Basic Chemistry

Name	Line No.	Specimen 1 Range & Type	Specimen 1 Mean	Specimen 1 SD	Specimen 2 Range & Type	Specimen 2 Mean	Specimen 2 SD	Specimen 3 Range & Type	Specimen 3 Mean	Specimen 3 SD	Specimen 4 Range & Type	Specimen 4 Mean	Specimen 4 SD	Specimen 5 Range & Type	Specimen 5 Mean	Specimen 5 SD	No. of Labs
Alanine Aminotransferase (ALT or SGPT)																	
Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	20 - 31	P 25.5	1.4	12 - 18	P 15.2	1.0	215 - 322	P 268.7	6.8	93 - 140	P 116.6	3.4	134 - 200	P 166.9	4.4	20
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	15 - 22	P 18.3	2.4	11 - 16	P 13.2	2.4	175 - 262	P 218.4	5.0	77 - 115	P 95.7	2.6	110 - 165	P 137.1	3.2	19
Beckman Coulter & Beck Coult Unicel DXC	3	30 - 45	P 37.9	1.4	18 - 27	P 22.9	1.0	205 - 308	P 256.5	3.3	94 - 141	P 117.3	1.6	131 - 196	P 163.2	2.3	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	20 - 30	P 24.7	1.3	11 - 17	P 14.0	0.8	185 - 277	P 231.2	6.6	81 - 121	P 100.8	2.9	115 - 173	P 144.0	4.5	25
Beckman Olympus & Beckman AU 480	5	20 - 30	P 25.3	1.3	11 - 17	P 14.2	0.7	187 - 280	P 233.4	6.8	81 - 122	P 101.5	3.2	116 - 174	P 145.2	4.3	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	24 - 36	P 30.4	4.4	25 - 38	P 31.4	4.2	201 - 301	P 250.8	9.3	99 - 148	P 123.6	5.7	134 - 201	P 167.2	6.2	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	25 - 38	P 31.6	3.8	27 - 40	P 33.2	3.4	200 - 300	P 250.0	5.6	98 - 148	P 123.0	3.1	134 - 200	P 167.0	4.0	23
Roche Cobas & Roche Cobas Integra	8	19 - 28	P 23.6	1.4	12 - 19	P 15.6	1.2	202 - 304	P 253.0	7.1	90 - 134	P 112.0	3.4	128 - 192	P 160.1	5.5	14
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	20 - 30	P 24.9	1.1	12 - 18	P 15.4	1.0	200 - 300	P 249.6	8.0	88 - 131	P 109.5	3.8	125 - 187	P 156.2	4.1	16
Siemens ALTI & Siemens Dimension EXL	10	27 - 40	P 33.3	2.5	15 - 23	P 19.0	1.6	218 - 326	P 272.0	6.1	97 - 146	P 121.8	3.2	138 - 207	P 172.2	4.4	44
Siemens ALTI & Siemens Dimension Xpand	11	26 - 39	P 32.9	2.0	15 - 22	P 18.6	1.4	217 - 326	P 271.5	3.9	97 - 145	P 121.1	2.1	137 - 205	P 171.2	3.9	11
Siemens Dimension & Siemens Dimension EXL	12	25 - 38	P 31.5	3.4	15 - 22	P 18.4	1.1	216 - 323	P 269.5	4.1	96 - 144	P 120.0	2.1	137 - 205	P 171.2	4.0	13
Initial Grouping by Reagent																	
Abbott	13	20 - 31	P 25.5	1.4	12 - 18	P 15.2	1.0	215 - 322	P 268.7	6.8	93 - 140	P 116.6	3.4	134 - 200	P 166.9	4.4	20
Alfa Wassermann	14	15 - 22	P 18.4	2.4	11 - 16	P 13.2	2.4	175 - 262	P 218.3	4.9	77 - 115	P 95.7	2.5	110 - 164	P 137.0	3.2	20
Beckman Coulter	15	26 - 39	P 32.5	6.7	15 - 23	P 19.3	4.5	198 - 296	P 247.0	14.0	89 - 133	P 111.1	8.2	125 - 187	P 155.9	10.0	25
Beckman Olympus	16	20 - 30	P 25.0	1.3	11 - 17	P 14.0	0.8	186 - 278	P 232.0	6.6	81 - 121	P 101.1	2.9	116 - 173	P 144.4	4.4	47
Carolina	17	23 - 35	P 29.2	5.3	14 - 22	P 18.1	4.1	197 - 296	P 246.3	18.5	89 - 133	P 110.7	8.5	126 - 189	P 157.5	10.0	11
Ortho Vitros	18	25 - 37	P 31.0	4.2	26 - 39	P 32.6	3.9	200 - 300	P 249.6	7.5	98 - 148	P 123.0	4.3	133 - 200	P 166.6	5.0	45
Roche Cobas	19	19 - 29	P 24.2	1.3	12 - 18	P 15.4	1.0	201 - 301	P 251.0	7.9	88 - 132	P 110.3	3.8	125 - 188	P 156.4	8.8	39
Siemens ALTI	20	27 - 40	P 33.4	2.3	15 - 23	P 18.9	1.5	217 - 326	P 271.5	6.1	97 - 146	P 121.6	3.1	138 - 206	P 171.9	4.5	61
Siemens Dimension	21	26 - 39	P 32.5	3.4	15 - 23	P 18.8	1.9	217 - 325	P 270.9	5.9	97 - 145	P 120.9	3.0	137 - 206	P 171.6	4.3	21
Initial Grouping by Sensitivity or Principle																	
Other no P5P	22	19 - 29	P 24.3	6.4	13 - 19	P 15.8	3.7	185 - 277	P 230.9	18.1	82 - 123	P 102.4	8.8	117 - 176	P 146.3	11.7	43
Standardized methods	23	22 - 34	P 28.0	5.1	13 - 20	P 16.3	3.3	199 - 299	P 248.8	20.0	88 - 132	P 110.0	10.0	125 - 187	P 156.2	13.5	125
Other P5P	24	24 - 36	P 29.6	6.0	14 - 22	P 18.0	5.9	199 - 299	P 249.3	27.4	91 - 137	P 114.3	12.7	132 - 198	P 165.0	21.1	10
Vitros and related methods	25	25 - 37	P 31.0	4.2	26 - 39	P 32.6	3.9	200 - 300	P 249.6	7.5	98 - 148	P 123.0	4.3	133 - 200	P 166.6	5.0	45
Roche and related	26	19 - 29	P 24.2	1.3	12 - 18	P 15.4	1.0	201 - 301	P 251.0	7.9	88 - 132	P 110.3	3.8	125 - 188	P 156.4	8.8	39
Siemens and related	27	26 - 39	P 32.9	2.8	15 - 23	P 18.8	1.6	217 - 326	P 271.3	6.8	97 - 146	P 121.3	3.4	137 - 206	P 171.7	4.8	84
Total Population																	
Whole Population	28	23 - 34	P 28.7	5.4	15 - 22	P 18.7	6.0	202 - 304	P 253.0	19.9	91 - 137	P 113.8	10.3	129 - 193	P 160.7	13.7	351
Albumin																	
Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	5.2 - 6.3	P 5.73	0.1	1.6 - 1.9	P 1.77	0.07	4.0 - 4.9	P 4.41	0.13	2.6 - 3.1	P 2.86	0.1	3.0 - 3.7	P 3.38	0.1	12
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	5.4 - 6.6	P 5.99	0.15	1.8 - 2.2	P 1.96	0.05	4.2 - 5.1	P 4.66	0.1	2.8 - 3.4	P 3.08	0.06	3.2 - 4.0	P 3.61	0.06	17
Beckman BCP & Beck Coult Unicel DXC	3	5.4 - 6.6	P 5.99	0.09	1.6 - 2.0	P 1.79	0.03	3.3 - 4.0	P 3.65	0.05	2.3 - 2.8	P 2.55	0.05	2.6 - 3.2	P 2.91	0.05	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	5.2 - 6.4	P 5.81	0.12	1.6 - 1.9	P 1.75	0.06	4.1 - 5.0	P 4.56	0.08	2.6 - 3.2	P 2.94	0.08	3.1 - 3.8	P 3.49	0.08	25
Beckman Olympus & Beckman AU 480	5	5.3 - 6.5	P 5.91	0.09	1.6 - 2.0	P 1.78	0.04	4.1 - 5.0	P 4.59	0.06	2.7 - 3.3	P 2.97	0.07	3.2 - 3.9	P 3.54	0.05	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	5.4 - 6.6	P 5.97	0.19	1.4 - 1.8	P 1.6	0.0	4.1 - 5.0	P 4.59	0.19	2.5 - 3.1	P 2.79	0.07	3.1 - 3.8	P 3.42	0.1	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	5.4 - 6.7	P 6.05	0.31	1.4 - 1.8	P 1.6	0.05	4.1 - 5.1	P 4.6	0.19	2.5 - 3.1	P 2.79	0.09	3.1 - 3.8	P 3.45	0.13	22
Siemens BCP & Siemens Dimension EXL	8	5.2 - 6.3	P 5.77	0.1	1.5 - 1.8	P 1.63	0.05	3.1 - 3.8	P 3.42	0.06	2.1 - 2.6	P 2.37	0.05	2.5 - 3.0	P 2.73	0.05	57
Siemens BCP & Siemens Dimension Xpand	9	5.2 - 6.4	P 5.82	0.18	1.5 - 1.8	P 1.63	0.07	3.1 - 3.8	P 3.45	0.12	2.1 - 2.6	P 2.35	0.05	2.5 - 3.0	P 2.73	0.1	18
Initial Grouping by Reagent																	
Abbott Architect	10	5.2 - 6.3	P 5.73	0.1	1.6 - 1.9	P 1.77	0.07	4.0 - 4.9	P 4.41	0.13	2.6 - 3.1	P 2.86	0.1	3.0 - 3.7	P 3.38	0.1	12
Alfa Wassermann	11	5.4 - 6.6	P 5.99	0.14	1.8 - 2.2	P 1.96	0.05	4.2 - 5.1	P 4.67	0.1	2.8 - 3.4	P 3.08	0.06	3.2 - 4.0	P 3.61	0.07	18
Beckman BCP	12	5.4 - 6.6	P 5.99	0.09	1.6 - 2.0	P 1.79	0.03	3.3 - 4.0	P 3.65	0.05	2.3 - 2.8	P 2.55	0.05	2.6 - 3.2	P 2.91	0.05	15
Beckman Olympus	13	5.3 - 6.4	P 5.85	0.12	1.6 - 1.9	P 1.77	0.05	4.1 - 5.0	P 4.57	0.08	2.7 - 3.2	P 2.95	0.08	3.2 - 3.9	P 3.51	0.07	48

Carolina BCG	14	5.1 - 6.2	P 5.66	0.22	1.8 - 2.2	P 1.99	0.09	3.9 - 4.8	P 4.36	0.18	2.8 - 3.4	P 3.06	0.11	3.2 - 3.9	P 3.54	0.15	10
Ortho Vitros	15	5.4 - 6.6	P 6.03	0.27	1.4 - 1.8	P 1.6	0.04	4.1 - 5.1	P 4.6	0.21	2.5 - 3.1	P 2.79	0.09	3.1 - 3.8	P 3.43	0.12	44
Pointe Scientific	16	5.3 - 6.5	P 5.94	0.22	1.7 - 2.1	P 1.94	0.15	4.4 - 5.3	P 4.85	0.27	2.8 - 3.5	P 3.15	0.18	3.4 - 4.2	P 3.83	0.16	10
Roche Cobas	17	5.3 - 6.5	P 5.88	0.17	1.7 - 2.1	P 1.89	0.09	4.3 - 5.3	P 4.82	0.17	2.8 - 3.5	P 3.16	0.11	3.4 - 4.1	P 3.76	0.17	16
Roche Cobas BCG, gen II	18	5.4 - 6.6	P 5.97	0.3	1.7 - 2.1	P 1.89	0.1	4.3 - 5.3	P 4.83	0.13	2.9 - 3.5	P 3.18	0.11	3.3 - 4.1	P 3.7	0.17	22
Siemens BCP	19	5.2 - 6.4	P 5.78	0.12	1.5 - 1.8	P 1.63	0.05	3.1 - 3.8	P 3.43	0.08	2.1 - 2.6	P 2.37	0.05	2.5 - 3.0	P 2.73	0.07	82
Initial Grouping by Sensitivity or Principle																	
BCP-bromcresol purple	20	5.2 - 6.4	P 5.81	0.19	1.5 - 1.8	P 1.66	0.08	3.1 - 3.8	P 3.46	0.12	2.2 - 2.7	P 2.41	0.09	2.5 - 3.0	P 2.77	0.1	107
BCG-rapid (60 sec or less)	21	5.3 - 6.5	P 5.91	0.22	1.5 - 1.9	P 1.7	0.1	4.1 - 5.0	P 4.57	0.17	2.6 - 3.2	P 2.88	0.12	3.1 - 3.8	P 3.47	0.12	115
BCG-bromcresol green	22	5.3 - 6.5	P 5.9	0.27	1.7 - 2.1	P 1.91	0.11	4.2 - 5.1	P 4.67	0.24	2.8 - 3.4	P 3.09	0.14	3.3 - 4.0	P 3.64	0.18	119
Total Population																	
Whole Population	23	5.3 - 6.5	P 5.87	0.24	1.6 - 1.9	P 1.76	0.15	3.8 - 4.7	P 4.26	0.57	2.5 - 3.1	P 2.81	0.31	3.0 - 3.6	P 3.31	0.4	342

