



Chemistry i-Stat

Name	Line No.	Specimen 1			Specimen 2			Specimen 3			Specimen 4			Specimen 5			No. of Labs
		Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	Range & Type	Mean	SD	
Bicarbonate (Total CO2) - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	20 - 30	P 24.6	0.5	17 - 25	P 21.2	0.7	19 - 29	P 23.8	1.2	20 - 30	P 24.8	0.7	13 - 21	C 17.0	0.6	5
Abbott i-STAT Bld Gas Car	2	18 - 28	P 23.0	0.7	16 - 24	C 19.8	0.8	18 - 27	P 22.8	0.8	18 - 27	P 22.8	0.8	12 - 20	C 15.5	0.5	4
Abbott i-STAT CHEM8+	3	19 - 29	P 23.8	0.4	17 - 25	P 20.8	0.4	19 - 28	P 23.5	0.5	19 - 29	P 24.3	0.8	13 - 21	C 17.3	0.4	4
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	4	20 - 30	P 24.6	0.5	17 - 25	P 21.2	0.7	19 - 29	P 23.8	1.2	20 - 30	P 24.8	0.7	13 - 21	C 17.0	0.6	5
All i-STAT non-waived	5	19 - 28	P 23.4	0.7	16 - 24	P 20.3	0.8	18 - 28	P 23.1	0.8	19 - 28	P 23.5	1.1	12 - 20	C 16.4	1.0	8
Total Population																	
Whole Population	6	19 - 29	P 23.8	0.9	16 - 25	P 20.6	0.9	19 - 28	P 23.4	1.0	19 - 29	P 24.0	1.2	13 - 21	C 16.6	0.9	13
Chloride - iSTAT																	
Initial Grouping by Reagent																	
Nova CCX	1	96 - 106	P 101.3	10.5	109 - 121	P 115.0	2.9	136 - 150	P 142.7	2.1	90 - 99	P 94.3	1.7	122 - 135	P 128.7	2.4	3
Abbott i-STAT CHEM8+, waived	2	71 - 78	P 74.7	0.7	80 - 89	P 84.7	0.5	110 - 121	P 115.5	1.0	71 - 79	P 74.8	0.7	98 - 108	P 102.7	0.7	6
Abbott i-STAT CHEM8+	3	71 - 78	P 74.4	0.5	80 - 88	P 84.0	0.6	110 - 121	P 115.6	0.5	71 - 78	P 74.4	0.5	98 - 108	P 103.0	0.6	5
Initial Grouping by Sensitivity or Principle																	
all ISE	4	96 - 106	P 101.3	10.5	109 - 121	P 115.0	2.9	136 - 150	P 142.7	2.1	90 - 99	P 94.3	1.7	122 - 135	P 128.7	2.4	3
All i-STAT waived	5	71 - 78	P 74.7	0.7	80 - 89	P 84.7	0.5	110 - 121	P 115.5	1.0	71 - 79	P 74.8	0.7	98 - 108	P 102.7	0.7	6
All i-STAT non-waived	6	71 - 78	P 74.4	0.5	80 - 88	P 84.0	0.6	110 - 121	P 115.6	0.5	71 - 78	P 74.4	0.5	98 - 108	P 103.0	0.6	5
Total Population																	
Whole Population	7	76 - 84	P 80.3	12.0	86 - 95	P 90.9	12.7	115 - 127	P 121.4	11.2	75 - 83	P 78.9	8.1	103 - 114	P 108.4	10.7	14
Creatinine - iSTAT																	
Initial Grouping by Reagent																	
Nova CCX	1	2.8 - 3.9	P 3.35	0.15	1.3 - 1.9	C 1.6	0.16	0.5 - 1.1	C 0.8	0.08	2.7 - 3.7	P 3.2	0.1	0.9 - 1.5	C 1.2	0.0	3
Abbott i-STAT CHEM8+, waived	2	3.3 - 4.4	P 3.86	0.14	1.4 - 2.0	C 1.72	0.04	0.5 - 1.1	C 0.8	0.0	3.3 - 4.5	P 3.88	0.13	0.8 - 1.4	C 1.1	0.06	5
Abbott i-STAT CHEM8+	3	3.2 - 4.4	P 3.82	0.23	1.4 - 2.0	C 1.68	0.07	0.5 - 1.1	C 0.78	0.04	3.2 - 4.4	P 3.82	0.16	0.8 - 1.4	C 1.12	0.04	5
Initial Grouping by Sensitivity or Principle																	
all other methods	4	2.8 - 3.9	P 3.35	0.15	1.3 - 1.9	C 1.6	0.16	0.5 - 1.1	C 0.8	0.08	2.7 - 3.7	P 3.2	0.1	0.9 - 1.5	C 1.2	0.0	3
All i-STAT waived	5	3.3 - 4.5	P 3.87	0.12	1.4 - 2.0	C 1.7	0.06	0.5 - 1.1	C 0.78	0.04	3.3 - 4.5	P 3.87	0.12	0.8 - 1.4	C 1.1	0.06	6
All i-STAT non-waived	6	3.2 - 4.4	P 3.82	0.23	1.4 - 2.0	C 1.68	0.07	0.5 - 1.1	C 0.78	0.04	3.2 - 4.4	P 3.82	0.16	0.8 - 1.4	C 1.12	0.04	5
Total Population																	
Whole Population	7	3.2 - 4.3	P 3.77	0.25	1.4 - 2.0	C 1.67	0.1	0.5 - 1.1	C 0.79	0.05	3.2 - 4.3	P 3.75	0.27	0.8 - 1.4	C 1.12	0.06	14
Glucose - iSTAT																	
Initial Grouping by Reagent																	
Nova CCX	1	173 - 211	P 192.0	2.8	131 - 160	P 145.0	2.9	75 - 92	P 83.3	3.7	169 - 207	P 188.3	4.9	87 - 106	P 96.5	4.5	3
Abbott i-STAT CHEM8+, waived	2	160 - 195	P 177.5	1.8	118 - 144	P 130.7	1.5	68 - 83	P 75.3	1.1	158 - 194	P 176.0	1.3	77 - 94	P 85.2	1.1	6
Abbott i-STAT CHEM8+	3	158 - 193	P 175.8	1.0	117 - 143	P 130.0	1.7	69 - 84	P 76.4	1.9	158 - 193	P 175.4	1.0	77 - 94	P 85.6	1.4	5
Initial Grouping by Sensitivity or Principle																	
all other	4	173 - 211	P 192.0	2.8	131 - 160	P 145.0	2.9	75 - 92	P 83.3	3.7	169 - 207	P 188.3	4.9	87 - 106	P 96.5	4.5	3
All i-STAT waived	5	160 - 195	P 177.5	1.8	118 - 144	P 130.7	1.5	68 - 83	P 75.3	1.1	158 - 194	P 176.0	1.3	77 - 94	P 85.2	1.1	6
All i-STAT non-waived	6	159 - 194	P 176.3	1.5	117 - 144	P 130.5	1.9	69 - 84	P 76.7	1.8	158 - 194	P 176.0	1.6	77 - 94	P 85.8	1.3	6
Total Population																	
Whole Population	7	162 - 198	P 179.9	6.4	120 - 147	P 133.5	6.1	70 - 85	P 77.5	3.7	161 - 196	P 178.5	5.6	78 - 96	P 87.1	4.4	15
Ionized Calcium - iSTAT																	

