



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																	
Roche Elecsys	1	96.6 - 121.7 S	109.16	4.19	5.4 - 8.0	S 6.71	0.43	188.3 - 233.3	S 210.77	7.5	303.6 - 375.4	S 339.49	11.96	0.4 - 1.6	S 0.98	0.19	11
Initial Grouping by Sensitivity or Principle																	
Luminometric	2	65.4 - 139.0 S	102.22	12.27	4.7 - 8.3	S 6.5	0.59	135.5 - 262.3	S 198.89	21.14	222.5 - 420.2	S 321.35	32.94	0.4 - 1.5	S 0.94	0.18	16
Total Population																	
Whole Population	3	65.2 - 138.8 S	102.02	12.26	1.9 - 10.9	S 6.44	1.5	134.4 - 258.9	S 196.68	20.75	220.4 - 421.9	S 321.18	33.59	0.3 - 1.5	S 0.94	0.2	24
Amylase																	
Initial Grouping by Reagent and Instrument																	
Abbott Aeroset/Architect & Abbott Architect c, ci, i	1	45 - 83	P 63.8	1.8	63 - 118	P 90.6	2.1	79 - 147	P 112.9	2.7	126 - 233	P 179.3	4.6	10 - 19	P 14.5	0.7	11
Beckman Olympus & Beck Olym AU 400/600/5400	2	34 - 63	P 48.5	3.0	48 - 88	P 68.0	5.2	61 - 113	P 86.8	5.1	97 - 181	P 139.2	11.3	7 - 13	P 10.3	0.8	17
Beckman Olympus & Beckman AU 480	3	34 - 64	P 49.2	2.1	46 - 86	P 65.8	3.2	61 - 114	P 87.5	3.7	96 - 179	P 137.8	6.3	7 - 14	P 10.4	1.0	13
Ortho Vitros & Ortho Vitros 3600, 5600	4	22 - 41	P 31.7	2.6	78 - 144	P 111.1	6.2	49 - 92	P 70.7	4.8	84 - 155	P 119.6	5.4	21 - 39	P 30.0	0.0	14
Ortho Vitros & Ortho Vitros not DT or ECI	5	25 - 47	P 35.8	4.3	72 - 133	P 102.3	5.8	49 - 91	P 70.0	4.9	80 - 149	P 114.9	7.3	21 - 39	P 30.0	0.0	13
Siemens Dimension & Siemens Dimension EXL	6	45 - 84	P 64.5	1.3	59 - 110	P 84.4	1.2	81 - 150	P 115.3	1.9	127 - 236	P 181.7	2.6	9 - 16	P 12.7	0.9	45
Initial Grouping by Reagent																	
Abbott Aeroset/Architect	7	45 - 83	P 63.8	1.8	63 - 118	P 90.6	2.1	79 - 147	P 112.9	2.7	126 - 233	P 179.3	4.6	10 - 19	P 14.5	0.7	11
Beckman Olympus	8	34 - 64	P 49.1	2.9	47 - 88	P 67.4	4.7	61 - 114	P 87.7	5.0	98 - 181	P 139.3	9.6	7 - 14	P 10.4	1.0	32
Ortho Vitros	9	24 - 45	P 34.3	4.4	75 - 139	P 106.8	7.4	50 - 92	P 70.9	5.3	83 - 154	P 118.2	8.1	21 - 39	P 30.0	0.0	30
Roche Cobas	10	41 - 76	P 58.3	2.2	66 - 124	P 95.0	3.6	72 - 134	P 102.7	4.3	113 - 210	P 161.8	6.0	11 - 20	P 15.1	0.6	21
Siemens Dimension	11	45 - 84	P 64.4	1.3	59 - 110	P 84.3	1.3	81 - 150	P 115.3	2.0	127 - 236	P 181.8	2.9	9 - 17	P 12.7	0.9	56
Initial Grouping by Sensitivity or Principle																	
Standardized methods	12	45 - 83	P 63.7	8.2	63 - 116	P 89.5	11.0	77 - 142	P 109.4	11.4	121 - 225	P 173.1	17.4	11 - 20	P 15.5	3.0	42
All Beckman	13	34 - 64	P 49.1	2.9	47 - 88	P 67.4	4.7	61 - 114	P 87.7	5.0	98 - 181	P 139.3	9.6	7 - 14	P 10.4	1.0	32
Vitros and related	14	24 - 45	P 34.3	4.4	75 - 139	P 106.8	7.4	50 - 92	P 70.9	5.3	83 - 154	P 118.2	8.1	21 - 39	P 30.0	0.0	30
Roche and related	15	41 - 76	P 58.3	2.2	66 - 124	P 95.0	3.6	72 - 134	P 102.7	4.3	113 - 210	P 161.8	6.0	11 - 20	P 15.1	0.6	21
Siemens and related	16	45 - 84	P 64.3	1.5	59 - 110	P 84.5	1.9	81 - 150	P 115.1	2.4	127 - 236	P 181.6	3.4	9 - 17	P 12.8	0.9	57
Total Population																	
Whole Population	17	39 - 73	P 55.8	11.9	61 - 114	P 87.4	13.5	70 - 130	P 100.2	17.3	111 - 207	P 159.2	25.4	11 - 21	P 16.0	6.5	187
Bilirubin Direct, Comp Chem																	
Initial Grouping by Reagent and Instrument																	
Abbott acid diazo & Abbott Architect c, ci, i	1	0.5 - 1.3	C 0.94	0.05	0 - 0.6	C 0.18	0.04	1.1 - 1.9	C 1.51	0.06	1.7 - 2.5	P 2.12	0.08	0 - 0.7	C 0.27	0.05	12
Beckman Olympus & Beck Olym AU 400/600/5400	2	0.4 - 1.2	C 0.76	0.06	0 - 0.5	C 0.1	0.04	0.9 - 1.7	C 1.29	0.1	1.4 - 2.2	C 1.79	0.11	0 - 0.6	C 0.24	0.06	14
Beckman Olympus & Beckman AU 480	3	0.4 - 1.2	C 0.81	0.11	0 - 0.5	C 0.1	0.0	1.0 - 1.8	C 1.35	0.12	1.5 - 2.3	C 1.94	0.16	0 - 0.7	C 0.25	0.05	11
Ortho Vitros & Ortho Vitros 3600, 5600	4	0 - 0.5	C 0.05	0.06	0 - 0.4	C 0.0	0.0	0 - 0.8	C 0.44	0.15	0.4 - 1.2	C 0.81	0.12	0 - 0.4	C 0.0	0.0	14
Siemens Dimension DBI & Siemens Dimension EXL	5	0.1 - 0.9	C 0.47	0.05	0 - 0.5	C 0.1	0.0	0.4 - 1.2	C 0.84	0.07	0.8 - 1.6	C 1.24	0.07	0 - 0.5	C 0.13	0.05	39
Initial Grouping by Reagent																	
Abbott acid diazo	6	0.5 - 1.3	C 0.94	0.05	0 - 0.6	C 0.18	0.04	1.1 - 1.9	C 1.51	0.06	1.7 - 2.5	P 2.12	0.08	0 - 0.7	C 0.27	0.05	12
Beckman Coulter	7	0.3 - 1.1	C 0.65	0.11	0 - 0.5	C 0.09	0.06	0.7 - 1.5	C 1.08	0.22	1.1 - 1.9	C 1.53	0.32	0 - 0.6	C 0.19	0.06	14
Beckman Olympus	8	0.4 - 1.2	C 0.78	0.09	0 - 0.5	C 0.1	0.03	0.9 - 1.7	C 1.31	0.11	1.5 - 2.3	C 1.85	0.15	0 - 0.7	C 0.25	0.06	26
Ortho Vitros	9	0 - 0.5	C 0.08	0.09	0 - 0.4	C 0.01	0.04	0.1 - 0.9	C 0.46	0.14	0.4 - 1.2	C 0.83	0.14	0 - 0.4	C 0.01	0.06	26
Roche acid diazo	10	0.1 - 0.9	C 0.46	0.06	0 - 0.6	C 0.15	0.05	0.3 - 1.1	C 0.74	0.16	0.8 - 1.6	C 1.16	0.15	0 - 0.6	C 0.17	0.05	16
Siemens Dimension DBI	11	0.1 - 0.9	C 0.48	0.05	0 - 0.5	C 0.1	0.0	0.4 - 1.2	C 0.84	0.07	0.8 - 1.6	C 1.24	0.07	0 - 0.5	C 0.13	0.04	48
Initial Grouping by Sensitivity or Principle																	
Acid diazo methods	12	0.1 - 0.9	C 0.49	0.27	0 - 0.5	C 0.1	0.07	0.5 - 1.3	C 0.9	0.35	0.9 - 1.7	C 1.34	0.45	0 - 0.5	C 0.14	0.09	134

