5 ± 5.41	n = 9	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

## Testosterone (ng/dL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
87.85 ± 21.26	207.17 ± 47.81	154.49 ± 38.18	254.94 ± 37.94	195.92 ± 27.86	n = 146	All Methods & Instruments
88.00	196.00	151.10	253.00	196.10	n = 146	Median value, All Methods & Instruments
<Instruments>						
65.09 ± 6.24	131.90 ± 15.60	107.63 ± 4.54	134.66 ± 12.99	153.52 ± 6.53	n = 3	Abbott AxSym
78.45 ± 7.93	188.12 ± 9.21	137.80 ± 5.81	222.06 ± 10.50	182.94 ± 10.83	n = 8	Beckman Coulter ACCESS
74.74 ± 4.42	181.74 ± 11.46	132.06 ± 9.07	216.84 ± 10.83	174.85 ± 11.07	n = 15	Beckman Coulter UniCel DxI 800
76.04 ± 3.51	189.11 ± 20.90	138.90 ± 14.21	239.60 ± 15.16	197.55 ± 12.50	n = 7	Gamma Counter
100.64 ± 9.87	176.04 ± 12.50	134.23 ± 10.10	244.75 ± 21.12	202.32 ± 11.80	n = 6	LC/MS/MS
57.77 ± 10.76	242.77 ± 10.27	162.91 ± 9.78	257.59 ± 16.15	185.23 ± 16.36	n = 4	Ortho Vitros ECi/ECiQ
67.09 ± 12.46	227.26 ± 27.67	148.81 ± 25.15	273.07 ± 31.27	196.43 ± 22.57	n = 4	Roche cobas e601
60.38 ± 7.63	212.51 ± 18.48	146.81 ± 12.77	273.41 ± 20.32	193.53 ± 11.00	n = 12	Roche Elecsys
72.04 ± 3.90	237.80 ± 9.61	163.96 ± 5.65	289.90 ± 9.90	206.82 ± 9.16	n = 7	Roche MODULAR E
102.36 ± 9.72	188.95 ± 15.14	150.83 ± 12.09	252.59 ± 22.34	189.77 ± 13.82	n = 44	Siemens ADVIA Centaur
113.99 ± 6.26	352.50 ± 43.69	267.71 ± 33.49	333.89 ± 16.15	294.47 ± 30.05	n = 6	Siemens Immulite 1000
98.87 ± 16.15	302.04 ± 22.92	243.41 ± 16.89	283.35 ± 30.40	254.25 ± 25.35	n = 20	Siemens Immulite 2000
90.90 ± 4.00	312.02 ± 39.55	252.07 ± 45.57	277.53 ± 27.19	226.75 ± 16.84	n = 3	Siemens Immulite 2500
46.59 ± 6.81	164.91 ± 19.72	104.07 ± 11.66	180.35 ± 18.90	151.06 ± 22.01	n = 3	Tosoh Bioscience
78.28 ± 20.17	214.81 ± 59.86	154.04 ± 47.04	253.68 ± 43.69	194.04 ± 29.69	n = 14	Mean of Above Means
<Reagents>						
65.09 ± 6.24	131.90 ± 15.60	107.63 ± 4.54	134.66 ± 12.99	153.52 ± 6.53	n = 3	Abbott
76.07 ± 6.44	184.31 ± 10.90	134.54 ± 8.20	218.79 ± 10.88	177.83 ± 11.42	n = 23	Beckman Coulter
102.96 ± 10.86	178.89 ± 13.52	135.88 ± 8.32	245.11 ± 19.00	203.86 ± 10.39	n = 7	In-House
57.77 ± 10.76	242.77 ± 10.27	162.91 ± 9.78	257.59 ± 16.15	185.23 ± 16.36	n = 4	Ortho Clinical Diagnostics
65.68 ± 9.72	223.24 ± 21.60	154.46 ± 14.31	279.66 ± 17.20	199.16 ± 12.94	n = 22	Roche Elecsys/Modular E/e601/e411
102.14 ± 9.69	189.12 ± 14.95	150.99 ± 11.93	252.29 ± 22.08	189.85 ± 13.62	n = 45	Siemens ADVIA/ADVIA Centaur
