



Comprehensive Chemistry

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	
Alpha-fetoprotein																	
Initial Grouping by Reagent and Instrument																	
Roche Elecsys & Roche Cobas 6000, 8000	1	173.0 - 251.7	S 212.35	13.1	29.4 - 40.0	S 34.7	1.77	60.9 - 86.6	S 73.75	4.27	156.7 - 201.2	S 178.98	7.41	237.2 - 325.8	S 281.53	14.76	4
Initial Grouping by Reagent																	
Roche Elecsys	2	181.7 - 252.7	S 217.19	11.84	30.6 - 41.4	S 36.02	1.8	57.8 - 89.5	S 73.66	5.29	156.4 - 209.7	S 183.03	8.89	228.6 - 334.8	S 281.67	17.71	11
Initial Grouping by Sensitivity or Principle																	
Luminometric	3	152.1 - 263.1	S 207.56	18.5	25.2 - 43.6	S 34.42	3.06	50.2 - 91.0	S 70.59	6.79	127.7 - 220.4	S 174.08	15.44	197.7 - 345.1	S 271.41	24.55	17
All Siemens Methods	4	140.0 - 283.6	S 211.82	23.92	20.6 - 49.7	S 35.12	4.85	45.9 - 95.9	S 70.94	8.33	118.8 - 230.7	S 174.74	18.65	173.2 - 372.8	S 273.0	33.28	5
Total Population																	
Whole Population	5	151.0 - 266.1	S 208.53	19.18	24.4 - 45.1	S 34.75	3.45	50.2 - 91.5	S 70.82	6.89	127.7 - 221.0	S 174.32	15.55	194.8 - 349.0	S 271.89	25.69	24
Amylase																	
Initial Grouping by Reagent and Instrument																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	86 - 159	P 122.5	3.0	22 - 41	P 31.8	1.2	35 - 66	P 50.5	1.4	74 - 137	P 105.2	2.7	111 - 206	P 158.2	4.4	13
Alfa Wassermann & Alfa Wasser Acela/Alera	2	87 - 161	P 123.8	7.7	22 - 42	P 32.0	1.7	36 - 66	P 50.8	2.5	73 - 136	P 104.8	5.2	111 - 207	P 159.0	8.0	5
Beckman AMY, AMY7 & Beck Coulter Unicel DXC	3	83 - 154	P 118.2	1.7	24 - 44	P 33.7	1.2	35 - 66	P 50.5	0.8	72 - 133	P 102.2	1.1	106 - 197	P 151.8	2.0	6
Beckman Olympus & Beck Olym AU 400/600/5400	4	65 - 121	P 93.2	6.7	17 - 31	P 24.2	1.6	27 - 50	P 38.4	2.6	56 - 104	P 79.8	6.0	83 - 155	P 118.9	8.7	19
Beckman Olympus & Beckman AU 480	5	67 - 124	P 95.2	3.6	17 - 32	P 24.8	1.2	27 - 51	P 39.2	1.6	57 - 106	P 81.3	3.3	85 - 159	P 122.1	4.6	14
Ortho Vitros & Ortho Vitros 3600, 5600	6	50 - 92	P 71.1	4.8	21 - 39	P 30.0	0.0	21 - 39	P 30.0	0.0	42 - 78	P 60.1	6.4	70 - 130	P 100.3	7.3	18
Ortho Vitros & Ortho Vitros not DT or ECi	7	53 - 98	P 75.6	4.6	21 - 39	P 30.0	0.0	23 - 42	P 32.2	2.2	44 - 82	P 63.2	2.6	69 - 128	P 98.4	5.2	14
Roche Cobas & Roche Cobas 6000, 8000	8	76 - 141	P 108.2	1.3	21 - 39	P 30.1	0.5	32 - 60	P 46.2	0.7	65 - 121	P 92.7	1.7	97 - 180	P 138.5	2.7	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	75 - 139	P 107.3	3.8	21 - 39	P 30.1	1.0	32 - 60	P 46.0	1.4	65 - 120	P 92.6	2.9	97 - 180	P 138.7	4.5	7
Siemens Dimension & Siemens Dimension EXL	10	89 - 164	P 126.5	1.6	22 - 42	P 32.1	0.7	36 - 67	P 51.8	1.0	76 - 141	P 108.3	1.8	114 - 212	P 163.3	2.0	44
Siemens Dimension & Siemens Dimension Xpand	11	89 - 165	P 127.1	2.8	23 - 42	P 32.3	1.0	36 - 67	P 51.5	2.2	77 - 142	P 109.5	2.4	116 - 216	P 165.8	3.7	8
Initial Grouping by Reagent																	
Abbott Aeroset/Architect	12	86 - 159	P 122.5	3.0	22 - 41	P 31.8	1.2	35 - 66	P 50.5	1.4	74 - 137	P 105.2	2.7	111 - 206	P 158.2	4.4	13
Alfa Wassermann	13	87 - 161	P 123.8	7.7	22 - 42	P 32.0	1.7	36 - 66	P 50.8	2.5	73 - 136	P 104.8	5.2	111 - 207	P 159.0	8.0	5
Beckman AMY, AMY7	14	79 - 147	P 113.0	12.4	22 - 41	P 31.3	4.1	34 - 62	P 47.9	5.3	68 - 127	P 97.4	10.6	102 - 189	P 145.7	16.0	9
Beckman Olympus	15	66 - 123	P 94.6	6.1	17 - 32	P 24.7	1.7	27 - 51	P 39.1	2.5	57 - 105	P 80.9	5.3	85 - 157	P 121.0	7.9	35
Ortho Vitros	16	51 - 95	P 73.1	5.1	21 - 39	P 30.0	0.0	22 - 40	P 30.9	1.8	43 - 80	P 61.3	5.3	70 - 129	P 99.5	6.4	34
Roche Cobas	17	76 - 141	P 108.4	2.8	21 - 39	P 30.3	0.8	32 - 60	P 46.4	1.2	65 - 121	P 93.1	2.5	97 - 181	P 139.2	3.7	21
Sekisui	18	79 - 146	P 112.4	3.8	21 - 39	P 29.9	1.6	33 - 61	P 46.6	1.6	68 - 126	P 97.3	4.9	102 - 190	P 146.4	7.8	7
Siemens Dimension	19	89 - 165	P 126.6	1.8	22 - 42	P 32.1	0.7	36 - 67	P 51.7	1.3	76 - 141	P 108.5	1.9	115 - 213	P 163.7	2.5	55
Initial Grouping by Sensitivity or Principle																	
Standardized methods	20	83 - 154	P 118.4	10.7	22 - 41	P 31.4	2.8	34 - 64	P 49.2	4.1	71 - 132	P 101.8	8.8	107 - 198	P 152.7	13.9	44
All Beckman	21	66 - 123	P 94.6	6.1	17 - 32	P 24.7	1.7	27 - 51	P 39.1	2.5	57 - 105	P 80.9	5.3	85 - 157	P 121.0	7.9	35
Vitros and related	22	51 - 95	P 73.1	5.1	21 - 39	P 30.0	0.0	22 - 40	P 30.9	1.8	43 - 80	P 61.3	5.3	70 - 129	P 99.5	6.4	34
Roche and related	23	76 - 141	P 108.4	2.8	21 - 39	P 30.3	0.8	32 - 60	P 46.4	1.2	65 - 121	P 93.1	2.5	97 - 181	P 139.2	3.7	21
Siemens and related	24	88 - 164	P 126.3	2.6	22 - 42	P 32.1	0.7	36 - 67	P 51.6	1.3	76 - 141	P 108.3	2.3	114 - 212	P 163.4	3.2	56
Other no cofactor	25	82 - 153	P 117.8	11.7	21 - 39	P 30.3	2.9	34 - 62	P 48.0	5.4	70 - 130	P 100.0	10.3	107 - 199	P 153.3	12.9	4
Total Population																	
Whole Population	26	75 - 139	P 107.2	20.3	21 - 39	P 30.0	3.1	31 - 58	P 44.5	8.0	64 - 119	P 91.9	17.8	97 - 181	P 139.1	24.9	197
Bilirubin Direct, Comp Chem																	
Initial Grouping by Reagent and Instrument																	
Abbott acid diazo & Abbott Architect c, ci, i	1	1.2 - 2.0	C 1.56	0.06	0 - 0.8	C 0.43	0.05	0.3 - 1.1	C 0.69	0.05	1.0 - 1.8	C 1.4	0.06	1.6 - 2.4	P 2.03	0.09	15

Beckman Coulter & Beck Coulter Unicel DXC	2	0.6 - 1.4	C 1.02	0.07	0 - 0.6	C 0.23	0.05	0 - 0.8	C 0.4	0.0	0.5 - 1.3	C 0.89	0.06	0.9 - 1.7	C 1.34	0.07	9
Beckman Coulter & Beckman AU 480	3	0.8 - 1.6	C 1.23	0.08	0 - 0.7	C 0.25	0.09	0.1 - 0.9	C 0.48	0.04	0.7 - 1.5	C 1.1	0.07	1.2 - 2.0	C 1.63	0.04	4
Beckman Olympus & Beck Olym AU 400/600/5400	4	1.0 - 1.8	C 1.35	0.07	0 - 0.7	C 0.3	0.04	0.1 - 0.9	C 0.53	0.05	0.8 - 1.6	C 1.2	0.06	1.4 - 2.2	C 1.79	0.11	15
Beckman Olympus & Beckman AU 480	5	1.0 - 1.8	C 1.36	0.17	0 - 0.7	C 0.3	0.04	0.1 - 0.9	C 0.52	0.07	0.7 - 1.5	C 1.15	0.05	1.3 - 2.1	C 1.72	0.24	12
Ortho Vitros & Ortho Vitros 3600, 5600	6	0.3 - 1.1	C 0.72	0.44	0 - 0.5	C 0.05	0.08	0 - 0.5	C 0.12	0.19	0.1 - 0.9	C 0.52	0.4	0.7 - 1.5	C 1.14	0.51	18
Ortho Vitros & Ortho Vitros not DT or ECi	7	0.2 - 1.0	C 0.59	0.29	0 - 0.4	C 0.02	0.04	0 - 0.4	C 0.04	0.1	0 - 0.9	C 0.45	0.26	0.6 - 1.4	C 0.98	0.39	12
Roche acid diazo & Roche Cobas 6000, 8000	8	0.4 - 1.2	C 0.82	0.07	0 - 0.6	C 0.2	0.0	0 - 0.7	C 0.3	0.04	0.3 - 1.1	C 0.72	0.06	0.7 - 1.5	C 1.09	0.08	10
Siemens Dimension DBI & Siemens Dimension EXL	9	0.4 - 1.2	C 0.82	0.08	0 - 0.6	C 0.17	0.05	0 - 0.7	C 0.3	0.0	0.3 - 1.1	C 0.69	0.08	0.8 - 1.6	C 1.19	0.13	40
Siemens Dimension DBI & Siemens Dimension Xpand	10	0.5 - 1.3	C 0.85	0.09	0 - 0.6	C 0.2	0.0	0 - 0.7	C 0.3	0.0	0.3 - 1.1	C 0.68	0.04	0.9 - 1.7	C 1.25	0.09	4

Initial Grouping by Reagent

Abbott acid diazo	11	1.2 - 2.0	C 1.56	0.06	0 - 0.8	C 0.43	0.05	0.3 - 1.1	C 0.69	0.05	1.0 - 1.8	C 1.4	0.06	1.6 - 2.4	P 2.03	0.09	15
Beckman Coulter	12	0.7 - 1.5	C 1.1	0.13	0 - 0.6	C 0.24	0.06	0 - 0.8	C 0.42	0.05	0.6 - 1.4	C 0.97	0.12	1.1 - 1.9	C 1.46	0.17	16
Beckman Olympus	13	1.0 - 1.8	C 1.35	0.12	0 - 0.7	C 0.3	0.04	0.1 - 0.9	C 0.52	0.06	0.8 - 1.6	C 1.18	0.06	1.4 - 2.2	C 1.75	0.18	28
Ortho Vitros	14	0.3 - 1.1	C 0.65	0.38	0 - 0.4	C 0.03	0.07	0 - 0.5	C 0.08	0.16	0.1 - 0.9	C 0.48	0.35	0.7 - 1.5	C 1.05	0.46	32
Roche acid diazo	15	0.4 - 1.2	C 0.84	0.07	0 - 0.6	C 0.2	0.0	0 - 0.7	C 0.3	0.04	0.3 - 1.1	C 0.73	0.06	0.7 - 1.5	C 1.14	0.11	16
Sekisui Diag - SL	16	0.9 - 1.7	C 1.33	0.13	0 - 0.7	C 0.33	0.04	0.1 - 0.9	C 0.53	0.08	0.7 - 1.5	C 1.15	0.11	1.3 - 2.1	C 1.73	0.13	4
Siemens Dimension DBI	17	0.4 - 1.2	C 0.82	0.08	0 - 0.6	C 0.17	0.05	0 - 0.7	C 0.3	0.02	0.3 - 1.1	C 0.69	0.08	0.8 - 1.6	C 1.18	0.13	48
Synermed	18	0.6 - 1.4	C 1.0	0.23	0 - 0.6	C 0.22	0.04	0 - 0.8	C 0.4	0.07	0.5 - 1.4	C 0.95	0.22	0.9 - 1.7	C 1.27	0.29	4

Initial Grouping by Sensitivity or Principle

Acid diazo methods	19	0.5 - 1.3	C 0.93	0.36	0 - 0.6	C 0.19	0.13	0 - 0.7	C 0.32	0.21	0.4 - 1.2	C 0.79	0.35	0.9 - 1.7	C 1.32	0.42	138
Diazonium ion methods	20	0.9 - 1.7	C 1.33	0.15	0 - 0.7	C 0.3	0.04	0.1 - 0.9	C 0.51	0.07	0.8 - 1.6	C 1.16	0.1	1.3 - 2.1	C 1.73	0.2	35
Other	21	0.5 - 1.3	C 0.9	0.29	0 - 0.6	C 0.19	0.08	0 - 0.7	C 0.29	0.16	0.3 - 1.1	C 0.73	0.26	0.8 - 1.6	C 1.2	0.3	7
Oxidation methods	22	0.6 - 1.4	C 1.0	0.23	0 - 0.6	C 0.22	0.04	0 - 0.8	C 0.4	0.07	0.5 - 1.4	C 0.95	0.22	0.9 - 1.7	C 1.27	0.29	4