Alkaline Phosphatase

Initial Grouping by Reagent and Instrument																
Abbott & Abbott Architect c, ci, i	1	67 - 124	P 95.1	2.6	28 - 52	P 40.2	1.3	239 - 444	P 341.6	9.9	119 - 222	P 170.5	3.4	160 - 296	P 227.9	4.0	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	61 - 113	P 86.6	5.0	26 - 48	P 36.6	2.6	215 - 400	P 307.4	19.6	108 - 201	P 154.9	10.5	145 - 268	P 206.5	13.9	18
Beckman Coulter & Beck Coult Unicel DXC	3	55 - 101	P 77.9	2.0	23 - 43	P 33.3	2.3	197 - 366	P 281.6	6.5	98 - 182	P 140.3	3.0	132 - 246	P 189.1	4.9	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	58 - 108	P 82.9	8.7	24 - 45	P 34.6	3.9	209 - 388	P 298.8	32.5	103 - 191	P 146.8	15.3	138 - 256	P 197.1	20.5	21
Beckman Olympus & Beckman AU 480	5	57 - 105	P 81.1	6.2	23 - 43	P 33.4	2.7	205 - 381	P 293.2	23.7	102 - 190	P 145.9	12.2	137 - 255	P 196.3	17.2	18
Ortho Vitros & Ortho Vitros 3600, 5600	6	66 - 123	P 94.9	5.3	26 - 48	P 37.2	2.4	107 - 199	P 153.0	11.4	82 - 152	P 116.9	4.3	96 - 178	P 137.3	5.4	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	67 - 124	P 95.1	7.5	27 - 50	P 38.4	2.1	106 - 198	P 152.1	15.2	85 - 157	P 120.7	8.2	98 - 183	P 140.5	10.4	23
Roche IFCC Gen. 2 & Roche Cobas Integra	8	66 - 122	P 94.1	4.5	26 - 49	P 37.7	2.1	229 - 425	P 326.8	15.1	113 - 209	P 160.9	8.1	153 - 285	P 218.9	14.6	12
Roche IFCC Gen. 2 & Roche e/c, 1XX, X000, Elec series	9	65 - 121	P 93.2	4.5	26 - 49	P 37.4	1.6	224 - 416	P 320.3	12.7	111 - 206	P 158.5	6.8	149 - 276	P 212.2	8.5	13
Siemens Dimension & Siemens Dimension EXL	10	69 - 128	P 98.3	3.1	28 - 52	P 39.8	1.9	254 - 471	P 362.3	10.9	124 - 231	P 177.8	5.9	169 - 313	P 240.8	7.9	38
Siemens Dimension & Siemens Dimension Xpand	11	68 - 125	P 96.5	2.5	28 - 51	P 39.4	2.1	250 - 465	P 357.4	7.7	123 - 228	P 175.0	4.0	166 - 307	P 236.5	5.1	12
Siemens Dimension IFCC & Siemens Dimension EXL	12	68 - 127	P 97.6	4.5	28 - 52	P 39.8	2.9	253 - 469	P 361.1	7.5	124 - 230	P 176.8	4.5	168 - 311	P 239.6	5.7	18
Initial Grouping by Reagent																	
Abbott	13	67 - 124	P 95.1	2.6	28 - 52	P 40.2	1.3	239 - 444	P 341.6	9.9	119 - 222	P 170.5	3.4	160 - 296	P 227.9	4.0	18
Alfa Wassermann	14	60 - 112	P 86.4	4.9	26 - 48	P 36.6	2.6	214 - 398	P 306.4	19.6	108 - 201	P 154.5	10.3	144 - 268	P 206.2	13.6	19
Beckman Coulter	15	56 - 103	P 79.4	4.8	23 - 43	P 33.3	2.6	202 - 375	P 288.1	17.6	100 - 185	P 142.5	8.0	135 - 250	P 192.2	11.7	24
Beckman Olympus	16	58 - 107	P 82.2	7.5	24 - 44	P 34.0	3.3	208 - 386	P 296.7	28.0	103 - 191	P 146.6	13.5	138 - 256	P 197.1	18.4	42
Carolina	17	56 - 105	P 80.6	5.4	24 - 44	P 34.1	4.0	201 - 374	P 287.5	20.6	100 - 186	P 143.4	11.3	137 - 254	P 195.4	13.1	14
Ortho Vitros	18	67 - 124	P 95.2	6.3	27 - 50	P 38.1	2.3	107 - 199	P 153.2	13.1	84 - 156	P 119.8	7.0	98 - 182	P 139.8	8.6	45
Pointe Scientific	19	62 - 116	P 89.2	12.5	27 - 49	P 38.0	4.9	223 - 414	P 318.8	43.0	110 - 205	P 157.7	21.3	147 - 274	P 210.7	30.6	10
Roche IFCC Gen. 2	20	66 - 122	P 93.6	4.1	26 - 49	P 37.6	1.8	227 - 421	P 324.0	13.3	112 - 208	P 160.0	7.2	151 - 280	P 215.4	11.4	32
Siemens Dimension	21	68 - 127	P 97.8	3.0	28 - 52	P 39.9	2.4	253 - 470	P 361.5	10.3	124 - 231	P 177.4	5.6	168 - 312	P 240.2	7.7	55
Siemens Dimension IFCC	22	68 - 126	P 97.3	4.4	28 - 51	P 39.6	2.8	253 - 469	P 360.8	9.7	123 - 229	P 176.3	4.9	167 - 311	P 239.2	5.7	26
Initial Grouping by Sensitivity or Principle																	
IFCC Standardized	23	60 - 111	P 85.6	9.1	25 - 47	P 36.2	4.3	215 - 398	P 306.5	34.7	107 - 199	P 152.7	17.0	143 - 265	P 204.0	22.5	171
Vitros and related methods	24	67 - 124	P 95.2	6.3	27 - 50	P 38.1	2.3	107 - 199	P 153.2	13.1	84 - 156	P 119.8	7.0	98 - 182	P 139.8	8.6	45
IFCC Gen 2	25	67 - 124	P 95.3	4.6	27 - 50	P 38.5	2.5	238 - 443	P 340.5	21.8	117 - 217	P 167.3	10.3	158 - 294	P 226.1	15.0	58
Siemens and related	26	68 - 127	P 97.8	2.9	28 - 52	P 40.0	2.4	253 - 470	P 361.4	10.5	124 - 231	P 177.6	6.1	168 - 312	P 240.1	7.7	58
Total Population																	
Whole Population	27	64 - 118	P 90.7	9.1	26 - 49	P 37.6	3.8	211 - 392	P 301.8	67.5	109 - 202	P 155.5	21.5	144 - 268	P 206.0	34.2	342

Aspartate Aminotransferase (AST or SGOT)

Initial Grouping by Reagent and Instrument																
Abbott Architect & Abbott Architect c, ci, i	1	29 - 44	P 36.7	1.5	85 - 127	P 105.7	2.4	225 - 338	P 281.7	6.7	141 - 212	P 176.3	3.6	170 - 254	P 212.0	4.7	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	23 - 35	P 29.0	2.1	79 - 118	P 98.2	3.1	203 - 305	P 254.2	5.8	128 - 192	P 160.2	3.4	154 - 232	P 193.0	4.6	19
Beckman Coulter & Beck Coult Unicel DXC	3	34 - 50	P 41.9	1.4	86 - 129	P 107.7	2.1	220 - 330	P 274.9	5.2	140 - 209	P 174.5	2.7	167 - 250	P 208.3	4.1	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	26 - 39	P 32.2	1.4	75 - 112	P 93.4	3.3	197 - 295	P 245.8	6.4	124 - 186	P 154.8	5.4	149 - 223	P 185.8	6.4	25
Beckman Olympus & Beckman AU 480	5	26 - 39	P 32.7	1.1	74 - 112	P 93.1	3.4	197 - 296	P 246.4	9.5	123 - 185	P 154.3	5.5	149 - 223	P 185.7	6.6	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	30 - 46	P 38.1	1.3	80 - 120	P 99.9	3.4	264 - 396	P 330.4	9.3	144 - 216	P 180.3	6.1	182 - 273	P 227.4	7.4	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	31 - 46	P 38.4	0.8	80 - 120	P 100.0	2.3	274 - 411	P 342.7	12.1	147 - 221	P 184.2	6.2	188 - 282	P 234.8	7.4	23
Roche Cobas & Roche Cobas Integra	8	26 - 40	P 33.1	2.1	87 - 130	P 108.6	2.7	225 - 337	P 280.8	7.9	142 - 213	P 177.8	4.8	172 - 258	P 214.8	7.1	14
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	28 - 42	P 34.9	1.2	86 - 129	P 107.2	4.0	224 - 336	P 280.3	10.2	141 - 212	P 176.6	6.8	169 - 254	P 211.5	9.4	16
Siemens Dimension & Siemens Dimension EXL	10	26 - 39	P 32.1	2.1	85 - 127	P 105.7	3.2	241 - 361	P 301.2	7.2	148 - 222	P 184.6	5.0	179 - 269	P 224.0	5.6	47
Siemens Dimension & Siemens Dimension Xpand	11	26 - 39	P 32.1	2.9	85 - 128	P 106.5	3.7	243 - 365	P 304.0	9.4	150 - 225	P 187.1	5.6	181 - 272	P 226.8	6.4	17
Initial Grouping by Reagent																	
Abbott Architect	12	29 - 44	P 36.7	1.5	85 - 127	P 105.7	2.4	225 - 338	P 281.7	6.7	141 - 212	P 176.3	3.6	170 - 254	P 212.0	4.7	16

Alfa Wassermann	13	23 - 35	P 28.9	2.0	78 - 118	P 98.1	3.1	203 - 304	P 253.6	6.2	128 - 192	P 160.0	3.4	154 - 231	P 192.6	4.9	20
Beckman Coulter	14	30 - 45	P 37.8	5.1	81 - 122	P 101.4	8.1	209 - 314	P 261.7	17.7	132 - 198	P 165.4	12.0	158 - 238	P 198.0	13.6	25
Beckman Olympus	15	26 - 39	P 32.5	1.4	75 - 112	P 93.6	3.6	198 - 296	P 247.0	8.9	124 - 186	P 155.2	6.0	149 - 224	P 186.3	6.7	47
Carolina	16	32 - 47	P 39.4	3.3	93 - 140	P 116.6	6.4	245 - 368	P 306.7	26.7	151 - 227	P 188.8	9.0	185 - 277	P 231.1	21.5	15
Ortho Vitros	17	31 - 46	P 38.4	1.1	80 - 120	P 100.2	3.0	270 - 406	P 338.1	12.7	146 - 219	P 182.9	6.4	186 - 279	P 232.1	8.3	45
Roche Cobas	18	27 - 41	P 34.2	1.8	86 - 129	P 107.4	3.5	224 - 336	P 280.0	9.1	142 - 213	P 177.6	7.9	169 - 253	P 211.2	10.3	39
Siemens Dimension	19	26 - 38	P 32.0	2.3	85 - 127	P 105.9	3.3	241 - 362	P 301.8	7.8	148 - 222	P 185.2	5.3	180 - 270	P 224.7	5.8	71
Synermed	20	33 - 49	P 40.9	4.9	93 - 139	P 115.9	7.9	246 - 369	P 307.5	19.5	157 - 235	P 196.0	13.5	185 - 278	P 231.6	18.6	10
Initial Grouping by Sensitivity or Principle																	
Other no P5P	21	28 - 42	P 34.7	5.4	85 - 127	P 106.0	9.1	219 - 328	P 273.4	29.9	138 - 207	P 172.1	14.6	167 - 251	P 208.9	21.9	48
Standardized methods	22	28 - 42	P 35.0	3.8	80 - 120	P 100.3	8.1	208 - 313	P 260.6	22.6	132 - 198	P 165.2	12.9	158 - 237	P 197.2	16.3	124
Vitros and related	23	31 - 46	P 38.4	1.1	80 - 120	P 100.2	3.0	270 - 406	P 338.1	12.7	146 - 219	P 182.9	6.4	186 - 279	P 232.1	8.3	45
Roche and related	24	27 - 41	P 34.2	1.8	86 - 129	P 107.4	3.5	224 - 336	P 280.0	9.1	142 - 213	P 177.6	7.9	169 - 253	P 211.2	10.3	39
Siemens and related	25	26 - 39	P 32.2	2.5	85 - 127	P 106.0	3.5	241 - 361	P 301.0	8.8	148 - 222	P 184.8	5.4	180 - 269	P 224.4	6.2	84
Other P5P	26	33 - 49	P 40.9	4.6	93 - 139	P 116.2	7.5	245 - 368	P 306.6	18.8	156 - 234	P 194.7	13.2	185 - 278	P 231.4	17.8	11
Total Population																	
Whole Population	27	28 - 42	P 34.8	4.0	83 - 124	P 103.7	7.4	228 - 343	P 285.6	32.0	140 - 210	P 175.3	13.8	170 - 255	P 212.3	19.4	353

Bicarbonate (Total CO2)