74.81 ± 3.79	188.29 ± 10.51	138.62 ± 7.24	236.14 ± 7.41	199.45 ± 8.65	n = 5	Siemens Coat-A-Count
101.65 ± 15.77	308.57 ± 31.72	246.85 ± 25.51	293.63 ± 35.99	258.34 ± 31.53	n = 29	Siemens Immulite
46.59 ± 6.81	164.91 ± 19.72	104.07 ± 11.66	180.35 ± 18.90	151.06 ± 22.01	n = 3	Tosoh ST AIA
76.47 ± 21.46	194.18 ± 43.96	137.89 ± 22.63	239.33 ± 45.31	187.44 ± 26.88	n = 9	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

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

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
0.49 $\pm$ 0.06	1.54 $\pm$ 0.18	1.58 $\pm$ 0.16	3.72 $\pm$ 0.50	2.00 $\pm$ 0.20	n = 298	All Methods & Instruments
0.50	1.50	1.60	3.60	2.00	n = 298	Median value, All Methods & Instruments
<Instruments>						
0.43 $\pm$ 0.05	1.46 $\pm$ 0.07	1.43 $\pm$ 0.07	3.60 $\pm$ 0.15	1.80 $\pm$ 0.00	n = 8	Abbott Architect
0.45 $\pm$ 0.06	1.40 $\pm$ 0.09	1.50 $\pm$ 0.11	3.94 $\pm$ 0.23	1.90 $\pm$ 0.14	n = 13	Abbott AxSym
0.44 $\pm$ 0.06	1.44 $\pm$ 0.12	1.45 $\pm$ 0.11	3.38 $\pm$ 0.22	1.88 $\pm$ 0.13	n = 28	Beckman Coulter ACCESS
0.44 $\pm$ 0.06	1.48 $\pm$ 0.12	1.49 $\pm$ 0.11	3.52 $\pm$ 0.28	1.90 $\pm$ 0.11	n = 21	Beckman Coulter UniCel DxI 800
0.50 $\pm$ 0.00	1.87 $\pm$ 0.08	1.90 $\pm$ 0.09	5.08 $\pm$ 0.23	2.33 $\pm$ 0.10	n = 17	Ortho Vitros ECi/ECiQ
0.56 $\pm$ 0.06	1.79 $\pm$ 0.11	1.71 $\pm$ 0.11	4.11 $\pm$ 0.21	2.14 $\pm$ 0.11	n = 11	Roche cobas e601
0.56 $\pm$ 0.06	1.78 $\pm$ 0.07	1.78 $\pm$ 0.05	4.13 $\pm$ 0.10	2.18 $\pm$ 0.08	n = 7	Roche Elecsys
0.57 $\pm$ 0.05	1.83 $\pm$ 0.05	1.78 $\pm$ 0.06	4.23 $\pm$ 0.12	2.22 $\pm$ 0.06	n = 19	Roche MODULAR E
0.50 $\pm$ 0.00	1.51 $\pm$ 0.09	1.56 $\pm$ 0.10	3.59 $\pm$ 0.28	2.03 $\pm$ 0.11	n = 71	Siemens ADVIA Centaur
0.46 $\pm$ 0.06	1.42 $\pm$ 0.14	1.48 $\pm$ 0.12	3.37 $\pm$ 0.22	1.78 $\pm$ 0.15	n = 40	Siemens Dimension
0.48 $\pm$ 0.04	1.59 $\pm$ 0.09	1.53 $\pm$ 0.05	4.51 $\pm$ 0.17	1.85 $\pm$ 0.06	n = 8	Siemens Dimension Vista
0.54 $\pm$ 0.07	1.57 $\pm$ 0.10	1.60 $\pm$ 0.13	3.75 $\pm$ 0.25	1.94 $\pm$ 0.16	n = 13	Siemens Immulite 1000
0.50 $\pm$ 0.00	1.52 $\pm$ 0.14	1.63 $\pm$ 0.09	3.47 $\pm$ 0.24	2.02 $\pm$ 0.16	n = 21	Siemens Immulite 2000
0.50 $\pm$ 0.00	1.43 $\pm$ 0.11	1.54 $\pm$ 0.06	3.26 $\pm$ 0.19	2.00 $\pm$ 0.09	n = 5	Siemens Immulite 2500
0.54 $\pm$ 0.06	1.69 $\pm$ 0.11	1.72 $\pm$ 0.13	4.28 $\pm$ 0.22	2.26 $\pm$ 0.14	n = 7	Tosoh Bioscience
0.47 $\pm$ 0.05	1.65 $\pm$ 0.19	1.69 $\pm$ 0.20	4.40 $\pm$ 0.92	2.12 $\pm$ 0.24	n = 3	Reagent Not Listed