Total Population

Whole Population	23	0.6 - 1.4	C 1.02	0.37	0 - 0.6	C 0.21	0.12	0 - 0.8	C 0.37	0.2	0.5 - 1.3	C 0.86	0.35	1.0 - 1.8	C 1.4	0.42	185
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Cortisol

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	14 - 24	P 19.3	0.4	5 - 8	P 6.8	0.4	7 - 12	P 9.5	0.5	13 - 21	P 17.0	0.7	18 - 29	P 23.5	0.5	4
Beckman Coulter Access & Beckman Coulter Access	2	16 - 27	P 21.9	0.9	5 - 9	P 7.0	0.0	8 - 13	P 10.0	0.5	14 - 23	P 18.4	0.9	20 - 34	P 27.0	1.0	8
Beckman Coulter Access & Beckman Coulter Dxl	3	16 - 26	P 21.1	2.2	5 - 9	P 7.1	1.1	7 - 12	P 9.9	1.3	14 - 23	P 18.5	2.0	20 - 34	P 26.9	3.2	8
Roche Elecsys & Roche Cobas 6000, 8000	4	15 - 26	P 20.4	1.5	5 - 8	P 6.2	0.4	7 - 12	P 9.4	1.0	13 - 22	P 17.8	1.2	20 - 33	P 26.0	2.1	5
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	5	16 - 26	P 20.8	0.8	5 - 8	P 6.3	0.4	7 - 11	P 8.8	1.1	14 - 23	P 18.0	0.7	20 - 33	P 26.8	0.8	4
Roche Elecsys & Roche e411/e601/E170/E2010	6	16 - 27	P 21.5	1.5	5 - 8	P 6.8	0.4	7 - 12	P 9.8	0.4	14 - 24	P 19.3	1.3	21 - 35	P 28.3	1.9	4
Siemens Immulite & Siemens Immulite 2000	7	15 - 25	P 20.3	0.8	5 - 8	P 6.8	0.4	7 - 12	P 9.5	0.5	14 - 24	P 19.3	0.8	19 - 32	P 25.5	1.1	4

Initial Grouping by Reagent

Abbott Architect	8	14 - 24	P 19.3	0.4	5 - 8	P 6.8	0.4	7 - 12	P 9.5	0.5	13 - 21	P 17.0	0.7	18 - 29	P 23.5	0.5	4
Beckman Coulter Access	9	16 - 27	P 21.4	1.8	5 - 9	P 7.1	0.7	7 - 12	P 9.9	0.9	14 - 23	P 18.4	1.5	20 - 34	P 26.8	2.3	17
Roche Elecsys	10	16 - 26	P 20.9	1.4	5 - 8	P 6.4	0.5	7 - 12	P 9.4	1.0	14 - 23	P 18.4	1.3	20 - 34	P 27.2	2.2	14
Siemens Immulite	11	16 - 27	P 21.4	1.6	5 - 9	P 7.1	0.6	8 - 13	P 10.4	1.2	15 - 24	P 19.6	1.3	20 - 33	P 26.1	1.8	7

Initial Grouping by Sensitivity or Principle

Immuno-not FPIA	12	16 - 26	P 20.7	1.5	5 - 9	P 7.2	0.6	8 - 13	P 10.2	0.8	14 - 23	P 18.4	1.7	20 - 33	P 26.2	2.7	9
luminometric	13	16 - 27	P 21.3	1.6	5 - 9	P 6.9	0.7	7 - 12	P 9.9	1.1	14 - 23	P 18.8	1.5	20 - 34	P 27.0	2.3	42

Total Population

Whole Population	14	16 - 26	P 21.1	1.6	5 - 9	P 7.0	0.7	7 - 12	P 9.9	1.0	14 - 23	P 18.7	1.5	20 - 34	P 26.8	2.3	54
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Creatine Kinase, Total

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	153 - 285	P 219.2	5.5	40 - 73	P 56.5	2.5	63 - 116	P 89.5	3.4	133 - 247	P 189.9	4.7	201 - 373	P 286.8	8.7	10
Beckman Coulter & Beck Coulter Unicel DXC	2	139 - 259	P 199.1	6.1	37 - 69	P 52.8	1.9	60 - 112	P 86.0	2.1	122 - 227	P 174.8	3.9	182 - 337	P 259.3	7.5	8
Beckman Coulter & Beckman AU 480	3	129 - 239	P 183.8	11.4	32 - 60	P 46.2	2.1	53 - 99	P 75.8	4.5	111 - 206	P 158.4	9.8	171 - 317	P 243.6	14.2	5
Beckman Olympus & Beck Olym AU 400/600/5400	4	131 - 243	P 187.0	14.7	33 - 62	P 47.6	3.3	54 - 101	P 77.8	6.0	113 - 211	P 162.1	12.7	170 - 316	P 242.8	19.8	19
Beckman Olympus & Beckman AU 480	5	129 - 240	P 184.3	12.8	33 - 62	P 47.4	2.5	54 - 99	P 76.5	4.7	111 - 206	P 158.4	10.2	167 - 311	P 239.0	13.8	11
Horiba ABX & Horiba ABX 400	6	148 - 276	P 212.0	6.4	39 - 72	P 55.5	0.9	62 - 114	P 88.0	1.4	129 - 240	P 184.5	1.1	192 - 357	P 274.8	3.3	4
Ortho Vitros & Ortho Vitros 3600, 5600	7	117 - 217	P 166.6	9.7	33 - 61	P 47.0	2.3	53 - 98	P 75.3	4.3	105 - 195	P 150.1	7.7	145 - 270	P 207.4	12.4	16
Ortho Vitros & Ortho Vitros not DT or ECi	8	116 - 216	P 166.3	14.5	31 - 58	P 44.3	5.6	53 - 98	P 75.5	9.5	105 - 195	P 149.9	12.1	148 - 274	P 211.0	19.3	11
Roche Cobas & Roche Cobas 6000, 8000	9	148 - 276	P 212.1	10.0	37 - 69	P 53.0	3.6	61 - 113	P 86.9	4.5	129 - 239	P 183.6	6.2	194 - 361	P 277.5	8.7	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	10	155 - 287	P 221.1	3.2	39 - 72	P 55.4	0.7	64 - 118	P 91.0	1.2	133 - 247	P 190.1	3.2	193 - 359	P 276.0	23.2	7
SDI Biomed & SDI CA-240, 480	11	120 - 223	P 171.5	4.8	33 - 62	P 47.5	1.5	50 - 92	P 70.8	4.1	106 - 197	P 151.3	2.9	162 - 302	P 232.0	5.7	4
Siemens Dimension & Siemens Dimension EXL	12	150 - 278	P 213.6	7.1	36 - 67	P 51.8	3.3	60 - 112	P 86.1	4.2	129 - 239	P 184.0	7.2	195 - 363	P 279.0	9.5	20

Siemens Dimension & Siemens Dimension Xpand	13	148 - 275	P 211.3	9.8	35 - 66	P 50.5	1.5	60 - 111	P 85.3	2.8	128 - 237	P 182.3	8.1	192 - 357	P 274.3	13.6	4
Siemens Dimension IFCC & Siemens Dimension EXL	14	149 - 277	P 212.7	5.9	36 - 67	P 51.8	2.4	60 - 112	P 86.4	2.7	128 - 238	P 183.2	4.8	195 - 361	P 277.9	6.6	27
Siemens Dimension IFCC & Siemens Dimension Xpand	15	149 - 277	P 213.0	3.4	36 - 68	P 52.0	1.8	60 - 112	P 86.0	1.9	127 - 236	P 181.3	3.1	193 - 358	P 275.6	4.7	7

Initial Grouping by Reagent

Abbott	16	153 - 285	P 219.2	5.5	40 - 73	P 56.5	2.5	63 - 116	P 89.5	3.4	133 - 247	P 189.9	4.7	201 - 373	P 286.8	8.7	10
Beckman Coulter	17	134 - 249	P 191.8	11.3	35 - 65	P 49.8	3.6	57 - 106	P 81.3	5.9	117 - 217	P 167.2	10.4	176 - 326	P 250.8	14.1	16
Beckman Olympus	18	130 - 242	P 185.8	13.8	33 - 62	P 47.5	3.0	54 - 100	P 77.3	5.4	112 - 209	P 160.5	11.8	169 - 314	P 241.2	17.4	32
Horiba ABX	19	148 - 276	P 212.0	6.4	39 - 72	P 55.5	0.9	62 - 114	P 88.0	1.4	129 - 240	P 184.5	1.1	192 - 357	P 274.8	3.3	4
Ortho Vitros	20	117 - 218	P 167.4	12.0	32 - 60	P 46.2	4.3	53 - 99	P 75.9	6.8	106 - 196	P 150.8	9.8	147 - 273	P 209.7	15.4	29
Pointe Scientific	21	150 - 278	P 213.6	19.6	38 - 70	P 54.2	5.2	63 - 116	P 89.4	8.5	129 - 240	P 184.8	16.9	195 - 363	P 279.0	24.2	5
Roche Cobas	22	151 - 281	P 216.4	8.4	38 - 71	P 54.3	2.8	62 - 116	P 89.0	3.8	131 - 243	P 186.7	5.6	194 - 361	P 277.5	14.8	21
SDI Biomed	23	126 - 233	P 179.6	16.8	34 - 63	P 48.6	2.6	52 - 96	P 74.2	7.8	110 - 205	P 157.4	12.6	169 - 314	P 241.2	19.1	5
Sekisui	24	142 - 264	P 202.8	15.5	37 - 68	P 52.3	4.3	59 - 110	P 84.3	6.6	124 - 230	P 177.3	12.6	184 - 343	P 263.5	19.0	4
Siemens Dimension	25	149 - 277	P 213.1	7.6	36 - 67	P 51.5	3.1	60 - 112	P 85.9	4.0	129 - 239	P 183.6	7.2	195 - 362	P 278.4	10.3	25
Siemens Dimension IFCC	26	149 - 277	P 212.9	5.4	36 - 67	P 51.9	2.3	60 - 112	P 86.3	2.5	128 - 238	P 182.9	4.5	194 - 361	P 277.5	6.2	35

Initial Grouping by Sensitivity or Principle

IFCC standardized methods	27	143 - 266	P 204.4	16.7	36 - 67	P 51.4	4.1	59 - 109	P 84.2	6.5	124 - 230	P 176.6	13.9	186 - 345	P 265.7	22.1	165
Vitros and related	28	117 - 218	P 167.4	12.0	32 - 60	P 46.2	4.3	53 - 99	P 75.9	6.8	106 - 196	P 150.8	9.8	147 - 273	P 209.7	15.4	29
Total Population																	
Whole Population	29	139 - 259	P 198.9	20.6	35 - 66	P 50.6	4.5	58 - 108	P 83.0	7.2	121 - 225	P 172.8	16.1	180 - 335	P 257.5	28.9	196

Gamma-Glutamyltransferase (GGT)

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	110 - 165	P 137.2	5.2	26 - 46	C 36.0	1.4	46 - 68	P 56.9	2.4	94 - 141	P 117.6	4.8	142 - 213	P 177.3	7.7	10
Beckman Coulter & Beck Coulter Unicel DXC	2	117 - 176	P 146.8	0.8	29 - 49	C 39.0	0.7	49 - 73	P 61.0	0.7	101 - 151	P 125.8	0.8	149 - 224	P 186.8	0.8	4
Beckman Coulter & Beckman AU 480	3	90 - 134	P 112.0	2.9	19 - 39	C 29.3	1.1	37 - 57	C 46.8	1.5	78 - 116	P 97.0	2.5	116 - 174	P 145.3	3.5	4
Beckman Olympus & Beck Olym AU 400/600/5400	4	90 - 135	P 112.2	6.0	19 - 39	C 29.0	1.7	36 - 56	C 46.3	2.6	77 - 115	P 95.7	5.1	116 - 174	P 145.1	6.6	17
Beckman Olympus & Beckman AU 480	5	87 - 131	P 108.8	5.0	18 - 38	C 28.2	0.9	35 - 55	C 45.1	1.9	75 - 112	P 93.3	4.0	112 - 168	P 140.3	6.0	10
Ortho Vitros & Ortho Vitros 3600, 5600	6	162 - 243	P 202.9	7.7	45 - 67	P 55.8	1.6	71 - 106	P 88.4	3.4	142 - 214	P 178.0	6.4	202 - 303	P 252.6	8.3	8
Ortho Vitros & Ortho Vitros not DT or ECi	7	163 - 244	P 203.5	5.9	44 - 67	P 55.5	2.4	71 - 106	P 88.7	4.6	143 - 214	P 178.2	7.2	204 - 306	P 255.3	9.5	6
Roche Cobas & Roche Cobas 6000, 8000	8	98 - 147	P 122.1	2.9	22 - 42	C 31.7	0.7	40 - 60	P 50.3	0.9	83 - 124	P 103.7	2.7	126 - 188	P 157.0	3.3	7
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	98 - 147	P 122.3	3.0	22 - 42	C 31.8	0.7	40 - 60	P 50.2	1.2	84 - 125	P 104.4	3.7	126 - 189	P 157.7	4.6	6
Siemens Dimension & Siemens Dimension EXL	10	132 - 199	P 165.5	3.1	38 - 58	C 48.3	1.9	58 - 87	P 72.6	2.1	115 - 172	P 143.6	2.7	169 - 254	P 211.7	4.7	18
Siemens Dimension & Siemens Dimension Xpand	11	136 - 204	P 169.8	5.8	39 - 59	C 48.5	3.0	59 - 88	P 73.3	3.8	117 - 176	P 146.3	4.9	173 - 259	P 215.8	5.2	4