Initial Grouping by Reagent and Instrument																
Abbott Architect & Abbott Architect c, ci, i	1	7 - 15	C 11.1	1.6	7 - 15	C 11.4	1.3	29 - 43	P 36.1	1.9	17 - 25	P 20.8	2.2	21 - 31	P 25.8	1.8	17
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	9 - 17	C 13.2	1.8	10 - 18	C 13.5	1.5	32 - 48	P 39.6	2.6	20 - 29	P 24.5	1.9	23 - 35	P 29.3	2.3	17
Beckman Coulter & Beck Coult Unicel DXC	3	10 - 18	C 13.5	1.5	9 - 17	C 12.6	1.3	30 - 45	P 37.2	2.3	18 - 28	P 23.0	1.5	22 - 33	P 27.3	2.0	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	9 - 17	C 12.9	1.8	8 - 16	C 12.1	1.9	32 - 49	P 40.5	3.2	19 - 28	P 23.4	2.1	23 - 35	P 28.9	2.1	25
Beckman Olympus & Beckman AU 480	5	10 - 18	C 13.9	1.7	9 - 17	C 12.7	1.3	33 - 50	P 41.3	3.1	19 - 29	P 23.9	2.0	23 - 35	P 28.9	2.9	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	6 - 14	C 9.9	1.5	7 - 15	C 10.5	1.0	28 - 43	P 35.5	2.2	16 - 24	C 19.7	1.1	19 - 29	P 24.3	1.6	15
Ortho Vitros & Ortho Vitros not DT or ECi	7	7 - 15	C 10.8	1.1	6 - 14	C 10.3	1.3	28 - 42	P 34.6	2.0	15 - 23	C 19.0	1.7	19 - 28	P 23.5	2.5	20
Roche Cobas & Roche Cobas Integra	8	9 - 17	C 13.0	1.0	9 - 17	C 12.8	1.2	30 - 45	P 37.3	2.0	18 - 27	P 22.5	1.7	21 - 32	P 26.5	1.9	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	8 - 16	C 11.6	1.5	7 - 15	C 11.1	1.6	30 - 44	P 36.9	2.7	17 - 25	P 21.2	1.7	20 - 30	P 25.4	2.1	14
Siemens ECO2 & Siemens Dimension EXL	10	11 - 19	C 14.8	1.5	10 - 18	C 14.3	1.5	32 - 48	P 40.4	2.3	20 - 31	P 25.5	1.9	24 - 36	P 29.7	2.1	56
Siemens ECO2 & Siemens Dimension Xpand	11	11 - 19	C 15.1	0.8	10 - 18	C 14.1	1.1	32 - 48	P 39.7	2.3	20 - 30	P 24.6	0.7	24 - 36	P 29.7	1.0	17
Initial Grouping by Reagent																	
Abbott Architect	12	7 - 15	C 11.1	1.6	7 - 15	C 11.4	1.3	29 - 43	P 36.1	1.9	17 - 25	P 20.8	2.2	21 - 31	P 25.8	1.8	17
Alfa Wassermann	13	9 - 17	C 13.2	1.8	9 - 17	C 13.4	1.6	32 - 47	P 39.5	2.5	20 - 29	P 24.4	1.9	23 - 35	P 29.2	2.3	18
Beckman Coulter	14	10 - 18	C 13.5	1.4	9 - 17	C 12.8	1.3	31 - 46	P 38.3	3.0	19 - 28	P 23.4	1.6	22 - 34	P 28.0	2.2	24
Beckman Olympus	15	9 - 17	C 13.2	1.9	8 - 16	C 12.3	1.7	33 - 49	P 40.7	3.2	19 - 28	P 23.5	2.1	23 - 35	P 28.8	2.5	48
Carolina	16	10 - 18	C 13.7	2.1	8 - 16	C 12.3	1.8	30 - 44	P 37.0	3.9	19 - 28	P 23.4	1.9	22 - 33	P 27.1	2.4	16
Ortho Vitros	17	6 - 14	C 10.3	1.4	6 - 14	C 10.4	1.1	28 - 42	P 34.9	2.2	15 - 23	C 19.4	1.5	19 - 29	P 23.8	2.2	40
Roche Cobas	18	8 - 16	C 12.4	1.4	8 - 16	C 12.0	1.4	30 - 45	P 37.3	2.3	18 - 27	P 22.1	1.9	21 - 31	P 26.1	2.0	33
Siemens ECO2	19	11 - 19	C 14.8	1.5	10 - 18	C 14.2	1.5	32 - 48	P 40.0	2.5	20 - 30	P 25.2	1.9	24 - 36	P 29.6	2.1	80
Initial Grouping by Sensitivity or Principle																	
UV/kinetic (rate) methods	20	9 - 17	C 12.8	1.6	8 - 16	C 12.3	1.6	29 - 44	P 36.8	2.8	18 - 27	P 22.2	1.9	21 - 32	P 26.3	2.3	43
Diluted ISE results	21	9 - 17	C 12.6	1.9	8 - 16	C 12.4	1.7	30 - 45	P 37.6	3.3	18 - 27	P 22.5	2.5	22 - 33	P 27.3	2.9	48
UV/bichromatic methods	22	9 - 17	C 13.2	1.9	9 - 17	C 12.6	1.7	32 - 48	P 40.1	3.4	19 - 28	P 23.7	2.2	23 - 35	P 28.8	2.8	73
UV/uncorrected methods	23	9 - 17	C 13.1	2.4	9 - 17	C 12.7	2.1	29 - 43	P 36.2	3.5	18 - 27	P 22.5	2.6	21 - 32	P 26.3	2.9	53
Undiluted ISE results	24	6 - 14	C 10.3	1.4	6 - 14	C 10.4	1.1	28 - 42	P 34.9	2.2	15 - 23	C 19.4	1.5	19 - 29	P 23.8	2.2	40
All other methods	25	11 - 19	C 14.8	1.5	10 - 18	C 14.2	1.5	32 - 48	P 40.0	2.5	20 - 30	P 25.2	1.9	24 - 36	P 29.6	2.1	80
Total Population																	
Whole Population	26	9 - 17	C 13.1	2.2	9 - 17	C 12.6	2.0	30 - 46	P 38.0	3.6	18 - 28	P 23.0	2.7	22 - 33	P 27.4	3.2	340

Bilirubin, Total

Initial Grouping by Reagent and Instrument																
Abbott Architect & Abbott Architect c, ci, i	1	0.1 - 0.9	C 0.52	0.04	0.1 - 0.9	C 0.46	0.05	2.4 - 3.6	P 2.98	0.24	1.1 - 1.9	C 1.48	0.11	1.6 - 2.4	P 2.02	0.15	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	0.5 - 1.3	C 0.85	0.06	0.2 - 1.0	C 0.58	0.05	3.1 - 4.7	P 3.88	0.19	1.5 - 2.3	C 1.88	0.11	2.1 - 3.1	P 2.58	0.12	19
Beckman Coulter & Beck Coult Unicel DXC	3	0.3 - 1.1	C 0.7	0.15	0.3 - 1.1	C 0.7	0.09	3.1 - 4.7	P 3.89	0.19	1.5 - 2.3	C 1.92	0.16	2.1 - 3.1	P 2.6	0.2	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	0.2 - 1.0	C 0.59	0.07	0.1 - 0.9	C 0.51	0.04	2.7 - 4.1	P 3.38	0.15	1.3 - 2.1	C 1.65	0.08	1.8 - 2.7	P 2.26	0.11	25
Beckman Olympus & Beckman AU 480	5	0.2 - 1.0	C 0.58	0.04	0.1 - 0.9	C 0.49	0.05	2.8 - 4.1	P 3.44	0.29	1.2 - 2.0	C 1.62	0.1	1.8 - 2.7	P 2.24	0.12	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	0.2 - 1.0	C 0.61	0.12	0 - 0.7	C 0.32	0.13	2.7 - 4.1	P 3.42	0.31	1.1 - 1.9	C 1.54	0.17	1.8 - 2.7	P 2.21	0.22	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	0.3 - 1.1	C 0.65	0.14	0 - 0.8	C 0.41	0.12	2.8 - 4.3	P 3.55	0.24	1.3 - 2.1	C 1.66	0.13	1.9 - 2.8	P 2.35	0.16	22
Siemens Dimension & Siemens Dimension EXL	8	0 - 0.8	C 0.44	0.06	0 - 0.8	C 0.43	0.06	2.6 - 3.8	P 3.19	0.17	1.1 - 1.9	C 1.5	0.11	1.7 - 2.5	P 2.09	0.14	54
Siemens Dimension & Siemens Dimension Xpand	9	0.1 - 0.9	C 0.46	0.07	0 - 0.8	C 0.43	0.09	2.5 - 3.8	P 3.14	0.42	1.1 - 1.9	C 1.47	0.17	1.6 - 2.4	P 2.04	0.27	18

Initial Grouping by Reagent																	
Abbott Architect	10	0.1 - 0.9	C 0.52	0.04	0.1 - 0.9	C 0.46	0.05	2.4 - 3.6	P 2.98	0.24	1.1 - 1.9	C 1.48	0.11	1.6 - 2.4	P 2.02	0.15	18
Alfa Wassermann	11	0.5 - 1.3	C 0.86	0.06	0.2 - 1.0	C 0.58	0.05	3.1 - 4.7	P 3.89	0.19	1.5 - 2.3	C 1.87	0.1	2.1 - 3.1	P 2.59	0.12	20
Beckman Coulter	12	0.3 - 1.1	C 0.67	0.13	0.2 - 1.0	C 0.63	0.12	3.0 - 4.5	P 3.71	0.31	1.4 - 2.2	C 1.82	0.19	2.0 - 3.0	P 2.48	0.23	24
Beckman Olympus	13	0.2 - 1.0	C 0.58	0.06	0.1 - 0.9	C 0.5	0.04	2.7 - 4.1	P 3.41	0.22	1.2 - 2.0	C 1.64	0.08	1.8 - 2.7	P 2.25	0.11	47
Carolina	14	0.3 - 1.1	C 0.65	0.08	0.2 - 1.0	C 0.6	0.18	3.0 - 4.4	P 3.69	0.34	1.6 - 2.4	P 2.02	0.51	1.9 - 2.9	P 2.41	0.14	13
Ortho Vitros	15	0.2 - 1.0	C 0.63	0.13	0 - 0.8	C 0.37	0.13	2.8 - 4.2	P 3.48	0.28	1.2 - 2.0	C 1.6	0.16	1.8 - 2.7	P 2.28	0.2	45
Pointe Scientific	16	0.2 - 1.0	C 0.56	0.18	0.1 - 0.9	C 0.49	0.09	2.7 - 4.0	P 3.35	0.21	1.2 - 2.0	C 1.58	0.16	1.8 - 2.7	P 2.22	0.15	11
Roche Cobas	17	0 - 0.8	C 0.4	0.05	0 - 0.8	C 0.41	0.06	2.4 - 3.5	P 2.94	0.28	1.0 - 1.8	C 1.38	0.17	1.5 - 2.3	C 1.9	0.21	23
Roche Cobas BILTS	18	0 - 0.8	C 0.41	0.02	0 - 0.8	C 0.39	0.04	2.3 - 3.5	P 2.9	0.18	0.9 - 1.7	C 1.34	0.08	1.5 - 2.3	C 1.89	0.1	16
Siemens Dimension	19	0 - 0.8	C 0.44	0.06	0 - 0.8	C 0.43	0.07	2.5 - 3.8	P 3.17	0.26	1.1 - 1.9	C 1.48	0.13	1.7 - 2.5	P 2.07	0.18	80
Initial Grouping by Sensitivity or Principle																	
Oxidation	20	0.2 - 1.0	C 0.58	0.08	0.2 - 1.0	C 0.57	0.07	2.8 - 4.2	P 3.46	0.35	1.3 - 2.1	C 1.67	0.21	1.8 - 2.8	P 2.31	0.27	12
Diazonium ion	21	0.2 - 1.0	C 0.59	0.1	0 - 0.9	C 0.45	0.12	2.7 - 4.1	P 3.38	0.33	1.2 - 2.0	C 1.63	0.25	1.8 - 2.7	P 2.23	0.2	132
Diazo/DMSO	22	0.3 - 1.1	C 0.74	0.18	0.1 - 0.9	C 0.54	0.1	2.9 - 4.4	P 3.66	0.33	1.3 - 2.1	C 1.74	0.22	2.0 - 2.9	P 2.44	0.23	35
Diazo/caffeine-benzoate	23	0.1 - 0.9	C 0.5	0.13	0.1 - 0.9	C 0.47	0.12	2.6 - 3.9	P 3.28	0.35	1.2 - 2.0	C 1.55	0.2	1.7 - 2.6	P 2.16	0.25	115
Diazo/surfactant	24	0.1 - 0.9	C 0.48	0.16	0 - 0.8	C 0.43	0.09	2.4 - 3.6	P 3.04	0.39	1.0 - 1.8	C 1.42	0.21	1.6 - 2.4	C 1.98	0.27	50
Total Population																	
Whole Population	25	0.2 - 1.0	C 0.56	0.15	0.1 - 0.9	C 0.47	0.12	2.7 - 4.0	P 3.33	0.38	1.2 - 2.0	C 1.59	0.24	1.8 - 2.6	P 2.19	0.26	349

Calcium

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	6.6 - 8.6	C 7.57	0.12	6.0 - 8.0	C 6.95	0.08	12.7 - 14.7	C 13.66	0.15	8.6 - 10.6	C 9.6	0.12	9.9 - 11.9	C 10.94	0.13	17
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	6.6 - 8.6	C 7.57	0.27	6.3 - 8.3	C 7.31	0.19	12.5 - 14.5	C 13.49	0.35	8.9 - 10.9	C 9.88	0.29	10.3 - 12.3	C 11.29	0.29	19
Beckman Olympus Arsenazo & Beck Olym AU 400/600/5400	3	6.6 - 8.6	C 7.57	0.18	5.9 - 7.9	C 6.86	0.18	12.2 - 14.2	C 13.24	0.32	8.5 - 10.5	C 9.45	0.22	9.7 - 11.7	C 10.73	0.23	24
Beckman Olympus Arsenazo & Beckman AU 480	4	6.7 - 8.7	C 7.7	0.21	5.9 - 7.9	C 6.94	0.17	12.5 - 14.5	C 13.45	0.29	8.6 - 10.6	C 9.57	0.24	9.9 - 11.9	C 10.85	0.25	19
Ortho Vitros & Ortho Vitros 3600, 5600	5	6.4 - 8.4	C 7.43	0.13	6.1 - 8.1	C 7.06	0.15	12.3 - 14.3	C 13.27	0.18	8.8 - 10.8	C 9.77	0.15	10.0 - 12.0	C 11.02	0.15	16
Ortho Vitros & Ortho Vitros not DT or ECi	6	6.3 - 8.3	C 7.32	0.19	6.0 - 8.0	C 6.95	0.19	12.4 - 14.4	C 13.35	0.26	8.8 - 10.8	C 9.81	0.21	10.1 - 12.1	C 11.11	0.22	22
Roche Cobas & Roche Cobas Integra	7	6.4 - 8.4	C 7.37	0.22	6.1 - 8.1	C 7.06	0.2	12.8 - 14.8	C 13.79	0.38	8.8 - 10.8	C 9.75	0.23	10.1 - 12.1	C 11.06	0.5	14
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	6.4 - 8.4	C 7.43	0.2	6.1 - 8.1	C 7.05	0.2	12.7 - 14.7	C 13.68	0.37	8.7 - 10.7	C 9.73	0.27	10.1 - 12.1	C 11.07	0.32	16
Siemens OCPC & Siemens Dimension EXL	9	6.0 - 8.0	C 6.99	0.17	6.0 - 8.0	C 6.96	0.17	12.5 - 14.5	C 13.51	0.28	8.5 - 10.5	C 9.54	0.18	9.9 - 11.9	C 10.86	0.2	56
Siemens OCPC & Siemens Dimension Xpand	10	5.9 - 7.9	C 6.94	0.15	5.9 - 7.9	C 6.89	0.2	12.6 - 14.6	C 13.64	0.24	8.5 - 10.5	C 9.53	0.15	9.9 - 11.9	C 10.88	0.16	18
Initial Grouping by Reagent																	
Abbott	11	6.6 - 8.6	C 7.57	0.12	6.0 - 8.0	C 6.95	0.08	12.7 - 14.7	C 13.66	0.15	8.6 - 10.6	C 9.6	0.12	9.9 - 11.9	C 10.94	0.13	17
Alfa Wassermann	12	6.6 - 8.6	C 7.57	0.26	6.3 - 8.3	C 7.3	0.19	12.5 - 14.5	C 13.51	0.34	8.9 - 10.9	C 9.89	0.28	10.3 - 12.3	C 11.29	0.29	20
Beckman Coulter	13	6.5 - 8.5	C 7.49	0.27	5.9 - 7.9	C 6.94	0.21	12.3 - 14.3	C 13.34	0.37	8.6 - 10.6	C 9.56	0.24	9.8 - 11.8	C 10.79	0.26	17
Beckman Olympus Arsenazo	14	6.6 - 8.6	C 7.62	0.21	5.9 - 7.9	C 6.88	0.18	12.3 - 14.3	C 13.33	0.32	8.5 - 10.5	C 9.5	0.24	9.8 - 11.8	C 10.78	0.24	45
Carolina	15	6.7 - 8.7	C 7.68	0.3	5.9 - 7.9	C 6.85	0.28	12.0 - 14.0	C 13.0	0.67	8.5 - 10.5	C 9.48	0.39	9.7 - 11.7	C 10.73	0.44	13
Ortho Vitros	16	6.4 - 8.4	C 7.37	0.17	6.0 - 8.0	C 7.0	0.18	12.3 - 14.3	C 13.32	0.23	8.8 - 10.8	C 9.79	0.18	10.1 - 12.1	C 11.07	0.19	44
Roche Cobas	17	6.4 - 8.4	C 7.41	0.2	6.1 - 8.1	C 7.07	0.19	12.7 - 14.7	C 13.72	0.36	8.7 - 10.7	C 9.74	0.23	10.1 - 12.1	C 11.06	0.38	38
Siemens OCPC	18	6.0 - 8.0	C 7.0	0.22	6.0 - 8.0	C 6.95	0.19	12.6 - 14.6	C 13.55	0.28	8.6 - 10.6	C 9.55	0.18	9.9 - 11.9	C 10.87	0.2	83
Initial Grouping by Sensitivity or Principle																	
Arsenazo-based	19	6.5 - 8.5	C 7.52	0.27	6.0 - 8.0	C 6.98	0.26	12.3 - 14.3	C 13.32	0.4	8.6 - 10.6	C 9.63	0.3	9.9 - 11.9	C 10.88	0.36	206
OCPC (o-cresolphth complex)	20	6.2 - 8.2	C 7.15	0.3	6.0 - 8.0	C 6.98	0.2	12.6 - 14.6	C 13.56	0.35	8.6 - 10.6	C 9.59	0.23	9.9 - 11.9	C 10.92	0.28	131
Total Population																	
Whole Population	21	6.4 - 8.4	C 7.38	0.33	6.0 - 8.0	C 6.98	0.24	12.4 - 14.4	C 13.4	0.4	8.6 - 10.6	C 9.62	0.27	9.9 - 11.9	C 10.89	0.33	354