0.50 $\pm$ 0.05	1.58 $\pm$ 0.17	1.60 $\pm$ 0.14	3.87 $\pm$ 0.50	2.02 $\pm$ 0.18	n = 16	Mean of Above Means
<Reagents>						
0.44 $\pm$ 0.06	1.42 $\pm$ 0.09	1.47 $\pm$ 0.10	3.80 $\pm$ 0.26	1.85 $\pm$ 0.11	n = 21	Abbott
0.44 $\pm$ 0.06	1.46 $\pm$ 0.12	1.47 $\pm$ 0.11	3.43 $\pm$ 0.25	1.89 $\pm$ 0.13	n = 49	Beckman Coulter
0.50 $\pm$ 0.00	1.86 $\pm$ 0.09	1.89 $\pm$ 0.09	5.05 $\pm$ 0.22	2.32 $\pm$ 0.10	n = 19	Ortho Clinical Diagnostics
0.56 $\pm$ 0.06	1.82 $\pm$ 0.07	1.77 $\pm$ 0.07	4.19 $\pm$ 0.14	2.20 $\pm$ 0.09	n = 36	Roche Elecsys/Modular E/e601/e411
0.50 $\pm$ 0.00	1.52 $\pm$ 0.11	1.58 $\pm$ 0.10	3.54 $\pm$ 0.25	2.07 $\pm$ 0.13	n = 36	Siemens ADVIA/ADVIA Centaur
0.46 $\pm$ 0.06	1.44 $\pm$ 0.14	1.48 $\pm$ 0.11	3.58 $\pm$ 0.56	1.79 $\pm$ 0.14	n = 45	Siemens Dimension/Stratus
0.51 $\pm$ 0.04	1.52 $\pm$ 0.13	1.61 $\pm$ 0.10	3.51 $\pm$ 0.29	1.99 $\pm$ 0.16	n = 38	Siemens Immulite
0.50 $\pm$ 0.00	1.51 $\pm$ 0.08	1.55 $\pm$ 0.09	3.67 $\pm$ 0.29	1.99 $\pm$ 0.08	n = 38	Siemens TSH-3
0.56 $\pm$ 0.06	1.68 $\pm$ 0.11	1.73 $\pm$ 0.14	4.34 $\pm$ 0.26	2.26 $\pm$ 0.17	n = 5	Tosoh AIA
0.50 $\pm$ 0.05	1.56 $\pm$ 0.16	1.60 $\pm$ 0.15	3.79 $\pm$ 0.44	2.04 $\pm$ 0.19	n = 9	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

T Uptake (Unit)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
1.039 ± 0.172	0.814 ± 0.371	0.763 ± 0.228	0.857 ± 0.171	0.805 ± 0.086	n = 26	All Methods & Instruments
1.000	0.940	0.900	0.920	0.830	n = 26	Median value, All Methods & Instruments
						<Instruments>
0.862 ± 0.031	0.546 ± 0.027	0.604 ± 0.020	0.764 ± 0.030	0.752 ± 0.018	n = 8	Abbott AxSym
1.010 ± 0.055	0.540 ± 0.009	0.547 ± 0.014	0.647 ± 0.023	0.697 ± 0.032	n = 3	Ortho Vitros ECI/ECIQ
1.226 ± 0.039	0.988 ± 0.050	0.953 ± 0.060	0.975 ± 0.054	0.887 ± 0.059	n = 3	Roche cobas e601
1.216 ± 0.021	0.964 ± 0.026	0.923 ± 0.032	0.947 ± 0.028	0.860 ± 0.034	n = 6	Roche MODULAR E
0.969 ± 0.051	1.820 ± 0.069	1.773 ± 0.039	1.522 ± 0.061	1.362 ± 0.046	n = 4	Siemens ADVIA Centaur
1.055 ± 0.158	0.901 ± 0.460	0.881 ± 0.417	0.923 ± 0.292	0.851 ± 0.200	n = 5	Mean of Above Means
						<Reagents>
0.866 ± 0.038	0.546 ± 0.028	0.606 ± 0.024	0.769 ± 0.032	0.752 ± 0.018	n = 9	Abbott
1.010 ± 0.055	0.540 ± 0.009	0.547 ± 0.014	0.647 ± 0.023	0.697 ± 0.032	n = 3	Ortho Clinical Diagnostics
1.215 ± 0.022	0.966 ± 0.030	0.931 ± 0.038	0.952 ± 0.034	0.870 ± 0.042	n = 10	Roche Elecsys/Modular E/e601/e411
