



Ammonia, Serum

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Ammonia, Serum								
Initial Grouping by Sensitivity or Principle								
Specific instrumen bypassed	1	134.0 - 163.0 P	148.5	8.5	175.0 - 214.0 P	194.1	5.5	17
Total Population								
Whole Population	2	131.0 - 160.0 P	145.1	9.4	169.0 - 206.0 P	187.4	13.1	126



Blood Lead

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Blood Lead, waived								
Initial Grouping by Reagent								
ESA LeadCare II	1	1.8 - 9.8	C 5.81	0.96	0.0 - 7.3	C 3.28	0.07	18
Initial Grouping by Sensitivity or Principle								
Electrochemical	2	1.8 - 9.8	C 5.81	0.96	0.0 - 7.3	C 3.28	0.07	18
Total Population								
Whole Population	3	1.8 - 9.8	C 5.81	0.96	0.0 - 7.3	C 3.30	0.00	18



BNP, 2 Vial

Name	Line No.	Specimen 1			Specimen 2			No. of Labs		
		Range & Type	Mean	SD	Range & Type	Mean	SD			
BNP, Plasma 2 Vial										
Total Population										
Whole Population	1	1053.0 - 5798.0	S	3425.3	790.8	575.0 - 2458.0	S	1516.5	313.9	14



Body Fluid Chemistry

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD		Range & Type	Mean	SD		
Albumin, Body Fluid										
Total Population										
Whole Population	1	4.9 - 6.2	P	5.56	0.45	1.7 - 2.3	C	2.01	0.38	8
Amylase - Body Fluid										
Whole Population	1	490.9 - 911.7	P	701.32	191.39	79.3 - 147.3	P	113.29	46.19	9
Chloride - Body Fluid										
Whole Population	1	71.0 - 79.0	P	75.0	4.8	79.0 - 88.0	P	83.6	5.0	6
Cholesterol Total - Body Fluid										
Whole Population	1	250.0 - 306.0	P	278.0	22.5	24.0 - 54.0	C	38.9	9.0	9
Creatinine - Body Fluid										
Whole Population	1	0.0 - 6.0	C	3.03	0.21	0.0 - 3.2	C	0.20	0.09	7
Lactic Acid, body fluid										
Whole Population	1	0.1 - 0.7	C	0.40	0.14	0.1 - 0.7	C	0.40	0.14	2
Lactate Dehydrogenase - Body Fluid										
Whole Population	1	418.0 - 626.0	P	521.9	43.4	42.0 - 62.0	P	51.9	5.4	13
pH - Body Fluid										
Whole Population	1	6.263 - 8.263	C	7.2633	0.4288	5.854 - 7.854	C	6.8540	0.2156	10
Sodium - Body Fluid										
Whole Population	1	106.0 - 114.0	P	110.0	1.5	99.0 - 108.0	P	103.4	1.9	8
Protein, Total - Body Fluid										
Whole Population	1	4.4 - 7.4	P	5.89	0.23	1.3 - 3.3	C	2.26	0.40	15

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Triglycerides - Body Fluid										
Whole Population	1	229.0 - 381.0 P	305.2	6.9	5.0 - 8.0 P	6.7	5.2			7
Uric Acid - Body Fluid										
Whole Population	1	0.3 - 0.9 C	0.64	0.50	0.3 - 0.9 C	0.62	0.52			6



Brain Natriuretic Peptide (BNP)

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Brain Natriuretic Peptide (BNP)										
Initial Grouping by Reagent and Instrument										
Abbott AxSYM & Abbott AxSYM	1	116.0 - 271.0 S	193.6	26.0	80.0 - 195.0 S	137.6	19.2		20	
Biosite Triage & Biosite Triage Meter	2	483.0 - 1236.0 S	859.4	125.4	382.0 - 891.0 S	636.7	84.7		107	
Roche ELECSYS proBNP & Roche Elecsys series	3	2056.0 - 2577.0 S	2316.5	86.7	1363.0 - 1671.0 S	1517.0	51.3		11	
Initial Grouping by Reagent										
Abbott AxSYM	4	130.0 - 249.0 S	189.6	19.9	80.0 - 195.0 S	137.6	19.2		20	
Biosite Triage	5	484.0 - 1236.0 S	860.5	125.3	381.0 - 896.0 S	638.3	85.9		109	
Roche ELECSYS proBNP	6	2045.0 - 2563.0 S	2304.1	86.2	1328.0 - 1683.0 S	1505.5	59.2		17	
Siemens	7	0.0 - 3644.0 S	492.8	1050.3	0.0 - 2478.0 S	354.3	708.0		11	
Siemens Dimension proBNP	8	0.0 - 6027.0 S	2455.7	1190.4	0.0 - 4034.0 S	1532.9	833.8		13	
Siemens NT-PBNP	9	0.0 - 6593.0 S	2819.0	1258.0	0.0 - 4595.0 S	1859.7	911.7		19	
Initial Grouping by Sensitivity or Principle										
All BNP	10	0.0 - 14511.0 S	2535.8	3991.8	0.0 - 9537.0 S	1691.1	2615.3		14	
All proBNP	11	0.0 - 9133.0 S	3107.7	2008.4	0.0 - 6068.0 S	2057.9	1336.8		86	
All Biosite BNP	12	0.0 - 2125.0 S	945.3	393.3	0.0 - 1548.0 S	701.2	282.3		121	
All Abbott BNP	13	0.0 - 2762.0 S	311.6	816.8	0.0 - 1463.0 S	194.1	423.0		37	
Total Population										
Whole Population	14	506.0 - 2710.0 S	1608.0	367.5	287.0 - 1746.0 S	1016.5	243.3		261	



Chemistry, waived

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Alanine Aminotransferase (ALT), waived								
Total Population								
Whole Population	1	135.0 - 203.0 P	169.0	5.3	81.0 - 122.0 P	101.5	3.4	9
Albumin, waived								
Whole Population	1	2.7 - 3.3 P	3.03	0.08	3.2 - 3.9 P	3.56	0.08	8
Alkaline Phosphatase, waived								
Whole Population	1	136.0 - 254.0 P	195.0	7.3	64.0 - 118.0 P	90.9	3.1	7
Aspartate Aminotransferase (AST), waived								
Whole Population	1	133.0 - 199.0 P	165.7	7.4	75.0 - 113.0 P	93.9	2.7	9
Bicarbonate (Total CO2), waived								
Whole Population	1	22.0 - 33.0 P	27.8	1.2	28.0 - 43.0 P	35.6	2.4	9
Bilirubin, Total, waived								
Whole Population	1	1.6 - 2.5 P	2.06	0.07	2.4 - 3.5 P	2.94	0.05	8
Calcium, waived								
Whole Population	1	9.5 - 11.5 C	10.47	0.23	6.0 - 8.0 C	6.99	0.16	7
Chloride, waived								
Whole Population	1	98.0 - 108.0 P	103.2	3.9	111.0 - 123.0 P	117.2	8.5	11
HDL Cholesterol, Waived								
Whole Population	1	66.0 - 123.0 P	94.3	21.9	67.0 - 124.0 P	95.1	18.4	16
Cholesterol Total, waived								
Initial Grouping by Method								

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Cholestech L-D-X	1	210.0 - 257.0 P	233.7	11.9	236.0 - 288.0 P	262.1	10.3	13		
Initial Grouping by Sensitivity or Principle										
All enzymatic cholesterol	2	207.0 - 253.0 P	230.3	12.0	233.0 - 285.0 P	259.4	10.2	17		
Total Population										
Whole Population	3	206.0 - 252.0 P	228.8	11.5	233.0 - 285.0 P	259.1	10.1	20		
Creatinine, waived										
Whole Population	1	0.5 - 1.1 C	0.77	0.08	0.9 - 1.5 C	1.19	0.15	8		
Glucose, waived										
Whole Population	1	132.0 - 161.0 P	146.2	5.4	44.0 - 56.0 C	50.5	3.6	15		
Potassium, waived										
Whole Population	1	3.2 - 4.2 C	3.69	0.24	4.5 - 5.5 C	5.00	0.25	10		
Sodium, waived										
Whole Population	1	136.0 - 144.0 C	139.5	2.2	157.0 - 165.0 C	160.8	5.1	10		
Protein, Total, waived										
Whole Population	1	6.5 - 8.0 P	7.28	0.05	8.1 - 9.9 P	9.04	0.24	8		
Triglycerides, waived										
Whole Population	1	128.0 - 213.0 P	170.4	7.9	156.0 - 261.0 P	208.4	12.7	13		
Urea Nitrogen (BUN), waived										
Whole Population	1	28.0 - 33.0 P	30.6	1.8	17.0 - 21.0 C	19.4	1.6	9		
Uric Acid, waived										
Whole Population	1	5.6 - 8.0 P	6.80	0.00	1.2 - 1.8 P	1.50	0.00	1		



D-Dimer

Name	Line No.	Specimen 1			Specimen 2			No. of Labs		
		Range & Type	Mean	SD	Range & Type	Mean	SD			
D-Dimer, quantitative										
Initial Grouping by Method										
Biosite Triage	1	480.0 - 1302.0	S	891.2	137.0	468.0 - 935.0	S	701.5	77.9	109
IL ACL Elite	2	531.0 - 793.0	S	662.1	43.6	420.0 - 673.0	S	546.2	42.2	10
Siemens Stratus CS	3	1737.0 - 2699.0	S	2217.8	160.4	1282.0 - 1941.0	S	1611.5	110.0	26
Siemens Sysmex Advanced	4	1575.0 - 3385.0	S	2480.0	301.8	1415.0 - 2835.0	S	2125.0	236.7	17
Initial Grouping by Sensitivity or Principle										
low recovery	5	480.0 - 1302.0	S	891.2	137.0	468.0 - 935.0	S	701.5	77.9	109
mid recovery	6	1575.0 - 3385.0	S	2480.0	301.8	1415.0 - 2835.0	S	2125.0	236.7	17
high recovery	7	0.0 - 4377.0	S	1994.2	794.3	0.0 - 3713.0	S	1516.5	732.2	41
Total Population										
Whole Population	8	0.0 - 3502.0	S	1243.2	753.1	0.0 - 2823.0	S	977.5	615.1	204