Chloride

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	86 - 95	P 90.1	0.6	82 - 91	P 86.6	0.7	109 - 121	P 115.1	1.1	93 - 103	P 98.1	1.1	98 - 109	P 103.4	1.0	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	84 - 93	P 88.9	2.2	79 - 87	P 82.8	1.9	116 - 128	P 122.1	1.4	94 - 104	P 98.8	1.6	101 - 111	P 106.1	1.2	18
Beckman Coulter & Beck Coult Unicel DXC	3	85 - 94	P 89.6	1.3	82 - 90	P 86.1	1.0	109 - 121	P 114.9	1.5	93 - 103	P 97.8	1.0	98 - 108	P 103.3	1.3	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	83 - 92	P 87.5	1.2	81 - 89	P 84.8	1.2	109 - 121	P 114.9	1.7	92 - 102	P 97.3	1.2	98 - 108	P 103.0	1.4	29
Beckman Olympus & Beckman AU 480	5	83 - 91	P 87.0	1.0	80 - 89	P 84.7	0.9	109 - 120	P 114.6	1.0	92 - 102	P 96.9	0.9	97 - 108	P 102.6	0.8	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	84 - 93	P 88.8	1.4	81 - 90	P 85.7	1.4	111 - 123	P 117.1	2.2	93 - 103	P 97.8	1.7	99 - 109	P 104.1	1.8	15
Ortho Vitros & Ortho Vitros not DT or ECi	7	84 - 93	P 88.3	1.1	81 - 89	P 85.1	0.8	110 - 122	P 116.2	1.1	92 - 102	P 97.1	1.2	98 - 108	P 103.3	1.2	23
Roche Cobas dil ISE & Roche Cobas Integra	8	79 - 87	P 83.3	1.6	79 - 88	P 83.4	2.3	114 - 125	P 119.5	2.0	93 - 103	P 98.2	2.0	100 - 110	P 104.9	1.9	12
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	9	78 - 86	P 81.7	1.8	75 - 83	P 79.3	1.8	112 - 123	P 117.5	1.1	90 - 99	P 94.3	1.3	97 - 107	P 101.8	0.7	13
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	79 - 87	P 82.9	0.9	78 - 86	P 82.0	0.8	116 - 128	P 122.2	1.5	93 - 103	P 98.3	1.0	101 - 111	P 106.0	0.9	57
Siemens QuickLYTE IMT & Siemens Dimension	11	79 - 87	P 82.7	1.1	78 - 86	P 81.9	1.1	116 - 128	P 121.7	1.7	93 - 103	P 97.8	1.2	100 - 111	P 105.5	1.3	18

Xpand	11	79 - 87	P 82.7	1.1	78 - 86	P 81.9	1.1	116 - 128	P 121.7	1.7	93 - 103	P 97.8	1.2	100 - 111	P 103.5	1.5	16
Initial Grouping by Reagent																	
Abbott	12	86 - 95	P 90.1	0.6	82 - 91	P 86.6	0.7	109 - 121	P 115.1	1.1	93 - 103	P 98.1	1.1	98 - 109	P 103.4	1.0	18
Alfa Wassermann	13	84 - 93	P 88.9	2.2	79 - 87	P 82.8	1.8	116 - 128	P 122.1	1.4	94 - 104	P 98.8	1.6	101 - 111	P 106.1	1.2	19
Beckman Coulter	14	84 - 93	P 88.7	1.7	81 - 90	P 85.6	1.3	109 - 121	P 115.1	1.9	93 - 102	P 97.5	1.3	98 - 108	P 103.3	1.4	26
Beckman Olympus	15	83 - 92	P 87.2	1.2	81 - 89	P 84.8	1.1	109 - 121	P 114.8	1.4	92 - 102	P 97.1	1.1	98 - 108	P 102.9	1.2	52
Ortho Vitros	16	84 - 93	P 88.5	1.2	81 - 90	P 85.3	1.2	111 - 122	P 116.5	1.7	93 - 102	P 97.4	1.5	98 - 109	P 103.6	1.5	44
Roche Cobas dil ISE	17	78 - 86	P 82.3	1.8	77 - 85	P 80.8	2.7	112 - 124	P 118.4	1.7	91 - 101	P 96.1	2.6	98 - 108	P 103.1	2.0	33
Siemens QuickLYTE IMT	18	79 - 87	P 82.7	1.3	78 - 86	P 81.8	1.2	116 - 128	P 122.1	2.2	93 - 103	P 98.2	1.2	101 - 111	P 105.8	1.1	82
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE	19	83 - 92	P 87.8	2.4	80 - 88	P 84.1	2.2	114 - 126	P 119.8	4.6	93 - 103	P 98.1	2.2	100 - 110	P 104.9	2.6	101
Colorimetric	20	85 - 94	P 89.7	3.7	80 - 89	P 84.4	3.4	112 - 123	P 117.4	5.4	94 - 103	P 98.5	2.8	99 - 110	P 104.6	3.0	15
Diluted ISE	21	81 - 90	P 85.5	3.4	79 - 88	P 83.5	2.5	112 - 124	P 118.2	3.8	93 - 102	P 97.6	1.8	99 - 109	P 104.2	2.0	231
Total Population																	
Whole Population	22	82 - 91	P 86.3	3.4	80 - 88	P 83.7	2.5	113 - 125	P 118.6	4.2	93 - 103	P 97.8	2.0	99 - 110	P 104.4	2.2	349

Cholesterol, Total

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	224 - 274	P 249.1	1.9	55 - 67	P 61.0	1.0	228 - 278	P 253.0	2.2	124 - 152	P 137.9	1.7	158 - 193	P 175.8	1.5	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	220 - 269	P 244.5	5.5	56 - 69	P 62.6	1.3	225 - 275	P 249.9	5.1	124 - 151	P 137.7	2.8	158 - 193	P 175.6	3.2	15
Beckman Coulter & Beck Coult Unicel DXC	3	219 - 267	P 242.8	5.5	53 - 64	P 58.4	1.7	229 - 279	P 253.9	6.7	123 - 151	P 137.1	3.2	158 - 193	P 175.1	5.2	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	215 - 263	P 238.9	6.8	51 - 62	P 56.7	2.1	220 - 269	P 244.5	6.0	119 - 145	P 131.9	3.5	153 - 187	P 169.6	4.5	21
Beckman Olympus & Beckman AU 480	5	217 - 265	P 241.3	3.9	51 - 63	P 57.2	1.3	221 - 270	P 245.2	4.7	119 - 146	P 132.5	3.5	154 - 188	P 171.0	3.5	17
Ortho Vitros & Ortho Vitros 3600, 5600	6	239 - 292	P 265.5	9.5	46 - 56	P 51.1	2.9	222 - 272	P 247.1	6.1	116 - 142	P 129.4	3.1	153 - 187	P 169.6	3.8	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	232 - 283	P 257.4	7.9	43 - 52	P 47.7	5.0	218 - 267	P 242.4	6.9	118 - 145	P 131.4	2.9	153 - 187	P 170.4	3.2	20
Roche Cobas & Roche Cobas Integra	8	219 - 268	P 243.7	4.8	54 - 66	P 59.8	1.3	224 - 274	P 249.2	4.7	123 - 151	P 137.2	4.0	157 - 192	P 174.2	5.1	13
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	219 - 268	P 243.5	7.7	55 - 67	P 61.3	2.8	226 - 276	P 251.3	9.0	123 - 151	P 136.9	5.2	157 - 192	P 174.8	5.7	16
Siemens Dimension & Siemens Dimension EXL	10	215 - 263	P 239.4	5.2	52 - 64	P 57.9	2.7	222 - 272	P 246.9	4.5	120 - 147	P 133.3	3.1	154 - 188	P 171.1	3.7	55
Siemens Dimension & Siemens Dimension Xpand	11	215 - 263	P 238.7	8.3	51 - 62	P 56.2	3.7	222 - 271	P 246.5	6.7	119 - 145	P 132.1	4.4	153 - 187	P 170.2	4.0	19
Stering Diagnostic & Other spectrophotometers	12	226 - 277	P 251.6	17.7	57 - 70	P 63.8	4.9	227 - 278	P 252.6	11.5	128 - 157	P 142.3	8.4	158 - 193	P 175.9	11.4	10
Initial Grouping by Reagent																	
Abbott	13	224 - 274	P 249.1	1.9	55 - 67	P 61.0	1.0	228 - 278	P 253.0	2.2	124 - 152	P 137.9	1.7	158 - 193	P 175.8	1.5	18
Alfa Wassermann	14	220 - 269	P 244.5	5.5	56 - 69	P 62.6	1.3	225 - 275	P 249.9	5.1	124 - 151	P 137.7	2.8	158 - 193	P 175.6	3.2	15
Beckman Coulter	15	217 - 266	P 241.5	5.8	52 - 63	P 57.7	1.9	226 - 276	P 251.2	7.5	122 - 149	P 135.3	4.4	156 - 190	P 173.0	5.7	23
Beckman Olympus	16	216 - 264	P 239.9	5.6	51 - 63	P 56.9	1.8	220 - 269	P 244.6	5.4	119 - 145	P 132.2	3.4	153 - 187	P 170.0	4.1	41
Carolina	17	222 - 272	P 247.0	11.2	55 - 67	P 60.6	3.5	231 - 282	P 256.6	13.0	128 - 156	P 142.1	5.8	162 - 198	P 180.3	8.3	14
Ortho Vitros	18	235 - 287	P 260.7	9.3	44 - 54	P 49.0	4.4	220 - 269	P 244.5	7.2	117 - 144	P 130.5	3.3	153 - 187	P 170.1	3.7	41
Pointe Scientific	19	235 - 288	P 261.5	13.6	56 - 68	P 62.1	2.0	238 - 291	P 264.3	10.2	128 - 156	P 142.2	3.9	163 - 199	P 181.3	4.3	15
Roche Cobas	20	220 - 269	P 244.2	6.6	55 - 67	P 61.2	2.4	226 - 276	P 250.9	7.1	123 - 151	P 137.2	4.3	156 - 191	P 173.7	7.8	38
Siemens Dimension	21	216 - 264	P 239.7	6.7	52 - 63	P 57.5	3.2	223 - 272	P 247.4	6.1	120 - 147	P 133.2	3.9	154 - 188	P 171.2	4.3	82
Stering Diagnostic	22	223 - 273	P 248.3	16.1	57 - 69	P 63.1	4.7	227 - 277	P 251.8	11.9	126 - 154	P 140.3	8.1	158 - 193	P 175.2	10.3	16
Initial Grouping by Sensitivity or Principle																	
All enzymatic cholesterol	23	222 - 271	P 246.3	11.5	52 - 64	P 58.2	5.1	225 - 275	P 249.8	9.5	122 - 149	P 135.8	6.3	156 - 191	P 173.6	7.0	344
Total Population																	
Whole Population	24	222 - 271	P 246.2	11.5	52 - 64	P 58.2	5.1	225 - 275	P 249.8	9.5	122 - 149	P 135.7	6.3	156 - 191	P 173.6	7.0	345

