Basic Chemistry

Name	Line No.	Specimen 6 Range & Type	Specimen 6 Mean	Specimen 6 SD	Specimen 7 Range & Type	Specimen 7 Mean	Specimen 7 SD	Specimen 8 Range & Type	Specimen 8 Mean	Specimen 8 SD	Specimen 9 Range & Type	Specimen 9 Mean	Specimen 9 SD	Specimen 10 Range & Type	Specimen 10 Mean	Specimen 10 SD	No. of Labs
Alanine Aminotransferase (ALT or SGPT)																	
Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	38 - 57	P 47.4	1.2	125 - 187	P 156.2	2.5	170 - 254	P 212.0	3.0	180 - 270	P 225.1	3.5	104 - 156	P 129.6	2.4	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	28 - 41	P 34.5	1.2	100 - 150	P 124.8	2.3	136 - 204	P 169.9	3.3	144 - 216	P 179.8	3.4	83 - 124	P 103.5	2.3	18
Beckman Coulter & Beck Coult Unicel DXC	3	41 - 61	P 51.1	1.1	122 - 183	P 152.5	2.1	163 - 244	P 203.2	2.7	172 - 258	P 214.8	2.7	102 - 154	P 128.1	1.0	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	32 - 48	P 40.4	1.3	107 - 160	P 133.3	4.5	144 - 216	P 180.3	5.7	153 - 229	P 190.8	4.9	88 - 132	P 110.3	3.6	25
Beckman Olympus & Beckman AU 480	5	33 - 49	P 41.0	1.5	108 - 162	P 135.0	4.1	146 - 220	P 183.1	5.7	155 - 233	P 193.9	6.2	89 - 134	P 111.6	3.5	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	52 - 78	P 64.6	5.6	129 - 193	P 161.0	5.2	168 - 252	P 210.3	5.6	177 - 266	P 221.5	6.4	110 - 164	P 137.0	4.7	14
Ortho Vitros & Ortho Vitros not DT or ECi	7	51 - 77	P 64.0	4.7	128 - 192	P 159.6	4.1	166 - 249	P 207.6	4.6	174 - 261	P 217.7	7.3	109 - 163	P 135.9	3.1	18
Roche Cobas & Roche Cobas 6000, 8000	8	36 - 53	P 44.5	1.1	118 - 178	P 148.0	3.8	160 - 240	P 200.2	5.0	169 - 254	P 211.7	4.9	98 - 148	P 123.1	2.7	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	36 - 54	P 45.3	1.0	119 - 179	P 149.0	3.2	162 - 243	P 202.7	5.1	172 - 258	P 215.0	4.9	98 - 148	P 123.0	3.6	10
Siemens ALTI & Siemens Dimension EXL	10	40 - 60	P 49.6	2.0	127 - 190	P 158.5	2.5	170 - 255	P 212.8	3.2	180 - 270	P 225.0	4.2	106 - 159	P 132.4	2.9	41
Siemens Dimension & Siemens Dimension EXL	11	40 - 60	P 49.8	1.5	126 - 189	P 157.8	2.9	169 - 254	P 211.5	3.1	179 - 269	P 224.0	4.6	106 - 158	P 131.9	2.5	11
Initial Grouping by Reagent																	
Abbott	12	38 - 57	P 47.4	1.2	125 - 187	P 156.2	2.5	170 - 254	P 212.0	3.0	180 - 270	P 225.1	3.5	104 - 156	P 129.6	2.4	18
Alfa Wassermann	13	28 - 41	P 34.5	1.2	100 - 150	P 124.8	2.3	136 - 204	P 169.9	3.3	144 - 216	P 179.8	3.4	83 - 124	P 103.5	2.3	18
Beckman Coulter	14	37 - 55	P 46.2	4.9	115 - 173	P 144.2	9.3	155 - 233	P 194.0	11.5	164 - 246	P 204.8	11.5	96 - 144	P 120.3	8.3	23
Beckman Olympus	15	33 - 49	P 40.7	1.4	107 - 161	P 133.9	4.4	145 - 218	P 181.3	6.0	154 - 230	P 192.0	5.7	89 - 133	P 110.8	3.6	47
Ortho Vitros	16	52 - 77	P 64.4	4.9	128 - 193	P 160.5	4.4	167 - 251	P 209.1	5.1	176 - 264	P 219.8	6.9	109 - 164	P 136.8	3.9	38
Ortho Vitros ALTV	17	30 - 45	P 37.6	0.9	107 - 160	P 133.5	2.6	146 - 220	P 183.1	3.6	155 - 232	P 193.7	4.6	88 - 132	P 110.0	2.8	11
Roche Cobas	18	36 - 54	P 44.8	1.0	119 - 178	P 148.2	3.4	160 - 241	P 200.6	4.9	170 - 255	P 212.7	4.8	98 - 147	P 122.8	2.9	30
Siemens ALTI	19	40 - 60	P 49.8	2.3	127 - 191	P 158.8	3.2	171 - 256	P 213.4	4.8	180 - 271	P 225.6	5.3	106 - 159	P 132.7	3.2	55
Siemens Dimension	20	40 - 60	P 49.8	1.4	126 - 189	P 157.9	2.7	169 - 254	P 211.7	4.4	179 - 269	P 224.2	4.3	105 - 158	P 131.5	3.5	20
Initial Grouping by Sensitivity or Principle																	
Other no P5P	21	32 - 48	P 40.1	5.8	108 - 162	P 135.1	11.6	146 - 219	P 182.8	15.2	154 - 231	P 192.8	15.6	89 - 134	P 111.8	9.3	37
Standardized methods	22	35 - 53	P 44.0	4.9	114 - 172	P 143.0	12.3	155 - 233	P 193.9	16.6	164 - 246	P 204.7	17.8	95 - 142	P 118.4	10.2	129
Other P5P	23	38 - 57	P 47.4	4.0	120 - 180	P 150.3	7.9	161 - 241	P 200.7	16.6	172 - 258	P 215.1	16.1	105 - 158	P 131.4	14.3	10
Vitros and related methods	24	52 - 77	P 64.4	4.9	128 - 193	P 160.5	4.4	167 - 251	P 209.1	5.1	176 - 264	P 219.8	6.9	109 - 164	P 136.8	3.9	38
Roche and related	25	36 - 54	P 44.9	1.2	119 - 178	P 148.4	3.5	161 - 241	P 200.9	5.1	170 - 256	P 213.0	5.0	98 - 148	P 123.0	3.0	31
Siemens and related	26	40 - 60	P 49.7	2.1	127 - 190	P 158.5	3.5	170 - 255	P 212.9	5.2	180 - 270	P 225.3	5.6	106 - 159	P 132.3	3.6	77
Total Population																	
Whole Population	27	38 - 57	P 47.5	8.0	119 - 178	P 148.5	12.5	160 - 240	P 199.8	16.0	169 - 253	P 211.2	17.0	99 - 149	P 123.9	11.4	323
Albumin																	
Initial Grouping by Reagent and Instrument																	
Alfa Wassermann & Alfa Wasser Axcel/Alera	1	2.0 - 2.5	P 2.24	0.05	2.9 - 3.5	P 3.17	0.07	3.3 - 4.0	P 3.65	0.07	3.4 - 4.1	P 3.76	0.08	2.7 - 3.3	P 2.96	0.08	16
Beckman Olympus & Beck Olym AU 400/600/5400	2	1.9 - 2.3	P 2.08	0.07	2.8 - 3.4	P 3.07	0.07	3.2 - 3.9	P 3.52	0.08	3.3 - 4.0	P 3.62	0.1	2.5 - 3.1	P 2.8	0.07	25
Beckman Olympus & Beckman AU 480	3	1.9 - 2.3	P 2.1	0.06	2.8 - 3.4	P 3.1	0.08	3.2 - 3.9	P 3.56	0.09	3.3 - 4.0	P 3.66	0.06	2.6 - 3.1	P 2.85	0.07	23
Ortho Vitros & Ortho Vitros 3600, 5600	4	1.7 - 2.0	P 1.85	0.05	2.6 - 3.2	P 2.9	0.08	3.1 - 3.8	P 3.45	0.12	3.2 - 3.9	P 3.58	0.11	2.4 - 2.9	P 2.63	0.08	22
Ortho Vitros & Ortho Vitros not DT or ECi	5	1.7 - 2.0	P 1.84	0.05	2.6 - 3.2	P 2.91	0.12	3.1 - 3.8	P 3.44	0.13	3.3 - 4.0	P 3.62	0.15	2.4 - 2.9	P 2.68	0.09	21
Siemens BCP & Siemens Dimension EXL	6	1.7 - 2.1	P 1.9	0.04	2.2 - 2.7	P 2.49	0.05	2.5 - 3.1	P 2.78	0.06	2.6 - 3.1	P 2.85	0.05	2.1 - 2.6	P 2.33	0.06	51
Siemens BCP & Siemens Dimension Xpand	7	1.7 - 2.1	P 1.87	0.05	2.2 - 2.7	P 2.47	0.06	2.5 - 3.0	P 2.75	0.06	2.5 - 3.1	P 2.81	0.07	2.1 - 2.6	P 2.32	0.05	15
Initial Grouping by Reagent																	
Alfa Wassermann	8	2.0 - 2.5	P 2.24	0.05	2.9 - 3.5	P 3.17	0.07	3.3 - 4.0	P 3.65	0.07	3.4 - 4.1	P 3.76	0.08	2.7 - 3.3	P 2.96	0.08	16
Beckman Olympus	9	1.9 - 2.3	P 2.09	0.06	2.8 - 3.4	P 3.09	0.07	3.2 - 3.9	P 3.54	0.08	3.3 - 4.0	P 3.64	0.09	2.5 - 3.1	P 2.82	0.08	50
Ortho Vitros	10	1.7 - 2.0	P 1.85	0.05	2.6 - 3.2	P 2.91	0.12	3.1 - 3.8	P 3.45	0.16	3.2 - 4.0	P 3.6	0.17	2.4 - 2.9	P 2.66	0.1	50
Roche Cobas	11	2.0 - 2.5	P 2.25	0.09	3.0 - 3.6	P 3.28	0.09	3.4 - 4.1	P 3.77	0.12	3.5 - 4.3	P 3.88	0.1	2.7 - 3.3	P 3.01	0.1	12
Roche Cobas BCG, gen II	12	2.0 - 2.5	P 2.27	0.11	3.0 - 3.6	P 3.31	0.1	3.4 - 4.2	P 3.82	0.08	3.5 - 4.3	P 3.92	0.09	2.8 - 3.4	P 3.08	0.06	17
Siemens BCP	13	1.7 - 2.1	P 1.89	0.04	2.2 - 2.7	P 2.48	0.05	2.5 - 3.1	P 2.78	0.06	2.6 - 3.1	P 2.85	0.06	2.1 - 2.6	P 2.33	0.06	72
Initial Grouping by Sensitivity or Principle																	

BCP-bromcresol purple	14	1.7 - 2.1	P 1.91	0.07	2.3 - 2.8	P 2.51	0.07	2.5 - 3.1	P 2.8	0.08	2.6 - 3.2	P 2.87	0.09	2.1 - 2.6	P 2.36	0.09	89
BCG-rapid (60 sec or less)	15	1.8 - 2.2	P 1.99	0.14	2.7 - 3.3	P 3.0	0.14	3.2 - 3.8	P 3.5	0.15	3.3 - 4.0	P 3.62	0.16	2.5 - 3.0	P 2.75	0.13	122
BCG-bromcresol green	16	2.0 - 2.4	P 2.22	0.1	2.9 - 3.5	P 3.18	0.13	3.3 - 4.0	P 3.66	0.18	3.4 - 4.1	P 3.76	0.16	2.6 - 3.2	P 2.94	0.16	102
Total Population																	
Whole Population	17	1.8 - 2.2	P 2.04	0.17	2.6 - 3.2	P 2.92	0.3	3.0 - 3.7	P 3.36	0.38	3.1 - 3.8	P 3.45	0.4	2.4 - 3.0	P 2.7	0.26	313