DIRECT BILIRUBIN

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Bilirubin, Direct										
Initial Grouping by Reagent and Instrument										
Alfa Wassermann & Alfa Wasser ACE/Centr/Alera	1	10.7 - 16.1	P	13.39	0.47	1.1 - 1.9	C	1.46	0.10	37
Beckman & Beckman Unicel DXC series	2	6.3 - 9.5	P	7.89	0.26	0.2 - 1.0	C	0.60	0.04	46
J&J Vitros DBIL & J&J Vitros not DT or ECi	3	10.7 - 16.1	P	13.43	0.46	0.0 - 0.8	C	0.36	0.08	45
J&J Vitros DBIL & J&J Vitros 5,1 FS	4	10.8 - 16.2	P	13.54	0.51	0.0 - 0.7	C	0.34	0.11	15
SDI Biomed & SDI CA-240, 480	5	7.6 - 11.5	P	9.55	1.02	1.4 - 2.3	C	1.85	0.13	11
Siemens Dimension DBI & Siemens Dimension Rxl	6	7.8 - 11.6	P	9.70	0.36	0.2 - 1.0	C	0.58	0.09	12
Siemens Dimension DBI & Siemens Dimension Xpand	7	7.8 - 11.6	P	9.69	0.28	0.2 - 1.0	C	0.55	0.06	46
Siemens Dimension DBI & Siemens Dimension EXL	8	7.7 - 11.6	P	9.66	0.25	0.1 - 0.9	C	0.54	0.05	18
Siemens Dimension DBIL & Siemens Dimension Xpand	9	7.7 - 11.6	P	9.67	0.38	0.1 - 0.9	C	0.52	0.04	19
Initial Grouping by Reagent										
Alfa Wassermann	10	10.7 - 16.1	P	13.39	0.47	1.1 - 1.9	C	1.46	0.10	37
Beckman	11	6.3 - 9.5	P	7.91	0.25	0.2 - 1.0	C	0.60	0.04	73
Carolina	12	7.5 - 11.3	P	9.41	0.91	0.1 - 0.9	C	0.52	0.06	12
DCL/Genzyme - SL	13	7.8 - 11.7	P	9.74	1.15	0.3 - 1.1	C	0.69	0.09	11
J&J Vitros DBIL	14	10.8 - 16.1	P	13.44	0.46	0.0 - 0.8	C	0.36	0.09	69
Beckman Olympus	15	10.5 - 15.7	P	13.10	1.65	0.9 - 1.7	C	1.26	0.10	52
Roche acid diazo	16	8.3 - 12.4	P	10.36	0.59	0.4 - 1.2	C	0.79	0.14	30
SDI Biomed	17	7.6 - 11.5	P	9.55	1.02	1.4 - 2.3	C	1.85	0.13	11
Siemens ADVIA DBIL_2	18	8.1 - 12.2	P	10.18	0.42	0.5 - 1.3	C	0.89	0.14	12
Siemens Dimension DBI	19	7.7 - 11.6	P	9.67	0.27	0.2 - 1.0	C	0.55	0.07	117
Siemens Dimension DBIL	20	7.7 - 11.5	P	9.62	0.31	0.1 - 0.9	C	0.53	0.05	40
Initial Grouping by Sensitivity or Principle										
Acid diazo methods	21	8.4 - 12.6	P	10.50	2.15	0.3 - 1.1	C	0.70	0.36	423
Diazonium ion methods	22	9.5 - 14.3	P	11.92	2.56	0.7 - 1.5	C	1.12	1.02	90
Abbott methods	23	9.3 - 14.0	P	11.67	0.60	0.4 - 1.2	C	0.78	0.08	10
Total Population										

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Whole Population	24	8.5 - 12.7	P	10.60	1.96	0.3 - 1.1	C	0.69	0.12	534
Bilirubin, Neonatal										
Initial Grouping by Reagent and Instrument										
J&J Vitros neonatal & J&J Vitros not DT or ECi	1	18.2 - 27.3	P	22.73	0.60	2.5 - 3.8	P	3.18	0.12	12
Initial Grouping by Reagent										
Beckman	2	14.9 - 22.4	P	18.66	0.57	2.4 - 3.5	P	2.96	0.13	10
J&J Vitros neonatal	3	18.3 - 27.4	P	22.87	0.56	2.5 - 3.7	P	3.12	0.15	20
Siemens Dimension	4	15.1 - 22.6	P	18.87	0.45	2.4 - 3.7	P	3.06	0.11	22
Initial Grouping by Sensitivity or Principle										
Diazo/caffeine-benzoate	5	15.0 - 22.6	P	18.81	0.49	2.4 - 3.6	P	3.03	0.13	32
Diazonium ion	6	15.2 - 22.9	P	19.04	0.55	2.5 - 3.7	P	3.09	0.09	10
Direct spectrophotometric	7	18.3 - 27.4	P	22.87	0.56	2.5 - 3.7	P	3.12	0.15	20
Total Population										
Whole Population	8	16.0 - 24.0	P	20.02	1.87	2.4 - 3.7	P	3.05	0.17	81



FERTILITY ENDOCRINOLOGY

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
DHEA-S										
Initial Grouping by Sensitivity or Principle										
All Siemens/DPC/Beckman	1	70.9 - 95.9	P	83.40	8.10	373.9 - 505.9	P	439.87	136.37	24
Total Population										
Whole Population	2	77.2 - 104.5	P	90.88	17.63	395.4 - 535.0	P	465.19	125.78	33
Estradiol										
Initial Grouping by Reagent and Instrument										
Beckman Access luminometric & Beckman Access luminometer	1	24.0 - 44.0	P	33.7	5.1	240.0 - 445.0	P	342.3	24.6	24
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	2	13.0 - 24.0	P	18.2	3.2	156.0 - 289.0	P	222.7	12.6	19
Roche Elecsys luminometric & Roche Elecsys series	3	18.0 - 34.0	P	26.2	4.4	58.0 - 108.0	P	82.9	4.7	11
Siemens luminometric & Siemens Centaur/Centaur CP	4	8.0 - 15.0	P	11.3	4.0	81.0 - 151.0	P	115.8	26.1	15
Siemens Immulite & Siemens Immulite 2000	5	22.0 - 40.0	P	30.8	5.4	80.0 - 149.0	P	114.8	10.2	30
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	6	23.0 - 43.0	P	33.0	7.5	317.0 - 589.0	P	453.0	36.7	22
Initial Grouping by Reagent										
Beckman Access luminometric	7	24.0 - 44.0	P	33.6	5.0	238.0 - 442.0	P	340.2	24.7	26
bioMerieux Vidas fluorometr	8	12.0 - 23.0	P	17.7	2.3	156.0 - 289.0	P	222.7	12.6	19
Roche Elecsys luminometric	9	20.0 - 37.0	P	28.6	5.5	59.0 - 109.0	P	83.8	4.7	17
Siemens luminometric	10	10.0 - 18.0	P	13.8	8.7	83.0 - 153.0	P	118.0	21.3	17
Siemens Immulite	11	20.0 - 36.0	P	28.1	5.6	80.0 - 149.0	P	115.0	11.1	90
Tosoh AIA Pack fluorometric	12	23.0 - 42.0	P	32.4	7.1	317.0 - 588.0	P	452.5	35.6	28
Initial Grouping by Sensitivity or Principle										
Moderate recovery methods	13	16.0 - 30.0	P	23.3	10.4	175.0 - 324.0	P	249.6	92.2	62
High moderate recovery meth	14	20.0 - 38.0	P	29.0	6.4	122.0 - 227.0	P	174.9	139.9	144
Total Population										
Whole Population	15	20.0 - 37.0	P	28.2	5.0	124.0 - 230.0	P	177.1	45.1	221

Estriol

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Whole Population	1	6.5 - 12.5	C	9.50	13.29	36.5 - 67.8	P	52.15	67.39	2

Follicle Stimulating Hormone (FSH)

Initial Grouping by Reagent and Instrument

Beckman Access luminometric & Beckman Access luminometer	1	5.0 - 9.0	C	6.6	0.6	45.0 - 75.0	P	59.7	3.8	37
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	2	4.0 - 8.0	C	6.0	0.0	52.0 - 87.0	P	69.3	3.0	10
Roche Elecsys luminometric & Roche Elecsys series	3	4.0 - 8.0	C	5.8	0.4	44.0 - 73.0	P	58.2	3.5	12
Siemens luminometric & Siemens Centaur/Centaur CP	4	4.0 - 8.0	C	6.0	1.1	48.0 - 79.0	P	63.5	8.1	15
Siemens Immulite & Siemens Immulite 2000	5	3.0 - 7.0	C	4.9	0.4	44.0 - 73.0	P	58.2	4.3	19
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	6	5.0 - 9.0	C	7.2	0.5	41.0 - 69.0	P	55.3	3.5	18
Siemens Immulite 2000, 2500 & Siemens Immulite 2000	7	3.0 - 7.0	C	5.1	0.5	44.0 - 74.0	P	59.3	5.0	15

Initial Grouping by Reagent

Beckman Access luminometric	8	5.0 - 9.0	C	6.7	0.6	45.0 - 74.0	P	59.5	3.7	41
bioMerieux Vidas fluorometr	9	-				52.0 - 87.0	P	69.3	3.0	10
Roche Elecsys luminometric	10	4.0 - 8.0	C	5.8	0.4	43.0 - 72.0	P	58.0	3.1	21
Siemens luminometric	11	4.0 - 8.0	C	6.0	1.1	48.0 - 79.0	P	63.4	8.4	17
Siemens Immulite	12	3.0 - 7.0	C	5.3	0.5	45.0 - 75.0	P	60.3	4.0	79
Tosoh AIA Pack fluorometric	13	5.0 - 9.0	C	7.2	0.6	42.0 - 69.0	P	55.4	3.4	25
Siemens Immulite 2000, 2500	14	3.0 - 7.0	C	5.1	0.5	44.0 - 74.0	P	59.3	5.0	15

Initial Grouping by Sensitivity or Principle

Very low recovery methods	15	4.0 - 8.0	C	6.0	1.1	48.0 - 79.0	P	63.4	8.4	17
Moderate recovery methods	16	4.0 - 8.0	C	5.9	1.0	44.0 - 73.0	P	58.7	4.6	189
High moderate recovery meth	17	5.0 - 9.0	C	7.0	1.4	51.0 - 85.0	P	68.3	4.5	12

Total Population

Whole Population	18	4.0 - 8.0	C	5.7	0.8	45.0 - 74.0	P	59.3	5.6	235
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Leuteinizing Hormone (LH)

Initial Grouping by Reagent and Instrument

Beckman Access luminometric & Beckman Access luminometer	1	1.0 - 5.0	C	2.7	0.5	30.0 - 50.0	P	40.1	2.5	33
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	2	0.0 - 4.0	C	2.0	0.0	33.0 - 55.0	P	44.1	1.8	10
Roche Elecsys luminometric & Roche Elecsys series	3	1.0 - 5.0	C	3.3	0.5	36.0 - 59.0	P	47.5	2.1	13
Siemens chemiluminometric & Siemens Centaur/Centaur CP	4	1.0 - 5.0	C	3.0	0.0	37.0 - 62.0	P	49.3	3.9	13