Creatinine

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	0.4 - 1.0	C 0.72	0.04	0.2 - 0.8	C 0.5	0.0	4.6 - 6.3	P 5.45	0.1	2.0 - 2.7	P 2.38	0.05	2.9 - 3.9	P 3.41	0.07	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	0.3 - 0.9	C 0.62	0.06	0.4 - 1.0	C 0.65	0.06	4.1 - 5.6	P 4.88	0.22	2.1 - 2.8	P 2.47	0.12	2.8 - 3.8	P 3.32	0.15	20
Beckman Olympus & Beck Olym AU 400/600/5400	3	0.2 - 0.8	C 0.46	0.06	0.2 - 0.8	C 0.47	0.05	4.1 - 5.6	P 4.88	0.18	2.0 - 2.7	P 2.32	0.11	2.7 - 3.7	P 3.2	0.1	26
Beckman Olympus & Beckman AU 480	4	0.2 - 0.8	C 0.49	0.05	0.2 - 0.8	C 0.48	0.04	4.2 - 5.7	P 4.92	0.18	2.0 - 2.7	P 2.35	0.07	2.7 - 3.7	P 3.22	0.07	21
Ortho Vitros 1-slide enz & Ortho Vitros not DT or ECi	5	0.3 - 0.9	C 0.63	0.04	0.3 - 0.9	C 0.57	0.04	4.2 - 5.7	P 4.92	0.13	2.0 - 2.7	P 2.36	0.05	2.8 - 3.7	P 3.25	0.08	11
Roche Cobas & Roche Cobas Integra	6	0.2 - 0.8	C 0.52	0.04	0.2 - 0.8	C 0.49	0.07	3.9 - 5.3	P 4.62	0.2	2.0 - 2.7	P 2.32	0.08	2.7 - 3.6	P 3.16	0.22	14
Roche Cobas & Roche e/c, 1XX, X000, Elec series	7	0.2 - 0.8	C 0.46	0.11	0.1 - 0.7	C 0.44	0.07	4.0 - 5.4	P 4.68	0.3	1.9 - 2.6	P 2.29	0.1	2.7 - 3.6	P 3.14	0.17	16
Siemens Dimension & Siemens Dimension EXL	8	0.2 - 0.8	C 0.52	0.05	0.1 - 0.7	C 0.44	0.06	4.4 - 6.0	P 5.22	0.13	2.0 - 2.7	P 2.38	0.07	2.8 - 3.8	P 3.33	0.09	41
Siemens Dimension & Siemens Dimension Xpand	9	0.2 - 0.8	C 0.54	0.05	0.1 - 0.7	C 0.43	0.05	4.5 - 6.0	P 5.25	0.13	2.0 - 2.7	P 2.38	0.05	2.8 - 3.9	P 3.35	0.13	13
Initial Grouping by Reagent																	
Abbott Architect	10	0.4 - 1.0	C 0.72	0.04	0.2 - 0.8	C 0.5	0.0	4.6 - 6.3	P 5.45	0.1	2.0 - 2.7	P 2.38	0.05	2.9 - 3.9	P 3.41	0.07	18
Alfa Wassermann	11	0.3 - 0.9	C 0.62	0.06	0.4 - 1.0	C 0.66	0.06	4.1 - 5.6	P 4.88	0.22	2.1 - 2.9	P 2.48	0.12	2.8 - 3.8	P 3.32	0.15	21
Beckman Coulter	12	0.2 - 0.8	C 0.48	0.04	0.2 - 0.8	C 0.46	0.06	4.3 - 5.8	P 5.0	0.22	2.0 - 2.7	P 2.36	0.1	2.8 - 3.7	P 3.25	0.12	17

Beckman Olympus	13	0.2 - 0.8	C 0.47	0.06	0.2 - 0.8	C 0.47	0.05	4.2 - 5.6	P 4.9	0.18	2.0 - 2.7	P 2.33	0.09	2.7 - 3.7	P 3.21	0.08	50
Carolina	14	0.3 - 0.9	C 0.64	0.17	0.3 - 0.9	C 0.61	0.08	4.0 - 5.5	P 4.74	0.36	2.0 - 2.7	P 2.36	0.15	2.7 - 3.6	P 3.13	0.22	16
Ortho Vitros 1-slide enz	15	0.3 - 0.9	C 0.6	0.05	0.3 - 0.9	C 0.55	0.05	4.2 - 5.6	P 4.91	0.1	2.0 - 2.7	P 2.39	0.06	2.8 - 3.8	P 3.28	0.08	24
Ortho Vitros IDMS traceable	16	0.3 - 0.9	C 0.61	0.04	0.2 - 0.8	C 0.54	0.05	4.1 - 5.6	P 4.85	0.1	2.0 - 2.7	P 2.35	0.05	2.8 - 3.7	P 3.25	0.08	19
Pointe Scientific	17	0.3 - 0.9	C 0.59	0.07	0.3 - 0.9	C 0.61	0.08	4.2 - 5.7	P 4.92	0.24	2.0 - 2.7	P 2.33	0.13	2.8 - 3.8	P 3.31	0.14	10
Roche Cobas	18	0.2 - 0.8	C 0.49	0.1	0.2 - 0.8	C 0.46	0.07	3.9 - 5.3	P 4.63	0.26	1.9 - 2.6	P 2.29	0.1	2.7 - 3.6	P 3.14	0.19	37
Siemens Dimension	19	0.2 - 0.8	C 0.53	0.05	0.1 - 0.7	C 0.44	0.06	4.4 - 6.0	P 5.23	0.13	2.0 - 2.7	P 2.38	0.07	2.8 - 3.8	P 3.34	0.1	58
Siemens EZCR/IDMS Traceable	20	0.2 - 0.8	C 0.52	0.04	0.2 - 0.8	C 0.52	0.07	4.4 - 5.9	P 5.15	0.12	2.0 - 2.7	P 2.39	0.05	2.8 - 3.8	P 3.32	0.08	12
Synermed	21	0.2 - 0.8	C 0.46	0.22	0.4 - 1.0	C 0.65	0.1	3.7 - 5.0	P 4.33	0.35	1.9 - 2.5	P 2.2	0.12	2.5 - 3.4	P 2.96	0.28	10
Initial Grouping by Sensitivity or Principle																	
Enzymatic methods	22	0.2 - 0.8	C 0.53	0.08	0.2 - 0.8	C 0.48	0.07	4.4 - 5.9	P 5.15	0.18	2.0 - 2.7	P 2.39	0.07	2.8 - 3.8	P 3.32	0.1	94
Nonenzymatic rate	23	0.2 - 0.8	C 0.54	0.13	0.2 - 0.8	C 0.52	0.1	4.1 - 5.6	P 4.87	0.33	2.0 - 2.7	P 2.34	0.13	2.7 - 3.7	P 3.22	0.18	211
IDMS traceable	24	0.3 - 0.9	C 0.55	0.08	0.2 - 0.8	C 0.53	0.07	4.2 - 5.6	P 4.9	0.32	2.0 - 2.7	P 2.36	0.09	2.8 - 3.7	P 3.26	0.12	51
Total Population																	
Whole Population	25	0.2 - 0.8	C 0.54	0.11	0.2 - 0.8	C 0.51	0.09	4.2 - 5.7	P 4.95	0.32	2.0 - 2.7	P 2.36	0.11	2.8 - 3.7	P 3.25	0.16	368

Glucose

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	46 - 58	C 52.0	0.8	42 - 54	C 48.2	0.7	222 - 271	P 246.3	3.3	114 - 140	P 127.1	1.7	149 - 182	P 165.5	2.4	19
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	54 - 66	P 60.2	2.0	47 - 59	C 53.2	1.5	224 - 274	P 249.2	6.1	120 - 146	P 132.8	4.0	155 - 189	P 172.1	4.7	19
Beckman Olympus & Beck Olym AU 400/600/5400	3	47 - 59	C 52.9	1.2	44 - 56	C 50.0	1.2	221 - 270	P 245.7	6.6	116 - 142	P 128.9	3.3	151 - 185	P 167.9	3.6	24
Beckman Olympus & Beckman AU 480	4	48 - 60	C 53.8	1.4	45 - 57	C 50.7	1.5	225 - 275	P 249.7	7.7	118 - 144	P 131.0	3.5	153 - 187	P 170.4	4.5	21
Ortho Vitros & Ortho Vitros 3600, 5600	5	51 - 63	C 57.4	1.6	38 - 50	C 44.1	1.2	219 - 268	P 243.4	3.8	109 - 133	P 120.9	2.0	144 - 176	P 159.8	2.6	16
Ortho Vitros & Ortho Vitros not DT or ECi	6	51 - 63	C 57.4	1.7	38 - 50	C 44.2	1.7	219 - 268	P 243.3	3.8	109 - 133	P 121.0	2.9	144 - 176	P 160.3	3.2	23
Roche Cobas & Roche Cobas Integra	7	47 - 59	C 52.8	2.1	44 - 56	C 50.4	1.3	220 - 269	P 244.6	6.7	117 - 143	P 130.1	3.8	153 - 186	P 169.5	5.5	14
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	48 - 60	C 53.6	1.2	44 - 56	C 49.9	1.2	223 - 272	P 247.6	7.6	116 - 142	P 128.8	2.9	152 - 186	P 169.1	3.4	16
Siemens HK & Siemens Dimension EXL	9	56 - 68	P 62.2	1.7	46 - 58	C 52.2	1.3	226 - 276	P 250.9	3.7	118 - 144	P 131.3	2.4	154 - 189	P 171.5	2.4	27
Siemens HK, GLUC & Siemens Dimension EXL	10	56 - 68	P 61.7	1.3	46 - 58	C 51.8	1.4	225 - 274	P 249.5	4.9	119 - 145	P 131.9	3.0	154 - 188	P 170.7	3.0	30
Initial Grouping by Reagent																	
Abbott	11	46 - 58	C 52.0	0.8	42 - 54	C 48.2	0.7	222 - 271	P 246.3	3.3	114 - 140	P 127.1	1.7	149 - 182	P 165.5	2.4	19
Alfa Wassermann	12	54 - 66	P 60.2	1.9	47 - 59	C 53.2	1.5	224 - 274	P 249.3	6.0	120 - 146	P 132.8	3.9	155 - 189	P 172.1	4.6	20
Beckman HK	13	47 - 59	C 53.4	1.4	44 - 56	C 50.1	1.7	223 - 273	P 248.3	5.1	117 - 143	P 130.4	3.7	153 - 187	P 169.9	4.5	14
Beckman Olympus	14	47 - 59	C 53.3	1.4	44 - 56	C 50.3	1.3	223 - 272	P 247.5	7.1	117 - 143	P 129.7	3.5	152 - 186	P 169.0	4.1	49
Carolina HK	15	52 - 64	C 58.3	4.2	45 - 57	C 50.6	2.5	220 - 269	P 244.6	8.8	116 - 142	P 129.0	5.9	150 - 183	P 166.7	6.7	12
Ortho Vitros	16	52 - 64	C 57.6	1.9	38 - 50	C 44.4	1.8	219 - 268	P 243.4	3.9	109 - 133	P 121.1	2.5	144 - 176	P 160.3	3.0	45
Roche Cobas	17	47 - 59	C 53.4	1.6	44 - 56	C 50.1	1.3	222 - 271	P 246.2	7.1	117 - 142	P 129.5	3.4	152 - 186	P 169.2	4.5	39
Siemens HK	18	55 - 68	P 61.6	2.8	46 - 58	C 52.1	1.6	225 - 275	P 250.3	4.2	118 - 144	P 131.3	2.7	154 - 188	P 171.0	3.2	44
Siemens HK, GLUC	19	56 - 68	P 62.1	1.5	46 - 58	C 52.1	1.5	225 - 275	P 250.1	5.0	119 - 145	P 132.1	2.9	154 - 188	P 171.2	3.1	41
Sterling Diagnostic	20	52 - 64	C 58.0	2.1	45 - 57	C 51.3	2.1	222 - 271	P 246.6	6.7	120 - 147	P 133.8	4.1	151 - 185	P 167.8	3.1	12
Initial Grouping by Sensitivity or Principle																	
HexoKinase (HK)	21	51 - 63	C 56.9	4.6	45 - 57	C 50.9	2.0	223 - 272	P 247.6	6.8	117 - 143	P 130.1	3.8	152 - 186	P 169.2	4.7	256
HexoKinase Alfa Wasserman and related	22	54 - 66	P 60.2	1.9	47 - 59	C 53.2	1.5	224 - 274	P 249.3	6.0	120 - 146	P 132.8	3.9	155 - 189	P 172.1	4.6	20
Glucose Oxidase (GO)	23	51 - 63	C 57.3	2.7	42 - 54	C 47.8	4.4	223 - 272	P 247.4	8.6	114 - 140	P 126.9	7.8	149 - 182	P 165.8	8.4	81
Total Population																	
Whole Population	24	51 - 63	C 57.2	4.2	44 - 56	C 50.4	3.1	223 - 273	P 247.8	7.4	117 - 143	P 129.6	5.4	152 - 186	P 168.7	6.1	370

Phosphorus

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	1.5 - 2.3	C 1.93	0.11	1.1 - 1.9	C 1.53	0.1	5.0 - 6.7	P 5.85	0.19	2.8 - 3.7	P 3.25	0.14	3.5 - 4.7	P 4.1	0.14	14
Beckman Olympus no blank & Beck Olym AU 400/600/5400	2	1.5 - 2.4	C 1.95	0.13	1.2 - 2.0	C 1.55	0.12	5.0 - 6.8	P 5.93	0.2	2.8 - 3.9	P 3.35	0.15	3.6 - 4.9	P 4.23	0.18	12
Beckman Olympus no blank & Beckman AU 480	3	1.6 - 2.4	C 1.99	0.1	1.2 - 2.0	C 1.58	0.07	5.1 - 6.9	P 6.04	0.21	2.9 - 3.9	P 3.38	0.11	3.6 - 4.9	P 4.24	0.14	12
Ortho Vitros & Ortho Vitros 3600, 5600	4	2.0 - 2.8	C 2.37	0.11	1.3 - 2.1	C 1.74	0.1	5.0 - 6.8	P 5.93	0.18	2.9 - 3.9	P 3.37	0.12	3.6 - 4.8	P 4.19	0.14	14
Ortho Vitros & Ortho Vitros not DT or ECi	5	1.9 - 2.7	C 2.31	0.15	1.3 - 2.1	C 1.74	0.13	5.1 - 6.9	P 5.96	0.2	2.9 - 4.0	P 3.44	0.16	3.6 - 4.9	P 4.25	0.18	15
Roche Cobas & Roche e/c, 1XX, X000, Elec series	6	1.6 - 2.4	C 2.02	0.1	1.2 - 2.0	C 1.57	0.09	5.2 - 7.0	P 6.1	0.33	2.9 - 3.9	P 3.4	0.15	3.6 - 4.9	P 4.28	0.17	11
Siemens Dimension & Siemens Dimension EXL	7	1.9 - 2.7	C 2.3	0.12	1.3 - 2.1	C 1.71	0.08	5.2 - 7.1	P 6.17	0.14	3.0 - 4.1	P 3.55	0.1	3.8 - 5.1	P 4.43	0.11	53
Siemens Dimension & Siemens Dimension Xpand	8	2.0 - 2.8	C 2.41	0.19	1.3 - 2.1	C 1.73	0.11	5.3 - 7.2	P 6.27	0.2	3.1 - 4.1	P 3.59	0.14	3.8 - 5.2	P 4.52	0.15	10
Initial Grouping by Reagent																	
Abbott Architect	9	1.5 - 2.3	C 1.93	0.11	1.1 - 1.9	C 1.53	0.1	5.0 - 6.7	P 5.85	0.19	2.8 - 3.7	P 3.25	0.14	3.5 - 4.7	P 4.1	0.14	14
Beckman Olympus blanked	10	1.5 - 2.3	C 1.92	0.13	1.1 - 1.9	C 1.5	0.09	5.0 - 6.8	P 5.94	0.26	2.8 - 3.8	P 3.33	0.16	3.5 - 4.8	P 4.17	0.17	19
Beckman Olympus no blank	11	1.6 - 2.4	C 1.97	0.12	1.2 - 2.0	C 1.57	0.09	5.1 - 6.9	P 5.99	0.22	2.9 - 3.9	P 3.37	0.13	3.6 - 4.9	P 4.24	0.16	25
Beckman Synchron PHS	12	1.7 - 2.5	C 2.09	0.19	1.2 - 2.0	C 1.59	0.03	5.2 - 7.1	P 6.17	0.2	3.0 - 4.0	P 3.49	0.08	3.7 - 5.0	P 4.37	0.09	10