Diazonium ion methods	13	0.3 - 1.1	C 0.74	0.12	0 - 0.5	C 0.1	0.05	0.8 - 1.6	C 1.23	0.25	1.4 - 2.2	C 1.78	0.23	0 - 0.6	C 0.24	0.06	34
TOTAL POPULATION	14	0 - 0.8	C 0.44	0.21	0 - 0.5	C 0.09	0.07	0.4 - 1.2	C 0.81	0.24	0.8 - 1.6	C 1.17	0.29	0 - 0.5	C 0.13	0.1	11
Total Population																	
Whole Population	15	0.1 - 0.9	C 0.54	0.26	0 - 0.5	C 0.1	0.07	0.6 - 1.4	C 0.96	0.36	1.0 - 1.8	C 1.42	0.45	0 - 0.6	C 0.16	0.1	184

Cortisol

Initial Grouping by Reagent

Beckman Coulter Access	1	10 - 17	P 13.3	1.2	7 - 12	P 9.9	1.3	16 - 27	P 21.7	2.2	23 - 39	P 31.2	3.0	4 - 6	P 4.9	0.8	16
Roche Elecsys	2	10 - 16	P 12.7	0.6	10 - 17	P 13.8	0.5	16 - 27	P 21.7	0.9	25 - 41	P 33.1	1.9	3 - 5	P 4.0	0.0	15

Initial Grouping by Sensitivity or Principle

Immuno-not FPIA	3	11 - 18	P 14.0	1.5	9 - 16	P 12.5	1.0	17 - 28	P 22.7	2.5	25 - 41	P 32.7	2.5	3 - 6	P 4.6	0.5	10
Luminometric	4	10 - 16	P 13.2	1.0	9 - 15	P 11.9	2.1	16 - 27	P 21.7	1.8	24 - 40	P 31.9	2.6	3 - 6	P 4.5	0.7	41

Total Population

Whole Population	5	10 - 17	P 13.4	1.2	9 - 15	P 11.9	2.0	16 - 28	P 22.0	2.1	24 - 40	P 32.3	2.9	3 - 6	P 4.5	0.6	53
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Creatine Kinase, Total

Initial Grouping by Reagent and Instrument

Beckman Olympus & Beck Olym AU 400/600/5400	1	72 - 133	P 102.2	6.6	74 - 138	P 106.1	6.0	132 - 245	P 188.3	12.4	208 - 386	P 297.1	18.0	11 - 21	P 16.2	1.6	19
Beckman Olympus & Beckman AU 480	2	71 - 131	P 100.9	5.5	74 - 138	P 106.3	4.6	130 - 241	P 185.4	10.1	207 - 384	P 295.1	15.1	11 - 20	P 15.7	1.5	10
Ortho Vitros & Ortho Vitros 3600, 5600	3	71 - 132	P 101.2	6.6	86 - 159	P 122.2	5.5	121 - 224	P 172.2	9.0	170 - 315	P 242.5	11.5	14 - 26	P 20.0	0.0	13
Ortho Vitros & Ortho Vitros not DT or ECi	4	71 - 131	P 101.1	8.6	86 - 160	P 123.1	11.2	124 - 231	P 177.6	12.7	173 - 321	P 247.2	15.9	14 - 27	P 20.6	1.5	10
Roche Cobas & Roche Cobas 6000	5	79 - 147	P 113.4	6.8	83 - 153	P 117.9	6.5	146 - 272	P 208.9	11.6	232 - 432	P 332.0	19.1	13 - 24	P 18.5	1.4	10
Siemens Dimension & Siemens Dimension EXL	6	77 - 143	P 110.3	3.2	80 - 148	P 113.7	3.3	141 - 262	P 201.6	5.5	225 - 418	P 321.6	9.9	12 - 22	P 16.9	1.3	18
Siemens Dimension IFCC & Siemens Dimension EXL 7	7	77 - 142	P 109.6	2.7	80 - 148	P 114.1	4.0	142 - 263	P 202.6	4.3	225 - 418	P 321.7	6.2	11 - 21	P 16.4	1.2	30

Initial Grouping by Reagent

Beckman Coulter	8	77 - 144	P 110.4	7.3	82 - 152	P 117.2	8.8	140 - 261	P 200.6	11.7	222 - 412	P 316.7	17.1	13 - 24	P 18.8	1.7	13
Beckman Olympus	9	71 - 132	P 101.6	6.1	74 - 138	P 106.2	5.4	131 - 243	P 187.2	11.3	207 - 385	P 296.4	16.5	11 - 21	P 16.0	1.6	31
Ortho Vitros	10	71 - 132	P 101.7	7.2	86 - 160	P 123.3	8.4	123 - 228	P 175.0	10.6	171 - 318	P 244.9	13.1	14 - 26	P 20.2	1.0	26
Roche Cobas	11	79 - 147	P 113.3	4.7	82 - 152	P 116.7	5.1	145 - 270	P 207.7	8.2	230 - 426	P 328.0	14.0	13 - 24	P 18.6	1.2	23
Siemens Dimension	12	77 - 144	P 110.4	3.8	80 - 149	P 114.3	4.1	142 - 263	P 202.2	7.6	225 - 417	P 320.9	13.6	12 - 23	P 17.6	2.2	23
Siemens Dimension IFCC	13	77 - 143	P 109.9	2.7	80 - 148	P 114.1	3.9	142 - 264	P 203.0	4.3	225 - 418	P 321.8	6.5	12 - 21	P 16.5	1.3	38

Initial Grouping by Sensitivity or Principle

IFCC standardized methods	14	76 - 141	P 108.8	8.0	80 - 148	P 113.9	9.0	140 - 259	P 199.5	14.6	221 - 410	P 315.1	25.2	12 - 23	P 17.5	2.8	163
Vitros and related	15	71 - 132	P 101.7	7.2	86 - 160	P 123.3	8.4	123 - 228	P 175.0	10.6	171 - 318	P 244.9	13.1	14 - 26	P 20.2	1.0	26

Total Population

Whole Population	16	76 - 140	P 107.9	8.3	81 - 150	P 115.1	9.4	137 - 255	P 196.1	16.3	214 - 397	P 305.7	33.7	13 - 23	P 17.9	2.8	191
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Gamma-Glutamyltransferase (GGT)

Initial Grouping by Reagent and Instrument

Beckman Olympus & Beck Olym AU 400/600/5400	1	45 - 68	P 56.8	4.6	19 - 39	C 29.3	2.0	81 - 122	P 101.4	5.7	130 - 195	P 162.3	12.0	3 - 23	C 12.9	0.9	17
Beckman Olympus & Beckman AU 480	2	47 - 70	P 58.2	1.6	20 - 40	C 29.7	0.8	82 - 124	P 103.0	2.5	129 - 194	P 161.3	3.5	3 - 23	C 13.0	0.4	10
Siemens Dimension & Siemens Dimension EXL	3	72 - 108	P 90.1	2.2	39 - 59	C 49.1	1.9	123 - 184	P 153.5	3.5	189 - 284	P 236.5	3.8	16 - 36	C 25.5	1.7	19

Initial Grouping by Reagent

Beckman Olympus	4	46 - 69	P 57.5	3.8	20 - 40	C 29.5	1.7	82 - 123	P 102.1	4.7	130 - 195	P 162.2	9.5	3 - 23	C 12.9	0.8	29
Ortho Vitros	5	91 - 137	P 114.3	3.6	29 - 49	C 38.6	1.4	157 - 236	P 196.7	5.1	234 - 351	P 292.3	7.5	14 - 34	C 23.9	1.3	15
Roche Cobas	6	50 - 75	P 62.8	2.0	22 - 42	C 31.8	0.9	89 - 133	P 110.9	4.0	141 - 212	P 176.5	6.9	4 - 24	C 13.8	0.8	16
Siemens Dimension	7	72 - 108	P 90.1	2.7	39 - 59	C 49.1	2.4	123 - 184	P 153.5	3.9	189 - 284	P 236.7	4.5	16 - 36	C 25.5	2.6	26