Alkaline Phosphatase

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	53 - 99	P 76.1	3.5	140 - 260	P 199.9	7.5	180 - 334	P 256.8	10.1	190 - 353	P 271.3	9.1	120 - 222	P 170.9	6.1	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	52 - 97	P 74.3	4.1	135 - 250	P 192.2	10.1	172 - 320	P 246.4	13.5	182 - 338	P 259.9	13.0	115 - 214	P 164.8	8.3	17
Beckman Coulter & Beck Coult Unicel DXC	3	47 - 87	P 67.3	4.5	123 - 229	P 175.9	8.8	159 - 295	P 227.0	12.1	167 - 310	P 238.4	12.9	104 - 194	P 149.2	6.5	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	48 - 89	P 68.7	4.5	126 - 234	P 179.8	12.4	162 - 302	P 232.0	17.1	171 - 317	P 243.7	17.5	107 - 199	P 153.2	11.1	24
Beckman Olympus & Beckman AU 480	5	48 - 90	P 68.9	5.5	126 - 233	P 179.6	14.5	161 - 299	P 229.8	19.0	170 - 315	P 242.3	20.3	107 - 198	P 152.6	13.6	19
Ortho Vitros & Ortho Vitros 3600, 5600	6	49 - 91	P 69.7	3.0	110 - 203	P 156.5	8.7	129 - 239	P 183.9	9.8	132 - 245	P 188.3	12.2	97 - 180	P 138.5	7.7	22
Ortho Vitros & Ortho Vitros not DT or ECi	7	50 - 94	P 72.0	3.6	112 - 209	P 160.4	8.6	132 - 244	P 188.0	11.5	136 - 253	P 194.4	12.8	100 - 186	P 143.2	7.2	21
Siemens Dimension & Siemens Dimension EXL	8	57 - 106	P 81.8	3.0	150 - 278	P 214.2	5.3	193 - 359	P 276.4	6.9	204 - 379	P 291.5	7.1	128 - 238	P 183.1	5.2	33
Siemens Dimension & Siemens Dimension Xpand	9	57 - 105	P 80.8	3.8	149 - 277	P 213.3	5.0	193 - 358	P 275.0	6.1	203 - 377	P 290.3	6.5	128 - 237	P 182.6	5.6	10
Siemens Dimension IFCC & Siemens Dimension EXL	10	57 - 106	P 81.4	2.5	150 - 278	P 213.9	5.3	193 - 358	P 275.7	5.5	203 - 377	P 290.2	7.1	128 - 237	P 182.4	3.7	20
Initial Grouping by Reagent																	
Abbott	11	53 - 99	P 76.1	3.5	140 - 260	P 199.9	7.5	180 - 334	P 256.8	10.1	190 - 353	P 271.3	9.1	120 - 222	P 170.9	6.1	16
Alfa Wassermann	12	52 - 97	P 74.3	4.1	135 - 250	P 192.2	10.1	172 - 320	P 246.4	13.5	182 - 338	P 259.9	13.0	115 - 214	P 164.8	8.3	17
Beckman Coulter	13	48 - 89	P 68.3	5.6	125 - 232	P 178.6	13.4	161 - 299	P 230.1	17.4	170 - 315	P 242.5	17.9	106 - 197	P 151.9	11.4	22
Beckman Olympus	14	48 - 89	P 68.8	4.9	126 - 234	P 179.7	13.1	162 - 301	P 231.3	17.7	170 - 316	P 243.2	18.4	107 - 199	P 153.2	12.0	45
Ortho Vitros	15	50 - 92	P 70.8	3.5	111 - 206	P 158.4	8.4	130 - 241	P 185.6	10.4	134 - 248	P 191.1	12.2	99 - 183	P 140.7	7.5	49
Roche IFCC Gen. 2	16	53 - 99	P 76.3	3.0	138 - 256	P 196.8	6.0	178 - 330	P 253.6	8.0	187 - 348	P 267.6	7.5	118 - 219	P 168.8	5.8	25
Siemens Dimension	17	57 - 106	P 81.3	3.3	149 - 277	P 213.4	5.7	193 - 359	P 275.8	7.3	203 - 378	P 290.7	7.2	128 - 237	P 182.6	5.4	47
Siemens Dimension IFCC	18	57 - 106	P 81.3	2.6	150 - 278	P 213.8	5.5	193 - 358	P 275.6	6.7	203 - 377	P 290.2	7.2	128 - 237	P 182.6	4.8	27
Initial Grouping by Sensitivity or Principle																	
IFCC Standardized	19	50 - 93	P 71.6	6.5	130 - 242	P 186.0	16.9	167 - 311	P 238.9	22.0	176 - 326	P 251.1	23.1	111 - 206	P 158.7	14.5	155
Vitros and related methods	20	50 - 92	P 70.8	3.5	111 - 206	P 158.4	8.4	130 - 241	P 185.6	10.4	134 - 248	P 191.1	12.2	99 - 183	P 140.7	7.5	49
IFCC Gen 2	21	55 - 103	P 78.9	3.8	144 - 267	P 205.6	10.3	185 - 344	P 264.8	13.2	196 - 363	P 279.4	13.5	123 - 229	P 175.8	8.7	52
Siemens and related	22	57 - 105	P 81.1	3.3	149 - 277	P 212.9	5.9	193 - 358	P 275.1	7.6	203 - 377	P 289.9	7.8	128 - 237	P 182.2	5.5	50
Total Population																	
Whole Population	23	52 - 96	P 74.1	6.7	132 - 246	P 189.0	21.7	168 - 312	P 240.0	32.9	176 - 328	P 252.0	35.9	114 - 211	P 162.2	17.8	314

Aspartate Aminotransferase (AST or SGOT)

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	107 - 160	P 133.5	2.7	172 - 259	P 215.5	3.7	205 - 308	P 256.5	5.7	212 - 319	P 265.5	4.7	155 - 233	P 194.3	3.6	13
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	98 - 147	P 122.4	2.9	158 - 236	P 197.0	2.6	188 - 282	P 234.8	3.6	194 - 291	P 242.4	4.5	143 - 215	P 178.9	2.8	18
Beckman Coulter & Beck Coult Unicel DXC	3	106 - 159	P 132.9	2.8	168 - 252	P 210.0	4.1	200 - 301	P 250.6	4.5	207 - 311	P 259.2	3.8	153 - 230	P 191.8	2.7	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	94 - 141	P 117.7	4.4	151 - 227	P 188.8	6.3	180 - 270	P 225.3	7.2	186 - 279	P 232.3	7.4	136 - 204	P 170.2	5.5	27
Beckman Olympus & Beckman AU 480	5	95 - 142	P 118.3	4.2	152 - 228	P 189.9	6.8	181 - 271	P 225.9	7.9	186 - 279	P 232.9	8.1	137 - 205	P 171.1	6.2	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	107 - 160	P 133.5	3.2	185 - 278	P 231.3	5.3	229 - 343	P 285.8	9.3	239 - 359	P 299.0	7.9	164 - 245	P 204.4	6.1	22
Ortho Vitros & Ortho Vitros not DT or ECi	7	105 - 158	P 131.3	3.2	181 - 272	P 226.4	5.8	227 - 340	P 283.4	7.1	239 - 358	P 298.5	10.2	161 - 242	P 201.4	4.7	21
Roche Cobas & Roche Cobas 6000, 8000	8	110 - 164	P 136.9	4.2	176 - 264	P 220.0	6.8	209 - 313	P 261.1	7.9	216 - 324	P 270.2	7.5	160 - 239	P 199.4	5.1	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	111 - 166	P 138.6	3.5	179 - 269	P 223.8	4.7	211 - 317	P 264.3	4.9	220 - 330	P 275.1	4.3	162 - 243	P 202.6	4.3	10
Siemens Dimension & Siemens Dimension EXL	10	106 - 159	P 132.3	2.2	173 - 260	P 216.7	4.6	207 - 311	P 259.0	6.3	216 - 323	P 269.4	6.0	158 - 237	P 197.1	3.8	44
Siemens Dimension & Siemens Dimension Xpand	11	109 - 164	P 136.7	3.3	179 - 268	P 223.4	5.1	214 - 321	P 267.3	6.2	221 - 332	P 276.3	6.1	162 - 243	P 202.5	4.8	15
Initial Grouping by Reagent																	
Abbott Architect	12	107 - 160	P 133.5	2.7	172 - 259	P 215.5	3.7	205 - 308	P 256.5	5.7	212 - 319	P 265.5	4.7	155 - 233	P 194.3	3.6	13
Alfa Wassermann	13	98 - 147	P 122.4	2.9	158 - 236	P 197.0	2.6	188 - 282	P 234.8	3.6	194 - 291	P 242.4	4.5	143 - 215	P 178.9	2.8	18
Beckman Coulter	14	100 - 150	P 125.0	8.5	159 - 239	P 199.3	11.7	190 - 285	P 237.7	14.1	196 - 295	P 245.6	14.5	145 - 217	P 181.0	11.4	22
Beckman Olympus	15	95 - 142	P 118.2	4.4	152 - 227	P 189.5	6.6	181 - 271	P 225.8	7.5	186 - 280	P 233.0	7.9	137 - 205	P 170.8	5.8	49
Carolina	16	111 - 167	P 138.8	9.0	178 - 267	P 222.9	15.7	213 - 320	P 266.8	19.6	221 - 331	P 276.1	21.6	162 - 242	P 202.0	14.2	10
Ortho Vitros	17	106 - 159	P 132.8	3.4	184 - 276	P 229.6	6.3	228 - 342	P 285.2	8.4	240 - 360	P 300.0	9.8	163 - 244	P 203.5	5.8	49
Roche Cobas	18	110 - 165	P 137.5	3.6	177 - 265	P 220.9	5.6	209 - 314	P 261.8	6.4	217 - 326	P 271.7	6.4	160 - 240	P 200.4	4.7	30
Siemens Dimension	19	107 - 160	P 133.4	3.4	175 - 262	P 218.4	5.5	209 - 314	P 261.3	7.1	217 - 325	P 271.2	6.7	159 - 238	P 198.6	4.7	65
Initial Grouping by Sensitivity or Principle																	
Other no P5P	20	105 - 157	P 130.7	10.4	167 - 251	P 209.1	16.1	200 - 300	P 250.2	20.0	206 - 309	P 257.5	20.6	152 - 228	P 190.3	14.5	39
Standardized methods	21	101 - 151	P 125.7	9.6	160 - 241	P 200.6	14.9	191 - 287	P 238.9	18.2	197 - 296	P 246.7	18.4	145 - 218	P 181.7	14.0	118
Vitros and related	22	106 - 159	P 132.8	3.4	184 - 276	P 229.6	6.3	228 - 342	P 285.2	8.4	240 - 360	P 300.0	9.8	163 - 244	P 203.5	5.8	49

Roche and related	23	110 - 165	P 137.5	3.6	177 - 265	P 220.9	5.6	209 - 314	P 261.8	6.4	217 - 326	P 271.7	6.4	160 - 240	P 200.4	4.7	30
Siemens and related	24	107 - 161	P 133.8	4.2	175 - 263	P 219.1	6.4	210 - 315	P 262.1	8.2	218 - 326	P 271.9	8.0	159 - 239	P 198.9	5.7	78
Other P5P	25	120 - 181	P 150.6	7.6	192 - 288	P 239.7	12.6	229 - 344	P 286.8	14.6	241 - 361	P 301.1	14.7	176 - 263	P 219.4	11.6	10
Total Population																	
Whole Population	26	105 - 157	P 131.1	9.1	171 - 256	P 213.5	16.4	205 - 308	P 256.5	22.1	213 - 319	P 266.1	24.1	154 - 232	P 193.1	14.7	324

Bicarbonate (Total CO2)

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	11 - 19	C 15.1	1.8	18 - 26	P 22.0	2.1	21 - 31	P 25.9	1.8	21 - 31	P 26.1	2.3	16 - 24	P 20.4	1.8	15
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	13 - 21	C 17.2	2.1	20 - 30	P 24.9	2.2	23 - 34	P 28.6	3.1	23 - 35	P 29.1	3.3	18 - 27	P 22.2	3.3	17
Beckman Coulter & Beck Coult Unicel DXC	3	12 - 20	C 16.4	2.3	18 - 27	P 22.7	2.3	22 - 33	P 27.3	2.1	22 - 33	P 27.8	2.5	17 - 26	P 21.6	2.2	12
Beckman Olympus & Beck Olym AU 400/600/5400	4	12 - 20	C 16.0	1.5	19 - 29	P 24.1	2.0	23 - 34	P 28.5	2.3	23 - 35	P 29.1	2.7	18 - 27	P 22.2	2.1	25
Beckman Olympus & Beckman AU 480	5	12 - 20	C 16.3	1.6	20 - 29	P 24.5	1.9	23 - 35	P 29.2	2.0	24 - 36	P 29.7	2.0	18 - 27	P 22.4	1.5	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	10 - 18	C 14.1	1.0	17 - 25	P 21.1	2.2	21 - 31	P 25.9	1.5	21 - 32	P 26.5	1.8	15 - 23	C 19.2	1.4	21
Ortho Vitros & Ortho Vitros not DT or ECi	7	10 - 18	C 14.2	1.1	17 - 26	P 21.7	1.4	20 - 30	P 25.4	1.4	20 - 30	P 24.8	2.1	14 - 22	C 18.2	1.3	18
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	11 - 19	C 14.7	1.7	18 - 27	P 22.1	1.8	21 - 31	P 25.9	2.5	21 - 31	P 26.2	2.6	16 - 24	C 19.5	2.3	10
Siemens ECO2 & Siemens Dimension EXL	9	14 - 22	C 18.1	1.6	21 - 31	P 25.7	2.0	24 - 36	P 29.9	2.4	24 - 37	P 30.5	2.0	19 - 28	P 23.5	2.3	51
Siemens ECO2 & Siemens Dimension Xpand	10	14 - 22	C 17.9	2.0	21 - 31	P 25.7	2.0	23 - 35	P 29.1	2.4	24 - 36	P 29.6	2.1	18 - 28	P 23.1	2.4	14
Initial Grouping by Reagent																	
Abbott Architect	11	11 - 19	C 15.1	1.8	18 - 26	P 22.0	2.1	21 - 31	P 25.9	1.8	21 - 31	P 26.1	2.3	16 - 24	P 20.4	1.8	15
Alfa Wassermann	12	13 - 21	C 17.2	2.1	20 - 30	P 24.9	2.2	23 - 34	P 28.6	3.1	23 - 35	P 29.1	3.3	18 - 27	P 22.2	3.3	17
Beckman Coulter	13	12 - 20	C 15.7	2.7	18 - 27	P 22.5	3.0	22 - 33	P 27.3	2.9	22 - 34	P 28.0	3.2	17 - 26	P 21.4	2.6	23
Beckman Olympus	14	12 - 20	C 16.1	1.5	19 - 29	P 24.2	1.9	23 - 35	P 28.8	2.2	23 - 35	P 29.3	2.4	18 - 27	P 22.3	1.8	47
Carolina	15	14 - 22	C 17.5	1.5	20 - 30	P 24.6	2.5	23 - 35	P 28.8	2.6	23 - 35	P 29.2	2.7	18 - 27	P 22.9	2.1	11
Ortho Vitros	16	10 - 18	C 14.0	1.1	17 - 26	P 21.3	1.8	20 - 31	P 25.6	1.4	21 - 31	P 25.8	2.0	15 - 23	C 18.8	1.5	44
Roche Cobas	17	11 - 19	C 14.9	2.0	18 - 26	P 21.9	2.4	20 - 31	P 25.6	2.5	21 - 31	P 25.9	2.9	16 - 24	C 19.8	2.8	27
Sekisui	18	13 - 21	C 16.6	2.7	19 - 29	P 23.9	2.8	22 - 33	P 27.6	3.0	23 - 34	P 28.4	2.7	17 - 26	P 21.7	2.5	14
Siemens ECO2	19	14 - 22	C 18.1	1.6	21 - 31	P 25.7	2.0	24 - 36	P 29.7	2.4	24 - 36	P 30.3	2.1	19 - 28	P 23.4	2.3	72
Initial Grouping by Sensitivity or Principle																	
UV/kinetic (rate) methods	20	12 - 20	C 15.5	2.3	18 - 27	P 22.5	2.5	21 - 31	P 26.2	2.6	21 - 32	P 26.8	3.2	16 - 25	P 20.5	2.9	35
Diluted ISE results	21	12 - 20	C 15.8	2.5	18 - 27	P 22.7	2.8	22 - 32	P 27.0	2.6	22 - 33	P 27.5	3.0	17 - 26	P 21.3	2.5	42
UV/bichromatic methods	22	12 - 20	C 16.4	1.7	19 - 29	P 24.3	2.0	23 - 34	P 28.5	2.6	23 - 35	P 29.1	2.6	18 - 27	P 22.2	2.2	72
UV/uncorrected methods	23	12 - 20	C 16.1	2.4	19 - 28	P 23.5	2.7	22 - 33	P 27.2	2.9	22 - 33	P 27.7	3.3	17 - 26	P 21.3	2.9	42
Undiluted ISE results	24	10 - 18	C 14.0	1.1	17 - 26	P 21.3	1.8	20 - 31	P 25.6	1.4	21 - 31	P 25.8	2.0	15 - 23	C 18.8	1.5	44
All other methods	25	14 - 22	C 18.1	1.6	21 - 31	P 25.7	2.0	24 - 36	P 29.7	2.4	24 - 36	P 30.3	2.1	19 - 28	P 23.4	2.3	72
Total Population																	
Whole Population	26	12 - 20	C 16.2	2.3	19 - 28	P 23.7	2.7	22 - 33	P 27.7	2.8	23 - 34	P 28.2	3.1	17 - 26	P 21.5	2.8	309