Initial Grouping by Reagent

Abbott	12	110 - 165	P 137.2	5.2	26 - 46	C 36.0	1.4	46 - 68	P 56.9	2.4	94 - 141	P 117.6	4.8	142 - 213	P 177.3	7.7	10
Beckman Coulter	13	100 - 151	P 125.6	17.4	23 - 43	C 32.5	5.0	41 - 62	P 51.5	7.3	86 - 128	P 106.9	14.4	128 - 192	P 159.6	20.7	11
Beckman Olympus	14	89 - 134	P 111.4	6.0	19 - 39	C 28.9	1.7	36 - 56	C 46.1	2.5	76 - 114	P 95.4	5.2	115 - 173	P 144.0	7.4	29
Carolina	15	93 - 140	P 116.8	9.4	21 - 41	C 31.0	1.9	39 - 59	C 48.8	3.6	80 - 121	P 100.5	8.4	121 - 181	P 150.8	12.8	4
Ortho Vitros	16	163 - 244	P 203.5	6.9	45 - 67	P 55.8	2.0	71 - 106	P 88.7	3.9	143 - 214	P 178.4	6.6	198 - 297	P 247.4	25.4	15
Pointe Scientific	17	97 - 145	P 120.8	1.8	21 - 41	C 31.4	0.5	40 - 60	P 50.4	2.0	80 - 120	P 99.8	3.5	121 - 181	P 151.0	5.7	5
Roche Cobas	18	98 - 148	P 123.0	3.4	22 - 42	C 31.8	0.7	40 - 61	P 50.5	1.1	84 - 126	P 104.6	3.4	127 - 190	P 158.5	4.7	15
Sekisui	19	104 - 157	P 130.5	11.1	23 - 43	C 32.5	1.7	42 - 64	P 53.0	3.1	89 - 133	P 111.0	8.0	134 - 201	P 167.8	11.5	4
Siemens Dimension	20	133 - 199	P 166.1	4.0	38 - 58	C 48.1	2.2	58 - 87	P 72.5	2.5	115 - 173	P 143.8	3.3	170 - 255	P 212.6	5.1	25

Initial Grouping by Sensitivity or Principle

Standardized methods	21	96 - 144	P 119.8	10.8	21 - 41	C 31.0	2.7	40 - 60	C 49.5	4.4	82 - 123	P 102.1	9.4	123 - 185	P 154.1	13.3	68
Abbott and Beckman Coulter	22	105 - 158	P 131.4	14.1	24 - 44	C 34.2	4.1	43 - 65	P 54.0	6.2	90 - 134	P 112.0	12.2	134 - 202	P 168.0	18.2	20
Vitros and related	23	163 - 244	P 203.5	6.9	45 - 67	P 55.8	2.0	71 - 106	P 88.7	3.9	143 - 214	P 178.4	6.6	198 - 297	P 247.4	25.4	15
Siemens and related	24	133 - 199	P 166.1	4.0	38 - 58	C 48.1	2.2	58 - 87	P 72.5	2.5	115 - 173	P 143.8	3.3	170 - 255	P 212.6	5.1	25
Total Population																	
Whole Population	25	112 - 168	P 140.0	30.5	28 - 48	C 37.6	9.6	47 - 71	P 59.3	14.5	96 - 144	P 120.3	27.6	142 - 213	P 177.8	36.7	132

Human Chorionic Gonadotropin (hCG)

Initial Grouping by Reagent and Instrument

Beckman Coulter Access & Beckman Coulter Access	1	828 - 1070	S 948.6	40.4	240 - 302	S 270.9	10.4	401 - 518	S 459.3	19.5	742 - 966	S 853.9	37.4	874 - 1360	S 1117.1	81.1	30
Ortho Vitros ECi & Ortho Vitros 3600, 5600	2	2217 - 2691	S 2454.2	78.9	423 - 522	S 472.1	16.5	773 - 995	S 883.8	36.9	1863 - 2272	S 2067.4	68.3	2793 - 3639	S 3216.1	141.0	11
Roche Elecsys & Roche e411/e601/E170/E2010	3	1298 - 2009	S 1653.5	118.6	249 - 386	S 317.6	22.9	465 - 737	S 601.0	45.2	1093 - 1716	S 1404.4	103.9	1676 - 2667	S 2171.9	165.2	20
Roche HCG Stat & Roche e411/e601/E170/E2010	4	1796 - 2772	S 2283.6	162.7	303 - 493	S 398.2	31.7	608 - 956	S 782.3	58.0	1435 - 2385	S 1910.1	158.4	2296 - 3733	S 3014.9	239.5	11
Roche HCG+b & Roche e411/e601/E170/E2010	5	1443 - 1913	S 1678.0	78.5	278 - 360	S 318.8	13.7	530 - 671	S 600.4	23.6	1216 - 1601	S 1408.4	64.3	1985 - 2429	S 2207.2	73.9	17
Siemens Advia & Siemens Centaur/Centaur CP	6	564 - 823	S 693.3	43.2	217 - 274	S 245.3	9.5	335 - 444	S 389.6	18.1	509 - 760	S 634.5	42.0	622 - 942	S 782.1	53.3	15
Siemens Dimension & Siemens Dimension EXL	7	2200 - 3241	S 2720.5	173.6	431 - 514	S 472.8	13.9	825 - 1007	S 915.9	30.3	1877 - 2646	S 2261.7	128.2	2876 - 4233	S 3554.5	226.3	21

Siemens Dimension LOCI & Siemens Dimension EXL	8	1669 - 3345	S 2507.2	279.4	426 - 521	S 473.6	15.9	790 - 1014	S 901.7	37.3	1649 - 2762	S 2205.3	185.6	1347 - 5118	S 3232.3	628.5	10
Siemens Immulite & Siemens Immulite 1000	9	2150 - 3681	S 2915.5	255.3	495 - 737	S 616.0	40.4	881 - 1344	S 1112.5	77.2	1745 - 3179	S 2462.0	239.1	2162 - 5813	S 3987.7	608.4	21
Tosoh Total b-hCG & Tosoh AIA ST	10	0 - 4816	S 2403.0	804.5	439 - 573	S 505.8	22.3	868 - 1058	S 962.8	31.7	1653 - 2737	S 2194.9	180.8	2447 - 4424	S 3435.2	329.5	10
Tosoh beta-hCG & Tosoh AIA	11	0 - 4846	S 2408.7	812.6	262 - 691	S 476.9	71.5	275 - 1456	S 865.5	196.9	121 - 3795	S 1957.8	612.4	0 - 6290	S 3079.6	1070.2	13
Tosoh beta-hCG & Tosoh AIA ST	12	0 - 5170	S 2297.5	957.6	385 - 641	S 513.1	42.8	780 - 1156	S 968.1	62.7	675 - 3605	S 2140.1	488.3	2540 - 4701	S 3620.3	360.1	17
Initial Grouping by Reagent																	
Beckman Coulter Access	13	819 - 1094	S 956.3	45.8	240 - 305	S 272.1	10.8	404 - 516	S 459.9	18.6	741 - 979	S 859.8	39.7	897 - 1344	S 1120.6	74.6	39
Ortho Vitros ECI	14	2217 - 2691	S 2454.2	78.9	423 - 522	S 472.1	16.5	773 - 995	S 883.8	36.9	1863 - 2272	S 2067.4	68.3	2793 - 3639	S 3216.1	141.0	11
Roche Elecsys	15	1352 - 1969	S 1660.2	102.8	258 - 376	S 317.2	19.6	482 - 717	S 599.6	39.1	1137 - 1675	S 1405.9	89.7	1750 - 2614	S 2182.2	143.9	27
Roche HCG Stat	16	1796 - 2772	S 2283.6	162.7	303 - 493	S 398.2	31.7	608 - 956	S 782.3	58.0	1435 - 2385	S 1910.1	158.4	2296 - 3733	S 3014.9	239.5	11
Roche HCG+b	17	1396 - 1915	S 1655.3	86.4	267 - 362	S 314.3	15.9	508 - 678	S 593.0	28.2	1180 - 1603	S 1391.7	70.6	1878 - 2481	S 2179.8	100.6	26
Siemens Advia	18	564 - 823	S 693.3	43.2	217 - 274	S 245.3	9.5	335 - 444	S 389.6	18.1	509 - 760	S 634.5	42.0	622 - 942	S 782.1	53.3	15
Siemens Dimension	19	2182 - 3239	S 2710.2	176.2	432 - 515	S 473.3	13.9	821 - 1007	S 914.0	31.0	1858 - 2651	S 2254.8	132.1	2843 - 4225	S 3534.2	230.3	23
Siemens Dimension LOCI	20	1640 - 3320	S 2480.0	279.9	418 - 523	S 470.8	17.5	779 - 1014	S 896.5	39.1	1537 - 2801	S 2169.2	210.6	1377 - 5024	S 3200.3	607.8	11
Siemens Immulite	21	1900 - 3803	S 2851.2	317.2	480 - 752	S 615.9	45.3	846 - 1385	S 1115.8	89.8	1719 - 3190	S 2454.8	245.2	2057 - 5817	S 3937.3	626.7	23
Tosoh Total b-hCG	22	0 - 5024	S 2252.0	924.1	386 - 609	S 497.5	37.0	441 - 1389	S 914.8	157.9	476 - 3610	S 2043.3	522.3	489 - 5951	S 3220.0	910.5	12
Tosoh beta-hCG	23	0 - 5011	S 2353.5	885.7	321 - 674	S 497.7	58.8	484 - 1363	S 923.6	146.6	424 - 3700	S 2062.0	545.9	985 - 5768	S 3376.1	797.2	31
Initial Grouping by Sensitivity or Principle																	
IFCC standardized	24	0 - 4090	S 1775.9	771.4	66 - 664	S 365.3	99.6	39 - 1310	S 674.1	211.8	0 - 3314	S 1515.0	599.8	0 - 5451	S 2332.4	1039.5	199
Total Beta methods	25	0 - 4893	S 2103.6	929.9	168 - 750	S 458.8	97.0	198 - 1501	S 849.3	217.2	109 - 3692	S 1900.5	597.2	0 - 6022	S 2993.4	1009.5	14
Vitros and related	26	2223 - 2701	S 2461.8	79.6	422 - 527	S 474.3	17.5	772 - 1005	S 888.7	38.8	1868 - 2278	S 2073.3	68.3	2812 - 3633	S 3222.7	136.8	12
Siemens Immulite and related	27	1844 - 3728	S 2786.1	313.9	476 - 765	S 620.3	48.3	856 - 1369	S 1112.8	85.6	1722 - 3137	S 2429.7	235.7	1814 - 5731	S 3772.6	652.9	29
Total Population																	
Whole Population	28	0 - 4345	S 1942.8	800.7	32 - 779	S 405.1	124.5	13 - 1477	S 744.9	243.9	0 - 3575	S 1670.3	634.8	0 - 5857	S 2581.4	1091.7	255