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Siemens Immulite 2000 & Siemens Immulite 2000	5	1.0 - 5.0	C	3.0	0.0	43.0 - 71.0	P	57.2	4.5	27
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	6	1.0 - 5.0	C	2.9	0.3	36.0 - 60.0	P	48.4	1.6	16
Initial Grouping by Reagent										
Beckman Access luminometric	7	1.0 - 5.0	C	2.7	0.5	30.0 - 50.0	P	40.1	2.5	36
bioMerieux Vidas fluorometr	8	-				33.0 - 55.0	P	44.1	1.8	10
Roche Elecsys luminometric	9	1.0 - 5.0	C	3.4	0.5	36.0 - 59.0	P	47.5	1.9	22
Siemens chemiluminometric	10	2.0 - 6.0	C	4.0	0.0	37.0 - 62.0	P	49.7	4.0	14
Siemens Immulite	11	1.0 - 5.0	C	3.0	0.0	45.0 - 75.0	P	60.3	4.2	62
Siemens Immulite 2000	12	1.0 - 5.0	C	3.0	0.0	43.0 - 71.0	P	57.2	4.5	27
Tosoh AIA Pack fluorometric	13	1.0 - 5.0	C	2.9	0.4	36.0 - 60.0	P	48.2	1.5	21
Initial Grouping by Sensitivity or Principle										
Low recovery methods	14	-				33.0 - 55.0	P	44.1	1.8	10
Low moderate recovery meth	15	1.0 - 5.0	C	3.3	0.5	36.0 - 60.0	P	48.1	3.7	42
Moderate recovery methods	16	3.0 - 7.0	C	4.9	23.3	40.0 - 66.0	P	52.9	9.1	149
Total Population										
Whole Population	17	1.0 - 5.0	C	3.1	0.2	39.0 - 64.0	P	51.4	8.1	218

Progesterone

Initial Grouping by Reagent and Instrument

Beckman Access luminometric & Beckman Access luminometer	1	2.1 - 3.8	P	2.93	0.37	27.9 - 51.9	P	39.89	3.62	24
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	2	1.7 - 3.2	P	2.45	0.19	29.6 - 54.9	P	42.25	3.21	14
Siemens luminometric & Siemens Centaur/Centaur CP	3	1.5 - 2.8	P	2.19	0.18	18.0 - 33.5	P	25.78	1.56	17
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	4	2.2 - 4.0	P	3.09	0.22	26.7 - 49.5	P	38.09	1.29	18
Siemens Immulite 2000, 2500 & Siemens Immulite 2000	5	1.6 - 3.1	P	2.35	0.24	21.6 - 40.1	P	30.83	2.50	15
Initial Grouping by Reagent										
Beckman Access luminometric	6	2.1 - 3.8	P	2.95	0.37	27.9 - 51.9	P	39.89	3.62	25
bioMerieux Vidas fluorometr	7	1.7 - 3.2	P	2.45	0.19	29.6 - 54.9	P	42.25	3.21	14
Roche Elecsys luminometric	8	1.3 - 2.4	P	1.84	0.20	32.9 - 61.2	P	47.05	2.85	16
Siemens luminometric	9	1.5 - 2.8	P	2.16	0.20	18.0 - 33.5	P	25.78	1.51	19
Siemens Immulite	10	1.8 - 3.3	P	2.57	0.31	20.3 - 37.8	P	29.05	8.19	66
Tosoh AIA Pack fluorometric	11	2.2 - 4.0	P	3.11	0.28	26.7 - 49.6	P	38.13	2.25	24
Siemens Immulite 2000, 2500	12	1.6 - 3.1	P	2.35	0.24	21.6 - 40.1	P	30.83	2.50	15
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	13	2.0 - 3.7	P	2.81	0.40	27.8 - 51.7	P	39.77	3.70	44
Luminometric	14	1.8 - 3.3	P	2.51	0.67	23.3 - 43.2	P	33.26	10.46	146

Total Population

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD		Range & Type	Mean	SD		
Whole Population	15	1.8 - 3.3	P	2.52	0.41	25.0 - 46.5	P	35.73	5.70	198



FRUCTOSAMINE

Name	Line No.	Specimen 1			Specimen 2			No. of Labs		
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Fructosamine - Polylysine										
Total Population										
Whole Population	1	1087.0 - 2018.0	P	1552.6	451.8	421.0 - 783.0	P	602.1	175.7	8
Fructosamine - DMF										
Initial Grouping by Reagent										
Pointe Sci NBT	1	1.9 - 3.5	P	2.71	0.24	0.6 - 1.5	C	1.08	0.10	12
Initial Grouping by Sensitivity or Principle										
NBT/rate method	2	1.9 - 3.5	P	2.68	0.24	0.7 - 1.6	C	1.11	0.13	18
Total Population										
Whole Population	3	1.8 - 3.4	P	2.61	0.28	0.6 - 1.5	C	1.09	0.13	22



GLYCOHEMOGLOBIN

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Glycohemoglobin - HbA1c										
Initial Grouping by Reagent and Instrument										
Beckman immunoinhib NGSP & Beckman Unicel DXC series	1	4.3 - 7.2	P	5.75	0.27	5.3 - 8.9	P	7.12	0.24	30
BioRad D-10 & BioRad D-10	2	4.1 - 6.9	P	5.51	0.23	5.4 - 9.0	P	7.18	0.23	25
BioRad Variant II & BioRad Variant II	3	4.2 - 6.9	P	5.53	0.16	5.4 - 8.9	P	7.14	0.14	15
J&J Vitros & J&J Vitros 5,1 FS	4	4.3 - 7.1	P	5.69	0.26	5.5 - 9.2	P	7.33	0.31	10
Siemens DCA immunoinhibit & Siemens DCA Vantage	5	4.5 - 7.4	P	5.96	0.18	5.7 - 9.6	P	7.66	0.23	77
Siemens Dimension & Siemens Dimension Rxl	6	4.4 - 7.4	P	5.89	0.12	5.4 - 9.0	P	7.23	0.20	12
Siemens Dimension & Siemens Dimension Xpand	7	4.4 - 7.3	P	5.83	0.27	5.4 - 9.0	P	7.16	0.33	67
Siemens Dimension & Siemens Dimension EXL	8	4.5 - 7.5	P	5.97	0.24	5.5 - 9.1	P	7.29	0.23	18
Tosoh G7 & Tosoh G7	9	4.2 - 7.0	P	5.61	0.08	5.4 - 9.0	P	7.20	0.10	28
Tosoh G8 & Tosoh G8	10	4.2 - 6.9	P	5.56	0.10	5.4 - 9.0	P	7.17	0.09	10
Initial Grouping by Reagent										
Abbott Multigent	11	4.2 - 7.0	P	5.58	0.28	5.7 - 9.5	P	7.58	0.34	12
Beckman IFCC	12	4.1 - 6.8	P	5.46	0.40	5.3 - 8.8	P	7.02	0.57	13
Beckman immunoinhib NGSP	13	4.3 - 7.2	P	5.78	0.27	5.4 - 9.0	P	7.20	0.34	44
BioRad D-10	14	4.1 - 6.9	P	5.51	0.23	5.4 - 9.0	P	7.18	0.23	25
BioRad Variant II	15	4.2 - 6.9	P	5.53	0.16	5.4 - 8.9	P	7.14	0.14	15
J&J Vitros	16	4.3 - 7.1	P	5.71	0.21	5.5 - 9.2	P	7.36	0.27	16
Beckman Olympus	17	4.3 - 7.2	P	5.74	0.16	5.4 - 9.1	P	7.26	0.35	16
Pointe Scientific	18	3.9 - 6.5	P	5.23	0.49	5.3 - 8.8	P	7.06	0.46	31
Roche Tina-Quant	19	4.3 - 7.1	P	5.70	0.26	5.4 - 9.0	P	7.22	0.27	32
Siemens DCA immunoinhibit	20	4.5 - 7.5	P	5.98	0.17	5.8 - 9.6	P	7.70	0.22	170
Siemens Dimension	21	4.4 - 7.4	P	5.88	0.24	5.4 - 9.0	P	7.20	0.29	135
Tosoh G7	22	4.2 - 7.0	P	5.61	0.08	5.4 - 9.0	P	7.20	0.10	28
Tosoh G8	23	4.2 - 6.9	P	5.55	0.09	5.4 - 9.0	P	7.18	0.10	11
Initial Grouping by Sensitivity or Principle										
Liquid chromatography	24	4.2 - 7.0	P	5.56	0.20	5.4 - 9.0	P	7.19	0.18	83
Immunofluorometric-not FPIA	25	4.3 - 7.2	P	5.79	0.26	5.6 - 9.3	P	7.43	0.31	22

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Resin absorption	26	4.3 - 7.2	P 5.76	0.63	5.6 - 9.4	P 7.53	1.07	18		
Turbidity immunoinhibition	27	4.4 - 7.3	P 5.86	0.29	5.6 - 9.3	P 7.41	0.40	430		
Values standardized to DCCT	28	4.1 - 6.8	P 5.47	0.54	5.2 - 8.7	P 6.98	0.66	23		
All other methods	29	4.0 - 6.6	P 5.29	0.45	5.3 - 8.9	P 7.10	0.79	49		
Total Population										
Whole Population	30	4.3 - 7.2	P 5.75	0.37	5.5 - 9.2	P 7.33	0.46	644		

Glycohemoglobin - HbA1

Initial Grouping by Reagent										
Sterling resin absorption	1	5.4 - 9.0	P 7.24	0.83	5.7 - 9.6	P 7.64	0.54	10		
Initial Grouping by Sensitivity or Principle										
Resin absorption	2	5.0 - 8.4	P 6.72	0.98	5.6 - 9.3	P 7.42	0.92	20		
Total Population										
Whole Population	3	4.6 - 7.6	P 6.10	1.93	5.1 - 8.5	P 6.84	2.05	25		

Glycohemoglobin, Total

Whole Population	1	4.7 - 7.9	P 6.29	2.15	5.9 - 9.8	P 7.85	1.48	22
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Hemoglobin, A1c, Afinion

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Glycohem - HbA1c - Afinion								
Initial Grouping by Method								
Axis-Shield Afinion	1	6.1 - 10.2	P 8.19	0.12	4.7 - 7.9	P 6.31	0.09	15
Initial Grouping by Sensitivity or Principle								
All other methods	2	6.1 - 10.2	P 8.19	0.12	4.7 - 7.9	P 6.31	0.09	15
Total Population								
Whole Population	3	6.1 - 10.2	P 8.19	0.12	4.7 - 7.9	P 6.31	0.09	15



High Sensitivity C-Reactive Protein

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
High Sensitivity C-Reactive Protein										
Initial Grouping by Method										
Beckman Unicel	1	0.0 - 14.07	S	6.421	2.549	0.0 - 9.86	S	4.491	1.788	15
Carolina immunoturbid	2	6.62 - 9.21	S	7.919	0.432	4.0 - 7.17	S	5.586	0.528	13
Siemens CCRP	3	5.46 - 11.62	S	8.542	1.026	4.56 - 8.06	S	6.311	0.584	15
Siemens Immulite 2000	4	6.45 - 8.45	S	7.451	0.334	4.42 - 5.71	S	5.067	0.215	10
Initial Grouping by Sensitivity or Principle										
All wide range methods	5	0.0 - 14.36	S	6.894	2.489	0.0 - 9.96	S	4.744	1.739	17
All Roche HS methods	6	0.0 - 67.02	S	12.092	18.311	0.0 - 47.06	S	8.572	12.830	21
All direct quantitative meth	7	1.95 - 12.37	S	7.158	1.737	1.59 - 8.58	S	5.086	1.165	108
All quantitations by dilutn	8	4.87 - 10.89	S	7.881	1.003	3.13 - 8.1	S	5.619	0.828	38
Total Population										
Whole Population	9	5.34 - 9.71	S	7.523	0.729	3.52 - 7.09	S	5.306	0.595	188