Initial Grouping by Sensitivity or Principle

Standardized methods	8	49 - 74	P 61.4	6.1	22 - 42	C 31.6	3.3	87 - 130	P 108.2	10.4	138 - 207	P 172.6	18.5	4 - 24	C 13.9	2.1	74
Abbott and Beckman Coulter	9	55 - 83	P 69.1	6.7	21 - 41	C 31.3	3.4	97 - 146	P 121.4	11.0	153 - 230	P 191.8	18.0	6 - 26	C 15.6	1.7	16
Vitros and related	10	91 - 137	P 114.3	3.6	29 - 49	C 38.6	1.4	157 - 236	P 196.7	5.1	234 - 351	P 292.3	7.5	14 - 34	C 23.9	1.3	15
Siemens and related	11	72 - 108	P 90.1	2.7	39 - 59	C 49.1	2.4	123 - 184	P 153.5	3.9	189 - 284	P 236.7	4.5	16 - 36	C 25.5	2.6	26

Total Population

Whole Population	12	59 - 88	P 73.7	18.9	26 - 46	C 35.8	7.5	103 - 154	P 128.3	31.2	160 - 240	P 200.4	43.8	8 - 28	C 17.5	5.4	134
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Human Chorionic Gonadotropin (hCG)

Initial Grouping by Reagent and Instrument

Beckman Coulter Access & Beckman Coulter Access	1	452 - 591	S 521.7	23.1	2 - 4	C 3.0	0.3	821 - 1083	S 952.0	43.5	947 - 2615	S 1781.1	278.0	52 - 64	S 58.2	2.0	30
Ortho Vitros ECi & Ortho Vitros 3600, 5600	2	501 - 601	S 550.9	16.7	1 - 4	S 2.4	0.5	933 - 1100	S 1016.2	27.8	1458 - 1725	S 1591.5	44.5	52 - 67	S 59.4	2.5	10
Roche Elecsys & Roche e411/e601/E170/E2010	3	416 - 611	S 513.6	32.4	1 - 4	S 2.2	0.5	734 - 1163	S 948.5	71.4	1145 - 1873	S 1509.3	121.4	44 - 66	S 54.9	3.8	20

Roche HCG+b & Roche e411/e601/E170/E2010	4	409 - 600	S 504.2	31.8	0 - 5	S 2.6	0.8	765 - 1107	S 936.1	56.9	1166 - 1786	S 1476.2	103.3	43 - 65	S 54.0	3.8	15
Siemens Advia & Siemens Centaur/Centaur CP	5	363 - 501	S 431.8	23.0	1 - 7	S 4.2	1.1	595 - 826	S 710.4	38.5	369 - 2145	S 1257.2	296.1	43 - 66	S 54.4	4.0	13
Siemens Dimension & Siemens Dimension EXL	6	456 - 545	S 500.7	14.9	1 - 4	S 2.7	0.5	789 - 991	S 890.1	33.7	1075 - 1940	S 1507.4	144.2	50 - 62	S 55.8	2.0	22
Siemens Dimension LOCI & Siemens Dimension EXL 7	7	416 - 587	S 501.5	28.6	2 - 4	C 3.0	0.0	742 - 1028	S 884.8	47.7	1333 - 1839	S 1586.2	84.4	49 - 66	S 57.4	3.0	11
Siemens Immulite & Siemens Immulite 1000	8	678 - 968	S 822.7	48.3	1 - 6	S 3.5	0.9	1154 - 1733	S 1443.7	96.4	1734 - 2962	S 2347.8	204.7	56 - 133	S 94.4	12.8	19
Tosoh beta-hCG & Tosoh AIA	9	171 - 1014	S 592.8	140.5	1 - 5	S 3.1	0.6	341 - 1950	S 1145.4	268.0	225 - 3212	S 1718.5	497.9	46 - 94	S 70.0	8.0	15
Tosoh beta-hCG & Tosoh AIA ST	10	517 - 811	S 663.9	49.0	1 - 6	S 3.1	0.9	969 - 1526	S 1247.5	92.8	1181 - 2766	S 1973.7	264.1	63 - 82	S 72.8	3.2	16

Initial Grouping by Reagent

Beckman Coulter Access	11	448 - 608	S 528.1	26.8	2 - 4	S 3.1	0.4	817 - 1110	S 963.3	48.9	991 - 2603	S 1797.1	268.7	49 - 69	S 59.2	3.2	38
Ortho Vitros ECI	12	493 - 603	S 548.1	18.2	1 - 4	S 2.4	0.5	927 - 1098	S 1012.9	28.5	1459 - 1719	S 1589.0	43.2	52 - 67	S 59.5	2.4	11
Roche Elecsys	13	417 - 605	S 511.2	31.4	1 - 4	S 2.2	0.5	741 - 1144	S 942.6	67.1	1167 - 1848	S 1507.6	113.6	43 - 65	S 54.4	3.7	29
Roche HCG Stat	14	236 - 523	S 379.5	47.7	0 - 4	S 2.1	0.5	471 - 984	S 727.2	85.4	765 - 1577	S 1170.9	135.4	23 - 54	S 38.2	5.2	10
Roche HCG+b	15	418 - 599	S 508.3	30.2	0 - 5	S 2.5	0.7	780 - 1108	S 943.7	54.6	1181 - 1803	S 1492.0	103.7	44 - 64	S 54.0	3.5	22
Siemens Advia	16	363 - 501	S 431.8	23.0	1 - 7	S 4.2	1.1	595 - 826	S 710.4	38.5	369 - 2145	S 1257.2	296.1	43 - 66	S 54.4	4.0	13
Siemens Dimension	17	456 - 547	S 501.5	15.0	1 - 4	S 2.7	0.5	791 - 990	S 890.7	33.1	1085 - 1937	S 1510.7	141.9	50 - 62	S 55.8	2.0	23
Siemens Dimension LOCI	18	411 - 601	S 506.3	31.7	2 - 4	C 3.0	0.0	748 - 1027	S 887.4	46.5	1339 - 1827	S 1583.2	81.4	48 - 67	S 57.8	3.1	12
Siemens Immulite	19	685 - 965	S 825.1	46.7	1 - 6	S 3.4	0.9	1171 - 1724	S 1447.7	92.1	1762 - 2934	S 2348.0	195.4	58 - 131	S 94.4	12.3	21
Tosoh Total b-hCG	20	261 - 946	S 603.5	114.3	2 - 4	C 2.9	0.3	63 - 2080	S 1071.5	336.1	209 - 3243	S 1726.1	505.7	41 - 99	S 70.0	9.5	11
Tosoh beta-hCG	21	295 - 962	S 628.4	111.0	1 - 5	S 3.1	0.8	576 - 1817	S 1196.5	207.0	591 - 3101	S 1846.1	418.5	53 - 90	S 71.5	6.1	31

Initial Grouping by Sensitivity or Principle

IFCC standardized	22	274 - 760	S 517.0	81.0	0 - 5	S 2.8	0.8	452 - 1441	S 946.5	164.9	648 - 2513	S 1580.5	310.8	31 - 83	S 57.3	8.7	191
Total Beta methods	23	230 - 934	S 581.7	117.3	1 - 5	S 3.1	0.6	81 - 1996	S 1038.2	319.2	216 - 3122	S 1669.0	484.2	28 - 104	S 66.2	12.6	13
Vitros and related	24	493 - 603	S 548.1	18.2	1 - 4	S 2.4	0.5	927 - 1098	S 1012.9	28.5	1459 - 1719	S 1589.0	43.2	52 - 67	S 59.5	2.4	11
Siemens Immulite and related	25	684 - 983	S 833.5	49.7	1 - 6	S 3.4	0.8	1172 - 1733	S 1452.8	93.5	1746 - 2930	S 2338.2	197.3	61 - 132	S 96.3	11.9	26

Total Population

Whole Population	26	181 - 930	S 555.5	124.8	0 - 5	S 2.9	0.9	328 - 1686	S 1006.7	226.3	515 - 2816	S 1665.7	383.4	18 - 106	S 61.8	14.7	242
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Iron