Ortho Vitros	13	1.9 - 2.7	C 2.34	0.13	1.4 - 2.2	C 1.75	0.11	5.1 - 6.8	P 5.95	0.19	2.9 - 3.9	P 3.41	0.14	3.6 - 4.9	P 4.22	0.16	33
Roche Cobas	14	1.6 - 2.4	C 2.01	0.13	1.2 - 2.0	C 1.57	0.09	5.2 - 7.0	P 6.06	0.3	2.9 - 3.9	P 3.41	0.15	3.6 - 4.9	P 4.26	0.18	21
Siemens Dimension	15	1.9 - 2.7	C 2.31	0.15	1.3 - 2.1	C 1.71	0.1	5.3 - 7.1	P 6.19	0.17	3.0 - 4.1	P 3.55	0.12	3.8 - 5.1	P 4.44	0.13	71
Initial Grouping by Sensitivity or Principle																	
UV-uncorrected	16	1.6 - 2.4	C 1.99	0.18	1.2 - 2.0	C 1.61	0.14	5.3 - 7.2	P 6.28	0.38	3.0 - 4.0	P 3.52	0.26	3.7 - 5.0	P 4.37	0.24	13
UV-bichromatic-sam blanked	17	1.8 - 2.6	C 2.17	0.23	1.2 - 2.0	C 1.64	0.13	5.2 - 7.0	P 6.09	0.26	2.9 - 4.0	P 3.47	0.19	3.7 - 5.0	P 4.34	0.2	133
UV-bichromatic-no sam blks	18	1.5 - 2.3	C 1.93	0.17	1.2 - 2.0	C 1.58	0.13	5.0 - 6.8	P 5.94	0.22	2.9 - 3.9	P 3.37	0.13	3.6 - 4.9	P 4.24	0.17	34
UV-just sample blanked	19	1.7 - 2.5	C 2.09	0.19	1.2 - 2.0	C 1.59	0.03	5.2 - 7.1	P 6.17	0.2	3.0 - 4.0	P 3.49	0.08	3.7 - 5.0	P 4.37	0.09	10
UV-rate	20	1.7 - 2.5	C 2.14	0.19	1.3 - 2.1	C 1.65	0.07	5.3 - 7.2	P 6.24	0.32	3.0 - 4.0	P 3.5	0.17	3.7 - 5.1	P 4.41	0.22	15
Visible	21	2.0 - 2.8	C 2.35	0.14	1.3 - 2.1	C 1.73	0.13	5.1 - 6.9	P 5.98	0.24	2.9 - 3.9	P 3.43	0.16	3.6 - 4.9	P 4.26	0.21	35
Total Population																	
Whole Population	22	1.8 - 2.6	C 2.15	0.24	1.2 - 2.0	C 1.64	0.13	5.2 - 7.0	P 6.08	0.28	2.9 - 4.0	P 3.46	0.18	3.7 - 5.0	P 4.32	0.21	242

Potassium

Initial Grouping by Reagent and Instrument																
Abbott Architect & Abbott Architect c, ci, i	1	2.0 - 3.0	C 2.52	0.04	1.9 - 2.9	C 2.43	0.04	6.1 - 7.1	C 6.59	0.05	3.6 - 4.6	C 4.08	0.05	4.4 - 5.4	C 4.89	0.05	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	2.1 - 3.1	C 2.63	0.07	1.8 - 2.8	C 2.34	0.08	6.3 - 7.3	C 6.84	0.15	3.6 - 4.6	C 4.14	0.09	4.5 - 5.5	C 4.98	0.07	18
Beckman Coulter & Beck Coult Unicel DXC	3	1.9 - 2.9	C 2.39	0.05	1.8 - 2.8	C 2.31	0.06	6.1 - 7.1	C 6.58	0.1	3.5 - 4.5	C 4.01	0.07	4.3 - 5.3	C 4.83	0.06	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	2.0 - 3.0	C 2.51	0.04	1.9 - 2.9	C 2.41	0.04	5.9 - 6.9	C 6.41	0.13	3.5 - 4.5	C 4.02	0.07	4.3 - 5.3	C 4.8	0.06	29
Beckman Olympus & Beckman AU 480	5	2.0 - 3.0	C 2.5	0.0	1.9 - 2.9	C 2.42	0.05	5.9 - 6.9	C 6.42	0.09	3.5 - 4.5	C 4.01	0.04	4.3 - 5.3	C 4.79	0.05	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	2.2 - 3.2	C 2.69	0.03	2.0 - 3.0	C 2.48	0.05	6.4 - 7.4	C 6.87	0.08	3.7 - 4.7	C 4.2	0.06	4.6 - 5.6	C 5.06	0.09	15
Ortho Vitros & Ortho Vitros not DT or ECi	7	2.2 - 3.2	C 2.68	0.06	2.0 - 3.0	C 2.48	0.05	6.4 - 7.4	C 6.91	0.12	3.7 - 4.7	C 4.24	0.08	4.6 - 5.6	C 5.09	0.09	23
Roche Cobas dil ISE & Roche Cobas Integra	8	2.0 - 3.0	C 2.5	0.0	1.9 - 2.9	C 2.43	0.05	6.1 - 7.1	C 6.55	0.09	3.6 - 4.6	C 4.1	0.0	4.4 - 5.4	C 4.9	0.06	12
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	9	2.1 - 3.1	C 2.55	0.13	2.0 - 3.0	C 2.48	0.12	6.2 - 7.2	C 6.65	0.09	3.7 - 4.7	C 4.15	0.12	4.5 - 5.5	C 4.96	0.08	13
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	1.9 - 2.9	C 2.41	0.03	1.9 - 2.9	C 2.37	0.04	6.1 - 7.1	C 6.56	0.07	3.5 - 4.5	C 4.04	0.05	4.4 - 5.4	C 4.88	0.05	57
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	1.9 - 2.9	C 2.41	0.05	1.9 - 2.9	C 2.38	0.04	6.1 - 7.1	C 6.58	0.05	3.6 - 4.6	C 4.05	0.05	4.4 - 5.4	C 4.89	0.04	18
Initial Grouping by Reagent																	
Abbott Architect	12	2.0 - 3.0	C 2.52	0.04	1.9 - 2.9	C 2.43	0.04	6.1 - 7.1	C 6.59	0.05	3.6 - 4.6	C 4.08	0.05	4.4 - 5.4	C 4.89	0.05	18
Alfa Wassermann	13	2.1 - 3.1	C 2.63	0.07	1.8 - 2.8	C 2.34	0.07	6.3 - 7.3	C 6.83	0.14	3.6 - 4.6	C 4.14	0.09	4.5 - 5.5	C 4.98	0.07	19
Beckman Coulter	14	1.9 - 2.9	C 2.44	0.08	1.9 - 2.9	C 2.36	0.08	6.0 - 7.0	C 6.5	0.14	3.5 - 4.5	C 4.01	0.06	4.3 - 5.3	C 4.82	0.06	26
Beckman Olympus	15	2.0 - 3.0	C 2.5	0.03	1.9 - 2.9	C 2.41	0.04	5.9 - 6.9	C 6.41	0.11	3.5 - 4.5	C 4.02	0.06	4.3 - 5.3	C 4.8	0.06	52
Ortho Vitros	16	2.2 - 3.2	C 2.68	0.05	2.0 - 3.0	C 2.48	0.05	6.4 - 7.4	C 6.89	0.12	3.7 - 4.7	C 4.22	0.08	4.6 - 5.6	C 5.08	0.08	44
Roche Cobas dil ISE	17	2.1 - 3.1	C 2.55	0.1	2.0 - 3.0	C 2.47	0.09	6.1 - 7.1	C 6.62	0.1	3.6 - 4.6	C 4.14	0.09	4.5 - 5.5	C 4.95	0.08	33
Siemens QuickLYTE IMT	18	1.9 - 2.9	C 2.41	0.04	1.9 - 2.9	C 2.38	0.04	6.1 - 7.1	C 6.56	0.08	3.5 - 4.5	C 4.04	0.05	4.4 - 5.4	C 4.88	0.06	82
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE results	19	2.1 - 3.1	C 2.55	0.14	1.9 - 2.9	C 2.41	0.08	6.2 - 7.2	C 6.65	0.2	3.6 - 4.6	C 4.09	0.11	4.4 - 5.4	C 4.92	0.13	189
Diluted ISE results	20	2.0 - 3.0	C 2.5	0.08	1.9 - 2.9	C 2.41	0.08	6.0 - 7.0	C 6.5	0.15	3.6 - 4.6	C 4.05	0.09	4.3 - 5.3	C 4.84	0.1	151
Total Population																	
Whole Population	21	2.0 - 3.0	C 2.52	0.12	1.9 - 2.9	C 2.41	0.08	6.1 - 7.1	C 6.58	0.2	3.6 - 4.6	C 4.07	0.11	4.4 - 5.4	C 4.89	0.13	349

Sodium

Initial Grouping by Reagent and Instrument																
Abbott Architect & Abbott Architect c, ci, i	1	124 - 132	C 127.5	1.0	111 - 119	C 115.1	1.2	157 - 165	C 161.0	1.2	130 - 138	C 133.5	1.6	138 - 146	C 142.3	0.8	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	129 - 137	C 132.9	2.5	108 - 116	C 111.8	1.6	164 - 172	C 168.3	3.2	130 - 138	C 133.8	1.0	140 - 148	C 144.2	1.3	16
Beckman Coulter & Beck Coult Unicel DXC	3	122 - 130	C 125.7	1.4	111 - 119	C 114.9	1.3	156 - 164	C 160.3	1.8	130 - 138	C 133.5	1.3	138 - 146	C 141.6	1.4	15
Beckman Olympus & Beck Olym AU 400/600/5400	4	121 - 129	C 125.0	1.6	110 - 118	C 114.1	1.4	154 - 162	C 157.5	2.1	128 - 136	C 132.0	1.6	137 - 145	C 140.6	1.6	30
Beckman Olympus & Beckman AU 480	5	121 - 129	C 124.9	1.2	111 - 119	C 114.5	1.4	155 - 163	C 158.7	1.8	129 - 137	C 132.5	1.2	137 - 145	C 140.8	1.0	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	134 - 142	C 137.9	1.6	115 - 123	C 119.1	1.4	171 - 179	C 175.2	1.9	137 - 145	C 141.0	1.3	148 - 156	C 152.1	1.5	15
Ortho Vitros & Ortho Vitros not DT or ECi	7	133 - 141	C 136.6	2.0	114 - 122	C 118.4	1.4	170 - 178	C 174.4	2.8	136 - 144	C 140.0	1.6	147 - 155	C 150.8	2.0	23
Roche Cobas dil ISE & Roche Cobas Integra	8	123 - 131	C 127.4	1.3	112 - 120	C 115.6	0.9	156 - 164	C 159.8	1.5	129 - 137	C 133.4	0.9	138 - 146	C 141.9	1.3	12
Roche Cobas dil ISE & Roche e/c, 1XX, X000, Elec series	9	124 - 132	C 127.8	1.5	112 - 120	C 116.4	1.6	158 - 166	C 161.9	1.3	131 - 139	C 134.7	1.1	139 - 147	C 143.4	1.3	13
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	124 - 132	C 127.7	1.3	114 - 122	C 117.9	1.2	156 - 164	C 160.3	1.6	131 - 139	C 134.6	1.3	139 - 147	C 142.9	1.6	56
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	124 - 132	C 127.7	1.4	114 - 122	C 118.0	1.3	157 - 165	C 160.7	1.5	131 - 139	C 134.9	1.3	139 - 147	C 143.4	1.3	18
Initial Grouping by Reagent																	
Abbott Architect	12	124 - 132	C 127.5	1.0	111 - 119	C 115.1	1.2	157 - 165	C 161.0	1.2	130 - 138	C 133.5	1.6	138 - 146	C 142.3	0.8	18
Alfa Wassermann	13	129 - 137	C 132.9	2.4	108 - 116	C 111.9	1.6	164 - 172	C 168.3	3.1	130 - 138	C 133.8	1.0	140 - 148	C 144.3	1.3	17
Beckman Coulter	14	122 - 130	C 125.7	1.3	111 - 119	C 114.6	1.4	156 - 164	C 159.6	2.1	129 - 137	C 133.2	1.5	138 - 146	C 141.6	1.4	26
Beckman Olympus	15	121 - 129	C 125.0	1.4	110 - 118	C 114.3	1.4	154 - 162	C 158.0	2.1	128 - 136	C 132.3	1.5	137 - 145	C 140.8	1.4	53