Immunochemistry

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
C-Peptide										
Total Population										
Whole Population	1	0.58 - 1.07	P 0.826	0.165	5.93 - 11.02	P 8.475	1.039		18	
Insulin										
Initial Grouping by Reagent and Instrument										
Siemens Immulite 2000, 2500 & Siemens Immulite 2000	1	6.5 - 12.0	P 9.22	0.89	35.0 - 65.1	P 50.05	3.95		14	
Initial Grouping by Reagent										
Siemens Immulite 2000, 2500	2	6.5 - 12.0	P 9.22	0.89	35.0 - 65.1	P 50.05	3.95		14	
Initial Grouping by Sensitivity or Principle										
Low recovery methods	3	6.3 - 11.8	P 9.06	0.93	35.0 - 64.9	P 49.94	3.82		18	
High recovery meth	4	10.4 - 19.3	P 14.84	1.27	82.0 - 152.4	P 117.19	9.21		20	
Total Population										
Whole Population	5	8.9 - 16.5	P 12.67	2.96	72.2 - 134.2	P 103.21	18.97		42	
Parathyroid Hormone (PTH)										
Initial Grouping by Reagent and Instrument										
Beckman Access luminometric & Beckman Access luminometer	1	15.5 - 25.9	P 20.71	1.60	110.4 - 184.0	P 147.20	9.84		12	
Siemens Immulite 2000, 2500 & Siemens Immulite 2000	2	12.8 - 21.4	P 17.12	1.22	108.3 - 180.5	P 144.40	9.74		10	
Initial Grouping by Reagent										
Beckman Access luminometric	3	15.5 - 25.9	P 20.71	1.57	110.0 - 183.3	P 146.65	9.59		14	
Roche Elecsys luminometric	4	14.9 - 24.8	P 19.82	2.73	92.3 - 153.9	P 123.11	9.54		10	
Siemens Immulite 2000, 2500	5	12.8 - 21.4	P 17.12	1.22	108.3 - 180.5	P 144.40	9.74		10	
Initial Grouping by Sensitivity or Principle										
Low moderate recovery meths	6	12.8 - 21.4	P 17.12	1.16	108.0 - 180.0	P 144.00	9.34		11	
Lower recovery methods	7	16.4 - 27.3	P 21.86	6.96	116.9 - 194.9	P 155.92	47.74		46	
Total Population										
Whole Population	8	14.7 - 24.4	P 19.54	3.10	107.5 - 179.2	P 143.39	16.89		67	

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Vitamin D										
Initial Grouping by Reagent										
DiaSorin LIAISON	1	7.4 - 18.2	S	12.83	1.79	34.6 - 81.7	S	58.14	7.84	16
Immuno Diagnostic Systems	2	9.8 - 18.5	S	14.14	1.46	31.1 - 74.9	S	53.02	7.31	14
Initial Grouping by Sensitivity or Principle										
Luminometric	3	7.0 - 19.2	S	13.09	2.02	35.0 - 82.3	S	58.66	7.89	17
Spectrophotometric	4	9.8 - 18.5	S	14.14	1.46	31.1 - 74.9	S	53.02	7.31	14
Total Population										
Whole Population	5	6.3 - 20.3	S	13.26	2.33	28.7 - 82.8	S	55.74	9.02	39



SPECIAL CHEMISTRY

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Ferritin								
Initial Grouping by Reagent and Instrument								
Abbott MEIA fluorometric & Abbott AxSYM	1	39.0 - 73.0	P 56.4	5.9	239.0 - 444.0	P 341.8	46.2	14
Beckman Access luminometric & Beckman Access luminometer	2	30.0 - 57.0	P 43.5	2.6	191.0 - 355.0	P 272.7	16.9	66
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	3	35.0 - 65.0	P 50.3	3.2	234.0 - 434.0	P 334.0	26.1	10
J&J Vitros ECi luminometric & J&J Vitros ECi	4	26.0 - 49.0	P 37.7	1.7	162.0 - 301.0	P 231.2	12.1	13
Roche Elecsys luminometric & Roche Elecsys series	5	39.0 - 72.0	P 55.3	3.2	238.0 - 442.0	P 339.6	23.9	14
Siemens luminometric & Siemens Centaur/Centaur CP	6	37.0 - 69.0	P 53.4	1.6	240.0 - 446.0	P 343.3	17.2	15
Siemens CrO2 & Siemens Dimension Xpand	7	37.0 - 69.0	P 53.0	1.9	222.0 - 411.0	P 316.5	13.4	11
Siemens Coat-A-Count IRMA & All gamma counters	8	24.0 - 45.0	P 34.3	6.6	197.0 - 365.0	P 281.0	36.0	10
Siemens Immulite & Siemens Immulite 2000	9	39.0 - 72.0	P 55.6	2.8	218.0 - 405.0	P 311.8	20.5	30
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	10	65.0 - 121.0	P 92.9	130.8	182.0 - 338.0	P 259.8	9.6	14
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	11	30.0 - 55.0	P 42.4	2.3	185.0 - 343.0	P 264.1	12.4	14
Initial Grouping by Reagent								
Abbott MEIA fluorometric	12	39.0 - 73.0	P 56.4	5.9	239.0 - 444.0	P 341.8	46.2	14
Beckman Access luminometric	13	30.0 - 57.0	P 43.5	2.5	191.0 - 354.0	P 272.5	16.8	72
bioMerieux Vidas fluorometr	14	35.0 - 65.0	P 50.3	3.2	234.0 - 434.0	P 334.0	26.1	10
J&J Vitros ECi luminometric	15	27.0 - 49.0	P 38.0	1.9	165.0 - 307.0	P 235.9	14.2	21
Roche Elecsys luminometric	16	39.0 - 73.0	P 56.3	3.3	242.0 - 450.0	P 345.9	22.8	24
Siemens luminometric	17	37.0 - 70.0	P 53.5	1.5	234.0 - 434.0	P 334.2	23.1	21
Siemens CrO2	18	38.0 - 70.0	P 53.9	1.8	221.0 - 411.0	P 316.1	11.9	43
Siemens Coat-A-Count IRMA	19	25.0 - 47.0	P 35.9	5.0	197.0 - 365.0	P 281.0	36.0	10
Siemens Immulite	20	38.0 - 71.0	P 54.8	3.1	215.0 - 400.0	P 307.3	20.3	49
Tosoh AIA Pack fluorometric	21	48.0 - 89.0	P 68.6	96.0	183.0 - 341.0	P 262.0	11.1	28
Initial Grouping by Sensitivity or Principle								

Name	Line No.	Specimen 1			Specimen 2				No. of Labs	
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Immunofluorometric-not FPIA	22	38.0 - 71.0	P	54.8	59.5	195.0 - 362.0	P	278.8	48.6	73
Luminometric	23	35.0 - 65.0	P	50.1	6.4	212.0 - 393.0	P	302.5	35.0	170
Turbidimetric	24	38.0 - 70.0	P	53.7	6.2	193.0 - 359.0	P	276.2	39.9	10
Radiometric	25	25.0 - 47.0	P	35.9	5.0	197.0 - 365.0	P	281.0	36.0	10
Spectrophotometric	26	38.0 - 70.0	P	54.1	2.0	223.0 - 414.0	P	318.2	14.2	53
Total Population										
Whole Population	27	35.0 - 65.0	P	49.8	7.2	210.0 - 390.0	P	299.8	39.1	337

Folate

Initial Grouping by Reagent and Instrument

Abbott ion capture FIA & Abbott AxSYM	1	1.5 - 3.3	C	2.39	0.36	12.0 - 22.2	P	17.08	1.41	18
Beckman Access luminometric & Beckman Access luminometer	2	0.4 - 2.2	C	1.29	0.16	9.4 - 17.5	P	13.44	0.81	53
MP Bio SimulTRAC-SNB RIA & All gamma counters	3	0.8 - 2.6	C	1.69	0.77	10.8 - 20.0	P	15.40	2.26	13
Roche Elecsys, Folate II & Roche Elecsys series	4	1.3 - 3.1	C	2.22	0.53	10.7 - 20.0	P	15.35	1.55	13
Siemens Immulite 2000 & Siemens Immulite 2000	5	0.7 - 2.5	C	1.62	0.26	10.7 - 19.9	P	15.34	1.03	20
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	6	1.5 - 3.3	C	2.44	0.50	7.1 - 13.3	P	10.21	0.66	10

Initial Grouping by Reagent

Abbott ion capture FIA	7	1.5 - 3.3	C	2.43	0.36	12.2 - 22.6	P	17.37	1.61	20
Beckman Access luminometric	8	0.4 - 2.2	C	1.29	0.16	9.4 - 17.4	P	13.39	0.81	60
J&J Vitros ECi luminometric	9	0.4 - 2.2	C	1.26	0.28	9.5 - 17.7	P	13.63	1.69	16
MP Bio SimulTRAC-SNB RIA	10	0.7 - 2.5	C	1.59	0.72	10.8 - 20.0	P	15.40	2.26	13
Roche Elecsys, Folate II	11	1.5 - 3.3	C	2.35	0.53	10.4 - 19.3	P	14.84	1.41	24
Siemens luminometric	12	0.8 - 2.6	C	1.71	0.33	11.2 - 20.8	P	15.99	5.25	10
Siemens Immulite	13	0.8 - 2.6	C	1.69	0.32	11.3 - 21.1	P	16.21	1.77	20
Siemens Immulite 2000	14	0.8 - 2.6	C	1.66	0.22	10.7 - 19.9	P	15.34	1.03	20
Tosoh AIA Pack fluorometric	15	1.5 - 3.3	C	2.37	0.43	7.3 - 13.5	P	10.39	0.88	15

Initial Grouping by Sensitivity or Principle

Immunofluorometric-not FPIA	16	1.5 - 3.3	C	2.40	0.39	10.1 - 18.8	P	14.50	3.73	35
Luminometric	17	0.7 - 2.5	C	1.62	0.51	10.1 - 18.8	P	14.49	2.49	164
Radiometric	18	0.6 - 2.4	C	1.50	0.69	10.8 - 20.0	P	15.40	2.26	13

Total Population

Whole Population	19	0.7 - 2.5	C	1.60	0.31	10.1 - 18.7	P	14.41	1.98	223
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Homocysteine

Initial Grouping by Reagent

Diazyme	1	32.3 - 48.4	P	40.32	3.52	13.3 - 19.9	P	16.59	1.08	17
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Initial Grouping by Sensitivity or Principle