Bilirubin, Total

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	0.6 - 1.4	C 0.97	0.11	2.4 - 3.7	P 3.06	0.21	3.2 - 4.8	P 4.04	0.25	3.4 - 5.1	P 4.26	0.28	2.0 - 3.0	P 2.51	0.17	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	0.8 - 1.6	C 1.17	0.06	3.0 - 4.5	P 3.72	0.13	4.0 - 6.0	P 5.04	0.2	4.2 - 6.4	P 5.3	0.19	2.5 - 3.7	P 3.09	0.12	18
Beckman Coulter & Beck Coult Unicel DXC	3	0.8 - 1.6	C 1.24	0.11	2.9 - 4.3	P 3.58	0.25	3.8 - 5.7	P 4.76	0.21	4.0 - 6.1	P 5.05	0.21	2.4 - 3.6	P 2.99	0.17	11
Beckman Olympus & Beck Olym AU 400/600/5400	4	0.6 - 1.4	C 1.03	0.07	2.6 - 3.9	P 3.26	0.18	3.5 - 5.2	P 4.34	0.24	3.6 - 5.5	P 4.56	0.22	2.2 - 3.2	P 2.7	0.14	25
Beckman Olympus & Beckman AU 480	5	0.6 - 1.4	C 1.04	0.05	2.6 - 3.9	P 3.25	0.1	3.4 - 5.2	P 4.3	0.15	3.6 - 5.4	P 4.53	0.12	2.2 - 3.2	P 2.69	0.09	20
Ortho Vitros & Ortho Vitros 3600, 5600	6	0.4 - 1.2	C 0.75	0.08	2.6 - 3.9	P 3.26	0.23	3.5 - 5.3	P 4.4	0.23	3.7 - 5.6	P 4.65	0.23	2.1 - 3.1	P 2.57	0.16	22
Ortho Vitros & Ortho Vitros not DT or ECi	7	0.4 - 1.2	C 0.83	0.08	2.7 - 4.0	P 3.37	0.17	3.7 - 5.5	P 4.59	0.23	3.9 - 5.8	P 4.85	0.23	2.2 - 3.3	P 2.71	0.13	20
Siemens Dimension & Siemens Dimension EXL	8	0.5 - 1.3	C 0.92	0.05	2.5 - 3.7	P 3.12	0.11	3.3 - 5.0	P 4.17	0.18	3.5 - 5.3	P 4.41	0.17	2.0 - 3.0	P 2.54	0.11	49
Siemens Dimension & Siemens Dimension Xpand	9	0.5 - 1.3	C 0.9	0.07	2.4 - 3.6	P 3.02	0.18	3.3 - 4.9	P 4.08	0.23	3.4 - 5.2	P 4.3	0.24	2.0 - 3.0	P 2.46	0.15	16
Initial Grouping by Reagent																	
Abbott Architect	10	0.6 - 1.4	C 0.97	0.11	2.4 - 3.7	P 3.06	0.21	3.2 - 4.8	P 4.04	0.25	3.4 - 5.1	P 4.26	0.28	2.0 - 3.0	P 2.51	0.17	16
Alfa Wassermann	11	0.8 - 1.6	C 1.17	0.06	3.0 - 4.5	P 3.72	0.13	4.0 - 6.0	P 5.04	0.2	4.2 - 6.4	P 5.3	0.19	2.5 - 3.7	P 3.09	0.12	18
Beckman Coulter	12	0.7 - 1.5	C 1.13	0.14	2.7 - 4.1	P 3.43	0.25	3.6 - 5.5	P 4.56	0.27	3.8 - 5.8	P 4.81	0.3	2.3 - 3.4	P 2.85	0.2	22
Beckman Olympus	13	0.6 - 1.4	C 1.03	0.06	2.6 - 3.9	P 3.26	0.15	3.5 - 5.2	P 4.33	0.2	3.6 - 5.5	P 4.55	0.18	2.2 - 3.2	P 2.7	0.12	48
Ortho Vitros	14	0.4 - 1.2	C 0.79	0.09	2.7 - 4.0	P 3.32	0.21	3.6 - 5.4	P 4.5	0.26	3.8 - 5.7	P 4.76	0.26	2.1 - 3.2	P 2.64	0.17	49
Roche Cobas	15	0.5 - 1.3	C 0.91	0.05	2.4 - 3.6	P 3.02	0.1	3.3 - 4.9	P 4.09	0.12	3.4 - 5.2	P 4.31	0.13	2.0 - 3.0	P 2.48	0.1	18
Roche Cobas BILTS	16	0.5 - 1.3	C 0.88	0.06	2.4 - 3.5	P 2.95	0.14	3.2 - 4.9	P 4.05	0.2	3.4 - 5.1	P 4.28	0.2	2.0 - 2.9	P 2.45	0.1	12
Siemens Dimension	17	0.5 - 1.3	C 0.92	0.06	2.5 - 3.7	P 3.09	0.14	3.3 - 5.0	P 4.15	0.2	3.5 - 5.3	P 4.38	0.19	2.0 - 3.0	P 2.53	0.13	72
Initial Grouping by Sensitivity or Principle																	
Oxidation	18	0.7 - 1.5	C 1.12	0.07	2.7 - 4.0	P 3.35	0.28	3.7 - 5.5	P 4.6	0.29	3.8 - 5.7	P 4.79	0.3	2.3 - 3.4	P 2.84	0.22	13
Diazonium ion	19	0.5 - 1.3	C 0.93	0.14	2.6 - 3.9	P 3.25	0.21	3.5 - 5.2	P 4.35	0.28	3.7 - 5.5	P 4.59	0.29	2.1 - 3.2	P 2.65	0.17	132

Diazo/DMSO	20	0.7 - 1.5	C 1.1	0.13	2.9 - 4.3	P 3.57	0.27	3.9 - 5.8	P 4.83	0.38	4.1 - 6.1	P 5.07	0.4	2.4 - 3.5	P 2.95	0.25	28
Diazo/caffeine-benzoate	21	0.6 - 1.4	C 0.96	0.12	2.5 - 3.8	P 3.17	0.22	3.4 - 5.1	P 4.23	0.29	3.6 - 5.4	P 4.47	0.3	2.1 - 3.1	P 2.59	0.21	104
Diazo/surfactant	22	0.5 - 1.3	C 0.92	0.08	2.5 - 3.7	P 3.07	0.22	3.4 - 5.0	P 4.19	0.33	3.5 - 5.3	P 4.4	0.29	2.0 - 3.0	P 2.54	0.19	39
Total Population																	
Whole Population	23	0.6 - 1.4	C 0.96	0.14	2.6 - 3.9	P 3.23	0.25	3.5 - 5.2	P 4.34	0.34	3.7 - 5.5	P 4.57	0.35	2.1 - 3.2	P 2.65	0.22	320

Calcium

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	6.9 - 8.9	C 7.88	0.12	9.5 - 11.5	C 10.52	0.18	10.8 - 12.8	C 11.83	0.14	11.1 - 13.1	C 12.13	0.15	8.8 - 10.8	C 9.84	0.12	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	7.1 - 9.1	C 8.09	0.23	9.6 - 11.6	C 10.62	0.25	10.9 - 12.9	C 11.86	0.28	11.2 - 13.2	C 12.18	0.32	9.1 - 11.1	C 10.14	0.25	18
Beckman Olympus Arsenazo & Beck Olym AU 400/600/5400	3	6.7 - 8.7	C 7.69	0.2	9.3 - 11.3	C 10.25	0.2	10.5 - 12.5	C 11.5	0.2	10.7 - 12.7	C 11.69	0.27	8.6 - 10.6	C 9.62	0.15	23
Beckman Olympus Arsenazo & Beckman AU 480	4	6.9 - 8.9	C 7.86	0.24	9.3 - 11.3	C 10.32	0.24	10.6 - 12.6	C 11.55	0.27	10.8 - 12.8	C 11.83	0.27	8.8 - 10.8	C 9.75	0.25	19
Ortho Vitros & Ortho Vitros 3600, 5600	5	6.8 - 8.8	C 7.79	0.09	9.5 - 11.5	C 10.47	0.17	10.7 - 12.7	C 11.7	0.22	11.0 - 13.0	C 11.96	0.22	8.8 - 10.8	C 9.83	0.18	22
Ortho Vitros & Ortho Vitros not DT or ECi	6	6.8 - 8.8	C 7.84	0.21	9.6 - 11.6	C 10.58	0.23	10.9 - 12.9	C 11.85	0.27	11.2 - 13.2	C 12.2	0.25	9.0 - 11.0	C 10.0	0.24	21
Roche Cobas & Roche Cobas 6000, 8000	7	7.0 - 9.0	C 8.01	0.19	9.5 - 11.5	C 10.53	0.19	10.8 - 12.8	C 11.84	0.23	11.1 - 13.1	C 12.14	0.21	9.0 - 11.0	C 10.02	0.22	10
Roche Cobas & Roche Cobas Integra	8	7.1 - 9.1	C 8.12	0.15	9.8 - 11.8	C 10.75	0.17	11.0 - 13.0	C 12.01	0.18	11.3 - 13.3	C 12.31	0.16	9.1 - 11.1	C 10.1	0.16	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	7.0 - 9.0	C 7.95	0.17	9.6 - 11.6	C 10.55	0.17	10.9 - 12.9	C 11.9	0.18	11.2 - 13.2	C 12.16	0.18	9.0 - 11.0	C 9.95	0.15	10
Siemens OCPC & Siemens Dimension EXL	10	6.7 - 8.7	C 7.73	0.16	9.3 - 11.3	C 10.26	0.24	10.5 - 12.5	C 11.53	0.26	10.9 - 12.9	C 11.85	0.3	8.6 - 10.6	C 9.61	0.23	51
Siemens OCPC & Siemens Dimension Xpand	11	6.7 - 8.7	C 7.73	0.25	9.2 - 11.2	C 10.17	0.34	10.4 - 12.4	C 11.41	0.36	10.8 - 12.8	C 11.78	0.33	8.5 - 10.5	C 9.53	0.34	15
Initial Grouping by Reagent																	
Abbott	12	6.9 - 8.9	C 7.88	0.12	9.5 - 11.5	C 10.52	0.18	10.8 - 12.8	C 11.83	0.14	11.1 - 13.1	C 12.13	0.15	8.8 - 10.8	C 9.84	0.12	16
Alfa Wassermann	13	7.1 - 9.1	C 8.09	0.23	9.6 - 11.6	C 10.62	0.25	10.9 - 12.9	C 11.86	0.28	11.2 - 13.2	C 12.18	0.32	9.1 - 11.1	C 10.14	0.25	18
Beckman Coulter	14	6.8 - 8.8	C 7.81	0.2	9.3 - 11.3	C 10.26	0.24	10.5 - 12.5	C 11.5	0.26	10.8 - 12.8	C 11.8	0.29	8.7 - 10.7	C 9.68	0.18	19
Beckman Olympus Arsenazo	15	6.8 - 8.8	C 7.76	0.23	9.3 - 11.3	C 10.29	0.22	10.5 - 12.5	C 11.52	0.24	10.8 - 12.8	C 11.76	0.28	8.7 - 10.7	C 9.68	0.21	43
Ortho Vitros	16	6.8 - 8.8	C 7.82	0.16	9.5 - 11.5	C 10.53	0.2	10.8 - 12.8	C 11.77	0.24	11.1 - 13.1	C 12.08	0.26	8.9 - 10.9	C 9.92	0.22	49
Roche Cobas	17	7.0 - 9.0	C 8.03	0.19	9.6 - 11.6	C 10.61	0.21	10.9 - 12.9	C 11.92	0.21	11.2 - 13.2	C 12.2	0.2	9.0 - 11.0	C 10.02	0.19	30
Siemens OCPC	18	6.7 - 8.7	C 7.74	0.19	9.3 - 11.3	C 10.25	0.28	10.5 - 12.5	C 11.52	0.31	10.8 - 12.8	C 11.84	0.32	8.6 - 10.6	C 9.62	0.28	73
Initial Grouping by Sensitivity or Principle																	
Arsenazo-based	19	6.9 - 8.9	C 7.85	0.24	9.4 - 11.4	C 10.4	0.27	10.7 - 12.7	C 11.65	0.32	10.9 - 12.9	C 11.9	0.36	8.8 - 10.8	C 9.81	0.26	197
OCPC (o-cresolphth complex)	20	6.8 - 8.8	C 7.82	0.24	9.4 - 11.4	C 10.35	0.32	10.6 - 12.6	C 11.63	0.34	10.9 - 12.9	C 11.94	0.33	8.7 - 10.7	C 9.74	0.31	112
Total Population																	
Whole Population	21	6.8 - 8.8	C 7.84	0.24	9.4 - 11.4	C 10.38	0.3	10.6 - 12.6	C 11.64	0.33	10.9 - 12.9	C 11.91	0.35	8.8 - 10.8	C 9.79	0.29	320