Initial Grouping by Reagent

Nova CCX	1	1.6 - 2.1	C 1.87	0.05	0.7 - 1.2	C 0.93	0.05	0.5 - 1.0	C 0.73	0.05	1.7 - 2.2	C 1.9	0.0	0.4 - 0.9	C 0.67	0.05	3
Abbott i-STAT CHEM8+, waived	2	3.1 - 3.6	C 3.34	2.53	1.6 - 2.1	C 1.88	1.46	1.2 - 1.7	C 1.42	1.04	3.1 - 3.6	C 3.34	2.53	1.0 - 1.5	C 1.2	1.13	5
Abbott i-STAT CHEM8+	3	1.9 - 2.4	C 2.1	0.0	1.0 - 1.5	C 1.2	0.0	0.6 - 1.1	C 0.87	0.05	1.8 - 2.3	C 2.07	0.05	0.6 - 1.1	C 0.8	0.0	3
Initial Grouping by Sensitivity or Principle																	
all other	4	1.6 - 2.1	C 1.87	0.05	0.7 - 1.2	C 0.93	0.05	0.5 - 1.0	C 0.73	0.05	1.7 - 2.2	C 1.9	0.0	0.4 - 0.9	C 0.67	0.05	3
All i-STAT waived	5	3.1 - 3.6	C 3.34	2.53	1.6 - 2.1	C 1.88	1.46	1.2 - 1.7	C 1.42	1.04	3.1 - 3.6	C 3.34	2.53	1.0 - 1.5	C 1.2	1.13	5
All i-STAT non-waived	6	1.9 - 2.4	C 2.1	0.0	1.0 - 1.5	C 1.2	0.0	0.6 - 1.1	C 0.88	0.04	1.8 - 2.3	C 2.05	0.05	1.1 - 1.6	C 1.38	1.0	4
Total Population																	
Whole Population	7	2.3 - 2.8	C 2.56	1.76	1.2 - 1.7	C 1.42	1.03	0.8 - 1.3	C 1.07	0.74	2.3 - 2.8	C 2.55	1.77	0.9 - 1.4	C 1.12	0.95	12