Iron

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci	1	117 - 175	P 145.9	4.0	37 - 55	P 45.9	1.6	53 - 80	P 66.8	2.3	101 - 152	P 126.5	3.4	148 - 222	P 184.7	4.6	13
Beck Oly tripyridyltriazine & Beck Olym AU 400/600/5400	2	127 - 190	P 158.3	4.1	38 - 57	P 47.5	10.4	56 - 84	P 70.1	2.6	107 - 161	P 133.9	8.4	163 - 244	P 203.6	9.4	10
Beck Oly tripyridyltriazine & Beckman AU 480	3	128 - 192	P 160.3	8.7	40 - 60	P 50.3	4.5	58 - 86	P 71.9	3.4	111 - 166	P 138.3	7.2	163 - 245	P 203.8	8.7	8
Beckman Coulter & Beck Coult Unicel DXC	4	117 - 175	P 145.8	2.9	36 - 55	P 45.5	0.5	53 - 79	P 65.8	1.1	100 - 151	P 125.5	1.7	150 - 225	P 187.8	3.3	4
Beckman Coulter & Beck Olym AU 400/600/5400	5	125 - 188	P 156.6	6.0	38 - 58	P 48.0	4.0	56 - 84	P 69.6	3.6	108 - 161	P 134.4	5.2	159 - 239	P 199.2	7.4	5
Beckman Coulter & Beckman AU 480	6	119 - 178	P 148.4	16.2	39 - 58	P 48.4	6.7	55 - 82	P 68.6	8.0	104 - 157	P 130.6	11.5	152 - 228	P 189.9	21.0	9
Beckman Olympus Ferene & Beck Olym AU 400/600/5400	7	123 - 184	P 153.3	8.4	38 - 58	P 48.0	3.9	55 - 83	P 69.0	3.9	107 - 160	P 133.3	6.6	157 - 235	P 195.8	8.9	4
Beckman Olympus Ferene & Beckman AU 480	8	131 - 197	P 163.8	4.3	42 - 63	P 52.6	3.4	60 - 90	P 74.8	3.3	113 - 169	P 141.2	3.6	159 - 239	P 199.2	18.0	5
Horiba ABX & Horiba ABX 400	9	109 - 163	P 136.0	6.8	39 - 58	P 48.6	11.7	51 - 76	P 63.6	7.2	95 - 143	P 118.8	4.6	137 - 206	P 171.4	6.7	5
Ortho Vitros & Ortho Vitros 3600, 5600	10	126 - 189	P 157.4	4.4	33 - 49	P 40.7	3.2	52 - 77	P 64.5	4.3	107 - 161	P 133.8	5.3	167 - 251	P 208.9	4.5	15
Ortho Vitros & Ortho Vitros not DT or ECI	11	127 - 191	P 159.1	11.5	30 - 45	P 37.4	3.2	48 - 73	P 60.5	6.3	108 - 163	P 135.6	11.3	166 - 249	P 207.6	13.5	8
Roche Cobas & Roche Cobas 6000, 8000	12	121 - 182	P 151.3	3.2	41 - 62	P 51.5	3.6	58 - 86	P 72.0	3.3	106 - 158	P 131.9	4.2	153 - 229	P 191.0	4.7	11
Roche Cobas & Roche Cobas Integra	13	121 - 181	P 150.8	2.1	38 - 57	P 47.2	1.7	56 - 84	P 70.2	1.6	105 - 158	P 131.8	1.2	154 - 231	P 192.6	3.6	5
Roche Cobas & Roche e/c, 1XX, X000, Elec series	14	120 - 181	P 150.6	1.8	40 - 60	P 49.9	2.2	57 - 85	P 70.9	1.4	105 - 158	P 131.6	2.1	152 - 228	P 189.9	3.4	7
Siemens Dimension & Siemens Dimension EXL	15	114 - 171	P 142.7	1.1	36 - 54	P 45.3	0.8	53 - 79	P 65.9	1.1	100 - 149	P 124.4	1.2	145 - 217	P 181.1	1.9	26
Siemens Dimension & Siemens Dimension Xpand	16	115 - 172	P 143.4	1.2	37 - 55	P 45.8	2.3	53 - 79	P 66.0	0.9	99 - 149	P 124.2	0.7	146 - 219	P 182.6	3.3	5
Sterling Diagnostic & Other spectrophotometers	17	121 - 181	P 151.0	8.3	34 - 51	P 42.3	4.0	50 - 75	P 62.1	7.0	103 - 155	P 128.9	7.2	160 - 239	P 199.4	12.8	7
Initial Grouping by Reagent																	
Abbott Architect	18	117 - 175	P 145.9	4.0	37 - 55	P 45.9	1.6	53 - 80	P 66.8	2.3	101 - 152	P 126.5	3.4	148 - 222	P 184.7	4.6	13
Beck Oly tripyridyltriazine	19	127 - 191	P 159.2	6.8	39 - 58	P 48.7	8.5	57 - 85	P 70.9	3.1	109 - 163	P 135.8	8.1	163 - 244	P 203.7	9.1	18
Beckman Coulter	20	121 - 181	P 150.7	12.6	38 - 57	P 47.4	4.9	55 - 82	P 68.6	5.7	105 - 157	P 131.2	8.7	155 - 232	P 193.3	15.8	20
Beckman Olympus Ferene	21	128 - 192	P 160.2	8.3	40 - 61	P 50.6	3.9	58 - 87	P 72.5	4.3	111 - 166	P 138.4	6.1	160 - 239	P 199.4	13.9	11
Carolina	22	114 - 171	P 142.2	4.4	35 - 52	P 43.3	2.6	51 - 77	P 63.8	5.2	96 - 143	P 119.5	5.2	140 - 210	P 175.0	7.0	6
Horiba ABX	23	109 - 163	P 136.0	6.8	39 - 58	P 48.6	11.7	51 - 76	P 63.6	7.2	95 - 143	P 118.8	4.6	137 - 206	P 171.4	6.7	5
Ortho Vitros	24	126 - 190	P 158.1	7.6	32 - 48	P 39.8	3.7	51 - 76	P 63.3	5.4	108 - 162	P 134.7	8.0	167 - 251	P 208.9	8.8	24
Pointe Scientific	25	115 - 173	P 143.8	3.3	36 - 55	P 45.5	2.1	52 - 77	P 64.5	1.5	98 - 148	P 123.0	2.2	145 - 217	P 180.8	4.8	4
Roche Cobas	26	121 - 181	P 150.8	2.7	40 - 60	P 50.0	3.3	57 - 85	P 71.1	2.6	105 - 158	P 131.6	3.2	153 - 229	P 190.8	4.2	24
Sekisui	27	115 - 172	P 143.3	7.8	38 - 56	P 47.0	2.7	54 - 80	P 67.0	3.7	101 - 151	P 125.8	6.8	144 - 217	P 180.5	11.8	4
Siemens Dimension	28	114 - 171	P 142.8	1.2	36 - 54	P 45.4	1.2	53 - 79	P 65.9	1.1	99 - 149	P 124.3	1.2	145 - 217	P 181.2	2.3	36
Sterling Diagnostic	29	119 - 179	P 149.0	9.5	35 - 52	P 43.6	4.7	50 - 75	P 62.2	6.3	102 - 153	P 127.4	7.5	157 - 236	P 196.4	13.8	9
Initial Grouping by Sensitivity or Principle																	
Ferene-based	30	117 - 175	P 145.9	7.7	37 - 55	P 46.0	3.2	53 - 80	P 66.8	3.9	101 - 152	P 126.5	6.8	147 - 221	P 184.2	10.3	74
Ferrozine-based	31	119 - 178	P 148.3	9.3	38 - 57	P 47.8	5.4	54 - 81	P 67.9	5.6	103 - 155	P 128.8	7.2	152 - 228	P 189.6	12.4	68

Tripyridyltriazine (TPTZ)	32	127 - 191	P 159.2	6.8	39 - 58	P 48.7	8.5	57 - 85	P 70.9	3.1	109 - 163	P 135.8	8.1	163 - 244	P 203.7	9.1	18
All other methods	33	126 - 190	P 158.1	7.6	32 - 48	P 39.8	3.7	51 - 76	P 63.3	5.4	108 - 162	P 134.7	8.0	167 - 251	P 208.9	8.8	24
Total Population																	
Whole Population	34	120 - 180	P 149.8	9.6	37 - 55	P 46.2	5.5	54 - 81	P 67.2	5.1	104 - 155	P 129.4	8.0	153 - 230	P 191.5	14.0	186

Lactic Acid

Initial Grouping by Reagent and Instrument

Ortho Vitros & Ortho Vitros 3600, 5600	1	3.1 - 5.1	P 4.1	0.29	0.3 - 0.9	C 0.64	0.07	1.0 - 1.6	P 1.28	0.06	2.6 - 4.3	P 3.42	0.1	4.0 - 6.7	P 5.34	0.19	10
Ortho Vitros & Ortho Vitros not DT or ECI	2	3.0 - 5.1	P 4.04	0.09	0.4 - 1.0	C 0.67	0.1	1.0 - 1.6	P 1.29	0.1	2.5 - 4.2	P 3.39	0.11	4.0 - 6.6	P 5.3	0.09	7
Siemens Dimension & Siemens Dimension EXL	3	3.3 - 5.5	P 4.41	0.15	0.4 - 1.0	C 0.74	0.12	1.1 - 1.9	P 1.52	0.1	2.8 - 4.6	P 3.71	0.12	4.4 - 7.3	P 5.81	0.16	34

Initial Grouping by Reagent

Beckman Olympus	4	3.1 - 5.2	P 4.16	0.17	0.3 - 0.9	C 0.62	0.04	1.0 - 1.7	P 1.38	0.04	2.6 - 4.3	P 3.46	0.08	4.1 - 6.9	P 5.5	0.23	6
Ortho Vitros	5	3.1 - 5.1	P 4.08	0.23	0.4 - 1.0	C 0.66	0.09	1.0 - 1.6	P 1.28	0.08	2.6 - 4.3	P 3.41	0.11	4.0 - 6.7	P 5.33	0.16	17
Siemens Dimension	6	3.3 - 5.5	P 4.42	0.16	0.4 - 1.0	C 0.73	0.13	1.1 - 1.9	P 1.52	0.11	2.8 - 4.7	P 3.72	0.12	4.4 - 7.3	P 5.83	0.16	39

Initial Grouping by Sensitivity or Principle

Spectrophotometric-Other	7	3.1 - 5.1	P 4.1	0.14	0.4 - 1.0	C 0.67	0.05	1.1 - 1.8	P 1.42	0.07	2.6 - 4.4	P 3.48	0.13	4.2 - 6.9	P 5.55	0.31	6
Beckman methods	8	3.1 - 5.1	P 4.11	0.15	0.4 - 1.0	C 0.66	0.07	1.0 - 1.7	P 1.39	0.03	2.6 - 4.3	P 3.43	0.08	4.1 - 6.8	P 5.4	0.22	9
luminometric	9	3.2 - 5.4	P 4.32	0.24	0.4 - 1.0	C 0.71	0.12	1.1 - 1.8	P 1.45	0.15	2.7 - 4.5	P 3.63	0.19	4.3 - 7.1	P 5.68	0.28	56

Total Population

Whole Population	10	3.2 - 5.3	P 4.28	0.24	0.4 - 1.0	C 0.7	0.11	1.1 - 1.8	P 1.44	0.13	2.7 - 4.5	P 3.59	0.18	4.2 - 7.0	P 5.64	0.29	75
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Lactate Dehydrogenase, Total (LDH)

Initial Grouping by Reagent and Instrument

Abbott Architect & Abbott Architect c, ci, i	1	419 - 628	P 523.7	3.1	169 - 254	P 211.7	6.2	220 - 330	P 275.2	2.1	375 - 562	P 468.3	3.3	525 - 787	P 656.2	4.6	6
Beckman Coulter & Beck Coulter Unicel DXC	2	350 - 524	P 437.0	15.8	142 - 214	P 178.0	4.6	188 - 282	P 234.8	6.9	308 - 462	P 384.6	7.5	422 - 633	P 527.4	13.5	5
Beckman Coulter & Beckman AU 480	3	346 - 519	P 432.8	17.0	139 - 209	P 174.3	9.6	184 - 276	P 230.0	10.6	306 - 459	P 382.5	16.6	421 - 631	P 525.8	25.3	4
Beckman Olympus & Beck Olym AU 400/600/5400	4	349 - 524	P 436.8	18.3	140 - 210	P 175.1	8.0	185 - 277	P 230.9	10.2	310 - 465	P 387.2	18.3	430 - 645	P 537.8	23.4	14
Beckman Olympus & Beckman AU 480	5	353 - 530	P 441.7	20.1	142 - 213	P 177.2	7.6	186 - 279	P 232.5	9.3	311 - 466	P 388.7	15.7	434 - 651	P 542.6	24.6	11
Ortho IFCC (LDHI) & Ortho Vitros 3600, 5600	6	508 - 762	P 634.8	1.9	216 - 324	P 269.8	2.9	281 - 422	P 351.5	6.3	461 - 691	P 576.0	9.0	617 - 925	P 770.8	15.4	4
Ortho Vitros & Ortho Vitros 3600, 5600	7	1261 - 1891	P 1576.0	48.7	536 - 804	P 670.2	11.6	696 - 1043	P 869.5	13.1	1125 - 1688	P 1406.7	12.8	1540 - 2309	P 1924.4	58.9	5
Ortho Vitros & Ortho Vitros not DT or ECI	8	1260 - 1890	P 1575.3	146.7	502 - 752	P 627.0	101.0	671 - 1006	P 838.4	55.9	1097 - 1645	P 1370.8	156.8	1536 - 2304	P 1919.8	187.1	10
Roche Cobas & Roche Cobas 6000, 8000	9	436 - 653	P 544.4	30.5	178 - 266	P 222.0	12.4	231 - 347	P 288.9	16.3	388 - 582	P 484.8	21.9	533 - 800	P 666.3	33.0	8
Roche Cobas & Roche e/c, 1XX, X000, Elec series	10	432 - 647	P 539.5	7.9	175 - 262	P 218.3	5.4	231 - 347	P 289.3	4.1	386 - 578	P 482.0	6.0	533 - 800	P 666.8	5.4	4
Siemens Dimension & Siemens Dimension EXL	11	414 - 620	P 517.0	11.0	166 - 249	P 207.4	5.1	213 - 320	P 266.8	3.9	362 - 543	P 452.4	11.6	510 - 765	P 637.4	15.2	5
Siemens Dimension & Siemens Dimension Xpand	12	408 - 613	P 510.5	23.4	165 - 247	P 205.8	11.4	214 - 321	P 267.8	12.6	361 - 542	P 451.8	18.1	501 - 751	P 625.8	28.6	4
Siemens Flex LDI & Siemens Dimension EXL	13	410 - 615	P 512.7	13.9	166 - 250	P 208.0	6.9	218 - 327	P 272.1	7.0	365 - 547	P 456.2	12.2	511 - 767	P 639.0	19.0	23

Initial Grouping by Reagent

Abbott Architect	14	419 - 628	P 523.7	3.1	169 - 254	P 211.7	6.2	220 - 330	P 275.2	2.1	375 - 562	P 468.3	3.3	525 - 787	P 656.2	4.6	6
Beckman Coulter	15	349 - 523	P 436.2	15.1	141 - 212	P 176.5	6.8	186 - 279	P 232.8	8.2	308 - 462	P 385.0	11.6	424 - 636	P 529.7	18.9	11
Beckman Olympus	16	353 - 529	P 440.7	19.9	141 - 212	P 176.6	8.3	186 - 279	P 232.6	10.3	311 - 467	P 389.1	17.6	434 - 650	P 541.9	24.6	27
Carolina	17	340 - 509	P 424.5	53.5	143 - 214	P 178.5	19.7	208 - 313	P 260.5	53.9	303 - 454	P 378.5	45.7	410 - 614	P 512.0	62.2	4
Ortho IFCC (LDHI)	18	514 - 770	P 642.0	19.5	216 - 324	P 270.2	3.3	280 - 421	P 350.5	7.3	462 - 693	P 577.7	10.8	624 - 935	P 779.5	40.9	6
Ortho Vitros	19	1260 - 1891	P 1575.5	119.0	515 - 772	P 643.6	82.3	678 - 1018	P 848.0	49.2	1104 - 1656	P 1379.8	136.8	1538 - 2306	P 1921.9	143.8	15
Roche Cobas	20	435 - 652	P 543.6	23.8	177 - 266	P 221.7	10.2	232 - 348	P 290.1	12.9	388 - 581	P 484.4	17.0	533 - 800	P 666.6	25.3	14
Siemens Dimension	21	411 - 616	P 513.2	16.5	165 - 248	P 206.3	7.8	214 - 322	P 268.0	8.5	361 - 541	P 450.9	14.2	505 - 757	P 631.0	22.0	11
Siemens Flex LDI	22	410 - 615	P 512.4	13.0	166 - 249	P 207.9	6.7	218 - 326	P 272.0	6.7	365 - 547	P 455.9	11.8	510 - 766	P 638.0	18.4	27