Chloride

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	88 - 98	P 93.0	0.8	97 - 108	P 102.5	0.8	102 - 113	P 107.4	0.9	103 - 114	P 108.5	1.1	95 - 105	P 100.3	0.8	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	87 - 96	P 91.7	1.7	99 - 110	P 104.3	1.6	106 - 117	P 111.2	1.5	107 - 119	P 112.9	1.6	96 - 106	P 101.3	1.5	18
Beckman Coulter & Beck Coult Unicel DXC	3	87 - 96	P 91.8	1.2	96 - 107	P 101.5	1.7	101 - 112	P 106.7	1.7	102 - 113	P 107.8	1.8	95 - 105	P 99.6	1.8	11
Beckman Coulter & Beckman AU 480	4	87 - 96	P 91.4	1.7	96 - 106	P 101.4	1.2	101 - 112	P 106.8	0.9	103 - 113	P 108.0	1.4	95 - 104	P 99.5	1.3	10
Beckman Olympus & Beck Olym AU 400/600/5400	5	87 - 96	P 91.5	1.7	96 - 107	P 101.5	1.9	101 - 112	P 106.6	2.1	102 - 113	P 107.8	2.3	94 - 104	P 99.3	1.8	28
Beckman Olympus & Beckman AU 480	6	87 - 96	P 91.2	1.2	97 - 107	P 101.7	1.2	101 - 112	P 106.7	1.5	103 - 113	P 107.9	0.9	95 - 104	P 99.5	1.2	19
Ortho Vitros & Ortho Vitros 3600, 5600	7	87 - 96	P 91.6	1.0	97 - 107	P 102.2	1.0	102 - 113	P 107.7	1.4	103 - 114	P 108.8	1.6	95 - 105	P 99.7	1.0	21
Ortho Vitros & Ortho Vitros not DT or ECi	8	88 - 97	P 92.2	1.3	98 - 109	P 103.4	1.3	104 - 114	P 109.0	1.7	105 - 116	P 110.9	1.8	96 - 106	P 101.2	1.5	21
Roche Cobas dil ISE & Roche Cobas 6000, 8000	9	84 - 93	P 88.4	1.8	95 - 105	P 99.7	2.0	101 - 111	P 105.8	1.9	102 - 112	P 106.9	1.1	92 - 102	P 96.9	1.3	10
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	85 - 94	P 89.5	0.9	98 - 108	P 103.2	1.0	105 - 116	P 110.1	1.2	106 - 117	P 111.4	1.1	95 - 105	P 99.9	0.9	53
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	85 - 94	P 89.1	0.9	98 - 108	P 102.7	0.9	104 - 115	P 109.6	0.9	105 - 116	P 110.9	1.0	95 - 104	P 99.5	1.0	15
Initial Grouping by Reagent																	
Abbott	12	88 - 98	P 93.0	0.8	97 - 108	P 102.5	0.8	102 - 113	P 107.4	0.9	103 - 114	P 108.5	1.1	95 - 105	P 100.3	0.8	16
Alfa Wassermann	13	87 - 96	P 91.7	1.7	99 - 110	P 104.3	1.6	106 - 117	P 111.2	1.5	107 - 119	P 112.9	1.6	96 - 106	P 101.3	1.5	18
Beckman Coulter	14	87 - 96	P 91.6	1.6	97 - 107	P 101.6	1.5	101 - 112	P 106.7	1.4	103 - 113	P 107.9	1.6	95 - 105	P 99.6	1.5	25
Beckman Olympus	15	87 - 96	P 91.4	1.5	97 - 107	P 101.6	1.7	101 - 112	P 106.7	1.8	102 - 113	P 107.8	1.8	94 - 104	P 99.4	1.6	50
Ortho Vitros	16	87 - 96	P 91.9	1.2	98 - 108	P 102.7	1.4	103 - 114	P 108.4	1.7	104 - 115	P 109.8	2.0	95 - 105	P 100.4	1.6	48
Roche Cobas dil ISE	17	85 - 94	P 89.8	2.3	96 - 106	P 101.3	2.6	102 - 113	P 107.2	2.5	103 - 114	P 108.6	2.7	94 - 104	P 98.6	2.4	25
Siemens QuickLYTE IMT	18	85 - 94	P 89.4	1.1	98 - 108	P 103.0	1.0	104 - 115	P 109.9	1.2	106 - 117	P 111.3	1.1	95 - 105	P 99.7	1.0	74
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE	19	87 - 96	P 91.8	1.5	98 - 108	P 103.2	2.1	104 - 115	P 109.1	2.3	105 - 116	P 110.5	2.6	96 - 106	P 100.7	2.0	86
Colorimetric	20	87 - 96	P 91.3	3.2	98 - 109	P 103.6	2.9	104 - 114	P 109.0	3.3	105 - 116	P 110.1	3.1	96 - 106	P 100.7	3.2	14
Diluted ISE	21	86 - 95	P 90.7	2.0	97 - 107	P 102.3	1.9	103 - 114	P 108.2	2.3	104 - 115	P 109.4	2.4	95 - 105	P 99.7	1.7	204
All Medica Synermed	22	85 - 94	P 89.4	2.7	98 - 108	P 103.2	2.8	105 - 116	P 110.1	3.3	107 - 118	P 112.4	3.9	95 - 105	P 100.0	2.0	12
Total Population																	

Whole Population	23	86 - 96	P 91.0	2.0	98 - 108	P 102.7	2.1	103 - 114	P 108.5	2.5	104 - 115	P 109.9	2.6	95 - 105	P 100.0	1.9	317

Cholesterol, Total

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	72 - 88	P 80.1	1.0	132 - 161	P 146.6	1.4	162 - 199	P 180.5	1.3	169 - 207	P 188.2	1.6	117 - 143	P 130.1	1.1	15
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	74 - 90	P 81.8	1.6	132 - 162	P 147.1	2.7	163 - 199	P 180.7	3.5	170 - 208	P 189.2	5.8	118 - 144	P 131.3	2.9	14
Beckman Olympus & Beck Olym AU 400/600/5400	3	68 - 83	P 75.5	2.1	126 - 154	P 140.2	2.9	154 - 189	P 171.4	4.2	162 - 197	P 179.5	5.0	112 - 136	P 124.0	4.0	23
Beckman Olympus & Beckman AU 480	4	70 - 86	P 77.9	3.0	130 - 159	P 144.4	5.4	159 - 194	P 176.7	6.0	166 - 203	P 184.6	6.2	114 - 140	P 127.1	4.5	17
Ortho Vitros & Ortho Vitros 3600, 5600	5	61 - 74	P 67.7	4.3	128 - 156	P 142.1	3.7	160 - 196	P 178.0	5.4	168 - 205	P 186.5	5.4	111 - 136	P 123.6	2.5	22
Ortho Vitros & Ortho Vitros not DT or ECi	6	62 - 75	P 68.5	4.1	128 - 156	P 142.0	3.5	159 - 195	P 176.9	3.8	167 - 204	P 185.6	3.8	113 - 138	P 125.7	3.3	20
Roche Cobas & Roche Cobas 6000, 8000	7	71 - 86	P 78.5	2.0	129 - 158	P 143.4	2.6	159 - 194	P 176.2	3.0	166 - 202	P 183.9	3.1	115 - 140	P 127.5	2.9	11
Roche Cobas & Roche Cobas Integra	8	71 - 87	P 79.1	1.8	131 - 160	P 145.4	3.5	161 - 197	P 179.4	3.8	168 - 205	P 186.4	4.1	117 - 144	P 130.5	3.1	10
Siemens Dimension & Siemens Dimension EXL	9	67 - 82	P 74.7	3.0	127 - 155	P 140.6	3.6	156 - 191	P 173.5	3.9	163 - 199	P 181.2	4.2	112 - 136	P 123.9	4.1	51
Siemens Dimension & Siemens Dimension Xpand	10	68 - 83	P 75.4	4.1	125 - 153	P 139.3	4.0	155 - 189	P 172.1	4.9	162 - 198	P 179.6	5.5	111 - 136	P 123.4	4.2	16
Initial Grouping by Reagent																	
Abbott	11	72 - 88	P 80.1	1.0	132 - 161	P 146.6	1.4	162 - 199	P 180.5	1.3	169 - 207	P 188.2	1.6	117 - 143	P 130.1	1.1	15
Alfa Wassermann	12	73 - 90	P 81.6	1.7	132 - 162	P 146.9	2.7	162 - 198	P 180.3	3.7	170 - 208	P 188.7	5.9	118 - 144	P 131.0	3.0	15
Beckman Coulter	13	70 - 85	P 77.7	3.0	130 - 159	P 144.9	6.0	162 - 198	P 180.1	8.4	168 - 205	P 186.6	7.1	116 - 142	P 129.3	6.1	18
Beckman Olympus	14	69 - 84	P 76.6	2.7	128 - 156	P 141.9	4.6	156 - 191	P 173.6	5.6	163 - 200	P 181.6	6.0	113 - 138	P 125.2	4.4	42
Carolina	15	74 - 90	P 81.8	4.0	134 - 164	P 148.9	4.5	164 - 200	P 181.9	5.7	172 - 210	P 191.3	6.9	120 - 147	P 133.3	4.8	10
Ortho Vitros	16	61 - 75	P 67.9	4.1	128 - 156	P 141.9	3.6	159 - 195	P 177.1	4.9	167 - 204	P 185.7	4.8	112 - 137	P 124.5	3.1	46
Pointe Scientific	17	73 - 89	P 81.1	2.6	134 - 164	P 149.0	5.5	168 - 205	P 186.4	6.4	174 - 213	P 193.7	6.9	120 - 147	P 133.7	5.0	12
Roche Cobas	18	71 - 86	P 78.5	1.8	130 - 158	P 143.9	3.3	160 - 195	P 177.3	3.7	166 - 203	P 184.7	3.7	115 - 141	P 128.3	3.3	31
Siemens Dimension	19	67 - 82	P 74.9	3.5	126 - 154	P 140.3	3.9	156 - 191	P 173.2	4.5	163 - 199	P 180.9	4.8	111 - 136	P 123.7	4.2	73
Stering Diagnostic	20	71 - 87	P 79.1	3.5	129 - 158	P 143.4	4.6	157 - 192	P 174.8	4.8	161 - 197	P 178.9	3.1	115 - 140	P 127.5	2.5	12
Initial Grouping by Sensitivity or Principle																	
All enzymatic cholesterol	21	69 - 84	P 76.2	5.1	129 - 158	P 143.4	5.2	159 - 195	P 176.9	6.4	166 - 203	P 184.5	6.6	114 - 140	P 127.0	5.4	310
Total Population																	
Whole Population	22	69 - 84	P 76.2	5.1	129 - 158	P 143.4	5.2	159 - 195	P 176.9	6.4	166 - 203	P 184.5	6.6	114 - 140	P 127.0	5.4	310