Ortho Vitros	16	133 - 141	C 137.0	1.9	115 - 123	C 118.6	1.4	171 - 179	C 174.7	2.5	136 - 144	C 140.4	1.5	147 - 155	C 151.2	2.0	44
Roche Cobas dil ISE	17	124 - 132	C 127.5	1.6	112 - 120	C 115.8	1.5	157 - 165	C 161.3	1.9	131 - 139	C 134.5	1.8	139 - 147	C 142.9	1.4	33
Siemens QuickLYTE IMT	18	124 - 132	C 127.6	1.5	114 - 122	C 117.9	1.3	156 - 164	C 160.3	1.9	131 - 139	C 134.6	1.4	139 - 147	C 142.9	1.6	82
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE	19	127 - 135	C 131.2	4.4	113 - 121	C 116.7	2.7	161 - 169	C 165.4	6.2	132 - 140	C 135.8	3.1	141 - 149	C 145.1	3.8	189
Diluted ISE	20	122 - 130	C 126.3	2.2	111 - 119	C 114.9	1.7	156 - 164	C 159.8	2.6	129 - 137	C 133.2	1.8	138 - 146	C 141.7	1.8	151
Total Population																	
Whole Population	21	125 - 133	C 129.1	4.3	112 - 120	C 115.9	2.5	159 - 167	C 162.9	5.7	131 - 139	C 134.6	2.9	140 - 148	C 143.6	3.5	349

Protein, Total

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	9.0 - 11.1	P 10.05	0.08	2.2 - 2.7	P 2.47	0.08	7.8 - 9.5	P 8.63	0.11	4.4 - 5.4	P 4.9	0.09	5.5 - 6.8	P 6.16	0.1	20
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	8.8 - 10.8	P 9.81	0.26	2.3 - 2.8	P 2.58	0.1	7.7 - 9.4	P 8.54	0.27	4.5 - 5.5	P 5.01	0.13	5.6 - 6.8	P 6.22	0.16	16
All refractometers & All other refractometers	3	10.0 - 12.2	P 11.09	0.18	3.1 - 3.7	P 3.39	0.13	9.7 - 11.9	P 10.78	0.22	5.7 - 6.9	P 6.31	0.13	7.0 - 8.5	P 7.76	0.12	289
All refractometers & Reichert TS Meter-DSP	4	10.0 - 12.2	P 11.1	0.12	3.1 - 3.7	P 3.4	0.13	9.7 - 11.8	P 10.77	0.13	5.7 - 6.9	P 6.3	0.1	7.0 - 8.5	P 7.77	0.14	96
Beckman Olympus & Beck Olym AU 400/600/5400	5	8.6 - 10.5	P 9.56	0.18	2.3 - 2.8	P 2.58	0.19	7.4 - 9.0	P 8.22	0.13	4.3 - 5.3	P 4.83	0.1	5.4 - 6.5	P 5.95	0.15	28
Beckman Olympus & Beckman AU 480	6	8.5 - 10.3	P 9.4	0.31	2.4 - 2.9	P 2.64	0.25	7.4 - 9.0	P 8.18	0.18	4.3 - 5.2	P 4.76	0.15	5.3 - 6.5	P 5.91	0.14	22
Ortho Vitros & Ortho Vitros 3600, 5600	7	9.1 - 11.1	P 10.11	0.3	2.3 - 2.8	P 2.56	0.09	7.0 - 8.6	P 7.81	0.2	4.4 - 5.4	P 4.87	0.12	5.3 - 6.5	P 5.9	0.14	16
Ortho Vitros & Ortho Vitros not DT or ECi	8	9.0 - 11.0	P 10.0	0.25	2.4 - 2.9	P 2.62	0.07	7.1 - 8.6	P 7.85	0.18	4.4 - 5.4	P 4.88	0.13	5.3 - 6.5	P 5.93	0.17	22
Reichert TS Meter-DSP & Reichert TS Meter-DSP	9	10.0 - 12.2	P 11.09	0.16	3.1 - 3.7	P 3.39	0.11	9.7 - 11.9	P 10.78	0.12	5.7 - 6.9	P 6.31	0.12	7.0 - 8.5	P 7.75	0.11	253
Roche Cobas & Roche Cobas Integra	10	8.5 - 10.4	P 9.45	0.15	2.3 - 2.8	P 2.55	0.09	7.4 - 9.0	P 8.18	0.16	4.4 - 5.3	P 4.84	0.12	5.4 - 6.6	P 6.02	0.24	13
Roche Cobas & Roche e/c, 1XX, X000, Elec series	11	8.6 - 10.6	P 9.61	0.24	2.3 - 2.9	P 2.61	0.07	7.5 - 9.2	P 8.36	0.2	4.5 - 5.5	P 4.96	0.15	5.5 - 6.8	P 6.14	0.11	16
Siemens Dimension & Siemens Dimension EXL	12	9.1 - 11.1	P 10.1	0.19	2.4 - 2.9	P 2.65	0.09	7.8 - 9.6	P 8.69	0.17	4.6 - 5.6	P 5.1	0.11	5.7 - 6.9	P 6.3	0.11	50
Siemens Dimension & Siemens Dimension Xpand	13	9.0 - 11.0	P 10.03	0.26	2.3 - 2.9	P 2.61	0.11	7.8 - 9.5	P 8.64	0.23	4.5 - 5.5	P 5.04	0.15	5.6 - 6.9	P 6.24	0.18	17
Initial Grouping by Reagent																	
Abbott	14	9.0 - 11.1	P 10.05	0.08	2.2 - 2.7	P 2.47	0.08	7.8 - 9.5	P 8.63	0.11	4.4 - 5.4	P 4.9	0.09	5.5 - 6.8	P 6.16	0.1	20
Alfa Wassermann	15	8.8 - 10.8	P 9.81	0.26	2.3 - 2.8	P 2.58	0.1	7.7 - 9.4	P 8.54	0.27	4.5 - 5.5	P 5.01	0.13	5.6 - 6.8	P 6.22	0.16	16
All refractometers	16	10.0 - 12.2	P 11.09	0.17	3.1 - 3.7	P 3.39	0.13	9.7 - 11.9	P 10.78	0.2	5.7 - 6.9	P 6.31	0.12	7.0 - 8.5	P 7.76	0.13	387
Beckman Olympus	17	8.5 - 10.4	P 9.49	0.25	2.3 - 2.9	P 2.6	0.21	7.4 - 9.0	P 8.2	0.16	4.3 - 5.3	P 4.8	0.12	5.3 - 6.5	P 5.93	0.15	53
Carolina	18	8.8 - 10.7	P 9.77	0.33	2.3 - 2.8	P 2.54	0.09	7.5 - 9.2	P 8.35	0.29	4.4 - 5.4	P 4.87	0.17	5.4 - 6.6	P 6.01	0.2	15
Ortho Vitros	19	9.1 - 11.1	P 10.07	0.31	2.3 - 2.9	P 2.6	0.09	7.0 - 8.6	P 7.83	0.19	4.4 - 5.4	P 4.88	0.12	5.3 - 6.5	P 5.92	0.16	44
Pointe Scientific	20	8.7 - 10.6	P 9.63	0.52	2.2 - 2.7	P 2.49	0.35	7.7 - 9.4	P 8.53	0.23	4.5 - 5.5	P 4.96	0.21	5.5 - 6.7	P 6.11	0.18	10
Reichert TS Meter-DSP	21	10.0 - 12.2	P 11.09	0.16	3.1 - 3.7	P 3.39	0.11	9.7 - 11.9	P 10.78	0.12	5.7 - 6.9	P 6.31	0.12	7.0 - 8.5	P 7.75	0.11	255
Roche Cobas	22	8.6 - 10.5	P 9.55	0.21	2.3 - 2.8	P 2.58	0.08	7.5 - 9.1	P 8.28	0.19	4.5 - 5.4	P 4.95	0.21	5.5 - 6.7	P 6.06	0.27	38
Siemens Dimension	23	9.1 - 11.1	P 10.1	0.21	2.4 - 2.9	P 2.65	0.09	7.8 - 9.6	P 8.69	0.18	4.6 - 5.6	P 5.09	0.12	5.7 - 6.9	P 6.3	0.14	74
Siemens biuret based	24	9.0 - 11.1	P 10.05	0.24	2.4 - 3.0	P 2.71	0.05	7.8 - 9.6	P 8.72	0.21	4.6 - 5.6	P 5.13	0.1	5.7 - 7.0	P 6.32	0.15	10
Initial Grouping by Sensitivity or Principle																	
Bichromatic-no sam blanks	25	8.8 - 10.7	P 9.75	0.41	2.3 - 2.9	P 2.6	0.18	7.6 - 9.3	P 8.43	0.35	4.4 - 5.4	P 4.92	0.2	5.5 - 6.7	P 6.1	0.24	124
All refractometer users	26	10.0 - 12.2	P 11.09	0.17	3.1 - 3.7	P 3.39	0.13	9.7 - 11.9	P 10.78	0.2	5.7 - 6.9	P 6.31	0.12	7.0 - 8.5	P 7.76	0.13	387
Rate	27	8.8 - 10.7	P 9.77	0.29	2.3 - 2.8	P 2.55	0.08	7.5 - 9.2	P 8.32	0.25	4.4 - 5.3	P 4.86	0.14	5.4 - 6.6	P 5.99	0.17	23
Uncorrected	28	8.9 - 10.9	P 9.9	0.42	2.3 - 2.9	P 2.6	0.2	7.3 - 8.9	P 8.11	0.47	4.4 - 5.4	P 4.91	0.22	5.4 - 6.6	P 6.0	0.27	78
Bichromatic-sample blanked	29	9.1 - 11.1	P 10.1	0.25	2.4 - 2.9	P 2.65	0.12	7.8 - 9.6	P 8.7	0.3	4.6 - 5.6	P 5.1	0.18	5.7 - 6.9	P 6.31	0.22	76
Just sample blanked	30	8.6 - 10.5	P 9.55	0.21	2.3 - 2.8	P 2.58	0.08	7.5 - 9.1	P 8.28	0.19	4.5 - 5.4	P 4.95	0.21	5.5 - 6.7	P 6.06	0.27	38
Total Population																	
Whole Population	31	9.6 - 11.7	P 10.66	0.65	2.8 - 3.4	P 3.12	0.4	9.0 - 10.9	P 9.95	1.17	5.3 - 6.4	P 5.84	0.66	6.5 - 7.9	P 7.19	0.8	987

Triglycerides

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	103 - 171	P 136.8	2.9	68 - 113	P 90.2	2.4	179 - 298	P 238.1	4.6	113 - 189	P 151.2	3.5	135 - 225	P 180.1	3.6	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	109 - 182	P 145.3	4.9	78 - 130	P 103.7	2.8	188 - 314	P 251.2	6.1	124 - 207	P 165.6	3.1	146 - 243	P 194.5	5.1	15
Beckman GPO glycerol-unc & Beck Coult Unicel DXC	3	125 - 208	P 166.8	6.6	75 - 126	P 100.6	3.5	201 - 335	P 268.4	7.3	128 - 213	P 170.0	5.1	153 - 255	P 204.1	6.9	13
Beckman Olympus & Beck Olym AU 400/600/5400	4	106 - 177	P 141.6	4.7	73 - 121	P 96.8	3.5	187 - 311	P 249.2	9.0	119 - 199	P 159.0	4.9	142 - 238	P 190.0	7.4	22
Beckman Olympus & Beckman AU 480	5	107 - 179	P 143.1	3.4	74 - 123	P 98.5	2.5	189 - 315	P 251.9	7.5	122 - 203	P 162.5	5.9	143 - 239	P 191.0	5.2	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	127 - 211	P 168.7	5.1	74 - 124	P 99.1	2.7	209 - 349	P 279.3	8.1	128 - 213	P 170.7	5.1	155 - 258	P 206.1	5.0	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	128 - 213	P 170.3	7.3	74 - 124	P 99.3	3.5	210 - 350	P 280.3	8.0	128 - 214	P 171.2	5.3	155 - 259	P 207.0	6.8	20
Roche Cobas & Roche Cobas Integra	8	107 - 178	P 142.1	3.8	76 - 126	P 101.1	3.2	185 - 309	P 247.0	8.1	122 - 204	P 163.1	6.2	143 - 239	P 191.0	9.4	13
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	112 - 186	P 148.8	4.4	77 - 128	P 102.3	3.5	191 - 318	P 254.6	11.6	124 - 207	P 165.5	5.5	146 - 244	P 194.9	6.7	16
Siemens Dimension & Siemens Dimension EXL	10	101 - 168	P 134.2	2.8	66 - 110	P 88.1	2.0	181 - 301	P 240.7	3.8	113 - 188	P 150.7	2.7	136 - 226	P 181.0	2.8	53
Siemens Dimension & Siemens Dimension Xpand	11	100 - 167	P 133.6	2.0	66 - 110	P 88.2	1.6	182 - 304	P 242.9	4.8	114 - 190	P 151.7	3.5	136 - 227	P 181.8	3.7	18
Sterling Diagnostic & Other spectrophotometers	12	113 - 189	P 151.1	6.8	75 - 125	P 100.2	3.3	187 - 312	P 249.5	8.4	121 - 202	P 161.8	7.1	142 - 236	P 188.8	8.8	10
Initial Grouping by Reagent																	