Initial Grouping by Sensitivity or Principle

IFCC Standardized	23	428 - 642	P 535.2	23.1	173 - 260	P 216.8	10.3	227 - 341	P 284.0	12.8	382 - 573	P 477.1	16.1	528 - 791	P 659.5	23.1	28
Other no cofactor	24	337 - 505	P 421.1	48.6	139 - 208	P 173.5	19.2	188 - 282	P 234.6	38.9	299 - 449	P 373.9	44.8	410 - 615	P 512.6	58.6	14
Siemens and related	25	381 - 572	P 476.3	40.0	154 - 231	P 192.2	17.1	202 - 302	P 252.0	20.9	337 - 506	P 421.5	36.2	470 - 705	P 587.6	53.3	77
All IFCC Methods	26	506 - 758	P 632.0	30.4	213 - 319	P 266.0	10.7	275 - 413	P 344.0	17.3	454 - 681	P 567.6	26.7	614 - 921	P 767.4	48.1	7
Vitros and related	27	1260 - 1891	P 1575.5	119.0	515 - 772	P 643.6	82.3	678 - 1018	P 848.0	49.2	1104 - 1656	P 1379.8	136.8	1538 - 2306	P 1921.9	143.8	15

Total Population

Whole Population	28	481 - 721	P 601.2	327.3	196 - 293	P 244.5	135.9	257 - 386	P 321.4	176.6	421 - 631	P 525.8	278.2	577 - 865	P 720.7	373.5	143
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Lipase

Initial Grouping by Reagent and Instrument

Abbot Architect & Abbott Architect c, ci, i	1	32 - 59	P 45.1	1.7	11 - 20	P 15.4	0.9	15 - 28	P 21.8	0.9	28 - 51	P 39.6	1.7	38 - 71	P 54.8	1.7	11
Beckman LIP & Beck Coulter Unicel DXC	2	34 - 64	P 48.9	2.4	17 - 32	P 24.9	1.8	21 - 40	P 30.6	1.8	32 - 59	P 45.6	2.1	40 - 75	P 57.7	2.8	7
Beckman Olympus & Beck Olym AU 400/600/5400	3	30 - 56	P 42.9	4.8	9 - 17	P 12.9	2.4	14 - 25	P 19.4	2.7	26 - 48	P 37.1	4.3	38 - 70	P 54.0	6.0	15
Beckman Olympus & Beckman AU 480	4	31 - 57	P 43.7	2.8	10 - 18	P 13.6	1.4	14 - 26	P 20.0	1.6	27 - 50	P 38.4	2.7	37 - 70	P 53.5	2.9	11

Ortho Vitros & Ortho Vitros 3600, 5600	5	346 - 642	P 494.1	20.8	89 - 165	P 126.7	3.9	149 - 276	P 212.5	6.0	301 - 559	P 429.8	11.2	440 - 817	P 628.1	36.0	17
Ortho Vitros & Ortho Vitros not DT or ECi	6	343 - 638	P 490.6	16.5	85 - 159	P 122.0	3.6	144 - 267	P 205.0	6.3	302 - 561	P 431.7	13.8	435 - 808	P 621.5	20.4	11
Roche Cobas Integra & Roche Cobas 6000, 8000	7	31 - 57	P 43.7	7.1	11 - 20	P 15.3	2.3	15 - 28	P 21.2	3.3	26 - 49	P 37.8	5.9	38 - 70	P 54.0	8.5	6
Roche Cobas Integra & Roche Cobas Integra	8	29 - 55	P 42.0	1.9	11 - 20	P 15.0	0.7	15 - 27	P 20.8	0.8	26 - 48	P 37.0	0.7	37 - 68	P 52.5	0.5	4
Roche/Hitachi & Roche Cobas 6000, 8000	9	26 - 48	P 37.3	1.6	10 - 19	P 14.3	0.4	13 - 25	P 19.0	0.7	23 - 43	P 33.0	1.2	32 - 59	P 45.3	1.6	4
Siemens Dimension & Siemens Dimension EXL	10	115 - 213	P 164.0	6.6	44 - 82	P 62.9	3.6	59 - 109	P 83.8	3.5	102 - 189	P 145.4	6.4	143 - 265	P 204.1	7.6	10
Siemens LIPL, liquid & Siemens Dimension EXL	11	114 - 211	P 162.2	8.3	43 - 80	P 61.6	5.3	58 - 108	P 83.0	6.4	101 - 188	P 144.3	7.7	142 - 264	P 203.2	10.6	30
Siemens LIPL, liquid & Siemens Dimension Xpand	12	110 - 204	P 157.0	10.7	40 - 74	P 57.2	5.7	54 - 100	P 77.0	6.8	97 - 180	P 138.8	10.1	138 - 257	P 197.6	14.3	5

Initial Grouping byReagent

Abbot Architect	13	32 - 59	P 45.1	1.7	11 - 20	P 15.4	0.9	15 - 28	P 21.8	0.9	28 - 51	P 39.6	1.7	38 - 71	P 54.8	1.7	11
Beckman LIP	14	34 - 63	P 48.2	2.4	16 - 30	P 23.2	3.6	20 - 38	P 29.1	3.3	31 - 58	P 44.6	2.7	40 - 75	P 57.6	2.5	9
Beckman Olympus	15	30 - 56	P 43.3	4.1	9 - 17	P 13.2	2.1	14 - 26	P 19.7	2.3	26 - 49	P 37.7	3.7	38 - 70	P 53.8	5.0	26
Ortho Vitros	16	345 - 641	P 492.9	18.9	87 - 162	P 124.7	4.4	147 - 272	P 209.4	7.0	301 - 560	P 430.4	12.2	438 - 813	P 625.3	30.5	29
Roche Cobas Integra	17	29 - 54	P 41.4	5.8	10 - 19	P 14.8	1.7	14 - 27	P 20.5	2.5	25 - 47	P 36.2	4.8	36 - 67	P 51.5	6.8	13
Roche/Hitachi	18	27 - 49	P 37.9	2.9	10 - 19	P 14.3	0.5	14 - 25	P 19.3	0.9	23 - 43	P 33.4	2.1	33 - 61	P 46.7	4.0	7
Siemens Dimension	19	115 - 213	P 164.2	8.6	43 - 81	P 62.0	4.3	58 - 108	P 83.2	4.3	102 - 189	P 145.6	7.5	143 - 266	P 204.6	11.4	12
Siemens LIPL, liquid	20	113 - 210	P 161.5	8.8	42 - 79	P 60.6	5.8	57 - 107	P 82.0	6.8	100 - 187	P 143.5	8.2	142 - 264	P 202.7	11.4	36

Initial Grouping bySensitivityor Principle

Enzymatic/colorimetric	21	144 - 268	P 205.8	172.8	43 - 79	P 60.9	41.5	65 - 121	P 92.7	71.2	125 - 232	P 178.3	149.5	182 - 337	P 259.5	220.1	117
Colorimetric	22	30 - 56	P 43.2	6.8	12 - 22	P 17.1	4.6	16 - 30	P 23.3	6.6	27 - 50	P 38.7	6.2	37 - 69	P 52.9	7.3	38

Total Population

Whole Population	23	114 - 211	P 162.6	163.6	35 - 64	P 49.5	40.3	52 - 97	P 74.4	67.9	99 - 183	P 140.9	141.2	143 - 266	P 204.4	208.3	161
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Magnesium mg/dL

Initial Grouping byReagent and Instrument

Abbott & Abbott Architect c, ci, i	1	2.3 - 3.9	P 3.13	0.06	1.2 - 2.0	P 1.56	0.07	1.4 - 2.4	P 1.89	0.05	2.1 - 3.5	P 2.83	0.06	2.9 - 4.8	P 3.83	0.09	16
Alfa Wassermann & Alfa Wasser Axel/Alera	2	2.2 - 3.6	P 2.9	0.13	1.1 - 1.8	P 1.44	0.2	1.3 - 2.2	P 1.74	0.12	2.0 - 3.4	P 2.68	0.17	2.7 - 4.5	P 3.62	0.17	5
Beckman Coulter & Beck Coult Unical DXC	3	2.3 - 3.8	P 3.01	0.06	1.1 - 1.9	P 1.5	0.05	1.4 - 2.3	P 1.84	0.12	2.1 - 3.4	P 2.76	0.05	2.7 - 4.6	P 3.64	0.05	7
Beckman Coulter & Beck Olym AU 400/600/5400	4	2.3 - 3.8	P 3.0	0.25	1.1 - 1.9	P 1.53	0.05	1.4 - 2.3	P 1.87	0.05	2.0 - 3.3	P 2.68	0.23	2.7 - 4.5	P 3.58	0.29	4
Beckman Coulter & Beckman AU 480	5	2.4 - 4.0	P 3.19	0.08	1.2 - 2.0	P 1.59	0.03	1.4 - 2.4	P 1.9	0.07	2.2 - 3.6	P 2.87	0.07	2.9 - 4.8	P 3.82	0.07	8
Beckman Olympus & Beck Olym AU 400/600/5400	6	2.3 - 3.9	P 3.12	0.21	1.1 - 1.9	P 1.52	0.11	1.4 - 2.3	P 1.86	0.15	2.1 - 3.5	P 2.8	0.17	2.8 - 4.6	P 3.71	0.24	17
Beckman Olympus & Beckman AU 480	7	2.4 - 4.0	P 3.21	0.17	1.2 - 1.9	P 1.55	0.05	1.4 - 2.4	P 1.9	0.06	2.1 - 3.6	P 2.85	0.08	2.8 - 4.7	P 3.79	0.11	15
Horiba ABX & Horiba ABX 400	8	2.2 - 3.6	P 2.88	0.16	1.1 - 1.8	P 1.48	0.04	1.4 - 2.3	P 1.85	0.11	2.0 - 3.3	P 2.68	0.08	2.6 - 4.4	P 3.53	0.04	4
Ortho Vitros & Ortho Vitros 3600, 5600	9	2.5 - 4.2	P 3.38	0.1	1.2 - 2.1	P 1.66	0.05	1.5 - 2.5	P 2.04	0.06	2.3 - 3.8	P 3.05	0.09	3.0 - 5.0	P 4.02	0.1	18
Ortho Vitros & Ortho Vitros not DT or ECi	10	2.6 - 4.3	P 3.47	0.1	1.2 - 2.1	P 1.66	0.08	1.5 - 2.6	P 2.06	0.06	2.3 - 3.9	P 3.11	0.08	3.1 - 5.2	P 4.13	0.14	18
Roche Cobas & Roche Cobas 6000, 8000	11	2.4 - 3.9	P 3.15	0.08	1.2 - 2.0	P 1.57	0.04	1.4 - 2.4	P 1.93	0.06	2.1 - 3.6	P 2.86	0.05	2.9 - 4.8	P 3.82	0.06	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	12	2.4 - 4.0	P 3.18	0.06	1.2 - 1.9	P 1.56	0.05	1.4 - 2.4	P 1.89	0.06	2.1 - 3.5	P 2.83	0.07	2.8 - 4.7	P 3.78	0.08	9
Siemens Dimension & Siemens Dimension EXL	13	2.3 - 3.9	P 3.13	0.1	1.1 - 1.9	P 1.52	0.08	1.4 - 2.3	P 1.86	0.07	2.1 - 3.5	P 2.82	0.08	2.8 - 4.7	P 3.77	0.06	46
Siemens Dimension & Siemens Dimension Xpand	14	2.4 - 3.9	P 3.14	0.12	1.1 - 1.9	P 1.52	0.06	1.4 - 2.4	P 1.89	0.07	2.1 - 3.6	P 2.86	0.1	2.9 - 4.8	P 3.8	0.08	9

Initial Grouping byReagent

Abbott	15	2.3 - 3.9	P 3.13	0.06	1.2 - 2.0	P 1.56	0.07	1.4 - 2.4	P 1.89	0.05	2.1 - 3.5	P 2.83	0.06	2.9 - 4.8	P 3.83	0.09	16
Alfa Wassermann	16	2.2 - 3.6	P 2.9	0.13	1.1 - 1.8	P 1.44	0.2	1.3 - 2.2	P 1.74	0.12	2.0 - 3.4	P 2.68	0.17	2.7 - 4.5	P 3.62	0.17	5
Beckman Coulter	17	2.3 - 3.8	P 3.08	0.16	1.2 - 1.9	P 1.54	0.06	1.4 - 2.3	P 1.87	0.09	2.1 - 3.5	P 2.78	0.14	2.8 - 4.6	P 3.69	0.17	20
Beckman Olympus	18	2.4 - 4.0	P 3.16	0.2	1.2 - 1.9	P 1.54	0.11	1.4 - 2.4	P 1.88	0.12	2.1 - 3.5	P 2.82	0.13	2.8 - 4.7	P 3.74	0.19	35
Carolina	19	2.0 - 3.3	P 2.62	0.07	1.0 - 1.7	P 1.38	0.09	1.2 - 2.0	P 1.63	0.07	1.8 - 3.0	P 2.4	0.1	2.4 - 3.9	P 3.14	0.12	6
Horiba ABX	20	2.2 - 3.6	P 2.88	0.16	1.1 - 1.8	P 1.48	0.04	1.4 - 2.3	P 1.85	0.11	2.0 - 3.3	P 2.68	0.08	2.6 - 4.4	P 3.53	0.04	4
Ortho Vitros	21	2.6 - 4.3	P 3.42	0.11	1.2 - 2.1	P 1.66	0.06	1.5 - 2.6	P 2.04	0.06	2.3 - 3.8	P 3.08	0.09	3.1 - 5.1	P 4.07	0.13	38
Roche Cobas	22	2.4 - 3.9	P 3.16	0.08	1.2 - 2.0	P 1.57	0.05	1.4 - 2.4	P 1.91	0.06	2.1 - 3.6	P 2.85	0.06	2.8 - 4.7	P 3.79	0.08	23
Sekisui	23	2.3 - 3.9	P 3.08	0.25	1.1 - 1.9	P 1.53	0.07	1.4 - 2.3	P 1.85	0.17	2.1 - 3.5	P 2.8	0.13	2.8 - 4.6	P 3.72	0.23	6
Siemens Dimension	24	2.4 - 3.9	P 3.14	0.1	1.1 - 1.9	P 1.51	0.08	1.4 - 2.3	P 1.86	0.08	2.1 - 3.5	P 2.82	0.09	2.8 - 4.7	P 3.77	0.08	61