0.969 ± 0.051	1.820 ± 0.069	1.773 ± 0.039	1.522 ± 0.061	1.362 ± 0.046	n = 4	Siemens ADVIA/ADVIA Centaur
1.004 ± 0.133	0.898 ± 0.540	0.892 ± 0.501	0.927 ± 0.346	0.876 ± 0.263	n = 4	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

## T3-Uptake (%)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
30.57 ± 3.64	47.04 ± 7.21	46.20 ± 6.77	41.41 ± 4.20	40.10 ± 3.35	n = 152	All Methods & Instruments
30.00	46.70	46.00	41.40	40.00	n = 152	Median value, All Methods & Instruments
<Instruments>						
31.56 ± 1.54	41.38 ± 1.69	39.33 ± 1.59	35.60 ± 1.28	35.42 ± 1.43	n = 3	Abbott Architect
32.92 ± 1.54	44.48 ± 1.93	41.94 ± 1.37	36.52 ± 0.90	36.67 ± 1.23	n = 7	Abbott AxSym
37.46 ± 1.01	48.15 ± 1.96	47.81 ± 1.85	42.58 ± 1.40	43.73 ± 1.98	n = 14	Beckman Coulter ACCESS
29.97 ± 2.22	45.45 ± 4.39	45.09 ± 3.84	42.63 ± 3.62	40.90 ± 1.71	n = 11	Beckman Coulter AU Chemistry System
38.21 ± 2.17	46.73 ± 2.95	47.19 ± 2.67	42.13 ± 2.43	43.48 ± 2.91	n = 15	Beckman Coulter UniCel DxI 800
30.16 ± 1.39	61.13 ± 1.26	59.57 ± 1.49	48.46 ± 0.55	43.94 ± 1.92	n = 7	Ortho Vitros ECi/ECiQ
30.03 ± 1.31	46.74 ± 1.27	45.86 ± 1.75	43.36 ± 1.47	40.45 ± 1.55	n = 3	Roche MODULAR D/P
29.47 ± 2.73	36.44 ± 2.01	36.98 ± 1.90	36.22 ± 2.03	39.09 ± 1.55	n = 6	Roche MODULAR E
29.76 ± 1.75	54.81 ± 2.52	53.45 ± 2.51	44.73 ± 2.06	40.22 ± 2.25	n = 38	Siemens ADVIA Centaur
30.01 ± 1.01	40.09 ± 2.06	40.11 ± 1.81	38.39 ± 1.48	39.59 ± 2.26	n = 14	Siemens Dimension
32.00 ± 2.70	42.53 ± 1.86	42.20 ± 2.36	40.44 ± 1.02	42.26 ± 1.37	n = 3	Siemens Dimension Vista
27.18 ± 1.13	44.83 ± 2.38	43.24 ± 3.25	38.82 ± 2.89	37.10 ± 2.42	n = 6	Siemens Immulite 1000
28.55 ± 1.67	41.92 ± 1.68	40.62 ± 1.61	37.94 ± 1.68	36.14 ± 1.56	n = 12	Siemens Immulite 2000
28.33 ± 0.77	42.31 ± 3.08	39.82 ± 1.33	37.14 ± 1.28	35.73 ± 1.56	n = 3	Siemens Immulite 2500
25.42 ± 1.01	42.72 ± 0.78	42.83 ± 1.45	40.48 ± 1.48	39.30 ± 0.90	n = 5	Tosoh Bioscience
30.18 ± 2.85	43.95 ± 4.03	43.17 ± 4.52	40.10 ± 3.56	39.58 ± 3.07	n = 15	Mean of Above Means
<Reagents>						
32.51 ± 1.61	43.56 ± 2.33	41.20 ± 1.81	36.31 ± 1.01	36.35 ± 1.33	n = 10	Abbott
37.85 ± 1.61	47.42 ± 2.72	47.46 ± 2.40	42.31 ± 2.05	43.55 ± 2.58	n = 29	Beckman Coulter
30.73 ± 1.28	47.68 ± 1.06	46.97 ± 1.29	44.35 ± 1.07	41.49 ± 1.07	n = 10	Microgenics CEDIA
26.52 ± 2.90	40.03 ± 2.10	40.37 ± 1.88	37.87 ± 2.39	38.06 ± 2.12	n = 4	Microgenics DRI
30.16 ± 1.39	61.13 ± 1.26	59.57 ± 1.49	48.46 ± 0.55	43.94 ± 1.92	n = 7	Ortho Clinical Diagnostics