Initial Grouping by Reagent and Instrument

Beck Oly tripyridyltriazine & Beck Olym AU 400/600/5400	1	74 - 111	P 92.8	3.3	152 - 228	P 189.7	11.1	121 - 181	P 151.0	8.1	185 - 277	P 231.2	12.2	27 - 41	P 33.9	3.8	10
Ortho Vitros & Ortho Vitros 3600, 5600	2	71 - 107	P 88.9	6.9	180 - 271	P 225.6	8.2	126 - 189	P 157.1	7.4	204 - 307	P 255.6	10.2	19 - 28	P 23.6	6.2	11
Ortho Vitros & Ortho Vitros not DT or ECI	3	71 - 107	P 88.9	8.5	184 - 276	P 230.4	8.1	128 - 193	P 160.6	8.4	212 - 318	P 264.7	8.5	15 - 23	P 18.8	3.5	10
Roche Cobas & Roche Cobas 6000	4	71 - 107	P 88.9	3.9	145 - 217	P 180.8	7.4	114 - 171	P 142.1	4.4	172 - 258	P 215.2	8.1	28 - 42	P 34.7	3.4	10
Siemens Dimension & Siemens Dimension EXL	5	67 - 100	P 83.4	1.2	140 - 211	P 175.5	1.9	109 - 163	P 136.1	1.4	165 - 247	P 206.2	3.0	25 - 37	P 31.0	1.2	26

Initial Grouping by Reagent

Beck Oly tripyridyltriazine	6	75 - 112	P 93.7	3.4	154 - 231	P 192.1	9.1	122 - 183	P 152.5	6.7	187 - 281	P 234.0	10.2	27 - 41	P 33.9	3.1	18
Beckman Coulter	7	73 - 110	P 91.4	3.6	153 - 230	P 191.5	6.0	120 - 180	P 150.4	6.7	186 - 279	P 232.3	9.8	26 - 39	P 32.8	2.0	16
Beckman Olympus Ferene	8	71 - 107	P 89.0	6.6	148 - 223	P 185.6	8.3	118 - 176	P 147.0	8.0	182 - 272	P 227.0	9.8	25 - 37	P 30.9	5.6	12
Ortho Vitros	9	71 - 107	P 88.8	7.4	182 - 273	P 227.8	8.2	127 - 190	P 158.6	8.0	207 - 311	P 259.1	10.4	18 - 26	P 22.0	5.7	23
Roche Cobas	10	72 - 108	P 89.8	4.5	145 - 217	P 180.9	5.8	115 - 172	P 143.7	5.2	173 - 260	P 216.6	8.2	28 - 42	P 34.7	3.4	22
Siemens Dimension	11	66 - 100	P 83.0	1.8	140 - 210	P 175.0	2.1	109 - 163	P 135.9	2.0	164 - 247	P 205.6	3.1	24 - 37	P 30.6	1.7	35

Initial Grouping by Sensitivity or Principle

Ferene-based	12	68 - 101	P 84.4	4.7	144 - 215	P 179.5	7.5	111 - 166	P 138.7	6.8	169 - 253	P 210.7	10.5	25 - 37	P 30.9	3.8	69
Ferrozine-based	13	70 - 105	P 87.8	5.6	148 - 222	P 185.4	12.4	115 - 173	P 143.9	9.6	175 - 262	P 218.4	13.8	26 - 40	P 33.0	4.6	62
Tripyridyltriazine (TPTZ)	14	75 - 112	P 93.7	3.4	154 - 231	P 192.1	9.1	122 - 183	P 152.5	6.7	187 - 281	P 234.0	10.2	27 - 41	P 33.9	3.1	18
All other methods	15	71 - 107	P 88.8	7.4	182 - 273	P 227.8	8.2	127 - 190	P 158.6	8.0	207 - 311	P 259.1	10.4	18 - 26	P 22.0	5.7	23

Total Population

Whole Population	16	70 - 105	P 87.2	6.0	152 - 227	P 189.4	18.2	116 - 174	P 144.7	10.5	178 - 267	P 222.4	19.7	25 - 37	P 30.9	5.5	175
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Lactic Acid

Initial Grouping by Reagent and Instrument

Siemens Dimension & Siemens Dimension EXL	1	1.6 - 2.7	P 2.13	0.13	0.4 - 1.0	C 0.73	0.09	3.1 - 5.1	P 4.07	0.15	5.0 - 8.4	P 6.69	0.15	0 - 0.6	C 0.26	0.1	35
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Initial Grouping by Reagent

Ortho Vitros	2	1.4 - 2.3	P 1.87	0.1	0.5 - 1.1	C 0.76	0.06	2.8 - 4.7	P 3.79	0.15	4.6 - 7.7	P 6.14	0.21	0.2 - 0.8	C 0.5	0.0	17
Siemens Dimension	3	1.6 - 2.7	P 2.13	0.13	0.4 - 1.0	C 0.73	0.1	3.1 - 5.1	P 4.07	0.15	5.0 - 8.4	P 6.69	0.16	0 - 0.6	C 0.26	0.1	40

Initial Grouping by Sensitivity or Principle

luminometric	4	1.5 - 2.6	P 2.06	0.17	0.4 - 1.0	C 0.74	0.09	3.0 - 5.0	P 3.99	0.2	4.9 - 8.2	P 6.53	0.31	0 - 0.6	C 0.33	0.14	57
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Total Population

Whole Population	5	1.5 - 2.6	P 2.04	0.2	0.4 - 1.0	C 0.73	0.09	3.0 - 5.0	P 3.97	0.19	4.9 - 8.1	P 6.52	0.33	0 - 0.6	C 0.3	0.15	76
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Lactate Dehydrogenase, Total (LDH)

Initial Grouping by Reagent and Instrument

Beckman Olympus & Beck Olym AU 400/600/5400	1	202 - 303	P 252.3	15.8	95 - 142	P 118.7	10.9	309 - 464	P 386.6	23.9	448 - 673	P 560.5	33.6	94 - 141	P 117.2	8.2	13
Beckman Olympus & Beckman AU 480	2	206 - 309	P 257.5	6.1	96 - 144	P 119.6	6.0	317 - 475	P 395.7	12.0	454 - 681	P 567.9	15.9	96 - 144	P 120.3	3.1	11
Ortho Vitros & Ortho Vitros not DT or ECI	3	727 - 1091	P 908.8	15.9	345 - 517	P 431.2	14.6	1094 - 1640	P 1366.9	35.3	1538 - 2307	P 1922.4	43.8	361 - 541	P 451.2	9.6	11
Siemens Flex LDI & Siemens Dimension EXL	4	237 - 355	P 295.9	8.2	116 - 174	P 145.4	9.0	361 - 542	P 451.5	12.3	526 - 789	P 657.2	22.9	110 - 165	P 137.9	6.4	24

Initial Grouping by Reagent

Beckman Olympus	5	204 - 306	P 255.1	12.5	96 - 144	P 119.6	9.0	313 - 470	P 391.7	19.7	451 - 677	P 564.3	27.1	95 - 142	P 118.7	6.6	26
Ortho Vitros	6	726 - 1089	P 907.3	15.8	343 - 514	P 428.6	13.7	1087 - 1630	P 1358.7	32.7	1487 - 2230	P 1858.5	98.9	360 - 541	P 450.6	9.0	16
Roche Cobas	7	257 - 385	P 320.8	13.0	122 - 182	P 152.0	7.8	388 - 582	P 484.7	22.1	558 - 837	P 697.6	29.6	120 - 180	P 150.0	6.9	14
Siemens Dimension	8	242 - 364	P 303.1	5.8	117 - 175	P 146.0	8.5	367 - 551	P 459.2	7.4	529 - 794	P 661.7	12.9	112 - 168	P 139.9	5.2	10
Siemens Flex LDI	9	237 - 356	P 296.6	8.6	116 - 175	P 145.6	8.7	363 - 544	P 453.4	13.1	528 - 792	P 659.6	23.0	111 - 166	P 138.5	6.4	28

Initial Grouping by Sensitivity or Principle

IFCC Standardized	10	251 - 377	P 314.2	14.8	117 - 176	P 146.4	10.3	387 - 580	P 483.6	35.4	550 - 826	P 688.0	32.3	117 - 176	P 146.4	8.2	25
Other no cofactor	11	197 - 296	P 246.6	26.1	93 - 140	P 116.3	11.6	296 - 444	P 370.1	38.2	418 - 626	P 521.9	57.9	94 - 140	P 116.9	11.7	17
Siemens and related	12	222 - 334	P 278.0	23.5	106 - 159	P 132.3	16.1	339 - 509	P 423.8	35.8	490 - 735	P 612.9	54.3	104 - 155	P 129.4	11.6	74
Vitros and related	13	726 - 1089	P 907.3	15.8	343 - 514	P 428.6	13.7	1087 - 1630	P 1358.7	32.7	1487 - 2230	P 1858.5	98.9	360 - 541	P 450.6	9.0	16

Total Population

Whole Population	14	285 - 428	P 356.5	199.4	134 - 201	P 167.3	92.1	428 - 643	P 535.5	288.5	592 - 888	P 739.9	366.5	136 - 204	P 169.8	100.8	141
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Lipase