Initial Grouping bySensitivityor Principle

Calmagite-based	25	2.3 - 3.8	P 3.08	0.16	1.2 - 2.0	P 1.57	0.1	1.4 - 2.4	P 1.91	0.14	2.1 - 3.5	P 2.8	0.15	2.7 - 4.6	P 3.66	0.18	25
Arsenazo	26	2.3 - 3.8	P 3.01	0.23	1.1 - 1.9	P 1.51	0.11	1.4 - 2.3	P 1.82	0.13	2.0 - 3.4	P 2.71	0.21	2.7 - 4.6	P 3.66	0.31	22
Magon (Xylidyl Blue)-based	27	2.3 - 3.9	P 3.11	0.22	1.1 - 1.9	P 1.53	0.12	1.4 - 2.3	P 1.86	0.13	2.1 - 3.5	P 2.8	0.15	2.8 - 4.6	P 3.72	0.2	58
All other methods	28	2.5 - 4.2	P 3.32	0.16	1.2 - 2.0	P 1.62	0.07	1.5 - 2.5	P 2.0	0.09	2.2 - 3.7	P 2.99	0.14	3.0 - 5.0	P 3.97	0.18	61
MTB (methylthymol blue)	29	2.4 - 3.9	P 3.14	0.1	1.1 - 1.9	P 1.51	0.08	1.4 - 2.3	P 1.86	0.08	2.1 - 3.5	P 2.82	0.09	2.8 - 4.7	P 3.77	0.08	61

Total Population

Whole Population	30	2.4 - 4.0	P 3.16	0.2	1.2 - 1.9	P 1.55	0.1	1.4 - 2.4	P 1.9	0.12	2.1 - 3.6	P 2.85	0.17	2.8 - 4.7	P 3.79	0.22	227
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Magnesium mEq/L

Initial Grouping bySensitivityor Principle

Magon (Xylydyl Blue)-based	1	1.9- 3.2	P 2.58	0.47	1.0- 1.6	P 1.27	0.18	1.1- 1.9	P 1.53	0.25	1.8- 2.9	P 2.35	0.4	2.3- 3.9	P 3.13	0.58	4
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Total Population																	
Whole Population	2	2.0- 3.3	P 2.68	0.4	1.0- 1.6	P 1.31	0.2	1.3- 2.2	P 1.72	0.45	1.8- 3.0	P 2.42	0.35	2.4- 4.0	P 3.21	0.47	10

Thyroid Stimulating Hormone

Initial Grouping by Reagent and Instrument

Abbott CMA & Abbott Architect c, ci, i	1	4.5- 6.0	S 5.25	0.24	0.9- 1.4	S 1.17	0.07	1.7- 2.5	S 2.09	0.12	3.8- 5.3	S 4.53	0.25	5.7- 7.7	S 6.69	0.34	22
Beckman Coulter Access & Beckman Coulter Access	2	4.3- 7.7	S 5.96	0.57	1.0- 1.5	S 1.28	0.08	1.7- 2.8	S 2.25	0.17	3.7- 6.4	S 5.03	0.45	5.2- 10.1	S 7.63	0.82	60
Beckman Coulter Access & Beckman Coulter Dxl	3	4.6- 6.4	S 5.48	0.29	1.0- 1.5	S 1.27	0.08	1.8- 2.6	S 2.17	0.13	3.9- 5.5	S 4.7	0.27	5.7- 8.5	S 7.09	0.47	13
MP Biomedicals & All gamma counters	4	5.5- 8.2	S 6.87	0.46	1.2- 2.5	S 1.89	0.22	2.0- 3.9	S 2.94	0.31	5.2- 6.9	S 6.04	0.3	6.7- 9.3	S 8.02	0.44	16
Ortho Vitros & Ortho Vitros 3600, 5600	5	7.2- 8.4	S 7.78	0.19	1.5- 1.9	S 1.72	0.07	2.8- 3.3	S 3.03	0.09	5.9- 7.4	S 6.68	0.24	9.2- 10.8	S 9.98	0.26	19
Ortho Vitros & Ortho Vitros ECi	6	6.5- 9.3	S 7.88	0.47	1.5- 2.1	S 1.82	0.11	2.6- 3.7	S 3.15	0.19	5.5- 8.0	S 6.77	0.41	7.8- 11.9	S 9.85	0.68	6
Qualigen FastPack & Qualigen FastPack	7	4.3- 6.2	S 5.27	0.32	1.0- 1.2	C 1.1	0.0	1.8- 2.3	S 2.07	0.08	4.0- 5.0	S 4.5	0.18	6.0- 7.9	S 6.96	0.32	9
Roche Elecsys & Roche Cobas 6000, 8000	8	4.6- 6.4	S 5.53	0.3	1.3- 1.7	S 1.49	0.08	2.1- 2.8	S 2.45	0.13	4.2- 5.6	S 4.88	0.23	5.7- 8.0	S 6.85	0.39	11
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	9	5.0- 6.1	S 5.57	0.17	1.3- 1.7	S 1.49	0.07	2.2- 2.7	S 2.47	0.09	4.4- 5.4	S 4.91	0.16	6.2- 7.4	S 6.79	0.21	10
Roche Elecsys & Roche e411/e601/E170/E2010	10	5.1- 6.0	S 5.55	0.16	1.4- 1.7	S 1.52	0.06	2.2- 2.7	S 2.45	0.09	4.4- 5.3	S 4.85	0.16	6.0- 7.6	S 6.78	0.27	34
Siemens Advia & Siemens Centaur/Centaur CP	11	5.4- 8.2	S 6.79	0.46	1.1- 2.1	S 1.6	0.16	2.1- 3.5	S 2.79	0.23	4.7- 6.9	S 5.83	0.37	6.9- 10.0	S 8.47	0.51	7
Siemens Dimension & Siemens Dimension EXL	12	3.7- 6.7	S 5.16	0.5	0.8- 1.6	S 1.2	0.13	1.5- 2.6	S 2.08	0.18	3.6- 4.9	S 4.25	0.23	5.0- 8.0	S 6.5	0.5	8
Siemens Dimension & Siemens Dimension Xpand	13	4.2- 8.2	S 6.19	0.67	1.1- 1.6	S 1.35	0.08	1.9- 2.8	S 2.34	0.14	4.0- 6.3	S 5.13	0.39	6.5- 9.3	S 7.88	0.47	12
Siemens Dimension LOCI & Siemens Dimension EXL	14	4.4- 6.0	S 5.21	0.28	1.0- 1.5	S 1.28	0.08	1.7- 2.5	S 2.11	0.13	3.7- 5.2	S 4.44	0.26	5.4- 7.6	S 6.51	0.36	38
Siemens Immulite 3rd gen & Siemens Immulite 1000	15	4.7- 7.4	S 6.07	0.45	0.9- 1.7	S 1.33	0.13	1.9- 3.0	S 2.47	0.17	4.2- 6.2	S 5.2	0.33	5.9- 9.4	S 7.61	0.58	10
Siemens Immulite 3rd gen & Siemens Immulite 2000	16	4.9- 7.7	S 6.29	0.46	1.1- 1.7	S 1.41	0.1	2.1- 2.8	S 2.47	0.12	4.2- 6.7	S 5.47	0.42	6.7- 9.5	S 8.11	0.46	7
Siemens TSH Ultra & Siemens Centaur/Centaur CP	17	5.3- 7.1	S 6.18	0.29	1.2- 1.6	S 1.4	0.07	2.2- 2.8	S 2.49	0.11	4.3- 6.2	S 5.28	0.32	6.5- 9.2	S 7.86	0.45	12
Tosoh AIA & Tosoh AIA	18	5.5- 8.0	S 6.78	0.42	1.3- 2.0	S 1.64	0.11	2.3- 3.3	S 2.81	0.17	4.4- 7.3	S 5.84	0.48	7.2- 9.9	S 8.55	0.46	28
Tosoh AIA & Tosoh AIA ST	19	5.6- 8.6	S 7.09	0.5	1.2- 2.1	S 1.66	0.14	2.2- 3.4	S 2.84	0.2	4.5- 7.5	S 6.03	0.5	7.3- 10.5	S 8.92	0.53	18

Initial Grouping by Reagent

Abbott CMA	20	4.5- 6.0	S 5.25	0.24	0.9- 1.4	S 1.17	0.07	1.7- 2.5	S 2.09	0.12	3.8- 5.3	S 4.53	0.25	5.7- 7.7	S 6.69	0.34	22
Beckman Coulter Access	21	4.2- 7.5	S 5.87	0.55	1.0- 1.5	S 1.28	0.08	1.7- 2.7	S 2.23	0.16	3.7- 6.3	S 4.98	0.44	5.2- 9.9	S 7.54	0.79	75
MP Biomedicals	22	5.5- 8.2	S 6.87	0.46	1.2- 2.5	S 1.89	0.22	2.0- 3.9	S 2.94	0.31	5.2- 6.9	S 6.04	0.3	6.7- 9.3	S 8.02	0.44	16
Ortho Vitros	23	6.9- 8.7	S 7.8	0.29	1.5- 2.0	S 1.74	0.09	2.7- 3.5	S 3.06	0.13	5.8- 7.6	S 6.7	0.29	8.7- 11.2	S 9.95	0.41	25
Qualigen FastPack	24	4.3- 6.2	S 5.27	0.32	1.0- 1.2	C 1.1	0.0	1.8- 2.3	S 2.07	0.08	4.0- 5.0	S 4.5	0.18	6.0- 7.9	S 6.96	0.32	9
Roche Elecsys	25	5.0- 6.1	S 5.55	0.2	1.3- 1.7	S 1.51	0.06	2.2- 2.8	S 2.46	0.1	4.3- 5.4	S 4.87	0.18	5.9- 7.7	S 6.79	0.29	57
Siemens Advia	26	5.4- 8.2	S 6.79	0.46	1.1- 2.1	S 1.6	0.16	2.1- 3.5	S 2.79	0.23	4.7- 6.9	S 5.83	0.37	6.9- 10.0	S 8.47	0.51	7
Siemens Dimension	27	3.2- 8.2	S 5.7	0.85	0.9- 1.7	S 1.28	0.13	1.6- 2.8	S 2.22	0.21	3.1- 6.4	S 4.75	0.55	4.8- 9.8	S 7.28	0.84	21
Siemens Dimension LOCI	28	4.3- 6.1	S 5.19	0.29	1.0- 1.5	S 1.27	0.08	1.7- 2.5	S 2.1	0.13	3.6- 5.2	S 4.43	0.26	5.4- 7.6	S 6.5	0.37	39
Siemens Immulite 3rd gen	29	4.8- 7.6	S 6.16	0.47	1.0- 1.7	S 1.36	0.12	2.0- 2.9	S 2.47	0.15	4.1- 6.5	S 5.31	0.39	6.0- 9.6	S 7.82	0.59	17
Siemens Immulite Turbo	30	5.0- 7.3	S 6.13	0.38	1.3- 1.6	S 1.43	0.05	2.2- 2.8	S 2.5	0.12	4.4- 6.1	S 5.25	0.3	6.2- 9.1	S 7.65	0.49	6
Siemens TSH Ultra	31	5.3- 7.1	S 6.18	0.29	1.2- 1.6	S 1.4	0.07	2.2- 2.8	S 2.49	0.11	4.3- 6.2	S 5.28	0.32	6.5- 9.2	S 7.86	0.45	12
Tosoh AIA	32	5.5- 8.3	S 6.89	0.47	1.3- 2.0	S 1.64	0.12	2.3- 3.4	S 2.82	0.18	4.4- 7.4	S 5.91	0.49	7.1- 10.2	S 8.68	0.52	47

Initial Grouping by Sensitivity or Principle

Standardized methods	33	3.4- 8.5	S 5.98	0.85	0.8- 2.0	S 1.39	0.21	1.4- 3.4	S 2.4	0.33	3.0- 7.3	S 5.14	0.71	4.2- 11.0	S 7.56	1.13	209
Tosoh and RIA	34	5.0- 8.4	S 6.69	0.57	1.0- 2.2	S 1.59	0.21	2.0- 3.5	S 2.75	0.26	4.2- 7.3	S 5.77	0.52	6.3- 10.3	S 8.31	0.66	86
Siemens non Immulite	35	3.6- 7.2	S 5.37	0.6	1.0- 1.6	S 1.28	0.1	1.6- 2.7	S 2.14	0.17	3.3- 5.8	S 4.54	0.42	4.7- 8.8	S 6.77	0.69	60

Total Population																	
Whole Population	36	3.5- 8.6	S 6.05	0.86	0.8- 2.1	S 1.42	0.22	1.4- 3.5	S 2.44	0.35	3.0- 7.4	S 5.19	0.74	4.3- 10.9	S 7.61	1.09	355

Thyroxine, Free (FT4)