29.80 ± 2.39	36.33 ± 1.83	37.27 ± 1.79	36.61 ± 2.05	39.41 ± 1.57	n = 8	Roche Elecsys/Modular E/e601/e411
29.74 ± 1.73	54.88 ± 2.65	53.56 ± 2.63	44.81 ± 2.19	40.32 ± 2.35	n = 39	Siemens ADVIA/ADVIA Centaur
30.06 ± 1.32	40.51 ± 2.20	40.41 ± 2.07	38.75 ± 1.63	40.15 ± 2.44	n = 17	Siemens Dimension/Stratus
28.10 ± 1.51	42.75 ± 2.49	40.93 ± 2.32	37.98 ± 2.02	36.29 ± 1.86	n = 21	Siemens Immulite
25.83 ± 0.62	42.52 ± 0.78	42.39 ± 1.26	40.14 ± 1.64	42.38 ± 8.66	n = 4	Tosoh ST AIA
29.60 ± 2.59	44.59 ± 6.69	43.89 ± 6.24	40.40 ± 4.03	40.24 ± 2.79	n = 10	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

## Vitamin B12 (pg/mL)

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
350.2 ± 42.62	298.2 ± 35.70	305.3 ± 35.00	394.5 ± 49.84	401.3 ± 55.27	n = 232	All Methods & Instruments
354.0	298.0	302.0	395.0	402.0	n = 232	Median value, All Methods & Instruments
<Instruments>						
352.7 ± 30.92	310.7 ± 29.71	311.2 ± 21.23	395.4 ± 26.06	418.6 ± 28.00	n = 14	Abbott AxSym
315.0 ± 22.84	291.2 ± 21.11	296.2 ± 16.29	369.3 ± 18.83	370.3 ± 19.56	n = 22	Beckman Coulter ACCESS
285.3 ± 21.94	261.3 ± 15.42	272.4 ± 14.85	326.4 ± 21.89	335.5 ± 17.79	n = 23	Beckman Coulter UniCel DxI 800
378.9 ± 15.46	335.8 ± 12.13	349.2 ± 14.51	418.6 ± 20.93	441.9 ± 24.87	n = 21	Ortho Vitros ECi/ECiQ
375.5 ± 14.95	330.2 ± 12.68	330.8 ± 13.57	428.5 ± 12.91	433.6 ± 11.58	n = 11	Roche cobas e601
378.6 ± 15.69	302.0 ± 30.69	297.9 ± 33.57	429.6 ± 16.78	430.7 ± 19.36	n = 5	Roche Elecsys
378.0 ± 17.63	329.1 ± 14.09	339.0 ± 14.37	429.6 ± 11.60	439.2 ± 14.90	n = 16	Roche MODULAR E
357.1 ± 32.07	289.6 ± 24.69	294.3 ± 28.18	378.2 ± 32.62	370.5 ± 34.99	n = 72	Siemens ADVIA Centaur
339.4 ± 15.49	293.5 ± 27.05	311.1 ± 23.59	380.2 ± 32.04	376.7 ± 13.89	n = 3	Siemens ADVIA Centaur CP
386.7 ± 19.41	243.2 ± 10.79	293.8 ± 23.55	216.3 ± 22.39	494.8 ± 26.75	n = 7	Siemens Dimension Vista
359.4 ± 23.98	326.0 ± 15.22	336.1 ± 12.18	500.7 ± 35.52	468.3 ± 10.39	n = 5	Siemens Immulite 1000
313.6 ± 15.17	284.6 ± 13.96	291.8 ± 11.03	425.7 ± 21.28	424.4 ± 29.42	n = 20	Siemens Immulite 2000
366.4 ± 18.40	410.5 ± 37.62	409.2 ± 23.96	512.5 ± 30.23	512.2 ± 23.99	n = 4	Siemens Immulite 2500
414.0 ± 20.33	437.3 ± 40.40	453.4 ± 28.11	513.7 ± 14.10	535.5 ± 33.26	n = 5	Tosoh Bioscience
360.2 ± 32.39	308.3 ± 42.89	312.9 ± 31.11	416.5 ± 67.02	431.4 ± 57.58	n = 14	Mean of Above Means
<Reagents>						
352.7 ± 30.92	310.7 ± 29.71	311.2 ± 21.23	395.4 ± 26.06	418.6 ± 28.00	n = 14	Abbott