Initial Grouping by Reagent and Instrument

Beckman Olympus & Beck Olym AU 400/600/5400	1	18 - 33	P 25.7	2.4	34 - 62	P 48.0	2.7	28 - 51	P 39.4	3.4	40 - 75	P 57.8	4.8	8 - 15	P 11.3	1.7	15
Beckman Olympus & Beckman AU 480	2	18 - 34	P 26.1	1.8	33 - 61	P 47.1	2.9	28 - 51	P 39.3	2.0	39 - 72	P 55.6	1.7	9 - 16	P 12.3	1.7	12
Ortho Vitros & Ortho Vitros 3600, 5600	3	186 - 346	P 265.9	11.2	147 - 272	P 209.6	8.1	280 - 520	P 400.1	17.7	393 - 729	P 560.8	23.2	82 - 152	P 117.2	4.7	13
Siemens Dimension & Siemens Dimension EXL	4	73 - 135	P 103.9	4.1	168 - 311	P 239.4	7.9	105 - 196	P 150.7	6.3	148 - 275	P 211.5	4.7	39 - 72	P 55.2	4.0	10
Siemens LIPL, liquid & Siemens Dimension EXL	5	75 - 139	P 107.0	4.2	172 - 319	P 245.2	10.3	109 - 202	P 155.2	5.4	152 - 282	P 216.9	5.3	40 - 74	P 57.3	4.3	32

Initial Grouping by Reagent

Beckman Olympus	6	18 - 34	P 25.9	2.2	33 - 62	P 47.6	2.8	27 - 51	P 39.3	2.8	40 - 74	P 56.9	4.0	8 - 15	P 11.8	1.8	27
Ortho Vitros	7	185 - 343	P 264.1	10.3	144 - 268	P 205.8	8.6	277 - 515	P 396.3	16.4	388 - 721	P 554.7	21.2	81 - 151	P 116.4	4.4	24
Roche Cobas Integra	8	17 - 31	P 24.0	1.3	39 - 72	P 55.3	2.7	24 - 45	P 34.7	2.1	34 - 62	P 47.9	3.0	9 - 17	P 12.8	0.8	15
Siemens Dimension	9	73 - 136	P 104.3	3.8	168 - 311	P 239.6	7.7	106 - 196	P 151.1	5.9	148 - 275	P 211.7	4.4	39 - 72	P 55.7	3.8	12
Siemens LIPL, liquid	10	75 - 139	P 106.8	5.1	170 - 316	P 243.1	12.0	108 - 201	P 154.8	5.8	152 - 281	P 216.5	5.6	40 - 75	P 57.4	5.2	38

Initial Grouping by Sensitivity or Principle

Enzymatic/colorimetric	11	80 - 148	P 113.8	86.1	120 - 223	P 171.2	87.1	118 - 219	P 168.2	128.8	167 - 309	P 238.0	180.2	38 - 72	P 55.0	37.6	113
Colorimetric	12	19 - 36	P 27.7	8.8	36 - 67	P 51.5	6.5	27 - 51	P 39.0	9.3	36 - 66	P 50.8	7.4	12 - 22	P 16.8	7.3	36

Total Population

Whole Population	13	63 - 116	P 89.5	82.3	96 - 178	P 136.7	91.8	92 - 171	P 131.9	123.3	129 - 240	P 184.7	173.6	31 - 58	P 44.5	36.2	158
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Magnesium mg/dL

Initial Grouping by Reagent and Instrument

Abbott & Abbott Architect c, ci, i	1	1.6 - 2.6	P 2.08	0.07	1.3 - 2.2	P 1.73	0.1	2.3 - 3.9	P 3.13	0.06	3.3 - 5.6	P 4.45	0.08	0.7 - 1.2	P 0.99	0.06	12
Beckman Olympus & Beck Olym AU 400/600/5400	2	1.6 - 2.7	P 2.12	0.11	1.0 - 1.7	P 1.33	0.08	2.3 - 3.9	P 3.1	0.17	3.3 - 5.5	P 4.39	0.23	0.9 - 1.4	P 1.15	0.08	19
Beckman Olympus & Beckman AU 480	3	1.6 - 2.7	P 2.19	0.06	1.0 - 1.7	P 1.37	0.05	2.4 - 4.0	P 3.18	0.07	3.4 - 5.7	P 4.54	0.12	0.9 - 1.5	P 1.2	0.0	14
Ortho Vitros & Ortho Vitros 3600, 5600	4	1.7 - 2.9	P 2.32	0.06	0.9 - 1.5	P 1.2	0.0	2.5 - 4.2	P 3.39	0.09	3.6 - 6.0	P 4.76	0.1	0.9 - 1.5	P 1.22	0.04	14
Ortho Vitros & Ortho Vitros not DT or ECI	5	1.8 - 3.0	P 2.36	0.12	0.9 - 1.5	P 1.22	0.08	2.6 - 4.3	P 3.42	0.13	3.6 - 6.0	P 4.8	0.16	0.9 - 1.5	P 1.24	0.09	18
Roche Cobas & Roche Cobas 6000	6	1.7 - 2.8	P 2.22	0.11	1.1 - 1.8	P 1.42	0.07	2.4 - 4.0	P 3.23	0.17	3.4 - 5.7	P 4.57	0.2	0.9 - 1.5	P 1.23	0.08	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	7	1.7 - 2.8	P 2.2	0.07	1.0 - 1.8	P 1.4	0.04	2.4 - 4.0	P 3.19	0.09	3.4 - 5.6	P 4.5	0.12	0.9 - 1.5	P 1.19	0.05	11
Siemens Dimension & Siemens Dimension EXL	8	1.6 - 2.7	P 2.14	0.06	1.0 - 1.6	P 1.31	0.07	2.4 - 4.0	P 3.2	0.08	3.5 - 5.8	P 4.64	0.12	0.8 - 1.4	P 1.12	0.07	47

Initial Grouping by Reagent

Abbott	9	1.6 - 2.6	P 2.08	0.07	1.3 - 2.2	P 1.73	0.1	2.3 - 3.9	P 3.13	0.06	3.3 - 5.6	P 4.45	0.08	0.7 - 1.2	P 0.99	0.06	12
Beckman Coulter	10	1.6 - 2.7	P 2.16	0.09	1.0 - 1.7	P 1.37	0.06	2.4 - 3.9	P 3.16	0.09	3.4 - 5.6	P 4.47	0.14	0.9 - 1.5	P 1.18	0.04	16
Beckman Olympus	11	1.6 - 2.7	P 2.16	0.1	1.0 - 1.7	P 1.36	0.08	2.4 - 3.9	P 3.14	0.14	3.3 - 5.6	P 4.46	0.2	0.9 - 1.5	P 1.18	0.08	36
Ortho Vitros	12	1.8 - 2.9	P 2.34	0.1	0.9 - 1.5	P 1.21	0.06	2.6 - 4.3	P 3.41	0.11	3.6 - 6.0	P 4.78	0.13	0.9 - 1.5	P 1.23	0.07	35
Roche Cobas	13	1.7 - 2.8	P 2.2	0.09	1.1 - 1.8	P 1.41	0.06	2.4 - 4.0	P 3.2	0.13	3.4 - 5.6	P 4.51	0.17	0.9 - 1.5	P 1.21	0.06	24
Siemens Dimension	14	1.6 - 2.7	P 2.14	0.08	1.0 - 1.6	P 1.32	0.08	2.4 - 4.0	P 3.22	0.1	3.5 - 5.8	P 4.65	0.14	0.8 - 1.4	P 1.13	0.07	62

Initial Grouping by Sensitivity or Principle

Calmagite-based	15	1.6 - 2.7	P 2.18	0.14	1.0 - 1.7	P 1.39	0.18	2.3 - 3.9	P 3.12	0.12	3.3 - 5.5	P 4.4	0.21	0.9 - 1.5	P 1.23	0.12	22
Arsenazo	16	1.6 - 2.6	P 2.07	0.11	1.3 - 2.2	P 1.78	0.16	2.2 - 3.8	P 3.0	0.19	3.2 - 5.3	P 4.26	0.3	0.8 - 1.3	P 1.06	0.1	21
Magon (Xylydyl Blue)-based	17	1.6 - 2.7	P 2.19	0.17	1.0 - 1.7	P 1.39	0.12	2.4 - 4.0	P 3.2	0.26	3.4 - 5.6	P 4.48	0.27	0.9 - 1.5	P 1.19	0.09	58
All other methods	18	1.7 - 2.9	P 2.28	0.12	1.0 - 1.6	P 1.29	0.11	2.5 - 4.2	P 3.33	0.15	3.5 - 5.8	P 4.67	0.2	0.9 - 1.5	P 1.22	0.07	59