Name	Line No.	Specimen 1			Specimen 2				No. of Labs	
		Range & Type	Mean	SD	Range & Type	Mean	SD			
AxSYM	3	1.6 - 3.4	C	2.54	0.20	22.9 - 42.6	P	32.77	2.20	17
Beckman Access luminometric & Beckman Access luminometer	4	2.2 - 4.1	P	3.13	0.14	30.0 - 55.8	P	42.90	2.07	96
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	5	2.2 - 4.1	P	3.16	0.24	30.4 - 56.5	P	43.46	3.09	52
J&J Vitros ECi luminometric & J&J Vitros ECi	6	0.9 - 2.7	C	1.76	0.09	14.7 - 27.2	P	20.95	1.09	21
Qual FastPack, FastPack IP & Qualigen FastPack	7	2.3 - 4.3	P	3.32	0.47	35.0 - 65.0	P	50.00	0.00	12
Roche Elecsys luminometric & Roche Elecsys series	8	2.1 - 4.0	P	3.07	0.20	28.4 - 52.7	P	40.52	2.21	24
Roche Elecsys luminometric & Roche e411/e601/E170/E2010	9	2.2 - 4.0	P	3.09	0.08	28.5 - 53.0	P	40.78	2.19	10
Siemens Flex TPSA & Siemens Dimension Rxl	10	1.8 - 3.6	C	2.68	0.10	27.2 - 50.5	P	38.85	1.11	13
Siemens Flex TPSA & Siemens Dimension Xpand	11	1.7 - 3.5	C	2.64	0.16	26.5 - 49.1	P	37.79	1.55	46
Siemens Flex TPSA & Siemens Dimension EXL	12	1.7 - 3.5	C	2.64	0.21	26.2 - 48.7	P	37.46	1.70	13
Siemens Immulite & Siemens Immulite 2000	13	1.9 - 3.6	C	2.75	0.30	25.5 - 47.3	P	36.37	3.14	30
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	14	1.4 - 3.2	C	2.34	0.14	21.5 - 39.9	P	30.72	1.39	33
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	15	1.5 - 3.3	C	2.37	0.10	21.6 - 40.1	P	30.88	1.42	31
Initial Grouping by Reagent										
Abbott Aeroset/Architect	16	1.8 - 3.6	C	2.71	0.14	27.0 - 50.2	P	38.58	5.12	13
Abbott 1st gen MEIA	17	1.6 - 3.4	C	2.46	0.11	23.0 - 42.8	P	32.92	2.57	20
Abbott WHO std. ADV/Total	18	1.6 - 3.4	C	2.54	0.20	22.9 - 42.6	P	32.77	2.20	17
Beckman Access luminometric	19	2.2 - 4.1	P	3.13	0.15	30.0 - 55.6	P	42.79	2.11	105
bioMerieux Vidas fluorometr	20	2.2 - 4.1	P	3.17	0.23	30.4 - 56.5	P	43.47	3.01	55
J&J Vitros ECi luminometric	21	0.8 - 2.6	C	1.74	0.09	14.4 - 26.8	P	20.63	1.12	29
Qual FastPack, FastPack IP	22	2.3 - 4.3	P	3.31	0.46	32.3 - 60.1	P	46.20	0.00	13
Roche Elecsys luminometric	23	2.1 - 4.0	P	3.05	0.17	28.1 - 52.2	P	40.17	2.09	47
Siemens CrO2	24	1.8 - 3.6	C	2.69	0.22	26.9 - 49.9	P	38.36	2.64	21
Siemens chemiluminometric	25	1.6 - 3.4	C	2.51	0.12	25.0 - 46.5	P	35.75	2.61	10
Siemens Flex TPSA	26	1.7 - 3.5	C	2.65	0.15	26.5 - 49.3	P	37.92	1.59	110
Siemens Immulite	27	2.0 - 3.8	C	2.94	0.37	26.6 - 49.4	P	37.97	3.42	61
Tosoh AIA Pack fluorometric	28	1.5 - 3.3	C	2.36	0.12	21.5 - 40.0	P	30.76	1.44	67
Initial Grouping by Sensitivity or Principle										
Very low recovery methods	29	0.9 - 2.7	C	1.84	0.23	15.3 - 28.5	P	21.89	3.64	36
Low recovery methods	30	1.8 - 3.6	C	2.68	0.33	25.8 - 47.9	P	36.87	5.02	252
Moderate recovery methods	31	2.0 - 3.8	C	2.88	0.31	27.0 - 50.1	P	38.52	3.27	161
High recovery methods	32	1.9 - 3.7	C	2.80	0.51	23.0 - 42.8	P	32.92	2.57	33

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
All other methods	33	2.2 - 4.1	P	3.13	0.15	30.0 - 55.6	P	42.79	2.11	105
Total Population										
Whole Population	34	1.9 - 3.7	C	2.81	0.35	26.8 - 49.8	P	38.31	4.72	601

Testosterone

Initial Grouping by Reagent and Instrument

Beckman Access luminometric & Beckman Access luminometer	1	83.0 - 154.0	P	118.6	7.3	773.0 - 1435.0	P	1103.7	66.6	37
bioMerieux Vidas fluorometr & bioMerieux mini Vidas/Vidas	2	173.0 - 321.0	P	246.6	22.1	798.0 - 1482.0	P	1139.9	38.8	11
Roche Elecsys luminometric & Roche Elecsys series	3	100.0 - 186.0	P	143.2	16.4	850.0 - 1579.0	P	1214.9	95.1	10
Siemens Immulite & Siemens Immulite 2000	4	124.0 - 231.0	P	177.4	18.4	699.0 - 1297.0	P	998.0	87.7	28
Tosoh AIA Pack fluorometric & Tosoh Medics ST AIA	5	105.0 - 195.0	P	150.1	14.9	963.0 - 1789.0	P	1375.9	117.0	12

Initial Grouping by Reagent

Beckman Access luminometric	6	83.0 - 154.0	P	118.4	7.4	770.0 - 1429.0	P	1099.6	70.2	39
bioMerieux Vidas fluorometr	7	173.0 - 321.0	P	246.6	22.1	798.0 - 1482.0	P	1139.9	38.8	11
Roche Elecsys luminometric	8	99.0 - 184.0	P	141.8	14.4	850.0 - 1578.0	P	1213.7	75.5	20
Siemens luminometric	9	84.0 - 156.0	P	120.1	12.1	884.0 - 1641.0	P	1262.5	180.1	10
Siemens Immulite	10	126.0 - 233.0	P	179.4	19.0	750.0 - 1393.0	P	1071.2	141.4	43
Tosoh AIA Pack fluorometric	11	106.0 - 196.0	P	150.9	14.3	949.0 - 1762.0	P	1355.6	109.5	21

Initial Grouping by Sensitivity or Principle

Immunofluorometric-not FPIA	12	118.0 - 219.0	P	168.4	52.4	835.0 - 1550.0	P	1192.2	262.7	41
Luminometric	13	102.0 - 189.0	P	145.6	30.1	796.0 - 1479.0	P	1137.5	135.9	118

Total Population

Whole Population	14	101.0 - 187.0	P	143.7	26.0	807.0 - 1499.0	P	1153.1	146.6	171
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Triiodothyronine, Free (FT3)

Initial Grouping by Reagent

Beckman Access luminometric	1	2.3 - 4.3	P	3.30	0.30	2.6 - 4.8	P	3.69	0.28	39
Roche Elecsys luminometric	2	2.3 - 4.3	P	3.30	0.13	2.9 - 5.5	P	4.20	0.20	13
Siemens luminometric	3	2.7 - 5.0	P	3.86	0.29	2.6 - 4.9	P	3.74	0.16	10
Siemens Immulite	4	1.9 - 3.5	P	2.68	0.28	3.2 - 5.9	P	4.56	0.40	28

Name	Line No.	Specimen 1			Specimen 2				No. of Labs	
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	5	2.6 - 4.8	P	3.71	1.00	2.6 - 4.9	P	3.75	0.57	16
Luminometric	6	2.3 - 4.3	P	3.27	1.02	2.9 - 5.3	P	4.07	0.53	92
Radiometric	7	2.4 - 4.4	P	3.41	1.09	2.6 - 4.8	P	3.70	0.37	13
Total Population										
Whole Population	8	2.2 - 4.1	P	3.18	0.50	2.8 - 5.2	P	3.96	0.49	127
Vitamin B12										
Initial Grouping by Reagent and Instrument										
Abbott MEIA fluorometric & Abbott AxSYM	1	305.0 - 567.0	P	436.2	24.7	830.0 - 1542.0	P	1185.8	90.4	18
Beckman Access luminometric & Beckman Access luminometer	2	297.0 - 552.0	P	425.0	26.8	950.0 - 1764.0	P	1357.2	155.3	63
J&J Vitros ECi luminometric & J&J Vitros ECi	3	347.0 - 645.0	P	496.4	29.5	695.0 - 1290.0	P	992.3	21.5	10
MP Bio SimulTRAC-SNB & All gamma counters	4	338.0 - 628.0	P	483.2	52.6	1137.0 - 2113.0	P	1625.0	123.0	12
Roche Elecsys luminometric & Roche Elecsys series	5	293.0 - 544.0	P	418.6	44.0	1060.0 - 1968.0	P	1514.2	87.7	17
Siemens Immulite 2000 & Siemens Immulite 2000	6	258.0 - 479.0	P	368.2	34.4	748.0 - 1390.0	P	1069.3	133.4	24
Tosoh AIA Pack fluorometric & Tosoh Medics AIA	7	382.0 - 710.0	P	546.0	43.2	1057.0 - 1964.0	P	1510.6	111.0	14
Initial Grouping by Reagent										
Abbott MEIA fluorometric	8	305.0 - 567.0	P	436.2	24.7	830.0 - 1542.0	P	1185.8	90.4	18
Beckman Access luminometric	9	296.0 - 550.0	P	423.3	28.0	947.0 - 1760.0	P	1353.5	154.0	69
J&J Vitros ECi luminometric	10	339.0 - 630.0	P	484.4	32.6	684.0 - 1270.0	P	976.8	37.7	17
MP Bio SimulTRAC-SNB	11	338.0 - 628.0	P	483.2	52.6	1137.0 - 2113.0	P	1625.0	123.0	12
Roche Elecsys luminometric	12	300.0 - 557.0	P	428.5	54.7	1024.0 - 1901.0	P	1462.7	108.4	34
Siemens Immulite	13	278.0 - 517.0	P	397.4	53.6	775.0 - 1439.0	P	1107.3	115.4	19
Siemens Immulite 2000	14	258.0 - 479.0	P	368.2	34.4	748.0 - 1390.0	P	1069.3	133.4	24
Tosoh AIA Pack fluorometric	15	383.0 - 712.0	P	547.7	40.2	1055.0 - 1960.0	P	1507.3	113.8	18
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	16	345.0 - 642.0	P	493.5	65.5	949.0 - 1763.0	P	1356.0	192.2	36
Luminometric	17	294.0 - 546.0	P	420.1	50.8	904.0 - 1680.0	P	1292.0	213.9	184