Initial Grouping by Reagent and Instrument

Abbott CMA & Abbott Architect c, ci, i	1	2.0- 4.0	S 2.98	0.33	1.0- 1.2	S 1.1	0.05	1.4- 1.7	S 1.52	0.05	1.9- 3.4	S 2.62	0.25	2.2- 4.9	S 3.54	0.45	20
Beckman Coulter Access & Beckman Coulter Access	2	2.1- 2.9	S 2.49	0.14	1.0- 1.5	S 1.27	0.07	1.3- 2.0	S 1.62	0.11	1.9- 2.7	S 2.31	0.14	2.1- 3.5	S 2.82	0.23	46
Beckman Coulter Access & Beckman Coulter Dxl	3	2.0- 2.9	S 2.46	0.15	1.0- 1.4	S 1.21	0.08	1.2- 1.8	S 1.52	0.1	1.9- 2.6	S 2.25	0.12	2.3- 3.3	S 2.82	0.17	13
MP Biomedicals & All gamma counters	4	0.9- 2.3	S 1.6	0.23	0.1- 0.9	S 0.5	0.14	0.4- 0.9	S 0.66	0.07	0.8- 2.1	S 1.45	0.22	1.7- 2.2	S 1.93	0.08	15
Ortho Vitros & Ortho Vitros 3600, 5600	5	6.8- 7.1	S 6.95	0.05	3.3- 3.7	S 3.5	0.08	4.3- 5.6	S 4.97	0.22	6.4- 7.0	S 6.7	0.12	6.8- 7.1	S 6.95	0.05	14
Ortho Vitros & Ortho Vitros ECi	6	6.8- 7.0	S 6.92	0.04	3.4- 3.7	S 3.55	0.05	4.6- 5.2	S 4.9	0.11	6.6- 6.9	S 6.75	0.05	6.8- 7.0	S 6.92	0.04	5
Qualigen FastPack & Qualigen FastPack	7	3.1- 5.2	S 4.15	0.36	1.3- 1.9	S 1.6	0.12	1.8- 2.4	S 2.12	0.11	2.9- 4.6	S 3.75	0.29	3.2- 6.8	S 5.02	0.6	6
Roche Elecsys & Roche Cobas 6000, 8000	8	3.0- 3.6	S 3.3	0.11	1.3- 1.5	S 1.42	0.04	1.6- 2.1	S 1.88	0.08	2.8- 3.2	S 2.99	0.06	3.8- 4.1	S 3.94	0.05	9
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	9	2.9- 3.5	S 3.21	0.1	1.3- 1.5	C 1.4	0.0	1.6- 2.1	S 1.84	0.07	2.6- 3.1	S 2.89	0.08	3.5- 4.1	S 3.81	0.1	7
Roche Elecsys & Roche e411/e601/E170/E2010	10	2.7- 3.9	S 3.28	0.2	1.2- 1.6	S 1.4	0.07	1.6- 2.1	S 1.82	0.09	2.5- 3.4	S 2.96	0.15	3.1- 4.6	S 3.87	0.25	13
Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP	11	1.9- 3.0	S 2.45	0.2	0.9- 1.3	S 1.1	0.08	1.2- 1.8	S 1.48	0.1	1.7- 2.8	S 2.28	0.18	2.1- 3.7	S 2.91	0.27	12
Siemens Dimension & Siemens Dimension EXL	12	2.9- 4.6	S 3.78	0.28	1.2- 1.6	S 1.4	0.06	1.6- 2.4	S 1.96	0.14	2.4- 4.4	S 3.4	0.32	3.4- 5.6	S 4.5	0.37	5
Siemens Dimension & Siemens Dimension Xpand	13	2.9- 4.4	S 3.64	0.24	1.0- 1.6	S 1.3	0.09	1.5- 2.4	S 1.99	0.15	2.7- 4.2	S 3.43	0.25	3.3- 4.9	S 4.1	0.27	9

Siemens Dimension LOCI & Siemens Dimension EXL	14	3.3 - 4.3	S 3.79	0.18	1.2 - 1.6	S 1.41	0.06	1.7 - 2.2	S 1.93	0.09	2.9 - 3.8	S 3.35	0.16	3.9 - 5.1	S 4.51	0.2	36
Siemens Immulite (1-step) & Siemens Immulite 1000	15	2.7 - 3.9	S 3.3	0.19	1.5 - 1.8	S 1.65	0.05	1.9 - 2.4	S 2.13	0.08	2.9 - 3.3	S 3.1	0.07	3.1 - 4.4	S 3.75	0.21	4
Siemens Immulite (1-step) & Siemens Immulite 2000	16	2.3 - 3.9	S 3.1	0.28	1.4 - 1.7	S 1.55	0.05	1.7 - 2.3	S 1.98	0.11	2.6 - 3.1	S 2.85	0.1	3.0 - 3.9	S 3.47	0.15	6
Tosoh AIA & Tosoh AIA	17	3.2 - 4.6	S 3.87	0.23	1.1 - 2.0	S 1.55	0.16	1.6 - 2.7	S 2.16	0.19	2.8 - 4.4	S 3.57	0.27	3.6 - 5.4	S 4.52	0.3	19
Tosoh AIA & Tosoh AIA ST	18	3.6 - 4.5	S 4.08	0.16	1.3 - 2.0	S 1.66	0.12	1.9 - 2.7	S 2.3	0.14	3.3 - 4.3	S 3.76	0.17	4.3 - 5.2	S 4.73	0.16	8
Initial Grouping by Reagent																	
Abbott Cmia	19	2.0 - 4.0	S 2.98	0.33	1.0 - 1.2	S 1.1	0.05	1.4 - 1.7	S 1.52	0.05	1.9 - 3.4	S 2.62	0.25	2.2 - 4.9	S 3.54	0.45	20
Beckman Coulter Access	20	2.0 - 3.0	S 2.48	0.17	1.0 - 1.5	S 1.25	0.1	1.2 - 2.0	S 1.59	0.14	1.8 - 2.8	S 2.29	0.17	2.1 - 3.5	S 2.8	0.24	61
MP Biomedicals	21	0.9 - 2.3	S 1.6	0.23	0.1 - 0.9	S 0.5	0.14	0.4 - 0.9	S 0.66	0.07	0.8 - 2.1	S 1.45	0.22	1.7 - 2.2	S 1.93	0.08	15
Ortho Vitros	22	6.8 - 7.1	S 6.95	0.05	3.3 - 3.7	S 3.52	0.07	4.4 - 5.6	S 4.97	0.21	6.4 - 7.0	S 6.71	0.11	6.8 - 7.1	S 6.95	0.05	20
Qualigen FastPack	23	3.1 - 5.2	S 4.15	0.36	1.3 - 1.9	S 1.6	0.12	1.8 - 2.4	S 2.12	0.11	2.9 - 4.6	S 3.75	0.29	3.2 - 6.8	S 5.02	0.6	6
Roche Cobas	24	2.6 - 3.8	S 3.22	0.19	1.2 - 1.6	S 1.4	0.06	1.6 - 2.0	S 1.82	0.07	2.4 - 3.4	S 2.92	0.17	3.1 - 4.5	S 3.84	0.23	5
Roche Elecsys	25	2.8 - 3.7	S 3.27	0.16	1.3 - 1.6	S 1.41	0.05	1.6 - 2.1	S 1.84	0.08	2.6 - 3.3	S 2.95	0.12	3.3 - 4.4	S 3.88	0.18	30
Siemens Advia/Centaur/CP/XP	26	1.9 - 3.0	S 2.45	0.2	0.9 - 1.3	S 1.1	0.08	1.2 - 1.8	S 1.48	0.1	1.7 - 2.8	S 2.28	0.18	2.1 - 3.7	S 2.91	0.27	12
Siemens Dimension	27	2.9 - 4.5	S 3.69	0.26	1.0 - 1.6	S 1.34	0.1	1.5 - 2.4	S 1.98	0.15	2.6 - 4.3	S 3.42	0.28	3.1 - 5.3	S 4.24	0.37	14
Siemens Dimension LOCI	28	3.3 - 4.3	S 3.78	0.17	1.2 - 1.6	S 1.41	0.06	1.7 - 2.2	S 1.93	0.09	2.9 - 3.8	S 3.35	0.15	3.9 - 5.1	S 4.51	0.2	37
Siemens Immulite (1-step)	29	2.3 - 4.0	S 3.15	0.28	1.3 - 1.8	S 1.57	0.09	1.6 - 2.4	S 2.02	0.13	2.4 - 3.4	S 2.93	0.16	2.9 - 4.2	S 3.55	0.23	11
Tosoh AIA	30	3.2 - 4.6	S 3.93	0.23	1.1 - 2.1	S 1.58	0.16	1.6 - 2.8	S 2.2	0.19	2.9 - 4.4	S 3.63	0.26	3.7 - 5.4	S 4.58	0.28	27
Initial Grouping by Sensitivity or Principle																	
Standardized methods	31	0.7 - 5.2	S 2.94	0.74	0.3 - 2.3	S 1.28	0.34	0.4 - 3.0	S 1.69	0.44	0.6 - 4.7	S 2.68	0.68	0.7 - 6.1	S 3.43	0.89	165
Vitros and related	32	6.8 - 7.1	S 6.95	0.05	3.3 - 3.7	S 3.52	0.07	4.4 - 5.6	S 4.97	0.21	6.4 - 7.0	S 6.71	0.11	6.8 - 7.1	S 6.95	0.05	20
Siemens non-Immunit	33	1.9 - 5.2	S 3.51	0.55	0.9 - 1.7	S 1.33	0.14	1.2 - 2.5	S 1.86	0.21	1.8 - 4.6	S 3.16	0.47	2.2 - 6.1	S 4.15	0.66	63
All Immulite	34	2.2 - 4.0	S 3.12	0.29	1.0 - 2.2	S 1.61	0.19	1.6 - 2.5	S 2.02	0.15	2.4 - 3.4	S 2.92	0.17	2.9 - 4.3	S 3.59	0.23	14
Total Population																	
Whole Population	35	0 - 7.1	S 3.4	1.24	0 - 2.7	S 1.35	0.43	0 - 4.8	S 2.0	0.94	0.1 - 5.8	S 2.95	0.94	0.2 - 7.5	S 3.88	1.22	262

Thyroxine, Total (TT4)

Initial Grouping by Reagent and Instrument

Abbott Cmia & Abbott Architect c, ci, i	1	7.9 - 11.8	P 9.82	0.48	2.3 - 4.3	C 3.25	0.42	3.7 - 5.7	C 4.66	0.32	6.9 - 10.3	P 8.61	0.37	9.9 - 14.9	P 12.38	0.52	10
Beckman Coulter Access & Beckman Coulter Access	2	9.0 - 13.5	P 11.25	0.76	2.5 - 4.5	C 3.5	0.38	4.3 - 6.5	P 5.39	0.52	8.0 - 12.1	P 10.05	0.79	11.1 - 16.6	P 13.86	1.05	17
Beckman Coulter Access & Beckman Coulter Dxl	3	9.1 - 13.6	P 11.32	0.49	2.2 - 4.2	C 3.21	0.3	4.2 - 6.3	P 5.24	0.34	8.1 - 12.1	P 10.12	0.55	11.2 - 16.7	P 13.94	0.45	9
Ortho Vitros & Ortho Vitros 3600, 5600	4	9.5 - 14.3	P 11.93	0.85	2.4 - 4.4	C 3.43	0.15	4.0 - 6.0	C 4.95	0.24	8.3 - 12.5	P 10.4	0.29	12.7 - 19.0	P 15.83	1.15	6
Roche Cobas & Roche Cobas 6000, 8000	5	7.5 - 11.3	P 9.43	0.3	2.6 - 4.6	C 3.6	0.07	3.8 - 5.8	C 4.78	0.08	6.7 - 10.1	P 8.43	0.47	9.7 - 14.5	P 12.1	0.46	4
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	6	7.6 - 11.4	P 9.54	0.65	2.4 - 4.4	C 3.44	0.16	3.8 - 5.8	C 4.76	0.19	6.8 - 10.1	P 8.44	0.56	9.7 - 14.5	P 12.07	0.71	7
Roche Elecsys & Roche e411/e601/E170/E2010	7	7.5 - 11.2	P 9.35	0.15	2.4 - 4.4	C 3.4	0.08	3.6 - 5.6	C 4.62	0.11	6.6 - 9.9	P 8.23	0.22	9.3 - 14.0	P 11.67	0.38	6
Siemens Advia/Centaur/CP/XP & Siemens Centaur/CP	8	7.8 - 11.7	P 9.74	0.71	2.4 - 4.4	C 3.4	0.3	3.7 - 5.7	C 4.7	0.49	6.9 - 10.4	P 8.67	0.62	9.6 - 14.4	P 12.04	0.94	8
Siemens Dimension & Siemens Dimension EXL	9	9.2 - 13.8	P 11.49	0.59	2.7 - 4.7	C 3.7	0.35	4.2 - 6.4	P 5.3	0.35	8.0 - 12.0	P 10.02	0.45	11.4 - 17.2	P 14.31	0.59	16
Siemens Immulite & Siemens Immulite 2000	10	7.9 - 11.8	P 9.86	0.8	2.1 - 4.1	C 3.08	0.24	3.6 - 5.6	C 4.64	0.51	7.5 - 11.3	P 9.4	0.62	10.2 - 15.3	P 12.72	0.89	5
Tosoh AIA & Tosoh AIA ST	11	7.9 - 11.8	P 9.85	0.9	2.1 - 4.1	C 3.13	0.24	3.8 - 5.8	C 4.78	0.47	6.9 - 10.3	P 8.57	0.63	9.6 - 14.4	P 12.0	1.42	4