299.1 ± 27.22	274.8 ± 24.94	282.8 ± 21.05	347.7 ± 31.61	351.7 ± 28.03	n = 46	Beckman Coulter
378.9 ± 15.46	335.8 ± 12.13	349.2 ± 14.51	418.6 ± 20.93	441.9 ± 24.87	n = 21	Ortho Clinical Diagnostics
378.2 ± 18.43	325.6 ± 20.84	331.0 ± 20.92	429.8 ± 12.71	435.2 ± 16.51	n = 33	Roche Elecsys/Modular E/e601/e411
356.1 ± 31.58	289.8 ± 24.83	295.1 ± 28.27	378.3 ± 32.60	370.8 ± 34.23	n = 75	Siemens ADVIA/ADVIA Centaur
365.9 ± 64.38	249.8 ± 16.03	302.6 ± 14.31	254.5 ± 92.51	498.1 ± 28.30	n = 4	Siemens Dimension/Stratus
326.1 ± 30.97	295.8 ± 37.94	308.7 ± 42.03	443.4 ± 48.38	444.4 ± 45.38	n = 29	Siemens Immulite
421.5 ± 15.74	448.8 ± 34.23	462.9 ± 14.01	513.7 ± 14.03	544.8 ± 17.02	n = 4	Tosoh AIA
383.8 ± 17.92	239.8 ± 8.59	276.1 ± 27.99	212.9 ± 27.17	489.7 ± 23.08	n = 3	Reagent Not Listed
363.8 ± 33.06	294.2 ± 42.12	305.6 ± 23.56	384.6 ± 90.44	443.6 ± 60.31	n = 9	Mean of Above Means

## Statistical Summary (Mean and Standard Deviation)

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

Specimen: E41	Specimen: E42	Specimen: E43	Specimen: E44	Specimen: E45	Number	Instrument or Reagent System
48.42 ± 5.81	23.45 ± 4.76	31.92 ± 5.08	27.80 ± 8.90	54.35 ± 7.21	n = 69	All Methods & Instruments
48.30	23.00	31.60	25.40	54.00	n = 69	Median value, All Methods & Instruments
						<Instruments>
43.08 ± 7.39	29.68 ± 2.86	38.08 ± 3.60	32.36 ± 2.45	50.91 ± 6.41	n = 3	BioRad PhD System
50.03 ± 6.35	21.73 ± 2.57	30.67 ± 4.16	21.66 ± 2.61	52.51 ± 5.34	n = 32	DiaSorin Liaison
41.77 ± 8.13	20.05 ± 1.87	28.10 ± 3.35	23.36 ± 3.61	50.75 ± 12.59	n = 5	Gamma Counter
49.14 ± 3.56	22.91 ± 2.52	31.26 ± 2.25	39.26 ± 4.03	60.76 ± 5.63	n = 13	LC/MS/MS
47.08 ± 4.98	30.49 ± 5.96	38.14 ± 7.59	34.06 ± 4.49	53.43 ± 6.40	n = 14	Reagent Not Listed
46.32 ± 3.64	24.80 ± 4.79	33.13 ± 4.59	30.21 ± 7.36	51.86 ± 1.26	n = 5	Mean of Above Means
						<Reagents>
50.03 ± 6.35	21.73 ± 2.57	30.67 ± 4.16	21.66 ± 2.61	52.51 ± 5.34	n = 32	DiaSorin Liaison
46.01 ± 4.52	21.20 ± 0.99	30.39 ± 0.74	23.59 ± 1.90	56.55 ± 8.55	n = 3	DiaSorin Radioimmunoassay
47.21 ± 5.81	30.66 ± 4.83	37.69 ± 6.05	33.49 ± 3.90	52.09 ± 6.16	n = 15	Immuno Diagnostic Systems Enzyme Im
49.14 ± 3.56	22.91 ± 2.52	31.26 ± 2.25	39.26 ± 4.03	60.76 ± 5.63	n = 13	In-House
44.62 ± 2.47	29.37 ± 4.79	37.94 ± 8.44	33.46 ± 5.75	53.76 ± 5.76	n = 4	Reagent Not Listed
47.41 ± 2.18	24.94 ± 4.49	33.38 ± 3.89	30.41 ± 7.34	54.73 ± 3.32	n = 5	Mean of Above Means