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Radiometric	18	323.0 - 600.0 P	461.8	64.4	1133.0 - 2104.0 P	1618.7	121.4	16
Total Population								
Whole Population	19	303.0 - 563.0 P	433.4	56.8	925.0 - 1717.0 P	1320.9	216.1	245



TIBC - UIBC

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Total Iron Binding Capacity (TIBC)										
Initial Grouping by Reagent and Instrument										
Siemens IBCT & Siemens Dimension Rxl	1	142.0 - 236.0 P	189.2	11.6	209.0 - 348.0 P	278.1	14.1		13	
Siemens IBCT & Siemens Dimension Xpand	2	142.0 - 238.0 P	190.0	7.2	207.0 - 344.0 P	275.5	8.5		14	
Initial Grouping by Reagent										
J&J Vitros	3	151.0 - 251.0 P	201.1	22.0	270.0 - 450.0 P	360.0	27.6		22	
Siemens IBCT	4	142.0 - 237.0 P	189.8	11.7	208.0 - 346.0 P	276.8	12.9		55	
Transferrin based calc.	5	157.0 - 261.0 P	209.1	17.3	114.0 - 190.0 P	151.8	10.5		11	
Initial Grouping by Sensitivity or Principle										
IBCT standardized	6	141.0 - 236.0 P	188.6	12.3	212.0 - 354.0 P	282.8	28.4		58	
Low recovery methods	7	143.0 - 238.0 P	190.4	26.1	244.0 - 406.0 P	325.2	36.9		10	
Moderate recovery methods	8	158.0 - 263.0 P	210.6	18.5	182.0 - 304.0 P	243.3	92.0		22	
High recovery methods	9	139.0 - 232.0 P	185.9	41.9	239.0 - 399.0 P	319.0	85.9		37	
Total Population										
Whole Population	10	146.0 - 244.0 P	195.0	20.1	230.0 - 383.0 P	306.3	40.7		137	

Unconjugated Iron Binding Capacity (UIBC)

Initial Grouping by Reagent										
Carolina	1	103.0 - 172.0 P	137.8	9.4	203.0 - 339.0 P	271.1	15.9		13	
DCL/Genzyme UIBC	2	96.0 - 159.0 P	127.4	11.9	191.0 - 318.0 P	254.5	15.6		21	
Beckman Olympus	3	101.0 - 169.0 P	135.1	6.9	195.0 - 325.0 P	260.1	9.7		24	
Roche Cobas	4	97.0 - 162.0 P	129.5	9.2	198.0 - 330.0 P	263.7	14.0		15	
Initial Grouping by Sensitivity or Principle										
Low recovery methods	5	96.0 - 159.0 P	127.5	22.7	191.0 - 318.0 P	254.7	45.5		23	
Moderate recovery methods	6	96.0 - 160.0 P	127.7	14.4	194.0 - 323.0 P	258.3	23.5		40	
High recovery methods	7	99.0 - 165.0 P	132.1	11.9	193.0 - 322.0 P	257.9	15.9		34	
Total Population										
Whole Population	8	99.0 - 165.0 P	131.6	13.5	195.0 - 325.0 P	260.1	23.1		106	

Transferrin

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Whole Population	1	150.0 - 173.0 P	161.3	35.2	100.0 - 115.0 P	107.3	5.2	19



Tumor Markers

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Beta-2-Microglobulin										
Total Population										
Whole Population	1	2.44 - 4.53	P	3.488	0.369	0.0 - 0.55	C	0.247	0.149	10
CA 15-3										
Initial Grouping by Sensitivity or Principle										
Luminometric	1	30.9 - 259.7	S	145.31	38.13	5.5 - 28.3	S	16.89	3.79	21
Total Population										
Whole Population	2	5.4 - 269.3	S	137.33	43.98	5.9 - 27.7	S	16.82	3.64	25
CA 19-9										
Initial Grouping by Sensitivity or Principle										
Luminometric	1	0.0 - 359.8	S	118.75	80.35	0.0 - 28.9	S	13.82	5.02	17
Total Population										
Whole Population	2	0.0 - 347.7	S	110.76	78.98	0.0 - 27.1	S	12.29	4.93	20
CA 27.29										
Initial Grouping by Reagent										
Tosoh AIA Pack fluorometric	1	122.0 - 152.9	S	137.46	5.16	13.4 - 19.4	C	16.42	0.91	11
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	2	122.0 - 152.9	S	137.46	5.16	13.4 - 19.4	C	16.42	0.91	11
Total Population										
Whole Population	3	57.0 - 277.6	S	167.34	36.76	11.9 - 20.2	S	16.04	1.39	19
CA-125										
Initial Grouping by Reagent										
Roche Elecsys luminometric	1	91.0 - 168.0	P	129.4	3.8	1.0 - 19.0	C	9.6	1.2	15
Siemens luminometric	2	96.0 - 177.0	P	136.5	10.0	1.0 - 19.0	C	9.7	1.1	10
Siemens Immulite	3	100.0 - 186.0	P	142.8	13.9	0.0 - 17.0	C	8.4	1.2	11
Initial Grouping by Sensitivity or Principle										
Immunofluorometric-not FPIA	4	131.0 - 243.0	P	187.3	24.7	2.0 - 20.0	C	10.8	1.0	10

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Luminometric	5	93.0 - 173.0	P	133.4	14.9	0.0 - 18.0	C	8.9	1.5	53
Total Population										
Whole Population	6	94.0 - 174.0	P	134.2	15.2	0.0 - 18.0	C	9.2	1.6	67

Carcinoembryonic Antigen (CEA)

Initial Grouping by Reagent and Instrument

Beckman Access luminometric & Beckman Access luminometer	1	25.2 - 46.9	P	36.07	1.64	0.0 - 2.4	C	1.18	0.09	14
Siemens Immulite & Siemens Immulite 2000	2	32.8 - 61.0	P	46.93	2.54	0.0 - 2.3	C	1.09	0.12	15

Initial Grouping by Reagent

Beckman Access luminometric	3	25.4 - 47.1	P	36.25	1.85	0.0 - 2.4	C	1.18	0.08	17
Roche Elecsys luminometric	4	23.1 - 42.8	P	32.95	1.77	0.0 - 2.2	C	1.03	0.13	18
Siemens luminometric	5	27.1 - 50.3	P	38.69	3.71	0.4 - 2.8	C	1.63	0.44	10
Siemens Immulite	6	33.1 - 61.6	P	47.35	2.75	0.0 - 2.3	C	1.07	0.13	22
Tosoh AIA Pack fluorometric	7	38.2 - 70.9	P	54.54	1.40	0.8 - 3.2	C	2.01	0.11	15

Initial Grouping by Sensitivity or Principle

Lower recovery methods	8	25.2 - 46.8	P	35.96	5.77	0.0 - 2.3	C	1.09	0.25	53
Higher recovery methods	9	33.4 - 62.0	P	47.66	6.29	0.3 - 2.7	C	1.49	0.48	47

Total Population

Whole Population	10	28.8 - 53.5	P	41.13	7.31	0.0 - 2.4	C	1.18	0.18	104
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Prostate-Specific Antigen, Free

Initial Grouping by Reagent and Instrument

Beckman Access luminometric & Beckman Access luminometer	1	15.0 - 27.8	P	21.42	1.65	0.0 - 0.9	C	0.00	0.00	10
Siemens Immulite 2000, 2500 & Siemens Immulite 2000	2	11.2 - 20.8	P	16.01	0.85	0.0 - 1.0	C	0.10	0.00	10

Initial Grouping by Reagent

Beckman Access luminometric	3	15.1 - 28.0	P	21.56	1.64	0.0 - 1.0	C	0.10	0.00	11
Siemens Immulite 2000, 2500	4	11.2 - 20.8	P	16.01	0.85	-				10

Initial Grouping by Sensitivity or Principle

Moderate recovery methods	5	12.5 - 23.3	P	17.91	3.43	0.0 - 0.9	C	0.05	0.05	35
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Total Population

Whole Population	6	12.8 - 23.8	P	18.31	2.55	0.0 - 1.0	C	0.06	0.10	46
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Prostatic Acid Phosphatase (PAP)

Whole Population	1	7.1 - 13.1	P	10.10	14.00	0.0 - 1.3	C	0.10	0.14	2
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Urine Chemistry

Name	Line No.	Specimen 1			Specimen 2			No. of Labs		
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Amylase - Urine Chemistry										
Initial Grouping by Method										
Beckman AMY	1	79.7 - 148.0	P	113.82	15.54	188.6 - 350.3	P	269.45	39.55	11
Siemens Dimension	2	51.3 - 95.2	P	73.25	4.96	130.9 - 243.1	P	187.00	5.19	21
Initial Grouping by Sensitivity or Principle										
Moderate recovery methods	3	53.1 - 98.6	P	75.87	8.34	133.7 - 248.3	P	191.00	11.90	24
High recovery methods	4	78.4 - 145.6	P	112.00	16.10	186.8 - 346.9	P	266.83	38.78	12
Total Population										
Whole Population	5	54.0 - 100.2	P	77.10	13.83	133.9 - 248.7	P	191.33	26.68	49
Calcium - Urine Chemistry										
Initial Grouping by Reagent										
Beckman ISE	1	7.8 - 9.8	C	8.82	0.14	2.8 - 4.8	C	3.82	0.25	12
Siemens Dimension OCPC	2	8.1 - 10.1	C	9.09	0.25	4.0 - 6.0	C	4.96	0.24	22
Initial Grouping by Sensitivity or Principle										
Arsenazo-based	3	7.9 - 9.9	C	8.95	0.23	3.2 - 5.2	C	4.15	0.28	17
OCPC (o-cresolphth complex)	4	8.0 - 10.0	C	9.02	0.27	3.8 - 5.8	C	4.76	0.43	30
Other, electrochemical	5	7.8 - 9.8	C	8.82	0.14	2.8 - 4.8	C	3.82	0.25	12
Total Population										
Whole Population	6	7.9 - 9.9	C	8.93	0.26	3.4 - 5.4	C	4.35	0.54	63
Chloride - Urine Chemistry										
Initial Grouping by Reagent and Instrument										
Beckman dil ISE & Beckman Unicel DXC series	1	88.0 - 97.0	P	92.3	1.5	233.0 - 258.0	P	245.4	5.4	16
Siemens Dimen Xpand, EXL & Siemens Dimension EXL	2	106.0 - 117.0	P	111.2	6.7	248.0 - 274.0	P	261.0	8.7	10
Initial Grouping by Reagent										
Beckman dil ISE	3	88.0 - 97.0	P	92.3	1.5	232.0 - 256.0	P	244.0	6.3	21
Beckman Olympus dil ISE	4	98.0 - 108.0	P	103.0	2.3	249.0 - 275.0	P	261.9	5.3	10
Siemens Dimen Xpand, EXL	5	107.0 - 118.0	P	112.5	6.4	250.0 - 276.0	P	263.0	8.4	17
Initial Grouping by Sensitivity or Principle										