Creatinine

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	0.6 - 1.2	C 0.86	0.06	2.6 - 3.5	P 3.01	0.09	3.5 - 4.7	P 4.08	0.1	3.7 - 5.0	P 4.34	0.11	2.1 - 2.9	P 2.48	0.06	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	0.8 - 1.4	C 1.1	0.08	2.4 - 3.3	P 2.84	0.15	3.1 - 4.2	P 3.62	0.16	3.2 - 4.4	P 3.81	0.17	2.0 - 2.8	P 2.41	0.1	20
Beckman Olympus & Beck Olym AU 400/600/5400	3	0.7 - 1.3	C 0.96	0.06	2.4 - 3.3	P 2.85	0.1	3.2 - 4.3	P 3.76	0.12	3.4 - 4.6	P 3.97	0.13	2.0 - 2.7	P 2.38	0.08	27
Beckman Olympus & Beckman AU 480	4	0.6 - 1.3	C 0.95	0.05	2.4 - 3.3	P 2.84	0.06	3.2 - 4.3	P 3.76	0.11	3.4 - 4.6	P 3.96	0.1	2.0 - 2.7	P 2.39	0.05	20
Ortho Vitros 1-slide enz & Ortho Vitros 3600, 5600	5	0.7 - 1.3	C 0.98	0.04	2.5 - 3.4	P 2.96	0.09	3.3 - 4.4	P 3.85	0.09	3.5 - 4.7	P 4.06	0.11	2.1 - 2.9	P 2.48	0.08	13
Roche Cobas & Roche Cobas Integra	6	0.7 - 1.3	C 0.99	0.07	2.4 - 3.3	P 2.83	0.13	3.1 - 4.2	P 3.68	0.19	3.3 - 4.5	P 3.87	0.17	2.0 - 2.7	P 2.37	0.06	10
Siemens Dimension & Siemens Dimension EXL	7	0.8 - 1.4	C 1.06	0.06	2.5 - 3.4	P 2.93	0.08	3.3 - 4.4	P 3.85	0.27	3.5 - 4.8	P 4.14	0.1	2.1 - 2.8	P 2.44	0.07	40
Siemens Dimension & Siemens Dimension Xpand	8	0.7 - 1.3	C 1.03	0.05	2.4 - 3.3	P 2.86	0.09	3.2 - 4.4	P 3.82	0.09	3.4 - 4.6	P 4.04	0.09	2.0 - 2.7	P 2.38	0.09	10
Initial Grouping by Reagent																	
Abbott Architect	9	0.6 - 1.2	C 0.86	0.06	2.6 - 3.5	P 3.01	0.09	3.5 - 4.7	P 4.08	0.1	3.7 - 5.0	P 4.34	0.11	2.1 - 2.9	P 2.48	0.06	16
Alfa Wassermann	10	0.8 - 1.4	C 1.1	0.08	2.4 - 3.3	P 2.84	0.15	3.1 - 4.2	P 3.62	0.16	3.2 - 4.4	P 3.81	0.17	2.0 - 2.8	P 2.41	0.1	20
Beckman Coulter	11	0.7 - 1.3	C 0.96	0.07	2.4 - 3.3	P 2.87	0.11	3.2 - 4.4	P 3.82	0.15	3.4 - 4.6	P 4.03	0.15	2.0 - 2.8	P 2.41	0.09	19
Beckman Olympus	12	0.6 - 1.3	C 0.95	0.05	2.4 - 3.3	P 2.84	0.09	3.2 - 4.3	P 3.75	0.12	3.4 - 4.6	P 3.96	0.12	2.0 - 2.7	P 2.38	0.07	49
Carolina	13	0.8 - 1.4	C 1.06	0.13	2.4 - 3.3	P 2.88	0.15	3.0 - 4.0	P 3.48	0.88	3.4 - 4.6	P 3.96	0.22	2.1 - 2.8	P 2.47	0.15	10
Ortho Vitros 1-slide enz	14	0.7 - 1.3	C 0.97	0.05	2.5 - 3.4	P 2.94	0.12	3.3 - 4.4	P 3.86	0.23	3.4 - 4.7	P 4.05	0.15	2.1 - 2.8	P 2.47	0.09	26
Ortho Vitros IDMS traceable	15	0.7 - 1.3	C 0.96	0.05	2.5 - 3.4	P 2.92	0.07	3.2 - 4.4	P 3.8	0.08	3.4 - 4.6	P 4.0	0.09	2.1 - 2.8	P 2.45	0.08	22
Roche Cobas	16	0.7 - 1.3	C 0.96	0.07	2.4 - 3.2	P 2.81	0.11	3.1 - 4.3	P 3.7	0.17	3.3 - 4.5	P 3.89	0.16	2.0 - 2.7	P 2.37	0.08	28
Siemens Dimension	17	0.8 - 1.4	C 1.05	0.06	2.5 - 3.4	P 2.92	0.09	3.3 - 4.4	P 3.85	0.23	3.5 - 4.7	P 4.12	0.1	2.1 - 2.8	P 2.43	0.08	53
Synermed	18	0.9 - 1.5	C 1.17	0.11	2.3 - 3.1	P 2.66	0.09	2.8 - 3.7	P 3.26	0.29	3.1 - 4.1	P 3.6	0.16	1.9 - 2.6	P 2.27	0.16	10
Initial Grouping by Sensitivity or Principle																	
Enzymatic methods	19	0.7 - 1.3	C 1.03	0.07	2.5 - 3.4	P 2.92	0.1	3.3 - 4.4	P 3.85	0.23	3.5 - 4.7	P 4.1	0.13	2.1 - 2.8	P 2.44	0.09	84
Nonenzymatic rate	20	0.7 - 1.3	C 0.99	0.11	2.4 - 3.3	P 2.85	0.14	3.2 - 4.3	P 3.73	0.31	3.4 - 4.6	P 3.96	0.23	2.0 - 2.7	P 2.39	0.11	193
IDMS traceable	21	0.7 - 1.3	C 1.0	0.08	2.5 - 3.3	P 2.91	0.11	3.2 - 4.3	P 3.78	0.19	3.4 - 4.6	P 4.0	0.18	2.1 - 2.8	P 2.43	0.13	45
Total Population																	
Whole Population	22	0.7 - 1.3	C 1.0	0.1	2.4 - 3.3	P 2.87	0.13	3.2 - 4.3	P 3.77	0.28	3.4 - 4.6	P 4.0	0.21	2.0 - 2.8	P 2.41	0.11	331

Glucose

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	63 - 77	P 70.4	1.2	136 - 166	P 150.9	2.7	173 - 211	P 191.8	3.4	181 - 222	P 201.6	3.6	118 - 144	P 131.0	2.2	16

Alfa Wassermann & Alfa Wasser Axcel/Alera	2	70 - 85	P 77.6	2.5	147 - 179	P 163.0	4.7	185 - 226	P 205.5	4.0	194 - 237	P 215.0	4.7	128 - 156	P 142.1	3.8	18
Beckman Olympus & Beck Olym AU 400/600/5400	3	67 - 81	P 73.9	1.8	142 - 173	P 157.6	3.9	180 - 221	P 200.5	4.4	188 - 230	P 209.3	5.8	124 - 151	P 137.3	3.1	26
Beckman Olympus & Beckman AU 480	4	68 - 83	P 75.4	2.4	145 - 177	P 161.1	3.7	183 - 224	P 203.6	4.4	193 - 235	P 213.9	4.4	126 - 153	P 139.5	3.8	22
Ortho Vitros & Ortho Vitros 3600, 5600	5	61 - 74	P 67.5	1.7	134 - 164	P 149.0	2.6	173 - 212	P 192.6	3.5	183 - 223	P 203.0	3.7	116 - 142	P 129.0	2.5	22
Ortho Vitros & Ortho Vitros not DT or ECi	6	62 - 75	P 68.6	1.8	136 - 166	P 150.6	3.5	175 - 214	P 194.4	4.7	185 - 226	P 205.5	5.0	117 - 143	P 130.0	3.0	21
Roche Cobas & Roche Cobas 6000, 8000	7	66 - 81	P 73.5	1.9	143 - 174	P 158.5	3.8	180 - 220	P 199.7	4.6	191 - 233	P 211.7	5.0	125 - 152	P 138.5	3.2	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	66 - 81	P 73.7	1.2	143 - 174	P 158.4	3.3	181 - 221	P 201.0	2.3	191 - 234	P 212.3	3.3	123 - 151	P 137.2	2.5	10
Siemens HK & Siemens Dimension EXL	9	67 - 82	P 74.1	1.5	142 - 174	P 157.8	2.5	180 - 220	P 199.6	3.9	188 - 230	P 208.8	3.9	123 - 150	P 136.6	2.3	24
Siemens HK, GLUC & Siemens Dimension EXL	10	66 - 81	P 73.8	1.6	141 - 173	P 157.1	2.9	180 - 220	P 199.6	3.7	188 - 230	P 209.4	4.3	123 - 151	P 137.2	2.7	29
Initial Grouping by Reagent																	
Abbott	11	63 - 77	P 70.4	1.2	136 - 166	P 150.9	2.7	173 - 211	P 191.8	3.4	181 - 222	P 201.6	3.6	118 - 144	P 131.0	2.2	16
Alfa Wassermann	12	70 - 85	P 77.6	2.5	147 - 179	P 163.0	4.7	185 - 226	P 205.5	4.0	194 - 237	P 215.0	4.7	128 - 156	P 142.1	3.8	18
Beckman HK	13	67 - 82	P 74.3	3.5	143 - 175	P 159.4	6.4	182 - 223	P 202.5	7.8	191 - 233	P 212.1	8.3	124 - 152	P 138.3	5.4	15
Beckman Olympus	14	67 - 82	P 74.5	2.2	143 - 175	P 159.2	4.1	182 - 222	P 201.9	4.6	190 - 232	P 211.3	5.6	124 - 152	P 138.3	3.5	50
Ortho Vitros	15	61 - 75	P 68.1	1.9	135 - 165	P 149.6	3.5	174 - 212	P 193.1	4.5	184 - 224	P 203.9	4.9	116 - 142	P 129.3	3.0	49
Roche Cobas	16	67 - 82	P 74.6	2.2	144 - 176	P 160.3	4.4	183 - 223	P 203.0	5.9	192 - 235	P 213.8	5.1	126 - 154	P 139.6	4.1	30
Siemens HK	17	67 - 81	P 73.9	1.6	141 - 173	P 157.1	3.0	179 - 219	P 199.0	4.1	188 - 229	P 208.5	4.1	123 - 150	P 136.4	2.4	39
Siemens HK, GLUC	18	66 - 81	P 73.8	1.5	142 - 173	P 157.3	3.0	180 - 220	P 199.8	4.2	189 - 231	P 209.6	4.5	123 - 151	P 137.2	2.7	38
Sterling Diagnostic	19	67 - 82	P 74.7	2.7	140 - 172	P 156.1	4.1	176 - 215	P 195.9	8.1	189 - 231	P 210.0	7.2	124 - 151	P 137.5	4.6	11
Initial Grouping by Sensitivity or Principle																	
HexoKinase (HK)	20	67 - 82	P 74.1	2.4	142 - 174	P 158.0	4.9	180 - 220	P 200.4	6.2	189 - 231	P 210.0	6.4	124 - 151	P 137.5	4.4	234
HexoKinase Alfa Wasserman and related	21	70 - 85	P 77.6	2.5	147 - 179	P 163.0	4.7	185 - 226	P 205.5	4.0	194 - 237	P 215.0	4.7	128 - 156	P 142.1	3.8	18
Glucose Oxidase (GO)	22	63 - 77	P 69.9	3.4	137 - 167	P 151.8	4.9	175 - 214	P 194.5	5.6	185 - 226	P 205.4	5.8	119 - 145	P 131.7	4.7	73
Total Population																	
Whole Population	23	66 - 81	P 73.3	3.4	141 - 173	P 156.9	5.7	179 - 219	P 199.3	6.7	188 - 230	P 209.3	6.6	123 - 150	P 136.4	5.2	332

Phosphorus

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	1.5 - 2.3	C 1.91	0.06	3.2 - 4.3	P 3.71	0.18	3.8 - 5.1	P 4.44	0.06	3.9 - 5.3	P 4.64	0.08	2.7 - 3.7	P 3.2	0.06	13
Beckman Olympus blanked & Beck Olym AU 400/600/5400	2	1.5 - 2.3	C 1.87	0.06	3.0 - 4.1	P 3.54	0.07	3.7 - 5.0	P 4.39	0.07	3.9 - 5.3	P 4.57	0.08	2.7 - 3.6	P 3.13	0.08	10
Beckman Olympus no blank & Beck Olym AU 400/600/5400	3	1.5 - 2.3	C 1.86	0.05	3.0 - 4.0	P 3.49	0.06	3.7 - 5.0	P 4.32	0.08	3.8 - 5.2	P 4.51	0.07	2.6 - 3.5	P 3.08	0.07	13
Beckman Olympus no blank & Beckman AU 480	4	1.5 - 2.3	C 1.88	0.12	3.0 - 4.1	P 3.57	0.12	3.8 - 5.1	P 4.42	0.17	3.9 - 5.3	P 4.63	0.18	2.7 - 3.7	P 3.18	0.12	10
Ortho Vitros & Ortho Vitros 3600, 5600	5	1.7 - 2.5	C 2.14	0.12	3.2 - 4.3	P 3.74	0.12	3.9 - 5.3	P 4.59	0.15	4.0 - 5.5	P 4.76	0.14	2.9 - 3.9	P 3.37	0.1	16
Ortho Vitros & Ortho Vitros not DT or ECi	6	1.7 - 2.5	C 2.14	0.08	3.2 - 4.3	P 3.75	0.1	3.9 - 5.3	P 4.57	0.14	4.1 - 5.5	P 4.8	0.14	2.9 - 3.9	P 3.38	0.09	15
Roche Cobas & Roche Cobas 6000, 8000	7	1.5 - 2.3	C 1.88	0.07	3.1 - 4.1	P 3.59	0.08	3.8 - 5.1	P 4.44	0.14	4.0 - 5.4	P 4.69	0.1	2.7 - 3.6	P 3.16	0.07	10
Siemens Dimension & Siemens Dimension EXL	8	1.6 - 2.4	C 2.03	0.07	3.2 - 4.3	P 3.74	0.08	3.9 - 5.3	P 4.58	0.11	4.1 - 5.5	P 4.8	0.09	2.8 - 3.8	P 3.31	0.09	49
Initial Grouping by Reagent																	
Abbott Architect	9	1.5 - 2.3	C 1.91	0.06	3.2 - 4.3	P 3.71	0.18	3.8 - 5.1	P 4.44	0.06	3.9 - 5.3	P 4.64	0.08	2.7 - 3.7	P 3.2	0.06	13
Beckman Olympus blanked	10	1.5 - 2.3	C 1.88	0.08	3.0 - 4.1	P 3.58	0.1	3.7 - 5.1	P 4.41	0.09	3.9 - 5.3	P 4.6	0.12	2.7 - 3.6	P 3.15	0.1	20
Beckman Olympus no blank	11	1.5 - 2.3	C 1.87	0.08	3.0 - 4.1	P 3.53	0.1	3.7 - 5.0	P 4.36	0.13	3.9 - 5.2	P 4.56	0.14	2.7 - 3.6	P 3.13	0.11	24
Ortho Vitros	12	1.7 - 2.5	C 2.13	0.1	3.2 - 4.3	P 3.74	0.11	3.9 - 5.3	P 4.58	0.15	4.1 - 5.5	P 4.77	0.14	2.9 - 3.9	P 3.37	0.1	33
Roche Cobas	13	1.5 - 2.3	C 1.87	0.06	3.0 - 4.1	P 3.58	0.09	3.8 - 5.1	P 4.42	0.12	3.9 - 5.3	P 4.64	0.14	2.7 - 3.6	P 3.15	0.09	20
Siemens Dimension	14	1.6 - 2.4	C 2.01	0.09	3.2 - 4.3	P 3.74	0.11	3.9 - 5.3	P 4.58	0.12	4.1 - 5.5	P 4.79	0.11	2.8 - 3.8	P 3.31	0.1	64
Initial Grouping by Sensitivity or Principle																	
UV-bichromatic-sam blanked	15	1.6 - 2.4	C 1.96	0.11	3.1 - 4.2	P 3.68	0.15	3.8 - 5.2	P 4.5	0.16	4.0 - 5.4	P 4.71	0.16	2.8 - 3.7	P 3.24	0.13	125
UV-bichromatic-no sam blks	16	1.5 - 2.3	C 1.87	0.08	3.0 - 4.0	P 3.51	0.1	3.7 - 5.0	P 4.32	0.14	3.8 - 5.2	P 4.52	0.15	2.6 - 3.6	P 3.09	0.11	32
UV-rate	17	1.6 - 2.4	C 2.0	0.07	3.2 - 4.3	P 3.77	0.15	4.0 - 5.3	P 4.65	0.16	4.1 - 5.6	P 4.85	0.15	2.8 - 3.9	P 3.35	0.12	11
UV-uncorrected	18	1.5 - 2.3	C 1.9	0.17	3.1 - 4.2	P 3.62	0.23	3.8 - 5.2	P 4.48	0.24	4.0 - 5.4	P 4.68	0.31	2.7 - 3.7	P 3.22	0.21	12
Visible	19	1.7 - 2.5	C 2.13	0.1	3.2 - 4.3	P 3.76	0.13	3.9 - 5.3	P 4.59	0.15	4.1 - 5.5	P 4.79	0.15	2.9 - 3.9	P 3.38	0.1	36
Total Population																	
Whole Population	20	1.6 - 2.4	C 1.98	0.14	3.1 - 4.2	P 3.67	0.16	3.8 - 5.2	P 4.5	0.18	4.0 - 5.4	P 4.71	0.19	2.8 - 3.7	P 3.25	0.16	224