MTB (methylthymol blue)	19	1.6 - 2.7	P 2.14	0.08	1.0 - 1.6	P 1.32	0.08	2.4 - 4.0	P 3.22	0.1	3.5 - 5.8	P 4.65	0.14	0.8 - 1.4	P 1.13	0.07	62
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Total Population																	
Whole Population	20	1.6 - 2.7	P 2.19	0.14	1.0 - 1.7	P 1.38	0.18	2.4 - 4.0	P 3.21	0.21	3.4 - 5.7	P 4.55	0.26	0.9 - 1.5	P 1.17	0.1	223

Magnesium mEq/L

Total Population																	
Whole Population	1	1.4 - 2.3	P 1.86	0.18	1.0 - 1.8	P 1.4	0.27	2.0 - 3.4	P 2.71	0.26	2.9 - 4.8	P 3.86	0.45	0.7 - 1.2	P 0.92	0.15	9

Thyroid Stimulating Hormone

Initial Grouping by Reagent and Instrument																	
Abbott CMIA & Abbott Architect c, ci, i	1	1.9 - 2.8	S 2.34	0.14	2.0 - 3.1	S 2.54	0.18	3.4 - 4.9	S 4.15	0.25	5.2 - 7.5	S 6.36	0.39	0.3 - 0.5	S 0.38	0.04	19
Beckman Coulter Access & Beckman Coulter Access 2	2	2.0 - 2.9	S 2.44	0.15	2.0 - 3.4	S 2.7	0.22	3.4 - 5.3	S 4.35	0.33	4.4 - 9.0	S 6.69	0.76	0.3 - 0.5	C 0.4	0.03	61
Beckman Coulter Access & Beckman Coulter Dxl	3	2.1 - 2.8	S 2.44	0.11	2.2 - 3.1	S 2.65	0.16	3.3 - 5.3	S 4.28	0.33	4.4 - 8.4	S 6.42	0.66	0.3 - 0.5	S 0.42	0.04	13
MP Biomedicals & All gamma counters	4	1.8 - 3.9	S 2.86	0.34	1.9 - 3.5	S 2.67	0.27	4.0 - 5.7	S 4.83	0.27	5.3 - 7.8	S 6.56	0.42	0.4 - 1.3	S 0.83	0.14	20
Ortho Vitros & Ortho Vitros 3600, 5600	5	3.0 - 3.6	S 3.31	0.1	2.4 - 3.0	S 2.71	0.1	5.4 - 6.3	S 5.8	0.15	7.9 - 9.4	S 8.68	0.25	0.3 - 0.5	C 0.4	0.0	16
Roche Elecsys & Roche e/c, 1XX, X000, Elec series	6	2.6 - 2.9	S 2.75	0.07	2.6 - 3.1	S 2.87	0.07	4.2 - 4.8	S 4.48	0.09	5.8 - 6.8	S 6.3	0.17	0.4 - 0.7	S 0.56	0.05	11
Roche Elecsys & Roche e411/e601/E170/E2010	7	2.3 - 3.0	S 2.68	0.12	2.4 - 3.2	S 2.81	0.13	3.9 - 4.9	S 4.41	0.17	5.3 - 7.1	S 6.22	0.3	0.4 - 0.7	S 0.53	0.04	31
Siemens Advia & Siemens Centaur/Centaur CP	8	2.1 - 3.4	S 2.76	0.21	2.2 - 3.0	S 2.59	0.12	3.4 - 6.3	S 4.87	0.49	5.3 - 9.1	S 7.24	0.63	0.2 - 0.6	S 0.44	0.07	18
Siemens Dimension & Siemens Dimension Xpand	9	2.1 - 3.1	S 2.64	0.17	2.3 - 3.3	S 2.78	0.17	3.7 - 5.4	S 4.56	0.29	5.5 - 8.7	S 7.06	0.53	0.3 - 0.5	S 0.39	0.03	14
Siemens Dimension LOCI & Siemens Dimension EXL	10	2.1 - 2.7	S 2.37	0.1	2.4 - 3.0	S 2.7	0.11	3.5 - 4.5	S 4.04	0.17	5.2 - 6.6	S 5.93	0.23	0.3 - 0.6	S 0.47	0.05	40
Siemens Immulite 3rd gen & Siemens Immulite 1000	11	1.9 - 3.2	S 2.52	0.22	2.2 - 3.5	S 2.86	0.21	3.4 - 5.7	S 4.56	0.38	5.4 - 8.4	S 6.91	0.49	0.3 - 0.6	S 0.41	0.05	11
Tosoh AIA & Tosoh AIA	12	2.2 - 4.0	S 3.1	0.3	2.1 - 3.8	S 2.94	0.28	3.8 - 6.6	S 5.17	0.47	5.5 - 9.9	S 7.68	0.73	0.2 - 0.8	S 0.52	0.1	32
Tosoh AIA & Tosoh AIA ST	13	2.5 - 3.7	S 3.1	0.2	2.3 - 3.7	S 3.0	0.22	4.1 - 6.1	S 5.14	0.33	6.0 - 9.3	S 7.67	0.55	0.4 - 0.6	S 0.52	0.04	19

Initial Grouping by Reagent																	
Abbott CMIA	14	1.9 - 2.8	S 2.34	0.14	2.0 - 3.1	S 2.54	0.18	3.4 - 4.9	S 4.15	0.25	5.2 - 7.5	S 6.36	0.39	0.3 - 0.5	S 0.38	0.04	19
Beckman Coulter Access	15	2.0 - 2.9	S 2.44	0.14	2.0 - 3.3	S 2.69	0.21	3.4 - 5.3	S 4.34	0.33	4.4 - 8.9	S 6.65	0.75	0.3 - 0.5	C 0.4	0.03	75
MP Biomedicals	16	1.8 - 3.9	S 2.86	0.34	1.9 - 3.5	S 2.67	0.27	4.0 - 5.7	S 4.83	0.27	5.3 - 7.8	S 6.56	0.42	0.4 - 1.3	S 0.83	0.14	20
Ortho Vitros	17	2.9 - 3.7	S 3.33	0.13	2.2 - 3.2	S 2.7	0.16	5.0 - 6.5	S 5.76	0.26	7.2 - 9.8	S 8.53	0.43	0.3 - 0.5	C 0.4	0.02	23
Roche Elecsys	18	2.4 - 3.1	S 2.72	0.12	2.5 - 3.2	S 2.84	0.12	4.0 - 4.9	S 4.45	0.16	5.4 - 7.1	S 6.28	0.28	0.4 - 0.7	S 0.54	0.05	56
Siemens Advia	19	2.1 - 3.4	S 2.76	0.21	2.2 - 3.0	S 2.59	0.12	3.4 - 6.3	S 4.87	0.49	5.3 - 9.1	S 7.24	0.63	0.2 - 0.6	S 0.44	0.07	18
Siemens Dimension	20	2.0 - 3.2	S 2.57	0.21	2.2 - 3.3	S 2.75	0.2	3.2 - 5.5	S 4.37	0.38	4.5 - 8.8	S 6.68	0.72	0.2 - 0.6	S 0.41	0.06	21
Siemens Dimension LOCI	21	2.1 - 2.7	S 2.37	0.1	2.3 - 3.0	S 2.69	0.11	3.5 - 4.5	S 4.03	0.17	5.2 - 6.6	S 5.93	0.23	0.3 - 0.6	S 0.47	0.05	41
Siemens Immulite 3rd gen	22	1.9 - 3.2	S 2.55	0.23	2.2 - 3.5	S 2.85	0.21	3.5 - 5.7	S 4.61	0.36	5.5 - 8.8	S 7.15	0.53	0.3 - 0.6	S 0.41	0.05	17
Tosoh AIA	23	2.3 - 3.9	S 3.11	0.27	2.2 - 3.8	S 2.97	0.26	3.9 - 6.5	S 5.17	0.44	5.7 - 9.7	S 7.68	0.66	0.3 - 0.8	S 0.52	0.08	52