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Diluted ISE	6	96.0 - 106.0	P	100.9	10.0	242.0 - 267.0	P	254.3	10.8	60
Total Population										
Whole Population	7	97.0 - 107.0	P	102.1	10.4	242.0 - 268.0	P	254.8	10.7	69

Creatinine - Urine Chemistry

Initial Grouping by Reagent and Instrument

Beckman Synchron & Beckman Unicel DXC series	1	66.3 - 89.8	P	78.05	2.47	185.1 - 250.5	P	217.81	5.26	11
Beckman Synchron IMDS trace & Beckman Unicel DXC series	2	65.6 - 88.8	P	77.19	1.29	180.1 - 243.7	P	211.92	5.72	13
Siemens Dimension & Siemens Dimension Xpand	3	56.5 - 76.4	P	66.46	1.49	160.7 - 217.5	P	189.09	4.92	17
Siemens Dimension & Siemens Dimension EXL	4	62.2 - 84.2	P	73.21	2.05	172.2 - 232.9	P	202.54	7.93	14

Initial Grouping by Method

Beckman Synchron	5	66.4 - 89.8	P	78.13	2.36	183.7 - 248.5	P	216.11	5.45	15
Beckman Synchron IMDS trace	6	65.2 - 88.2	P	76.73	1.69	179.2 - 242.5	P	210.84	6.02	15
J&J Vitros	7	53.2 - 71.9	P	62.55	5.41	154.5 - 209.1	P	181.79	16.25	17
Beckman Olympus	8	61.7 - 83.5	P	72.63	2.42	171.7 - 232.3	P	201.97	7.39	16
Siemens Dimension	9	59.5 - 80.5	P	69.98	3.99	166.3 - 224.9	P	195.60	10.80	49

Initial Grouping by Sensitivity or Principle

Chemiluminometric	10	60.7 - 82.2	P	71.46	5.67	169.5 - 229.3	P	199.41	13.54	135
Total Population										
Whole Population	11	60.3 - 81.5	P	70.90	5.97	168.0 - 227.2	P	197.61	14.72	149

Glucose - Urine Chemistry

Initial Grouping by Reagent

Siemens Dimension HK	1	18.0 - 30.0	C	23.5	1.4	244.0 - 298.0	P	270.8	3.8	16
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Initial Grouping by Sensitivity or Principle

HexoKinase (HK) low recov	2	18.0 - 30.0	C	24.3	1.4	246.0 - 300.0	P	273.1	6.8	30
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Total Population

Whole Population	3	19.0 - 31.0	C	24.9	1.7	249.0 - 304.0	P	276.5	9.0	43
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Magnesium - Urine Chem

Whole Population	1	3.3 - 5.4	P	4.33	0.48	6.6 - 11.0	P	8.76	0.62	29
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Osmolality - Urine Chemistry

Whole Population	1	383.0 - 468.0	P	425.2	3.0	814.0 - 995.0	P	904.1	7.3	8
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Phosphorous - Urine Chemistry

Initial Grouping by Reagent

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Siemens Dimension UV/bic/SB	1	17.0 - 23.0	C	19.9	1.0	58.0 - 79.0	P	68.4	3.3	17
Initial Grouping by Sensitivity or Principle										
UV-bichromatic-sam blanked	2	17.0 - 23.0	C	19.8	1.0	57.0 - 78.0	P	67.6	3.7	21
Total Population										
Whole Population	3	17.0 - 23.0	C	19.7	1.1	57.0 - 76.0	P	66.5	3.5	41

Potassium - Urine Chemistry

Initial Grouping by Reagent and Instrument										
Beckman dil ISE & Beckman Unicel DXC series	1	20.0 - 27.0	P	23.0	0.5	86.0 - 116.0	P	100.7	1.6	21
Siemens Dimen Xpand, ExL & Siemens Dimension Xpand	2	20.0 - 27.0	P	23.1	0.5	86.0 - 117.0	P	101.6	2.0	12
Siemens Dimen Xpand, ExL & Siemens Dimension EXL	3	20.0 - 26.0	P	23.0	0.0	85.0 - 115.0	P	100.4	1.9	12
Initial Grouping by Reagent										
Beckman dil ISE	4	20.0 - 26.0	P	23.0	0.5	86.0 - 116.0	P	101.0	1.6	25
J&J Vitros und ISE	5	19.0 - 26.0	P	22.2	0.8	93.0 - 125.0	P	109.0	3.8	16
Beckman Olympus dil ISE	6	20.0 - 28.0	P	24.0	0.9	90.0 - 122.0	P	106.0	2.6	10
Siemens Dimen Xpand, ExL	7	20.0 - 26.0	P	23.0	0.6	86.0 - 116.0	P	100.7	2.3	32
Initial Grouping by Sensitivity or Principle										
Diluted ISE results	8	21.0 - 28.0	P	24.4	9.9	85.0 - 116.0	P	100.5	9.3	80
Undiluted ISE results	9	19.0 - 26.0	P	22.2	0.8	90.0 - 122.0	P	105.7	6.8	23
Total Population										
Whole Population	10	19.0 - 26.0	P	22.9	0.9	87.0 - 118.0	P	102.5	4.6	106

Sodium - Urine Chemistry

Initial Grouping by Reagent and Instrument										
Beckman dil ISE & Beckman Unicel DXC series	1	87.0 - 95.0	C	90.8	1.7	184.0 - 200.0	P	192.1	3.7	22
Siemens Dimen Xpand, ExL & Siemens Dimension Xpand	2	84.0 - 92.0	C	87.9	0.7	177.0 - 192.0	P	184.8	1.6	13
Siemens Dimen Xpand, ExL & Siemens Dimension EXL	3	84.0 - 92.0	C	88.2	1.4	178.0 - 193.0	P	185.4	2.6	12
Initial Grouping by Reagent										
Beckman dil ISE	4	87.0 - 95.0	C	90.8	1.6	184.0 - 200.0	P	192.1	3.4	26
J&J Vitros und ISE	5	89.0 - 97.0	C	93.2	3.5	191.0 - 206.0	P	198.4	5.4	16
Beckman Olympus dil ISE	6	87.0 - 95.0	C	90.8	1.7	191.0 - 206.0	P	198.5	2.7	10
Siemens Dimen Xpand, ExL	7	84.0 - 92.0	C	88.0	1.2	177.0 - 191.0	P	184.1	2.8	33
Initial Grouping by Sensitivity or Principle										
Diluted ISE	8	86.0 - 94.0	C	90.0	3.6	183.0 - 198.0	P	190.6	7.3	82
Undiluted ISE	9	87.0 - 95.0	C	91.1	4.4	185.0 - 200.0	P	192.5	10.4	23
Total Population										

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD			
Whole Population	10	86.0 - 94.0	C	90.1	3.9	183.0 - 198.0	P	190.8	8.1	108

Protein, Total - Urine Chemistry

Initial Grouping by Reagent and Instrument

Beckman Coulter M-TP & Beckman Unicel DXC series	1	11.2 - 18.7	P	14.98	1.22	70.7 - 117.9	P	94.32	3.65	17
Siemens Dimension & Siemens Dimension Xpand	2	13.3 - 22.2	P	17.75	0.78	67.5 - 112.5	P	90.03	1.76	17
Siemens Dimension & Siemens Dimension EXL	3	13.2 - 22.0	P	17.60	0.70	67.8 - 113.0	P	90.38	1.20	12

Initial Grouping by Reagent

Beckman LX series	4	11.3 - 18.9	P	15.10	2.15	70.9 - 118.1	P	94.49	6.75	11
Beckman Coulter M-TP	5	11.3 - 18.8	P	15.04	1.14	70.5 - 117.5	P	94.02	3.46	20
J&J Vitros unc	6	16.5 - 27.5	P	22.00	1.59	82.2 - 137.0	P	109.61	7.97	21
Beckman Olympus	7	9.4 - 15.6	P	12.47	0.75	65.6 - 109.4	P	87.52	5.24	14
Siemens Dimension	8	13.5 - 22.5	P	17.98	0.86	67.9 - 113.2	P	90.53	1.59	44

Initial Grouping by Sensitivity or Principle

Bichromatic-sample blanked	9	13.3 - 22.2	P	17.73	1.42	67.8 - 112.9	P	90.34	1.78	46
Pyrogallol red	10	10.2 - 16.9	P	13.55	1.98	67.9 - 113.2	P	90.56	5.96	43
Rate	11	11.2 - 18.7	P	14.95	1.81	70.6 - 117.7	P	94.14	5.52	17
Uncorrected	12	16.5 - 27.5	P	22.00	1.59	82.2 - 137.0	P	109.61	7.97	21

Total Population

Whole Population	13	12.0 - 20.0	P	16.00	2.79	69.4 - 115.7	P	92.59	8.55	144
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Urea Nitrogen - Urine Chemistry

Initial Grouping by Reagent

J&J Vitros	1	294.0 - 352.0	P	323.3	9.9	580.0 - 695.0	P	637.3	17.2	11
Siemens Dimension GLDH-rate	2	341.0 - 408.0	P	374.8	21.5	657.0 - 786.0	P	721.6	43.5	20

Initial Grouping by Sensitivity or Principle

Ammonia (NH3) diffusion	3	294.0 - 352.0	P	323.3	9.9	580.0 - 695.0	P	637.3	17.2	11
Glutamate DH-rate methods	4	332.0 - 398.0	P	365.2	22.6	634.0 - 760.0	P	697.1	46.2	40

Total Population

Whole Population	5	324.0 - 388.0	P	356.1	26.8	623.0 - 746.0	P	684.4	47.8	53
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Uric Acid - Urine Chemistry

Initial Grouping by Reagent

Siemens Dimension	1	3.8 - 5.4	P	4.61	0.74	5.8 - 8.2	P	7.02	0.73	19
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Initial Grouping by Sensitivity or Principle

Endpt-corrected(bic or SB)	2	3.7 - 5.2	P	4.44	0.99	5.0 - 7.1	P	6.08	0.60	15
Rate	3	4.2 - 5.9	P	5.06	0.98	6.3 - 8.8	P	7.54	1.00	28

Total Population

Name	Line No.	Specimen 1				Specimen 2				No. of Labs
		Range & Type	Mean	SD		Range & Type	Mean	SD		
Whole Population	4	3.9 - 5.5	P	4.69	0.88	5.8 - 8.1	P	6.97	1.10	50

Name	Line No.	Specimen 1			Specimen 2			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	
Dimension Xpand	3	178.0 - 240.0 P	209.1	12.0	180.0 - 244.0 P	211.8	8.1	19
Initial Grouping by Reagent								
Beckman Synchron	4	201.0 - 272.0 P	236.8	8.9	201.0 - 272.0 P	236.3	8.4	29
Carolina	5	199.0 - 270.0 P	234.7	8.8	200.0 - 271.0 P	235.7	8.9	10
J&J Vitros	6	187.0 - 254.0 P	220.6	7.2	187.0 - 253.0 P	219.8	11.9	14
Beckman Olympus	7	195.0 - 263.0 P	229.1	16.7	193.0 - 261.0 P	227.2	17.4	20
Siemens DCA 2000	8	200.0 - 270.0 P	234.8	7.9	198.0 - 268.0 P	232.6	7.9	49
Siemens Dimension	9	183.0 - 248.0 P	215.2	14.2	185.0 - 250.0 P	217.7	12.9	47
Siemens DCA Vantage	10	199.0 - 269.0 P	234.2	10.5	197.0 - 267.0 P	232.3	13.7	13
Initial Grouping by Sensitivity or Principle								
Jaffe/modified Jaffe	11	192.0 - 260.0 P	226.1	14.9	192.0 - 260.0 P	226.1	14.4	230
Total Population								
Whole Population	12	193.0 - 261.0 P	227.1	17.2	193.0 - 261.0 P	227.2	16.8	250