Potassium

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	2.6 - 3.6	C 3.08	0.04	4.6 - 5.6	C 5.08	0.05	5.6 - 6.6	C 6.12	0.04	5.9 - 6.9	C 6.36	0.06	4.1 - 5.1	C 4.61	0.04	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	2.5 - 3.5	C 3.03	0.06	4.6 - 5.6	C 5.13	0.06	5.8 - 6.8	C 6.3	0.06	6.1 - 7.1	C 6.58	0.08	4.1 - 5.1	C 4.63	0.07	18
Beckman Coulter & Beck Coult Unicel DXC	3	2.5 - 3.5	C 2.96	0.06	4.5 - 5.5	C 4.99	0.07	5.6 - 6.6	C 6.05	0.08	5.8 - 6.8	C 6.31	0.07	4.0 - 5.0	C 4.5	0.06	11
Beckman Coulter & Beckman AU 480	4	2.5 - 3.5	C 3.04	0.07	4.5 - 5.5	C 4.96	0.11	5.5 - 6.5	C 5.97	0.13	5.7 - 6.7	C 6.19	0.15	4.0 - 5.0	C 4.52	0.04	10
Beckman Olympus & Beck Olym AU 400/600/5400	5	2.6 - 3.6	C 3.05	0.09	4.5 - 5.5	C 4.97	0.08	5.5 - 6.5	C 5.97	0.1	5.7 - 6.7	C 6.19	0.11	4.0 - 5.0	C 4.53	0.06	28
Beckman Olympus & Beckman AU 480	6	2.5 - 3.5	C 3.04	0.05	4.5 - 5.5	C 4.99	0.06	5.5 - 6.5	C 5.97	0.08	5.7 - 6.7	C 6.19	0.08	4.0 - 5.0	C 4.5	0.06	20

Ortho Vitros & Ortho Vitros 3600, 5600	7	2.7 - 3.7	C 3.15	0.06	4.7 - 5.7	C 5.23	0.09	5.8 - 6.8	C 6.3	0.13	6.0 - 7.0	C 6.54	0.14	4.2 - 5.2	C 4.72	0.09	21
Ortho Vitros & Ortho Vitros not DT or ECi	8	2.7 - 3.7	C 3.16	0.05	4.8 - 5.8	C 5.25	0.07	5.8 - 6.8	C 6.33	0.09	6.1 - 7.1	C 6.56	0.11	4.3 - 5.3	C 4.75	0.08	21
Roche Cobas dil ISE & Roche Cobas 6000, 8000	9	2.6 - 3.6	C 3.12	0.07	4.7 - 5.7	C 5.16	0.13	5.7 - 6.7	C 6.15	0.14	5.9 - 6.9	C 6.4	0.12	4.1 - 5.1	C 4.62	0.1	10
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	2.5 - 3.5	C 3.04	0.05	4.6 - 5.6	C 5.09	0.05	5.6 - 6.6	C 6.12	0.07	5.9 - 6.9	C 6.35	0.08	4.1 - 5.1	C 4.58	0.05	53
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	2.5 - 3.5	C 3.03	0.05	4.6 - 5.6	C 5.09	0.05	5.6 - 6.6	C 6.11	0.07	5.8 - 6.8	C 6.34	0.07	4.1 - 5.1	C 4.56	0.05	15
Initial Grouping by Reagent																	
Abbott Architect	12	2.6 - 3.6	C 3.08	0.04	4.6 - 5.6	C 5.08	0.05	5.6 - 6.6	C 6.12	0.04	5.9 - 6.9	C 6.36	0.06	4.1 - 5.1	C 4.61	0.04	16
Alfa Wassermann	13	2.5 - 3.5	C 3.03	0.06	4.6 - 5.6	C 5.13	0.06	5.8 - 6.8	C 6.3	0.06	6.1 - 7.1	C 6.58	0.08	4.1 - 5.1	C 4.63	0.07	18
Beckman Coulter	14	2.5 - 3.5	C 3.01	0.07	4.5 - 5.5	C 4.98	0.09	5.5 - 6.5	C 6.0	0.11	5.8 - 6.8	C 6.25	0.13	4.0 - 5.0	C 4.51	0.05	25
Beckman Olympus	15	2.6 - 3.6	C 3.05	0.07	4.5 - 5.5	C 4.98	0.07	5.5 - 6.5	C 5.97	0.1	5.7 - 6.7	C 6.19	0.1	4.0 - 5.0	C 4.52	0.06	50
Ortho Vitros	16	2.7 - 3.7	C 3.16	0.05	4.7 - 5.7	C 5.24	0.08	5.8 - 6.8	C 6.32	0.11	6.1 - 7.1	C 6.55	0.12	4.2 - 5.2	C 4.73	0.08	48
Roche Cobas dil ISE	17	2.6 - 3.6	C 3.11	0.07	4.6 - 5.6	C 5.14	0.1	5.6 - 6.6	C 6.14	0.11	5.9 - 6.9	C 6.39	0.1	4.1 - 5.1	C 4.63	0.08	25
Siemens QuickLYTE IMT	18	2.5 - 3.5	C 3.04	0.05	4.6 - 5.6	C 5.08	0.05	5.6 - 6.6	C 6.11	0.07	5.8 - 6.8	C 6.34	0.08	4.1 - 5.1	C 4.57	0.05	74
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE results	19	2.6 - 3.6	C 3.08	0.08	4.6 - 5.6	C 5.12	0.11	5.7 - 6.7	C 6.18	0.15	5.9 - 6.9	C 6.42	0.15	4.1 - 5.1	C 4.62	0.11	171
Colorimetric/turbidimetric	20	2.6 - 3.6	C 3.09	0.14	4.5 - 5.5	C 5.03	0.2	5.5 - 6.5	C 6.04	0.16	5.8 - 6.8	C 6.34	0.1	4.1 - 5.1	C 4.6	0.16	10
Diluted ISE results	21	2.6 - 3.6	C 3.06	0.08	4.5 - 5.5	C 5.03	0.11	5.5 - 6.5	C 6.03	0.14	5.8 - 6.8	C 6.26	0.15	4.1 - 5.1	C 4.55	0.09	134
Total Population																	
Whole Population	22	2.6 - 3.6	C 3.07	0.08	4.6 - 5.6	C 5.08	0.12	5.6 - 6.6	C 6.11	0.16	5.9 - 6.9	C 6.35	0.17	4.1 - 5.1	C 4.59	0.11	316

Sodium

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	120 - 128	C 124.3	0.8	137 - 145	C 140.7	1.5	145 - 153	C 149.2	1.7	147 - 155	C 150.9	1.7	133 - 141	C 136.5	1.1	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	118 - 126	C 122.0	1.4	136 - 144	C 140.3	0.8	147 - 155	C 150.8	1.1	149 - 157	C 153.2	1.1	132 - 140	C 136.1	1.2	16
Beckman Coulter & Beck Coult Unicel DXC	3	120 - 128	C 123.5	1.4	135 - 143	C 139.1	1.2	144 - 152	C 147.5	1.3	146 - 154	C 149.5	1.4	132 - 140	C 135.5	1.2	11
Beckman Coulter & Beckman AU 480	4	119 - 127	C 122.9	1.9	135 - 143	C 138.8	1.9	143 - 151	C 146.8	1.7	144 - 152	C 148.3	1.7	132 - 140	C 135.7	1.3	10
Beckman Olympus & Beck Olym AU 400/600/5400	5	119 - 127	C 122.7	1.7	134 - 142	C 138.3	1.9	142 - 150	C 146.0	2.2	143 - 151	C 147.4	1.8	131 - 139	C 134.7	1.3	29
Beckman Olympus & Beckman AU 480	6	119 - 127	C 122.9	1.5	135 - 143	C 138.8	1.7	142 - 150	C 146.3	2.1	145 - 153	C 148.6	1.9	131 - 139	C 135.2	1.7	20
Ortho Vitros & Ortho Vitros 3600, 5600	7	124 - 132	C 128.4	1.6	142 - 150	C 145.7	1.6	151 - 159	C 154.7	1.6	153 - 161	C 156.8	1.6	138 - 146	C 141.6	1.5	21
Ortho Vitros & Ortho Vitros not DT or ECi	8	125 - 133	C 128.9	1.4	142 - 150	C 146.3	1.7	151 - 159	C 154.9	1.9	153 - 161	C 157.3	1.8	138 - 146	C 142.3	1.7	21
Roche Cobas dil ISE & Roche Cobas 6000, 8000	9	120 - 128	C 124.3	1.5	137 - 145	C 140.7	1.6	145 - 153	C 148.8	1.7	147 - 155	C 150.8	1.6	133 - 141	C 136.6	1.7	10
Siemens QuickLYTE IMT & Siemens Dimension EXL	10	122 - 130	C 126.4	1.1	137 - 145	C 141.1	1.0	145 - 153	C 148.6	1.4	146 - 154	C 150.4	1.3	133 - 141	C 137.4	1.1	51
Siemens QuickLYTE IMT & Siemens Dimension Xpand	11	122 - 130	C 126.2	1.1	137 - 145	C 140.9	1.4	144 - 152	C 148.3	1.3	146 - 154	C 150.1	1.3	133 - 141	C 137.1	1.4	15
Initial Grouping by Reagent																	
Abbott Architect	12	120 - 128	C 124.3	0.8	137 - 145	C 140.7	1.5	145 - 153	C 149.2	1.7	147 - 155	C 150.9	1.7	133 - 141	C 136.5	1.1	16
Alfa Wassermann	13	118 - 126	C 122.0	1.4	136 - 144	C 140.3	0.8	147 - 155	C 150.8	1.1	149 - 157	C 153.2	1.1	132 - 140	C 136.1	1.2	16
Beckman Coulter	14	119 - 127	C 123.0	1.7	135 - 143	C 138.7	2.0	143 - 151	C 146.8	2.1	145 - 153	C 148.7	2.1	131 - 139	C 135.4	1.7	25
Beckman Olympus	15	119 - 127	C 122.8	1.6	135 - 143	C 138.6	1.8	142 - 150	C 146.2	2.2	144 - 152	C 147.9	1.9	131 - 139	C 135.0	1.5	51
Ortho Vitros	16	125 - 133	C 128.6	1.5	142 - 150	C 146.0	1.7	151 - 159	C 154.8	1.7	153 - 161	C 157.0	1.7	138 - 146	C 141.9	1.6	48
Roche Cobas dil ISE	17	120 - 128	C 124.4	1.3	137 - 145	C 140.6	1.3	145 - 153	C 148.6	1.6	147 - 155	C 150.6	1.4	133 - 141	C 136.6	1.5	25
Siemens QuickLYTE IMT	18	122 - 130	C 126.2	1.2	137 - 145	C 140.9	1.2	144 - 152	C 148.4	1.4	146 - 154	C 150.2	1.3	133 - 141	C 137.2	1.3	74
Initial Grouping by Sensitivity or Principle																	
Undiluted ISE	19	122 - 130	C 126.0	2.7	138 - 146	C 142.2	2.8	147 - 155	C 150.6	3.1	149 - 157	C 152.5	3.3	134 - 142	C 138.3	2.8	163
Colorimetric	20	124 - 132	C 127.7	1.8	140 - 148	C 144.0	3.2	148 - 156	C 152.4	4.1	150 - 158	C 153.5	3.1	136 - 144	C 139.5	3.2	11
Diluted ISE	21	119 - 127	C 123.4	1.7	135 - 143	C 139.4	2.0	143 - 151	C 147.4	2.4	145 - 153	C 149.2	2.3	132 - 140	C 135.7	1.8	132
All Medica, Synermed	22	123 - 131	C 126.8	1.7	139 - 147	C 143.2	2.7	148 - 156	C 152.4	3.1	150 - 158	C 153.6	3.4	135 - 143	C 139.4	2.7	10
Total Population																	
Whole Population	23	121 - 129	C 125.0	2.7	137 - 145	C 141.1	2.9	145 - 153	C 149.4	3.4	147 - 155	C 151.2	3.4	133 - 141	C 137.3	2.8	316