Initial Grouping by Sensitivity or Principle																	
Standardized methods	24	1.6 - 3.6	S 2.63	0.33	2.0 - 3.3	S 2.69	0.22	2.9 - 6.2	S 4.57	0.55	3.7 - 9.7	S 6.69	1.01	0.2 - 0.7	S 0.43	0.09	208
Tosoh and RIA	25	1.8 - 4.0	S 2.92	0.36	2.1 - 3.7	S 2.88	0.27	3.6 - 6.3	S 4.96	0.45	5.1 - 9.5	S 7.3	0.74	0.1 - 1.1	S 0.56	0.17	96
Siemens non Immulite	26	1.9 - 3.0	S 2.44	0.17	2.3 - 3.2	S 2.71	0.15	3.2 - 5.1	S 4.14	0.3	4.4 - 7.9	S 6.19	0.58	0.3 - 0.6	S 0.45	0.06	62

Total Population																	
Whole Population	27	1.6 - 3.8	S 2.68	0.36	2.0 - 3.5	S 2.75	0.24	2.9 - 6.3	S 4.6	0.56	3.9 - 9.6	S 6.77	0.96	0.1 - 0.8	S 0.47	0.13	367

Thyroxine, Free (FT4)

Initial Grouping by Reagent and Instrument																	
Abbott CMIA & Abbott Architect c, ci, i	1	1.5 - 2.0	S 1.79	0.08	1.3 - 2.0	S 1.64	0.11	2.3 - 3.2	S 2.74	0.14	2.5 - 4.9	S 3.66	0.4	0.6 - 1.0	S 0.79	0.07	18
Beckman Coulter Access & Beckman Coulter Access 2	2	1.4 - 2.0	S 1.66	0.1	0.7 - 1.3	S 1.01	0.09	1.8 - 2.6	S 2.16	0.13	2.1 - 3.1	S 2.62	0.16	0.6 - 1.0	S 0.84	0.06	45
Beckman Coulter Access & Beckman Coulter Dxl	3	1.2 - 2.0	S 1.6	0.12	0.6 - 1.3	S 0.95	0.11	1.9 - 2.4	S 2.18	0.09	2.4 - 3.0	S 2.68	0.11	0.5 - 1.1	S 0.81	0.09	13
MP Biomedicals & All gamma counters	4	0.7 - 1.3	S 0.96	0.1	1.3 - 1.9	S 1.58	0.1	1.1 - 2.4	S 1.76	0.21	2.3 - 3.5	S 2.91	0.2	0 - 0.4	S 0.19	0.08	19
Ortho Vitros & Ortho Vitros 3600, 5600	5	4.6 - 5.5	S 5.05	0.15	1.6 - 2.4	S 2.01	0.14	5.9 - 7.2	S 6.59	0.22	6.8 - 7.1	S 6.93	0.05	1.8 - 2.7	S 2.23	0.14	14
Roche Elecsys & Roche e411/e601/E170/E2010	6	1.9 - 2.4	S 2.13	0.09	1.4 - 1.9	S 1.62	0.09	2.6 - 3.4	S 3.0	0.14	3.5 - 4.4	S 3.91	0.15	0.8 - 1.2	S 1.0	0.06	10
Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP	7	1.4 - 1.8	S 1.57	0.07	1.0 - 1.5	S 1.26	0.07	1.7 - 2.5	S 2.12	0.13	2.2 - 3.1	S 2.66	0.14	0.6 - 0.9	S 0.75	0.05	13
Siemens Dimension LOCI & Siemens Dimension EXL	8	1.9 - 2.4	S 2.15	0.09	1.1 - 1.4	S 1.29	0.05	2.7 - 3.5	S 3.11	0.12	3.5 - 4.7	S 4.1	0.19	0.7 - 1.0	S 0.87	0.05	35
Tosoh AIA & Tosoh AIA	9	1.9 - 2.9	S 2.43	0.17	1.1 - 1.8	S 1.48	0.12	2.6 - 4.2	S 3.39	0.28	3.3 - 5.1	S 4.21	0.3	0.8 - 1.2	S 0.98	0.07	19

Initial Grouping by Reagent																	
Abbott CMIA	10	1.5 - 2.0	S 1.79	0.08	1.3 - 2.0	S 1.64	0.11	2.3 - 3.2	S 2.74	0.14	2.5 - 4.9	S 3.66	0.4	0.6 - 1.0	S 0.79	0.07	18
Beckman Coulter Access	11	1.3 - 2.0	S 1.64	0.11	0.7 - 1.3	S 0.99	0.1	1.8 - 2.5	S 2.17	0.12	2.2 - 3.1	S 2.63	0.15	0.6 - 1.0	S 0.83	0.07	59
MP Biomedicals	12	0.7 - 1.3	S 0.96	0.1	1.3 - 1.9	S 1.58	0.1	1.1 - 2.4	S 1.76	0.21	2.3 - 3.5	S 2.91	0.2	0 - 0.4	S 0.19	0.08	19
Ortho Vitros	13	4.6 - 5.5	S 5.05	0.15	1.6 - 2.4	S 2.02	0.13	6.0 - 7.2	S 6.61	0.2	6.4 - 7.6	S 6.97	0.2	0.6 - 3.6	S 2.11	0.51	19
Roche Elecsys	14	1.8 - 2.4	S 2.1	0.09	1.4 - 1.8	S 1.59	0.07	2.5 - 3.3	S 2.94	0.13	3.3 - 4.3	S 3.84	0.17	0.8 - 1.1	S 0.95	0.06	29
Siemens Advia/Centaur/CP/XP	15	1.4 - 1.8	S 1.57	0.07	1.0 - 1.5	S 1.26	0.07	1.7 - 2.5	S 2.12	0.13	2.2 - 3.1	S 2.66	0.14	0.6 - 0.9	S 0.75	0.05	13
Siemens Dimension	16	1.7 - 2.8	S 2.25	0.19	0.6 - 1.6	S 1.11	0.16	2.0 - 4.5	S 3.25	0.41	3.2 - 4.8	S 4.02	0.27	0.4 - 1.2	S 0.79	0.13	13

Siemens Dimension LOCI	17	1.9 - 2.4	S 2.14	0.09	1.1 - 1.4	S 1.29	0.05	2.7 - 3.5	S 3.1	0.12	3.5 - 4.7	S 4.1	0.19	0.7 - 1.0	S 0.87	0.05	36
Siemens Immulite (1-step)	18	1.9 - 2.5	S 2.21	0.09	1.2 - 1.7	S 1.45	0.09	2.3 - 3.3	S 2.78	0.17	2.8 - 3.7	S 3.26	0.16	0.9 - 1.4	S 1.13	0.07	11
Tosoh AIA	19	1.9 - 2.9	S 2.43	0.17	1.1 - 1.9	S 1.48	0.13	2.6 - 4.2	S 3.41	0.27	3.3 - 5.1	S 4.23	0.3	0.4 - 1.6	S 1.03	0.2	28
Initial Grouping bySensitivityor Principle																	
Standardized methods	20	0.2 - 3.6	S 1.9	0.56	0.4 - 2.3	S 1.35	0.32	0.7 - 4.6	S 2.65	0.64	1.2 - 5.5	S 3.39	0.72	0 - 1.9	S 0.86	0.34	170
Vitros and related	21	4.6 - 5.5	S 5.05	0.15	1.6 - 2.4	S 2.02	0.13	6.0 - 7.2	S 6.61	0.2	6.4 - 7.6	S 6.97	0.2	0.6 - 3.6	S 2.11	0.51	19
Siemens non-Immulite	22	1.2 - 2.9	S 2.05	0.28	0.9 - 1.6	S 1.25	0.12	1.5 - 4.4	S 2.92	0.48	1.9 - 5.6	S 3.77	0.61	0.6 - 1.1	S 0.83	0.09	62
All Immulite	23	1.8 - 2.5	S 2.18	0.12	1.2 - 1.7	S 1.45	0.09	2.3 - 3.3	S 2.77	0.17	2.8 - 3.8	S 3.28	0.16	0.9 - 1.3	S 1.13	0.07	13
Total Population																	
Whole Population	24	0.1 - 3.9	S 2.0	0.62	0.4 - 2.3	S 1.38	0.32	0 - 6.4	S 2.99	1.14	0.4 - 7.1	S 3.72	1.11	0 - 2.2	S 0.93	0.41	266

Thyroxine, Total (TT4)