Initial Grouping by Reagent

Abbott Cmia	12	7.9 - 11.8	P 9.82	0.48	2.3 - 4.3	C 3.25	0.42	3.7 - 5.7	C 4.66	0.32	6.9 - 10.3	P 8.61	0.37	9.9 - 14.9	P 12.38	0.52	10
Beckman Coulter Access	13	9.0 - 13.5	P 11.27	0.68	2.4 - 4.4	C 3.4	0.38	4.3 - 6.4	P 5.34	0.47	8.1 - 12.1	P 10.08	0.72	11.1 - 16.7	P 13.89	0.89	26
Ortho Vitros	14	10.0 - 14.9	P 12.44	1.14	2.6 - 4.6	C 3.56	0.23	4.2 - 6.2	P 5.19	0.42	8.5 - 12.8	P 10.68	0.54	13.1 - 19.6	P 16.34	1.35	9
Roche Cobas	15	7.5 - 11.3	P 9.43	0.3	2.6 - 4.6	C 3.6	0.07	3.8 - 5.8	C 4.78	0.08	6.7 - 10.1	P 8.43	0.47	9.7 - 14.5	P 12.1	0.46	4
Roche Elecsys	16	7.6 - 11.4	P 9.48	0.46	2.4 - 4.4	C 3.44	0.13	3.7 - 5.7	C 4.7	0.17	6.7 - 10.0	P 8.36	0.42	9.5 - 14.3	P 11.89	0.56	16
Siemens Advia/Centaur/CP/XP	17	7.8 - 11.7	P 9.74	0.71	2.4 - 4.4	C 3.4	0.3	3.7 - 5.7	C 4.7	0.49	6.9 - 10.4	P 8.67	0.62	9.6 - 14.4	P 12.04	0.94	8
Siemens Dimension	18	9.3 - 13.9	P 11.62	0.69	2.7 - 4.7	C 3.72	0.33	4.2 - 6.4	P 5.3	0.33	8.1 - 12.1	P 10.12	0.56	11.5 - 17.3	P 14.43	0.73	20
Siemens Immulite	19	7.9 - 11.9	P 9.9	0.73	2.1 - 4.1	C 3.09	0.24	3.6 - 5.6	C 4.6	0.43	7.4 - 11.1	P 9.23	0.64	10.0 - 15.0	P 12.54	0.84	8
Tosoh AIA	20	7.9 - 11.9	P 9.92	0.74	2.2 - 4.2	C 3.18	0.24	3.8 - 5.8	C 4.82	0.43	6.9 - 10.4	P 8.68	0.58	9.9 - 14.9	P 12.42	1.37	6

Initial Grouping by Sensitivity or Principle

Standardized methods	21	8.4 - 12.6	P 10.46	1.25	2.4 - 4.4	C 3.42	0.36	3.9 - 5.9	C 4.88	0.45	7.4 - 11.0	P 9.2	0.96	10.5 - 15.8	P 13.17	1.64	85
Beckman Coulter and related	22	9.0 - 13.5	P 11.27	0.68	2.4 - 4.4	C 3.4	0.38	4.3 - 6.4	P 5.34	0.47	8.1 - 12.1	P 10.08	0.72	11.1 - 16.7	P 13.89	0.89	26
Total Population																	
Whole Population	23	8.5 - 12.8	P 10.65	1.2	2.4 - 4.4	C 3.42	0.36	4.0 - 6.0	C 4.99	0.5	7.5 - 11.3	P 9.41	0.98	10.7 - 16.0	P 13.34	1.53	111

Triiodothyronine, Total (TT3)

Initial Grouping by Reagent and Instrument

Abbott Cmia & Abbott Architect c, ci, i	1	1.17 - 1.88	S 1.521	0.118	0.8 - 1.33	S 1.063	0.089	1.01 - 1.47	S 1.239	0.078	1.27 - 1.68	S 1.472	0.068	1.26 - 1.8	S 1.528	0.091	9
Beckman Coulter Access & Beckman Coulter Access	2	1.14 - 2.29	S 1.714	0.191	0.71 - 1.58	S 1.145	0.146	0.88 - 1.6	S 1.243	0.12	1.06 - 2.11	S 1.583	0.175	1.4 - 2.44	S 1.917	0.173	15
Beckman Coulter Access & Beckman Coulter Dxl	3	1.53 - 2.28	S 1.903	0.124	0.84 - 1.35	S 1.098	0.085	0.95 - 1.5	S 1.227	0.093	1.33 - 2.09	S 1.71	0.127	1.67 - 2.58	S 2.126	0.151	10

MP Biomedicals & All gamma counters	4	1.5 - 1.8	S 1.65	0.05	0.3 - 1.08	S 0.69	0.132	0.7 - 1.1	S 0.9	0.066	1.17 - 1.61	S 1.391	0.073	1.76 - 2.4	S 2.08	0.106	8
Ortho Vitros & Ortho Vitros 3600, 5600	5	7.8 - 7.82	C 7.81	0.0	5.39 - 5.48	S 5.435	0.015	6.31 - 8.08	S 7.193	0.294	7.8 - 7.82	C 7.81	0.0	7.8 - 7.82	C 7.81	0.0	6
Roche Elecsys & Roche Cobas 6000, 8000	6	1.57 - 2.12	S 1.841	0.092	1.19 - 1.55	S 1.368	0.059	1.18 - 1.72	S 1.453	0.09	1.55 - 1.96	S 1.753	0.069	1.45 - 2.83	S 2.137	0.231	8
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	7	1.57 - 2.16	S 1.869	0.099	1.1 - 1.71	S 1.405	0.101	1.21 - 1.81	S 1.514	0.1	1.54 - 1.98	S 1.759	0.073	1.72 - 2.39	S 2.057	0.112	8
Roche Elecsys & Roche e411/e601/E170/E2010	8	1.47 - 2.2	S 1.837	0.121	1.08 - 1.67	S 1.377	0.098	1.2 - 1.75	S 1.475	0.09	1.43 - 2.09	S 1.76	0.111	1.55 - 2.5	S 2.025	0.159	6
Siemens Advia & Siemens Centaur/Centaur CP	9	1.51 - 1.76	S 1.635	0.043	0.85 - 1.47	S 1.162	0.103	1.1 - 1.56	S 1.33	0.077	1.38 - 1.76	S 1.568	0.063	1.5 - 1.94	S 1.724	0.073	10
Siemens Immulite & Siemens Immulite 2000	10	0.74 - 1.27	S 1.006	0.089	0.4 - 0.86	S 0.632	0.077	0.48 - 1.05	S 0.766	0.095	0.63 - 1.3	S 0.966	0.111	0.68 - 1.48	S 1.078	0.133	5
Initial Grouping by Reagent																	
Abbott CMIA	11	1.17 - 1.88	S 1.521	0.118	0.8 - 1.33	S 1.063	0.089	1.01 - 1.47	S 1.239	0.078	1.27 - 1.68	S 1.472	0.068	1.26 - 1.8	S 1.528	0.091	9
Beckman Coulter Access	12	1.22 - 2.36	S 1.79	0.191	0.74 - 1.51	S 1.126	0.127	0.91 - 1.57	S 1.236	0.11	1.13 - 2.14	S 1.634	0.169	1.42 - 2.58	S 2.0	0.194	25
MP Biomedicals	13	1.5 - 1.8	S 1.65	0.05	0.3 - 1.08	S 0.69	0.132	0.7 - 1.1	S 0.9	0.066	1.17 - 1.61	S 1.391	0.073	1.76 - 2.4	S 2.08	0.106	8
Ortho Vitros	14	7.8 - 7.82	C 7.81	0.0	5.39 - 5.48	S 5.435	0.015	6.24 - 8.32	S 7.281	0.348	7.8 - 7.82	C 7.81	0.0	7.8 - 7.82	C 7.81	0.0	7
Roche Elecsys	15	1.54 - 2.15	S 1.848	0.102	1.12 - 1.64	S 1.383	0.087	1.19 - 1.77	S 1.479	0.096	1.5 - 2.0	S 1.753	0.084	1.54 - 2.61	S 2.074	0.179	23
Siemens Advia	16	1.49 - 1.8	S 1.645	0.052	0.85 - 1.5	S 1.175	0.107	1.08 - 1.62	S 1.346	0.09	1.33 - 1.84	S 1.586	0.084	1.44 - 2.05	S 1.747	0.101	11
Siemens Immulite	17	0.7 - 1.3	S 0.999	0.101	0.27 - 0.87	S 0.57	0.102	0.47 - 1.0	S 0.735	0.087	0.61 - 1.25	S 0.928	0.106	0.72 - 1.4	S 1.056	0.113	8
Initial Grouping by Sensitivity or Principle																	
Standardized methods	18	1.23 - 2.23	S 1.728	0.166	0.77 - 1.75	S 1.263	0.163	1.0 - 1.79	S 1.395	0.133	1.23 - 2.07	S 1.652	0.141	1.07 - 2.68	S 1.876	0.268	43
Beckman Coulter and related	19	1.22 - 2.29	S 1.756	0.178	0.34 - 1.7	S 1.021	0.227	0.63 - 1.68	S 1.155	0.176	1.02 - 2.13	S 1.575	0.184	1.48 - 2.56	S 2.02	0.18	33
Vitros and related	20	7.8 - 7.82	C 7.81	0.0	5.39 - 5.48	S 5.435	0.015	6.24 - 8.32	S 7.281	0.348	7.8 - 7.82	C 7.81	0.0	7.8 - 7.82	C 7.81	0.0	7
Immilit all	21	0.7 - 1.3	S 0.999	0.101	0.27 - 0.87	S 0.57	0.102	0.47 - 1.0	S 0.735	0.087	0.61 - 1.25	S 0.928	0.106	0.72 - 1.4	S 1.056	0.113	8
Total Population																	
Whole Population	22	0 - 4.08	S 1.802	0.758	0 - 3.51	S 1.254	0.751	0 - 2.7	S 1.311	0.462	0 - 3.81	S 1.676	0.71	0 - 4.6	S 2.003	0.865	94

T-Uptake % of Total

Initial Grouping by Reagent and Instrument

Beckman Coulter Access & Beckman Coulter Access	1	36 - 64	S 50.2	4.7	38 - 70	S 53.9	5.4	39 - 69	S 53.7	4.9	39 - 65	S 51.8	4.3	38 - 62	S 50.0	4.1	12
Beckman Coulter Access & Beckman Coulter Dxl	2	48 - 56	S 51.7	1.3	45 - 62	S 53.7	2.9	45 - 60	S 52.4	2.5	43 - 58	S 50.3	2.5	42 - 55	S 48.9	2.2	7
Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP	3	38 - 51	S 44.5	2.2	50 - 67	S 58.8	2.8	45 - 65	S 55.2	3.2	39 - 54	S 46.7	2.4	36 - 46	S 41.0	1.5	6
Siemens Dimension & Siemens Dimension EXL	4	37 - 51	S 44.0	2.2	39 - 47	S 43.1	1.4	37 - 50	S 43.4	2.1	36 - 52	S 43.7	2.6	38 - 50	S 44.0	1.9	10
Siemens Immulite & Siemens Immulite 2000	5	28 - 42	S 35.2	2.4	31 - 41	S 36.0	1.8	31 - 41	S 35.8	1.7	32 - 40	S 35.8	1.3	31 - 44	S 37.8	2.2	5

Initial Grouping by Reagent

Beckman Coulter Access	6	38 - 63	S 50.5	4.0	38 - 68	S 53.4	5.0	39 - 66	S 52.8	4.5	39 - 63	S 50.9	4.0	38 - 60	S 49.3	3.7	20
Ortho Vitros	7	65 - 65	S 65.0	0.0	65 - 65	S 65.0	0.0	65 - 65	S 65.0	0.0	65 - 65	S 65.0	0.0	65 - 65	S 65.0	0.0	6
Roche Elecsys	8	39 - 57	S 48.0	2.9	35 - 52	S 43.5	2.7	36 - 53	S 44.5	2.7	38 - 57	S 47.3	3.1	41 - 60	S 50.3	3.1	4
Siemens Advia/Centaur/CP/XP	9	38 - 51	S 44.5	2.2	50 - 67	S 58.8	2.8	45 - 65	S 55.2	3.2	39 - 54	S 46.7	2.4	36 - 46	S 41.0	1.5	6
Siemens Dimension	10	38 - 50	S 43.8	2.1	39 - 47	S 43.1	1.4	38 - 49	S 43.3	1.9	36 - 51	S 43.6	2.4	38 - 49	S 43.9	1.8	12
Siemens Immulite	11	28 - 43	S 35.4	2.6	29 - 45	S 36.9	2.6	29 - 42	S 35.9	2.2	31 - 41	S 36.1	1.6	31 - 44	S 37.3	2.1	7

Initial Grouping by Sensitivity or Principle

Beckman Coulter and Vitros	12	33 - 75	S 53.8	7.1	36 - 76	S 56.0	6.6	36 - 75	S 55.6	6.5	34 - 74	S 53.7	6.7	31 - 75	S 52.9	7.4	26
Standardized methods	13	29 - 57	S 43.1	4.7	23 - 67	S 45.2	7.3	26 - 64	S 44.7	6.4	30 - 57	S 43.5	4.6	30 - 56	S 43.1	4.3	36

Total Population

Whole Population	14	23 - 71	S 47.2	8.0	23 - 76	S 49.5	8.8	24 - 74	S 49.0	8.4	25 - 70	S 47.3	7.6	23 - 70	S 46.8	7.8	64
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T-Uptake Ratio to Normal

Initial Grouping by Reagent

Roche Elecsys	1	0.17 - 0.75	S 0.457	0.097	0.41 - 0.85	S 0.633	0.073	0.36 - 0.82	S 0.59	0.076	0.22 - 0.72	S 0.472	0.084	0.24 - 0.41	S 0.323	0.028	8
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Initial Grouping by Sensitivity or Principle

luminometric	2	0.15 - 0.88	S 0.513	0.121	0.31 - 0.87	S 0.59	0.094	0.35 - 0.79	S 0.572	0.074	0.21 - 0.82	S 0.514	0.101	0.24 - 0.41	S 0.323	0.028	11
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Total Population

Whole Population	3	0.15 - 0.88	S 0.513	0.121	0.31 - 0.87	S 0.59	0.094	0.35 - 0.79	S 0.572	0.074	0.21 - 0.82	S 0.514	0.101	0.24 - 0.41	S 0.323	0.028	11
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Fructosamine - Polylysine

Initial Grouping by Sensitivity or Principle

Other spectrophotometric	1	147 - 273	P 210.3	33.4	67 - 157	C 111.8	4.0	91 - 181	C 135.8	6.2	138 - 256	P 196.8	28.2	178 - 331	P 254.8	52.5	4
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Total Population

Whole Population	2	147 - 273	P 210.3	33.4	67 - 157	C 111.8	4.0	91 - 181	C 135.8	6.2	138 - 256	P 196.8	28.2	178 - 331	P 254.8	52.5	4
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