Protein, Total

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	2.8 - 3.4	P 3.06	0.09	4.9 - 6.0	P 5.44	0.08	6.0 - 7.3	P 6.66	0.1	6.3 - 7.6	P 6.95	0.1	4.4 - 5.3	P 4.84	0.12	18
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	2.9 - 3.5	P 3.17	0.11	5.0 - 6.1	P 5.56	0.14	6.0 - 7.4	P 6.71	0.19	6.3 - 7.7	P 7.02	0.14	4.5 - 5.5	P 4.97	0.1	15
All refractometers & All other refractometers	3	3.8 - 4.6	P 4.18	0.13	6.2 - 7.6	P 6.89	0.15	7.5 - 9.1	P 8.29	0.12	7.8 - 9.5	P 8.63	0.13	5.6 - 6.8	P 6.21	0.12	269
All refractometers & Reichert TS Meter-DSP	4	3.8 - 4.6	P 4.19	0.11	6.2 - 7.6	P 6.9	0.11	7.5 - 9.1	P 8.31	0.16	7.8 - 9.5	P 8.63	0.11	5.6 - 6.9	P 6.23	0.1	132
Beckman Olympus & Beck Olym AU 400/600/5400	5	2.8 - 3.4	P 3.08	0.07	4.8 - 5.9	P 5.35	0.14	5.8 - 7.1	P 6.46	0.17	6.0 - 7.4	P 6.7	0.21	4.3 - 5.2	P 4.77	0.16	29
Beckman Olympus & Beckman AU 480	6	2.8 - 3.4	P 3.07	0.09	4.8 - 5.9	P 5.33	0.12	5.8 - 7.1	P 6.47	0.14	6.0 - 7.4	P 6.7	0.14	4.3 - 5.3	P 4.8	0.11	26
Ortho Vitros & Ortho Vitros 3600, 5600	7	2.8 - 3.5	P 3.15	0.08	4.8 - 5.9	P 5.36	0.1	5.8 - 7.0	P 6.4	0.12	6.0 - 7.3	P 6.64	0.11	4.4 - 5.3	P 4.86	0.11	22
Ortho Vitros & Ortho Vitros not DT or ECi	8	2.9 - 3.5	P 3.2	0.13	4.9 - 5.9	P 5.39	0.16	5.8 - 7.1	P 6.47	0.18	6.0 - 7.4	P 6.72	0.19	4.4 - 5.4	P 4.9	0.13	21
Reichert TS Meter-DSP & Reichert TS Meter-DSP	9	3.8 - 4.6	P 4.18	0.11	6.2 - 7.6	P 6.89	0.09	7.5 - 9.1	P 8.3	0.1	7.8 - 9.5	P 8.63	0.12	5.6 - 6.8	P 6.22	0.1	316

Roche Cobas & Roche Cobas 6000, 8000	10	2.9 - 3.6	P 3.25	0.13	5.0 - 6.2	P 5.6	0.2	6.0 - 7.4	P 6.71	0.19	6.3 - 7.7	P 7.0	0.23	4.5 - 5.5	P 5.0	0.15	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	11	2.9 - 3.6	P 3.25	0.06	5.0 - 6.1	P 5.58	0.1	6.1 - 7.4	P 6.73	0.12	6.3 - 7.6	P 6.95	0.12	4.5 - 5.5	P 5.01	0.1	12
Siemens Dimension & Siemens Dimension EXL	12	2.9 - 3.6	P 3.27	0.07	5.1 - 6.2	P 5.65	0.11	6.1 - 7.5	P 6.82	0.13	6.4 - 7.8	P 7.11	0.13	4.6 - 5.6	P 5.08	0.12	46
Siemens Dimension & Siemens Dimension Xpand	13	2.9 - 3.6	P 3.26	0.07	5.1 - 6.2	P 5.68	0.07	6.1 - 7.5	P 6.83	0.1	6.4 - 7.8	P 7.11	0.11	4.6 - 5.6	P 5.09	0.08	15
Initial Grouping by Reagent																	
Abbott	14	2.8 - 3.4	P 3.06	0.09	4.9 - 6.0	P 5.44	0.08	6.0 - 7.3	P 6.66	0.1	6.3 - 7.6	P 6.95	0.1	4.4 - 5.3	P 4.84	0.12	18
Alfa Wassermann	15	2.9 - 3.5	P 3.17	0.11	5.0 - 6.1	P 5.56	0.14	6.0 - 7.4	P 6.71	0.19	6.3 - 7.7	P 7.02	0.14	4.5 - 5.5	P 4.97	0.1	15
All refractometers	16	3.8 - 4.6	P 4.18	0.12	6.2 - 7.6	P 6.9	0.14	7.5 - 9.1	P 8.29	0.13	7.8 - 9.5	P 8.63	0.12	5.6 - 6.8	P 6.22	0.11	403
Beckman Olympus	17	2.8 - 3.4	P 3.08	0.08	4.8 - 5.9	P 5.34	0.13	5.8 - 7.1	P 6.47	0.16	6.0 - 7.4	P 6.7	0.18	4.3 - 5.3	P 4.78	0.14	57
Carolina	18	2.8 - 3.4	P 3.13	0.15	4.8 - 5.9	P 5.38	0.27	5.9 - 7.2	P 6.55	0.35	6.1 - 7.5	P 6.81	0.35	4.4 - 5.4	P 4.88	0.23	10
Ortho Vitros	19	2.9 - 3.5	P 3.18	0.11	4.8 - 5.9	P 5.38	0.13	5.8 - 7.1	P 6.43	0.15	6.0 - 7.3	P 6.68	0.15	4.4 - 5.4	P 4.88	0.12	49
Reichert TS Meter-DSP	20	3.8 - 4.6	P 4.18	0.11	6.2 - 7.6	P 6.89	0.09	7.5 - 9.1	P 8.3	0.1	7.8 - 9.5	P 8.64	0.13	5.6 - 6.8	P 6.22	0.1	319
Roche Cobas	21	2.9 - 3.5	P 3.21	0.12	5.0 - 6.1	P 5.53	0.17	6.0 - 7.3	P 6.66	0.18	6.2 - 7.6	P 6.91	0.2	4.5 - 5.5	P 4.96	0.14	31
Siemens Dimension	22	2.9 - 3.6	P 3.27	0.07	5.1 - 6.2	P 5.66	0.1	6.1 - 7.5	P 6.83	0.13	6.4 - 7.8	P 7.12	0.13	4.6 - 5.6	P 5.08	0.11	67
Siemens biuret based	23	3.0 - 3.6	P 3.28	0.06	5.1 - 6.2	P 5.64	0.09	6.1 - 7.5	P 6.83	0.1	6.4 - 7.8	P 7.09	0.1	4.6 - 5.6	P 5.07	0.08	10
Initial Grouping by Sensitivity or Principle																	
Bichromatic-no sam blanks	24	2.8 - 3.4	P 3.12	0.12	4.9 - 6.0	P 5.42	0.17	5.9 - 7.2	P 6.57	0.2	6.1 - 7.5	P 6.83	0.23	4.4 - 5.3	P 4.86	0.16	123
All refractometer users	25	3.8 - 4.6	P 4.18	0.12	6.2 - 7.6	P 6.9	0.14	7.5 - 9.1	P 8.29	0.13	7.8 - 9.5	P 8.63	0.12	5.6 - 6.8	P 6.22	0.11	403
Rate	26	2.8 - 3.4	P 3.13	0.14	4.8 - 5.9	P 5.37	0.23	5.9 - 7.2	P 6.53	0.3	6.1 - 7.5	P 6.81	0.31	4.4 - 5.4	P 4.87	0.2	15
Uncorrected	27	2.9 - 3.5	P 3.18	0.12	4.9 - 6.0	P 5.42	0.18	5.8 - 7.1	P 6.49	0.19	6.1 - 7.4	P 6.75	0.2	4.4 - 5.4	P 4.89	0.13	77
Bichromatic-sample blanked	28	2.9 - 3.6	P 3.27	0.07	5.1 - 6.2	P 5.66	0.1	6.1 - 7.5	P 6.83	0.13	6.4 - 7.8	P 7.11	0.16	4.6 - 5.6	P 5.08	0.13	68
Just sample blanked	29	2.9 - 3.5	P 3.21	0.12	5.0 - 6.1	P 5.53	0.17	6.0 - 7.3	P 6.66	0.18	6.2 - 7.6	P 6.91	0.2	4.5 - 5.5	P 4.96	0.14	31
Total Population																	
Whole Population	30	3.5 - 4.3	P 3.87	0.48	5.8 - 7.1	P 6.47	0.66	7.0 - 8.6	P 7.79	0.79	7.3 - 8.9	P 8.1	0.82	5.2 - 6.4	P 5.82	0.61	1036

Triglycerides

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	74 - 123	P 98.3	2.4	114 - 190	P 152.3	3.8	134 - 223	P 178.5	2.9	138 - 230	P 184.1	2.4	104 - 173	P 138.5	2.2	15
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	80 - 133	P 106.0	4.0	117 - 196	P 156.5	5.0	136 - 226	P 181.1	5.8	141 - 235	P 188.0	6.6	108 - 180	P 143.9	5.4	14
Beckman Olympus & Beck Olym AU 400/600/5400	3	75 - 126	P 100.5	3.2	114 - 190	P 151.8	4.0	134 - 223	P 178.2	5.7	138 - 229	P 183.4	5.2	105 - 175	P 139.7	4.1	25
Beckman Olympus & Beckman AU 480	4	78 - 129	P 103.4	3.7	117 - 195	P 155.7	5.2	136 - 227	P 181.4	6.3	140 - 234	P 187.2	5.9	107 - 178	P 142.4	5.6	22
Ortho Vitros & Ortho Vitros 3600, 5600	5	81 - 134	P 107.6	3.5	126 - 210	P 167.8	6.3	148 - 247	P 197.9	7.2	154 - 256	P 205.0	7.7	115 - 191	P 152.9	5.8	22
Ortho Vitros & Ortho Vitros not DT or ECi	6	81 - 136	P 108.6	2.5	127 - 211	P 168.7	4.6	150 - 249	P 199.4	5.4	155 - 259	P 207.2	5.6	116 - 194	P 154.8	4.3	20
Roche Cobas & Roche Cobas 6000, 8000	7	77 - 128	P 102.2	2.0	115 - 191	P 152.7	3.4	133 - 221	P 177.1	3.4	137 - 229	P 183.3	3.0	106 - 177	P 141.4	3.1	11
Roche Cobas & Roche Cobas Integra	8	81 - 134	P 107.5	3.6	118 - 197	P 157.6	2.3	137 - 229	P 182.9	2.9	140 - 234	P 186.8	2.0	109 - 182	P 145.5	2.4	10
Roche Cobas & Roche e/c, 1XX, X000, Elec series	9	76 - 127	P 101.6	2.5	114 - 190	P 151.6	3.3	133 - 221	P 176.7	3.4	136 - 227	P 181.7	3.7	105 - 174	P 139.4	3.1	11
Siemens Dimension & Siemens Dimension EXL	10	70 - 117	P 93.8	1.9	111 - 185	P 148.3	2.1	132 - 219	P 175.4	2.6	136 - 227	P 181.3	2.1	102 - 169	P 135.4	1.9	49
Siemens Dimension & Siemens Dimension Xpand	11	71 - 118	P 94.4	2.4	111 - 185	P 147.7	2.4	130 - 217	P 173.9	2.0	135 - 226	P 180.4	2.4	101 - 169	P 134.9	2.6	15
Initial Grouping by Reagent																	
Abbott	12	74 - 123	P 98.3	2.4	114 - 190	P 152.3	3.8	134 - 223	P 178.5	2.9	138 - 230	P 184.1	2.4	104 - 173	P 138.5	2.2	15
Alfa Wassermann	13	80 - 133	P 106.0	4.0	117 - 196	P 156.5	5.0	136 - 226	P 181.1	5.8	141 - 235	P 188.0	6.6	108 - 180	P 143.9	5.4	14
Beckman GPO glycerol-unc	14	78 - 129	P 103.4	3.4	120 - 200	P 159.9	4.3	142 - 236	P 188.7	4.6	147 - 245	P 196.1	7.0	110 - 184	P 146.8	4.4	11
Beckman Olympus	15	76 - 127	P 101.8	3.7	115 - 192	P 153.6	4.9	135 - 224	P 179.5	6.2	139 - 231	P 185.0	5.8	106 - 176	P 140.9	5.0	49
Carolina	16	68 - 114	P 91.1	7.5	105 - 175	P 139.7	10.4	121 - 202	P 161.5	13.6	125 - 209	P 167.3	14.7	95 - 159	P 126.8	9.7	10
Ortho Vitros	17	81 - 135	P 108.0	3.1	126 - 210	P 167.8	5.8	149 - 248	P 198.7	6.5	155 - 258	P 206.2	6.8	115 - 192	P 153.7	5.2	46
Pointe Scientific	18	73 - 121	P 97.0	6.3	108 - 180	P 143.8	7.8	129 - 215	P 172.0	5.9	131 - 219	P 175.0	10.8	100 - 167	P 133.3	8.7	12
Roche Cobas	19	78 - 130	P 103.6	3.7	115 - 192	P 153.9	3.9	134 - 223	P 178.7	4.3	138 - 230	P 183.8	3.6	106 - 177	P 141.9	3.8	33
Siemens Dimension	20	71 - 118	P 94.2	3.4	111 - 186	P 148.5	3.7	132 - 219	P 175.4	4.1	136 - 227	P 181.7	4.3	102 - 169	P 135.6	3.6	70
Sterling Diagnostic	21	75 - 126	P 100.6	4.2	113 - 188	P 150.1	2.7	131 - 218	P 174.0	6.9	134 - 223	P 178.2	4.0	102 - 170	P 135.9	6.5	13
Initial Grouping by Sensitivity or Principle																	
Gly-unc/visible/GPO-based	22	75 - 126	P 100.5	6.3	115 - 192	P 153.7	8.8	135 - 226	P 180.5	11.0	140 - 233	P 186.3	11.7	106 - 176	P 140.7	8.6	287
Gly-unc/visible/INT-based	23	80 - 133	P 106.0	4.0	117 - 196	P 156.5	5.0	136 - 226	P 181.1	5.8	141 - 235	P 188.0	6.6	108 - 180	P 143.9	5.4	14
Total Population																	
Whole Population	24	76 - 126	P 100.7	6.3	115 - 192	P 153.8	8.6	135 - 226	P 180.4	10.7	140 - 233	P 186.3	11.4	106 - 176	P 140.9	8.4	312