Abbott	13	103 - 171	P 136.8	2.9	68 - 113	P 90.2	2.4	179 - 298	P 238.1	4.6	113 - 189	P 151.2	3.5	135 - 225	P 180.1	3.6	18
Alfa Wassermann	14	109 - 182	P 145.3	4.9	78 - 130	P 103.7	2.8	188 - 314	P 251.2	6.1	124 - 207	P 165.6	3.1	146 - 243	P 194.5	5.1	15
Beckman GPO glycerol-unc	15	121 - 202	P 161.9	11.9	75 - 125	P 99.8	3.7	199 - 331	P 265.0	10.0	126 - 210	P 167.9	6.7	151 - 251	P 200.9	9.3	17
Beckman Olympus	16	107 - 178	P 142.2	4.2	73 - 122	P 97.6	3.1	188 - 313	P 250.4	8.2	120 - 201	P 160.5	5.6	143 - 238	P 190.3	6.4	45
Carolina	17	102 - 171	P 136.6	21.3	68 - 113	P 90.1	10.1	171 - 285	P 227.9	27.9	111 - 184	P 147.4	15.7	130 - 216	P 172.9	19.6	14
Ortho Vitros	18	127 - 212	P 169.7	6.2	75 - 124	P 99.4	3.0	210 - 350	P 280.3	7.8	128 - 214	P 171.2	4.9	155 - 259	P 207.0	5.8	42
Pointe Scientific	19	98 - 163	P 130.4	6.3	68 - 114	P 91.1	5.8	172 - 287	P 229.8	14.4	110 - 184	P 146.9	5.7	128 - 214	P 171.1	11.5	15
Roche Cobas	20	110 - 183	P 146.2	5.0	77 - 127	P 102.0	3.3	189 - 315	P 251.6	10.1	124 - 207	P 165.3	7.0	144 - 241	P 192.6	9.1	38
Siemens Dimension	21	101 - 169	P 134.8	4.3	67 - 111	P 88.9	3.6	182 - 303	P 242.3	6.8	114 - 190	P 151.9	5.6	136 - 228	P 182.0	5.2	78
Sterling Diagnostic	22	113 - 189	P 150.8	8.0	75 - 125	P 100.3	5.2	191 - 318	P 254.2	14.6	123 - 205	P 163.7	8.6	144 - 240	P 192.0	12.1	16
Initial Grouping by Sensitivity or Principle																	
Gly-unc/visible/GPO-based	23	109 - 182	P 145.3	14.4	72 - 120	P 95.7	7.0	188 - 314	P 251.0	18.3	120 - 199	P 159.4	10.7	142 - 237	P 189.3	13.3	314
Gly-unc/visible/INT-based	24	109 - 182	P 145.3	4.9	78 - 130	P 103.7	2.8	188 - 314	P 251.2	6.1	124 - 207	P 165.6	3.1	146 - 243	P 194.5	5.1	15
Total Population																	
Whole Population	25	109 - 181	P 145.1	14.0	72 - 120	P 96.1	7.1	188 - 314	P 250.9	17.7	120 - 200	P 159.8	10.4	142 - 237	P 189.5	12.9	343

Urea Nitrogen (BUN)

Initial Grouping by Reagent and Instrument																
Abbott & Abbott Architect c, ci, i	1	4 - 8	C 6.0	0.0	4 - 8	C 6.0	0.0	40 - 48	P 44.3	0.9	19 - 23	C 21.2	0.5	26 - 31	P 28.7	0.8	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	3 - 7	C 5.4	0.8	4 - 8	C 5.8	0.7	39 - 46	P 42.4	2.3	18 - 22	C 20.4	1.1	25 - 30	P 27.7	1.5	18
Beckman GLDH-rate & Beck Coult Unicel DXC	3	5 - 9	C 7.0	0.0	5 - 9	C 6.6	0.5	42 - 50	P 46.0	1.2	20 - 24	C 22.1	0.6	27 - 32	P 29.6	0.8	14
Beckman Olympus & Beck Olym AU 400/600/5400	4	4 - 8	C 6.2	0.5	4 - 8	C 5.9	0.3	40 - 48	P 43.8	1.4	19 - 23	C 21.3	0.7	26 - 31	P 28.7	1.0	27
Beckman Olympus & Beckman AU 480	5	4 - 8	C 6.4	0.5	4 - 8	C 6.1	0.4	40 - 47	P 43.5	1.3	19 - 23	C 21.0	0.9	26 - 31	P 28.2	1.1	22
Ortho Vitros & Ortho Vitros 3600, 5600	6	3 - 7	C 4.7	0.4	2 - 6	C 4.2	0.4	33 - 40	P 36.4	0.7	15 - 19	C 16.8	0.5	21 - 25	P 23.0	0.6	16
Ortho Vitros & Ortho Vitros not DT or ECi	7	3 - 7	C 4.8	0.5	2 - 6	C 4.2	0.4	34 - 41	P 37.7	1.5	16 - 20	C 17.6	0.8	22 - 27	P 24.4	1.1	23
Roche Cobas & Roche Cobas Integra	8	4 - 8	C 5.9	0.6	4 - 8	C 5.6	0.5	39 - 47	P 43.1	2.4	18 - 22	C 20.4	1.1	25 - 31	P 28.0	1.7	14
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	4 - 8	C 6.0	0.0	4 - 8	C 6.0	0.0	40 - 48	P 44.1	0.7	19 - 23	C 21.3	0.7	26 - 31	P 28.9	0.9	16
Siemens GLDH-rate & Siemens Dimension EXL	10	4 - 8	C 6.4	0.6	4 - 8	C 5.8	0.7	41 - 49	P 44.8	1.1	20 - 24	C 21.5	0.7	27 - 32	P 29.4	0.9	52
Siemens GLDH-rate & Siemens Dimension Xpand	11	4 - 8	C 6.1	0.6	4 - 8	C 6.0	0.5	41 - 49	P 44.6	1.2	19 - 23	C 21.2	0.6	26 - 32	P 29.1	0.8	17
Initial Grouping by Reagent																	
Abbott	12	4 - 8	C 6.0	0.0	4 - 8	C 6.0	0.0	40 - 48	P 44.3	0.9	19 - 23	C 21.2	0.5	26 - 31	P 28.7	0.8	18
Alfa Wassermann	13	3 - 7	C 5.4	0.8	4 - 8	C 5.8	0.7	39 - 46	P 42.4	2.3	18 - 22	C 20.4	1.1	25 - 30	P 27.7	1.5	18
Beckman GLDH-rate	14	5 - 9	C 6.8	0.4	5 - 9	C 6.5	0.5	41 - 50	P 45.6	1.4	20 - 24	C 22.0	0.6	27 - 32	P 29.4	1.0	17
Beckman Olympus	15	4 - 8	C 6.3	0.5	4 - 8	C 6.0	0.4	40 - 48	P 43.6	1.4	19 - 23	C 21.2	0.8	26 - 31	P 28.4	1.0	52
Carolina	16	5 - 9	C 6.8	0.7	4 - 8	C 6.4	0.6	40 - 49	P 44.5	1.5	20 - 24	C 22.0	1.0	27 - 32	P 29.4	1.4	13
Ortho Vitros	17	3 - 7	C 4.8	0.5	2 - 6	C 4.2	0.4	34 - 41	P 37.3	1.3	15 - 19	C 17.3	0.8	22 - 26	P 23.8	1.1	45
Roche Cobas	18	4 - 8	C 6.0	0.4	4 - 8	C 5.9	0.3	40 - 48	P 43.8	1.7	19 - 23	C 20.9	1.0	26 - 31	P 28.5	1.3	39
Siemens GLDH-rate	19	4 - 8	C 6.3	0.6	4 - 8	C 5.9	0.6	41 - 49	P 44.9	1.2	20 - 24	C 21.5	0.7	27 - 32	P 29.3	0.9	79
Synermed	20	4 - 8	C 6.4	1.0	4 - 8	C 6.3	0.8	37 - 45	P 41.0	2.7	19 - 23	C 20.5	1.6	25 - 30	P 27.2	2.0	10
Initial Grouping by Sensitivity or Principle																	
Glutamate DH-rate methods	21	4 - 8	C 6.3	0.8	4 - 8	C 6.0	0.7	40 - 48	P 43.9	2.0	19 - 23	C 21.2	1.0	26 - 31	P 28.7	1.4	288
Glutamate DH-endpoint meths	22	4 - 8	C 6.4	0.7	4 - 8	C 6.1	0.8	39 - 47	P 43.3	1.5	19 - 23	C 21.2	1.0	26 - 31	P 28.9	1.4	16
Ammonia (NH3) diffusion	23	3 - 7	C 4.8	0.5	2 - 6	C 4.2	0.4	34 - 41	P 37.3	1.3	15 - 19	C 17.3	0.8	22 - 26	P 23.8	1.1	45
Total Population																	
Whole Population	24	4 - 8	C 6.1	0.9	4 - 8	C 5.8	0.9	39 - 47	P 43.0	2.9	19 - 23	C 20.7	1.7	26 - 31	P 28.2	2.1	361

Uric Acid

Initial Grouping by Reagent and Instrument																
Abbott Architect & Abbott Architect c, ci, i	1	1.5 - 2.1	P 1.79	0.05	1.5 - 2.1	P 1.82	0.04	9.8 - 13.9	P 11.84	0.08	4.9 - 6.8	P 5.85	0.05	6.5 - 9.2	P 7.87	0.08	14
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	2.0 - 2.8	P 2.4	0.0	2.4 - 3.3	P 2.85	0.26	9.2 - 13.0	P 11.09	0.54	4.8 - 6.8	P 5.83	0.23	6.2 - 8.8	P 7.52	0.31	10
Beckman Coulter & Beck Coult Unicel DXC	3	1.3 - 1.8	P 1.57	0.05	1.5 - 2.1	P 1.76	0.05	8.7 - 12.3	P 10.5	0.12	4.4 - 6.3	P 5.35	0.09	5.9 - 8.3	P 7.11	0.09	14
Beckman Olympus & Beck Olym AU 400/600/5400	4	1.4 - 2.0	P 1.68	0.06	1.5 - 2.1	P 1.78	0.08	9.3 - 13.1	P 11.23	0.25	4.6 - 6.5	P 5.59	0.12	6.2 - 8.7	P 7.44	0.19	21
Beckman Olympus & Beckman AU 480	5	1.4 - 2.0	P 1.68	0.04	1.5 - 2.1	P 1.79	0.05	9.3 - 13.2	P 11.24	0.26	4.6 - 6.6	P 5.6	0.12	6.2 - 8.7	P 7.46	0.16	15
Ortho Vitros & Ortho Vitros 3600, 5600	6	1.6 - 2.2	P 1.87	0.11	1.4 - 2.0	P 1.68	0.09	9.3 - 13.1	P 11.18	0.27	4.6 - 6.5	P 5.56	0.14	6.1 - 8.6	P 7.37	0.17	14
Ortho Vitros & Ortho Vitros not DT or ECi	7	1.5 - 2.1	P 1.83	0.11	1.4 - 1.9	P 1.64	0.1	9.2 - 13.0	P 11.11	0.19	4.5 - 6.4	P 5.48	0.11	6.1 - 8.5	P 7.29	0.13	16
Roche Cobas & Roche Cobas Integra	8	1.4 - 2.0	P 1.71	0.06	1.4 - 2.0	P 1.73	0.06	9.4 - 13.2	P 11.32	0.32	4.7 - 6.6	P 5.68	0.23	6.3 - 8.9	P 7.61	0.3	12
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	1.4 - 2.0	P 1.71	0.09	1.4 - 2.0	P 1.71	0.03	9.3 - 13.1	P 11.2	0.33	4.6 - 6.5	P 5.59	0.14	6.2 - 8.8	P 7.49	0.16	15
Siemens Dimension & Siemens Dimension EXL	10	1.6 - 2.2	P 1.9	0.11	1.5 - 2.1	P 1.77	0.08	9.0 - 12.7	P 10.88	0.21	4.5 - 6.4	P 5.44	0.13	6.0 - 8.5	P 7.24	0.16	53
Siemens Dimension & Siemens Dimension Xpand	11	1.6 - 2.2	P 1.87	0.11	1.5 - 2.0	P 1.75	0.12	9.0 - 12.6	P 10.8	0.56	4.5 - 6.3	P 5.41	0.1	6.0 - 8.4	P 7.21	0.23	16
Initial Grouping by Reagent																	
Abbott Architect	12	1.5 - 2.1	P 1.79	0.05	1.5 - 2.1	P 1.82	0.04	9.8 - 13.9	P 11.84	0.08	4.9 - 6.8	P 5.85	0.05	6.5 - 9.2	P 7.87	0.08	14

Alfa Wassermann	13	2.0 - 2.8	P 2.4	0.0	2.4 - 3.3	P 2.85	0.26	9.2 - 13.0	P 11.09	0.54	4.8 - 6.8	P 5.83	0.23	6.2 - 8.8	P 7.52	0.31	10
Beckman Coulter	14	1.3 - 1.9	P 1.6	0.06	1.5 - 2.0	P 1.75	0.05	8.9 - 12.5	P 10.7	0.35	4.5 - 6.3	P 5.4	0.14	6.0 - 8.4	P 7.22	0.2	22
Beckman Olympus	15	1.4 - 2.0	P 1.68	0.05	1.5 - 2.1	P 1.78	0.07	9.3 - 13.1	P 11.22	0.25	4.6 - 6.5	P 5.59	0.12	6.2 - 8.7	P 7.44	0.17	39
Carolina	16	1.7 - 2.3	P 2.0	0.29	1.4 - 2.0	P 1.72	0.15	9.1 - 12.8	P 10.92	0.73	4.6 - 6.5	P 5.57	0.35	6.1 - 8.6	P 7.34	0.47	11
Ortho Vitros	17	1.5 - 2.2	P 1.86	0.12	1.4 - 2.0	P 1.67	0.11	9.3 - 13.0	P 11.15	0.23	4.6 - 6.5	P 5.52	0.13	6.1 - 8.6	P 7.33	0.15	33
Roche Cobas	18	1.4 - 2.0	P 1.7	0.07	1.4 - 2.0	P 1.71	0.05	9.3 - 13.1	P 11.21	0.35	4.6 - 6.5	P 5.59	0.21	6.2 - 8.8	P 7.5	0.26	35
Siemens Dimension	19	1.6 - 2.2	P 1.89	0.11	1.5 - 2.1	P 1.77	0.09	9.0 - 12.7	P 10.86	0.32	4.5 - 6.4	P 5.44	0.14	6.0 - 8.5	P 7.24	0.18	75
Initial Grouping bySensitivityor Principle																	
Endpt-corrected(bic or SB)	20	1.5 - 2.1	P 1.78	0.18	1.5 - 2.2	P 1.86	0.36	9.3 - 13.2	P 11.26	0.42	4.7 - 6.6	P 5.61	0.19	6.2 - 8.7	P 7.46	0.27	108
Rate	21	1.5 - 2.1	P 1.81	0.18	1.5 - 2.0	P 1.75	0.09	9.1 - 12.8	P 10.93	0.42	4.6 - 6.4	P 5.49	0.21	6.1 - 8.6	P 7.31	0.27	144
Endpoint-uncorrected	22	1.9 - 2.7	P 2.27	0.3	1.7 - 2.4	P 2.01	0.21	9.7 - 13.6	P 11.66	0.73	5.0 - 7.0	P 5.97	0.34	6.6 - 9.3	P 7.97	0.5	31
Total Population																	
Whole Population	23	1.5 - 2.2	P 1.85	0.24	1.5 - 2.1	P 1.82	0.27	9.2 - 13.0	P 11.13	0.52	4.6 - 6.5	P 5.59	0.27	6.2 - 8.7	P 7.44	0.36	284