Initial Grouping byReagent and Instrument

Abbott CMIA & Abbott Architect c, ci, i	1	4.7 - 7.0	P 5.84	0.27	9.1 - 13.6	P 11.36	0.42	7.9 - 11.9	P 9.9	0.3	11.9 - 17.8	P 14.83	0.68	1.0 - 3.0	C 2.02	0.3	10
Beckman Coulter Access & Beckman Coulter Access	2	5.2 - 7.8	P 6.46	0.41	6.5 - 9.8	P 8.16	0.73	8.0 - 12.0	P 9.96	0.78	10.7 - 16.0	P 13.37	0.91	0.9 - 2.9	C 1.89	0.21	14
Siemens Dimension & Siemens Dimension EXL	3	5.2 - 7.8	P 6.49	0.44	10.0 - 15.0	P 12.46	0.58	8.3 - 12.4	P 10.34	0.5	11.9 - 17.9	P 14.92	0.56	1.5 - 3.5	C 2.49	0.58	16

Initial Grouping byReagent

Abbott CMIA	4	4.7 - 7.0	P 5.84	0.27	9.1 - 13.6	P 11.36	0.42	7.9 - 11.9	P 9.9	0.3	11.9 - 17.8	P 14.83	0.68	1.0 - 3.0	C 2.02	0.3	10
Beckman Coulter Access	5	5.2 - 7.8	P 6.53	0.41	6.4 - 9.6	P 8.03	0.62	8.1 - 12.1	P 10.09	0.7	10.8 - 16.2	P 13.46	1.05	0.8 - 2.8	C 1.81	0.29	23
Roche Elecsys	6	4.5 - 6.7	P 5.57	0.32	7.8 - 11.7	P 9.79	0.52	7.0 - 10.5	P 8.75	0.5	10.3 - 15.5	P 12.91	0.64	1.3 - 3.3	C 2.25	0.12	15
Siemens Dimension	7	5.2 - 7.8	P 6.52	0.53	10.0 - 15.0	P 12.53	0.64	8.3 - 12.4	P 10.35	0.61	12.1 - 18.1	P 15.07	0.74	1.5 - 3.6	C 2.55	0.57	20

Initial Grouping bySensitivityor Principle

Standardized methods	8	4.7 - 7.0	P 5.86	0.62	8.4 - 12.6	P 10.5	1.52	7.5 - 11.3	P 9.39	0.95	11.0 - 16.4	P 13.69	1.54	1.2 - 3.2	C 2.15	0.46	83
Beckman Coulter and related	9	5.2 - 7.8	P 6.53	0.41	6.4 - 9.6	P 8.03	0.62	8.1 - 12.1	P 10.09	0.7	10.8 - 16.2	P 13.46	1.05	0.8 - 2.8	C 1.81	0.29	23

Total Population

Whole Population	10	4.8 - 7.2	P 6.01	0.64	8.0 - 12.0	P 9.97	1.71	7.6 - 11.4	P 9.48	1.15	10.9 - 16.4	P 13.64	1.45	1.1 - 3.1	C 2.08	0.45	107
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Triiodothyronine, Total (TT3)

Initial Grouping byReagent and Instrument

Beckman Coulter Access & Beckman Coulter Access	1	0.78 - 1.59	S 1.183	0.134	1.18 - 1.89	S 1.536	0.119	1.25 - 1.93	S 1.589	0.112	1.63 - 2.66	S 2.146	0.173	0.62 - 1.06	S 0.842	0.074	18
Beckman Coulter Access & Beckman Coulter Dxl	2	1.07 - 1.51	S 1.289	0.074	1.29 - 1.89	S 1.59	0.099	1.31 - 2.07	S 1.69	0.126	1.77 - 3.2	S 2.487	0.239	0.42 - 1.03	S 0.725	0.102	10
MP Biomedicals & All gamma counters	3	0.68 - 1.26	S 0.972	0.096	1.32 - 3.13	S 2.225	0.301	1.17 - 2.17	S 1.669	0.166	2.21 - 3.39	S 2.8	0.196	0 - 0.85	S 0.297	0.183	12
Siemens Advia & Siemens Centaur/Centaur CP	4	0.8 - 1.33	S 1.066	0.088	0.49 - 1.59	S 1.044	0.183	0.92 - 1.43	S 1.175	0.086	0.9 - 1.71	S 1.304	0.135	0.69 - 0.97	S 0.833	0.047	11

Initial Grouping byReagent

Beckman Coulter Access	5	0.84 - 1.6	S 1.221	0.127	1.21 - 1.9	S 1.556	0.115	1.25 - 2.01	S 1.627	0.127	1.5 - 3.05	S 2.273	0.259	0.49 - 1.11	S 0.799	0.103	28
MP Biomedicals	6	0.68 - 1.26	S 0.972	0.096	1.32 - 3.13	S 2.225	0.301	1.17 - 2.17	S 1.669	0.166	2.21 - 3.39	S 2.8	0.196	0 - 0.85	S 0.297	0.183	12
Roche Elecsys	7	1.05 - 1.62	S 1.333	0.096	0.49 - 1.05	S 0.774	0.094	1.27 - 1.84	S 1.556	0.095	1.43 - 2.13	S 1.78	0.116	0.6 - 1.28	S 0.936	0.113	23
Siemens Advia	8	0.78 - 1.39	S 1.083	0.102	0.5 - 1.64	S 1.066	0.19	0.89 - 1.5	S 1.193	0.102	0.87 - 1.79	S 1.328	0.153	0.65 - 1.05	S 0.849	0.068	12

Initial Grouping bySensitivityor Principle

Standardized methods	9	0.61 - 1.85	S 1.227	0.206	0.15 - 1.55	S 0.852	0.234	0.83 - 1.99	S 1.406	0.193	0.73 - 2.43	S 1.578	0.283	0.57 - 1.21	S 0.891	0.107	43
Beckman Coulter and related	10	0.65 - 1.64	S 1.146	0.165	0.67 - 2.85	S 1.762	0.364	1.21 - 2.07	S 1.64	0.142	1.41 - 3.46	S 2.435	0.343	0 - 1.44	S 0.644	0.267	40

Total Population

Whole Population	11	0 - 2.73	S 1.251	0.493	0 - 2.86	S 1.211	0.548	0 - 3.49	S 1.597	0.63	0 - 4.68	S 2.059	0.872	0 - 2.25	S 0.848	0.467	100
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T-Uptake % of Total

Initial Grouping byReagent and Instrument

Beckman Coulter Access & Beckman Coulter Access	1	46 - 57	S 51.7	1.9	32 - 37	S 34.2	0.8	46 - 52	S 48.9	1.0	43 - 51	S 47.1	1.4	50 - 60	S 55.4	1.7	10
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Initial Grouping byReagent

Beckman Coulter Access	2	43 - 59	S 51.0	2.7	28 - 39	S 33.6	1.7	42 - 55	S 48.4	2.3	39 - 53	S 46.0	2.2	44 - 64	S 53.9	3.4	18
Siemens Dimension	3	38 - 44	S 41.2	1.1	25 - 32	S 28.8	1.2	37 - 44	S 40.5	1.3	36 - 45	S 40.3	1.5	36 - 48	S 41.9	1.9	12

Initial Grouping bySensitivityor Principle

Beckman Coulter and Vitros	4	35 - 74	S 54.5	6.5	24 - 40	S 32.3	2.7	30 - 75	S 52.6	7.4	25 - 76	S 50.8	8.4	40 - 74	S 56.7	5.7	24
Standardized methods	5	29 - 56	S 42.4	4.4	15 - 37	S 26.3	3.6	30 - 50	S 40.4	3.3	25 - 53	S 39.1	4.7	20 - 72	S 45.9	8.7	37

Total Population

Whole Population	6	23 - 71	S 47.0	7.9	15 - 42	S 28.3	4.6	21 - 69	S 45.0	8.0	17 - 69	S 43.4	8.6	22 - 78	S 50.0	9.2	63
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T-Uptake Ratio to Normal

Initial Grouping bySensitivityor Principle

luminometric	1	0.5 - 0.82	S 0.661	0.054	0.51 - 2.0	S 1.257	0.248	0.38 - 0.9	S 0.642	0.086	0.02 - 1.16	S 0.588	0.191	0.33 - 0.97	S 0.648	0.108	12
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Total Population

Whole Population	2	0.5 - 0.82	S 0.661	0.054	0.51 - 2.0	S 1.257	0.248	0.38 - 0.9	S 0.642	0.086	0.02 - 1.16	S 0.588	0.191	0.33 - 0.97	S 0.648	0.108	12
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Fructosamine - Polylysine

Total Population																	
Whole Population	1	118 - 219	P 168.8	7.1	249 - 463	P 356.3	32.3	163 - 303	P 233.2	17.3	219 - 406	P 312.5	41.3	50 - 140	C 95.3	15.2	6