Urea Nitrogen (BUN)

Initial Grouping by Reagent and Instrument																	
Abbott & Abbott Architect c, ci, i	1	8 - 12	C 10.0	0.0	23 - 28	P 25.6	0.5	31 - 37	P 33.7	1.2	32 - 39	P 35.4	0.9	19 - 23	C 21.4	0.7	16
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	8 - 12	C 9.7	0.5	22 - 27	P 24.6	0.8	29 - 35	P 32.1	1.3	31 - 37	P 34.0	1.4	19 - 23	C 21.2	0.9	18
Beckman Olympus & Beck Olym AU 400/600/5400	3	8 - 12	C 10.0	0.5	23 - 28	P 25.7	1.0	30 - 37	P 33.5	1.1	32 - 38	P 35.1	1.5	20 - 24	C 21.8	1.1	27
Beckman Olympus & Beckman AU 480	4	8 - 12	C 10.4	0.6	24 - 29	P 26.3	0.9	31 - 37	P 34.3	1.2	33 - 39	P 36.1	1.1	20 - 24	C 22.2	0.6	24

Ortho Vitros & Ortho Vitros 3600, 5600	5	6 - 10	C 8.0	0.4	19 - 23	C 20.6	0.6	25 - 30	P 27.3	0.9	26 - 31	P 28.6	0.8	16 - 20	C 17.5	0.6	22
Ortho Vitros & Ortho Vitros not DT or ECi	6	6 - 10	C 8.1	0.5	19 - 23	C 20.9	0.7	25 - 29	P 27.0	1.0	26 - 31	P 28.7	1.1	16 - 20	C 17.7	0.7	21
Roche Cobas & Roche Cobas 6000, 8000	7	8 - 12	C 9.8	0.4	23 - 27	P 25.1	0.8	30 - 36	P 33.0	0.7	31 - 38	P 34.6	1.1	20 - 24	C 21.5	0.5	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	8 - 12	C 10.0	0.0	23 - 28	P 25.4	0.6	30 - 36	P 32.9	1.1	32 - 38	P 34.8	0.6	20 - 24	C 21.6	0.5	12
Siemens GLDH-rate & Siemens Dimension EXL	9	8 - 12	C 10.4	0.6	24 - 29	P 26.2	0.7	31 - 37	P 34.1	1.1	33 - 39	P 36.0	1.4	20 - 24	C 22.1	0.9	49
Siemens GLDH-rate & Siemens Dimension Xpand	10	8 - 12	C 10.1	0.6	24 - 29	P 26.4	1.0	31 - 38	P 34.5	1.6	33 - 40	P 36.3	1.6	20 - 24	P 22.4	0.9	14
Initial Grouping by Reagent																	
Abbott	11	8 - 12	C 10.0	0.0	23 - 28	P 25.6	0.5	31 - 37	P 33.7	1.2	32 - 39	P 35.4	0.9	19 - 23	C 21.4	0.7	16
Alfa Wassermann	12	8 - 12	C 9.7	0.5	22 - 27	P 24.6	0.8	29 - 35	P 32.1	1.3	31 - 37	P 34.0	1.4	19 - 23	C 21.2	0.9	18
Beckman GLDH-rate	13	9 - 13	C 10.8	0.4	24 - 29	P 26.8	0.8	32 - 38	P 34.7	0.9	33 - 40	P 36.6	1.1	21 - 25	P 22.6	0.6	12
Beckman Olympus	14	8 - 12	C 10.2	0.6	24 - 28	P 25.9	1.0	31 - 37	P 33.8	1.2	32 - 39	P 35.5	1.4	20 - 24	C 22.0	0.9	53
Ortho Vitros	15	6 - 10	C 8.1	0.4	19 - 23	C 20.7	0.6	25 - 30	P 27.2	0.9	26 - 31	P 28.7	0.9	16 - 20	C 17.6	0.6	49
Roche Cobas	16	8 - 12	C 9.9	0.3	23 - 28	P 25.4	0.7	30 - 36	P 33.1	0.9	32 - 38	P 34.9	0.9	20 - 24	C 21.6	0.5	32
Siemens GLDH-rate	17	8 - 12	C 10.4	0.6	24 - 29	P 26.2	0.8	31 - 37	P 34.3	1.2	33 - 39	P 36.1	1.4	20 - 24	C 22.2	0.9	72
Synermed	18	8 - 12	C 9.7	0.7	22 - 26	P 24.3	1.5	28 - 34	P 31.3	1.8	30 - 36	P 33.2	1.6	19 - 23	C 20.6	1.4	10
Initial Grouping by Sensitivity or Principle																	
Glutamate DH-rate methods	19	8 - 12	C 10.2	0.7	23 - 28	P 25.8	1.2	30 - 37	P 33.5	1.7	32 - 38	P 35.3	1.8	20 - 24	C 21.9	1.1	262
Glutamate DH-endpoint meths	20	9 - 13	C 10.5	0.8	23 - 28	P 25.7	1.2	30 - 37	P 33.5	1.6	32 - 39	P 35.4	1.5	20 - 24	C 21.8	1.2	11
Ammonia (NH3) diffusion	21	6 - 10	C 8.1	0.4	19 - 23	C 20.7	0.6	25 - 30	P 27.2	0.9	26 - 31	P 28.7	0.9	16 - 20	C 17.6	0.6	49
Total Population																	
Whole Population	22	8 - 12	C 9.9	1.0	23 - 27	P 25.0	2.1	30 - 35	P 32.5	2.8	31 - 37	P 34.3	2.9	19 - 23	C 21.2	1.9	329

Uric Acid

Initial Grouping by Reagent and Instrument																	
Abbott Architect & Abbott Architect c, ci, i	1	2.3 - 3.2	P 2.77	0.05	5.7 - 8.0	P 6.82	0.07	7.3 - 10.3	P 8.84	0.05	7.7 - 10.9	P 9.33	0.05	4.8 - 6.8	P 5.82	0.04	12
Alfa Wassermann & Alfa Wasser Axcel/Alera	2	2.7 - 3.8	P 3.28	0.13	5.4 - 7.7	P 6.55	0.3	6.8 - 9.6	P 8.21	0.32	7.1 - 10.1	P 8.59	0.41	4.6 - 6.5	P 5.58	0.23	10
Beckman Olympus & Beck Olym AU 400/600/5400	3	2.2 - 3.2	P 2.7	0.0	5.4 - 7.6	P 6.47	0.1	6.9 - 9.8	P 8.36	0.09	7.3 - 10.3	P 8.84	0.12	4.6 - 6.5	P 5.54	0.08	21
Beckman Olympus & Beckman AU 480	4	2.3 - 3.2	P 2.75	0.1	5.5 - 7.7	P 6.61	0.18	7.0 - 9.9	P 8.44	0.17	7.4 - 10.4	P 8.92	0.19	4.6 - 6.6	P 5.6	0.12	14
Ortho Vitros & Ortho Vitros 3600, 5600	5	2.1 - 3.0	P 2.58	0.08	5.3 - 7.4	P 6.33	0.16	6.8 - 9.7	P 8.25	0.22	7.2 - 10.1	P 8.67	0.21	4.5 - 6.4	P 5.44	0.13	17
Ortho Vitros & Ortho Vitros not DT or ECi	6	2.1 - 2.9	P 2.51	0.08	5.2 - 7.3	P 6.26	0.17	6.7 - 9.5	P 8.13	0.18	7.1 - 10.0	P 8.57	0.18	4.5 - 6.4	P 5.43	0.19	15
Roche Cobas & Roche Cobas 6000, 8000	7	2.1 - 3.0	P 2.55	0.07	5.1 - 7.2	P 6.17	0.11	6.7 - 9.4	P 8.06	0.16	7.0 - 9.9	P 8.43	0.2	4.4 - 6.3	P 5.35	0.12	11
Roche Cobas & Roche e/c, 1XX, X000, Elec series	8	2.1 - 3.0	P 2.55	0.05	5.1 - 7.2	P 6.19	0.11	6.7 - 9.4	P 8.03	0.21	7.0 - 9.9	P 8.46	0.2	4.4 - 6.1	P 5.25	0.14	11
Siemens Dimension & Siemens Dimension EXL	9	2.2 - 3.1	P 2.62	0.07	5.2 - 7.3	P 6.24	0.1	6.7 - 9.4	P 8.07	0.14	7.0 - 9.9	P 8.45	0.19	4.4 - 6.2	P 5.33	0.12	50
Siemens Dimension & Siemens Dimension Xpand	10	2.1 - 3.0	P 2.59	0.12	5.2 - 7.3	P 6.22	0.13	6.7 - 9.5	P 8.08	0.23	7.0 - 9.9	P 8.45	0.19	4.4 - 6.2	P 5.34	0.16	13
Initial Grouping by Reagent																	
Abbott Architect	11	2.3 - 3.2	P 2.77	0.05	5.7 - 8.0	P 6.82	0.07	7.3 - 10.3	P 8.84	0.05	7.7 - 10.9	P 9.33	0.05	4.8 - 6.8	P 5.82	0.04	12
Alfa Wassermann	12	2.7 - 3.8	P 3.28	0.13	5.4 - 7.7	P 6.55	0.3	6.8 - 9.6	P 8.21	0.32	7.1 - 10.1	P 8.59	0.41	4.6 - 6.5	P 5.58	0.23	10
Beckman Coulter	13	2.2 - 3.1	P 2.65	0.05	5.2 - 7.4	P 6.31	0.17	6.7 - 9.5	P 8.12	0.25	7.1 - 10.0	P 8.56	0.27	4.5 - 6.4	P 5.44	0.14	17
Beckman Olympus	14	2.3 - 3.2	P 2.72	0.07	5.4 - 7.6	P 6.52	0.15	7.0 - 9.8	P 8.39	0.13	7.4 - 10.4	P 8.86	0.16	4.6 - 6.5	P 5.56	0.1	37
Ortho Vitros	15	2.1 - 3.0	P 2.55	0.09	5.2 - 7.4	P 6.3	0.17	6.8 - 9.6	P 8.19	0.21	7.2 - 10.1	P 8.63	0.21	4.5 - 6.4	P 5.44	0.16	33
Roche Cobas	16	2.1 - 3.0	P 2.58	0.08	5.2 - 7.3	P 6.28	0.2	6.8 - 9.5	P 8.15	0.25	7.1 - 10.0	P 8.55	0.27	4.5 - 6.3	P 5.37	0.18	30
Siemens Dimension	17	2.2 - 3.1	P 2.61	0.09	5.2 - 7.3	P 6.23	0.11	6.7 - 9.4	P 8.07	0.17	7.0 - 9.9	P 8.45	0.19	4.4 - 6.2	P 5.33	0.13	68
Initial Grouping by Sensitivity or Principle																	
Endpt-corrected(bic or SB)	18	2.2 - 3.1	P 2.67	0.18	5.4 - 7.5	P 6.45	0.27	6.9 - 9.8	P 8.34	0.31	7.3 - 10.3	P 8.79	0.35	4.6 - 6.5	P 5.53	0.2	105
Rate	19	2.2 - 3.1	P 2.61	0.09	5.2 - 7.3	P 6.26	0.17	6.7 - 9.5	P 8.1	0.23	7.1 - 9.9	P 8.5	0.25	4.4 - 6.3	P 5.36	0.16	125
Endpoint-uncorrected	20	2.4 - 3.3	P 2.84	0.31	5.5 - 7.8	P 6.67	0.33	7.1 - 10.0	P 8.51	0.41	7.4 - 10.4	P 8.9	0.41	4.7 - 6.6	P 5.67	0.32	29
Total Population																	
Whole Population	21	2.2 - 3.1	P 2.66	0.18	5.3 - 7.5	P 6.38	0.27	6.8 - 9.6	P 8.24	0.32	7.2 - 10.1	P 8.66	0.35	4.5 - 6.4	P 5.47	0.23	260