**PROFICIENCY TESTING SERVICE
AMERICAN ASSOCIATION OF BIOANALYSTS**

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FIRST QUADRIMESTER 2011

Whole Blood Glucose (WBG or Blood Glucose)

Name	Line No.	Specimen 1				Specimen 2				Specimen 3			Specimen 4			Specimen 5			No. of Labs			
		Range & Type	Mean	SD		Range & Type	Mean	SD		Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD				
Initial Grouping by Method																						
Abbott/MediSense Optium	1	177.0 - 265.0	P	221	10.6	84.0 - 126.0	P	105.1	2.8	-	-	-	-	-	-	-	-	-	14			
Abbt/Med Pre PCx Lot 6xxxx	2	189.0 - 284.0	P	236.8	13.9	93.0 - 139.0	P	116.1	6.9	25.0 - 38.0	P	31.3	1.8	252.0 - 378.0	P	315	13.7	158.0 - 238.0	P	198.1	8.5	320
Abbott/MediSense Pre. Xtra	3	179.0 - 268.0	P	223.6	14.6	86.0 - 129.0	P	107.1	8.2	17.0 - 29.0	C	23	2.8	248.0 - 372.0	P	309.7	14.4	151.0 - 226.0	P	188.4	10.1	94
Abbott FreeStyle	4	148.0 - 222.0	P	185.1	14.5	73.0 - 109.0	P	91.2	6.6	19.0 - 31.0	C	24.8	2.9	194.0 - 290.0	P	241.9	18.5	121.0 - 182.0	P	151.7	8.9	23
Arkray Assure 4	5	275.0 - 413.0	P	343.8	25.3	144.0 - 216.0	P	180.4	12.2	-	-	-	-	-	-	-	-	-	-	-	-	14
Bayer Ascensia Contour 5 sc	6	117.0 - 176.0	P	146.5	5.3	58.0 - 86.0	P	72.1	5.6	10.0 - 22.0	C	16.5	0.7	158.0 - 236.0	P	196.9	6.3	96.0 - 144.0	P	119.9	4.1	113
Bayer Ascens Contour 15 sec	7	163.0 - 244.0	P	203.4	6.8	68.0 - 102.0	P	85	2.5	-	-	-	-	-	-	-	-	-	-	-	-	13
HemoCue Glucose 201	8	157.0 - 235.0	P	195.8	5.5	93.0 - 139.0	P	116.1	6.1	45.0 - 67.0	P	56	3.9	201.0 - 301.0	P	251.2	6.2	136.0 - 204.0	P	170.2	4.3	48
Hypoguard Assure Pro	9	187.0 - 281.0	P	234.4	21.7	73.0 - 110.0	P	91.4	7.8	16.0 - 28.0	C	21.5	1.4	257.0 - 386.0	P	321.4	35.5	137.0 - 206.0	P	171.8	13.9	16
LifeScan One Touch Ultra,II	10	162.0 - 242.0	P	202	9.6	74.0 - 111.0	P	92.3	5.4	14.0 - 26.0	C	20	0	218.0 - 327.0	P	272.7	11.3	137.0 - 205.0	P	170.8	7.7	44
LifeScan SureStep	11	172.0 - 259.0	P	215.5	39.5	75.0 - 113.0	P	93.9	14.9	24.0 - 36.0	C	29.5	2.8	297.0 - 446.0	P	371.4	20.9	147.0 - 220.0	P	183.7	14.7	29
LifeScan SureStep Flexx	12	179.0 - 268.0	P	223.6	23.7	82.0 - 123.0	P	102.5	6.1	24.0 - 36.0	P	30	1.8	272.0 - 408.0	P	340.2	21.2	144.0 - 217.0	P	180.6	14.3	190
Nova Biomedical Stat Strip	13	132.0 - 198.0	P	164.7	10	65.0 - 98.0	P	81.4	4.2	13.0 - 25.0	C	19.3	2	184.0 - 276.0	P	230	17	110.0 - 165.0	P	137.6	7.6	56
Roche Accu-Chek Advntg/GDH	14	128.0 - 191.0	P	159.6	7.7	58.0 - 87.0	P	72.8	4.4	7.0 - 19.0	C	13.1	2.5	178.0 - 267.0	P	222.2	11.1	103.0 - 154.0	P	128.3	6.2	80
Roche Accu-Chek Aviva	15	134.0 - 200.0	P	166.9	5.8	66.0 - 99.0	P	82.4	3.3	16.0 - 28.0	C	21.9	2.7	178.0 - 267.0	P	222.5	6.4	112.0 - 169.0	P	140.4	4.9	80
Roche Accu-Chek Comf Curve	16	129.0 - 193.0	P	160.8	9.2	59.0 - 88.0	P	73.4	4.7	7.0 - 19.0	C	13.3	2.7	180.0 - 271.0	P	225.5	12.5	105.0 - 158.0	P	131.4	8	201
Roche Accu-Chek Inform	17	128.0 - 193.0	P	160.5	7.2	58.0 - 88.0	P	73.1	4	6.0 - 18.0	C	12.5	1.9	178.0 - 268.0	P	223	10	103.0 - 154.0	P	128.4	6	860
Roche AccuData GTS	18	124.0 - 186.0	P	155.1	9	56.0 - 84.0	P	69.7	4.4	4.0 - 16.0	C	10.1	0.5	175.0 - 262.0	P	218.7	9.2	100.0 - 151.0	P	125.5	6.9	52
TrueTrack Smart System	19	383.0 - 575.0	P	479	13.8	213.0 - 320.0	P	266.5	6.8	-	-	-	-	-	-	-	-	-	-	-	-	16

Correct responses are defined as those reflecting agreement among 80% or more of all participants.

Whole Blood Glucose (WBG or Blood Glucose)

FIRST QUADRIMESTER 2011

Name	Line No.	Specimen 1				Specimen 2			Specimen 3			Specimen 4			Specimen 5			No. of Labels				
		Range & Type	Mean	SD		Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD					
Abbott Precision Xceed Pro	20	166.0 - 249.0	P	207.7	21.4	77.0 - 116.0	P	96.4	13.2	21.0 - 33.0	C	27.4	6.4	231.0 - 346.0	P	288.2	28	143.0 - 214.0	P	178.5	20.5	397
PSS World Medical Quintet	21	157.0 - 235.0	P	195.7	8.2	70.0 - 105.0	P	87.6	4.1	-	-	-	-	-	-	-	-	-	-	-	-	18
Abbt/Med Pre PCx Plus	22	183.0 - 274.0	P	228.5	21.9	88.0 - 132.0	P	109.9	11.6	30.0 - 44.0	P	37	13.1	243.0 - 365.0	P	304.3	15.8	156.0 - 234.0	P	194.7	9.5	18
Abbott Optium EZ	23	182.0 - 274.0	P	228.1	18.4	87.0 - 130.0	P	108.2	6.7	18.0 - 30.0	C	23.7	3.2	237.0 - 355.0	P	295.8	21.2	150.0 - 225.0	P	187.4	5.6	12
Arkray Assure Platinum	24	230.0 - 346.0	P	287.9	14.4	89.0 - 134.0	P	111.4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	18
Initial Grouping by Sensitivity or Principle																						
Hypoguard Supreme	25	211.0 - 316.0	P	263.5	45.3	93.0 - 140.0	P	116.8	36.4	20.0 - 32.0	C	26.2	11.5	268.0 - 401.0	P	334.4	41.4	150.0 - 224.0	P	187	33.9	25
LifeScan SureStep (P/S)	26	178.0 - 267.0	P	222.3	26.2	81.0 - 122.0	P	101.3	8.3	24.0 - 36.0	C	30	2.1	276.0 - 414.0	P	345.4	25.4	144.0 - 216.0	P	180.4	14.5	227
Abbott/MediSens 2nd gen sys	27	174.0 - 261.0	P	217.5	20.4	84.0 - 125.0	P	104.5	9.5	17.0 - 29.0	C	23.3	2.8	233.0 - 350.0	P	291.4	30	144.0 - 217.0	P	180.5	16.5	144
Roche Chemstrip bG	28	129.0 - 193.0	P	160.7	7.8	59.0 - 88.0	P	73.6	4.8	7.0 - 19.0	C	13.3	3.6	178.0 - 267.0	P	222.9	10.1	104.0 - 155.0	P	129.6	7.3	1195
Other low mod rcvry methods	29	166.0 - 249.0	P	207.2	17	76.0 - 113.0	P	94.5	8.7	24.0 - 37.0	P	30.5	8.5	227.0 - 341.0	P	283.9	36.2	140.0 - 210.0	P	175.4	13.9	57
Other mod recovery methods	30	149.0 - 223.0	P	186.1	88.3	72.0 - 108.0	P	90.1	49.2	20.0 - 32.0	C	26	13.3	210.0 - 315.0	P	262.5	115.3	133.0 - 199.0	P	166.2	95.3	235
Other high mod rvry methods	31	127.0 - 191.0	P	159.3	7.7	58.0 - 87.0	P	72.6	4.4	7.0 - 19.0	C	13.1	2.5	178.0 - 267.0	P	222.2	11.1	103.0 - 154.0	P	128.3	6.2	87
Other very high rvry method	32	156.0 - 234.0	P	195	7.5	92.0 - 138.0	P	115.2	8.7	45.0 - 67.0	P	56	3.9	201.0 - 301.0	P	251.2	6.2	136.0 - 204.0	P	170.2	4.3	49
Other	33	177.0 - 265.0	P	220.8	23.5	84.0 - 126.0	P	105.1	14.6	24.0 - 36.0	P	30.4	5.7	245.0 - 367.0	P	305.7	24.3	153.0 - 230.0	P	191.4	16.7	738
Arkray Assure series	34	243.0 - 365.0	P	304	44.8	111.0 - 166.0	P	138.3	36.2	19.0 - 31.0	C	25.4	1.9	327.0 - 490.0	P	408.2	19.9	178.0 - 268.0	P	223.1	24.1	36
Total Population																						
Whole Population	35	149.0 - 223.0	P	186	32.7	69.0 - 103.0	P	86.2	16.3	15.0 - 27.0	C	21.4	4.3	206.0 - 308.0	P	257	44.7	122.0 - 184.0	P	153	28.7	2894

Correct responses are defined as those reflecting agreement among 80% or more of all participants.