Ionized Magnesium - iStat**Initial Grouping by Reagent**

Nova CCX	1	0 - 4.3	P 0.17	0.05	0 - 13.0	P 0.5	0.0	0 - 7.8	P 0.3	0.0	0 - 5.2	P 0.2	0.1	0 - 2.6	P 0.1	0.0	3
Initial Grouping by Sensitivity or Principle																	
All other	2	0 - 4.3	P 0.17	0.05	0 - 13.0	P 0.5	0.0	0 - 7.8	P 0.3	0.0	0 - 5.2	P 0.2	0.1	0 - 2.6	P 0.1	0.0	3
Total Population																	
Whole Population	3	0 - 4.3	P 0.17	0.05	0 - 13.0	P 0.5	0.0	0 - 7.8	P 0.3	0.0	0 - 5.2	P 0.2	0.1	0 - 2.6	P 0.1	0.0	3

Lactate - iSTAT**Initial Grouping by Reagent**

Abbott i-STAT Bld Gas Car	1	3.4 - 5.7	P 4.58	0.04	1.1 - 1.9	P 1.48	0.04	0.7 - 1.2	P 0.96	0.05	3.5 - 5.8	P 4.64	0.05	0.9 - 1.5	P 1.2	0.0	5
Abbott i-STAT CG4+, CG8+	2	3.4 - 5.7	P 4.53	0.05	1.1 - 1.9	P 1.5	0.08	0.8 - 1.3	P 1.0	0.08	3.4 - 5.8	P 4.6	0.08	0.9 - 1.5	P 1.2	0.08	3
Initial Grouping by Sensitivity or Principle																	
All i-STAT non-waived	3	3.4 - 5.7	P 4.56	0.05	1.1 - 1.9	P 1.49	0.06	0.7 - 1.2	P 0.98	0.07	3.5 - 5.8	P 4.63	0.07	0.9 - 1.5	P 1.2	0.05	8
Total Population																	
Whole Population	4	3.4 - 5.7	P 4.56	0.05	1.1 - 1.9	P 1.49	0.06	0.7 - 1.2	P 0.98	0.07	3.5 - 5.8	P 4.63	0.07	0.9 - 1.5	P 1.2	0.05	8

Potassium - iSTAT**Initial Grouping by Reagent**

Nova CCX	1	2.2 - 3.2	C 2.67	0.05	3.5 - 4.5	C 4.03	0.05	5.8 - 6.8	C 6.3	0.0	2.3 - 3.3	C 2.77	0.05	5.4 - 6.4	C 5.87	0.05	3
Abbott i-STAT CHEM8+, waived	2	2.3 - 3.3	C 2.75	0.05	3.7 - 4.7	C 4.22	0.04	6.0 - 7.0	C 6.5	0.0	2.3 - 3.3	C 2.77	0.05	5.6 - 6.6	C 6.12	0.04	6
Abbott i-STAT CHEM8+	3	2.3 - 3.3	C 2.78	0.04	3.7 - 4.7	C 4.2	0.0	6.0 - 7.0	C 6.5	0.0	2.3 - 3.3	C 2.78	0.04	5.6 - 6.6	C 6.1	0.0	5
Initial Grouping by Sensitivity or Principle																	
all other	4	2.2 - 3.2	C 2.67	0.05	3.5 - 4.5	C 4.03	0.05	5.8 - 6.8	C 6.3	0.0	2.3 - 3.3	C 2.77	0.05	5.4 - 6.4	C 5.87	0.05	3
All i-STAT waived	5	2.2 - 3.2	C 2.74	0.05	3.7 - 4.7	C 4.21	0.03	6.0 - 7.0	C 6.49	0.03	2.3 - 3.3	C 2.75	0.05	5.6 - 6.6	C 6.1	0.05	8
All i-STAT non-waived	6	2.3 - 3.3	C 2.77	0.05	3.7 - 4.7	C 4.2	0.0	6.0 - 7.0	C 6.5	0.0	2.3 - 3.3	C 2.77	0.05	5.6 - 6.6	C 6.1	0.0	6
Total Population																	
Whole Population	7	2.2 - 3.2	C 2.74	0.06	3.7 - 4.7	C 4.18	0.07	6.0 - 7.0	C 6.46	0.08	2.3 - 3.3	C 2.76	0.05	5.6 - 6.6	C 6.06	0.1	17

Sodium - iSTAT**Initial Grouping by Reagent**

Nova CCX	1	113 - 121	C 117.3	1.2	129 - 137	C 133.3	1.2	152 - 160	C 156.0	1.4	114 - 122	C 118.0	0.0	125 - 133	C 129.0	0.8	3
Abbott i-STAT CHEM8+, waived	2	122 - 130	C 125.8	0.4	144 - 152	C 147.6	0.5	165 - 173	C 168.8	0.4	121 - 129	C 125.4	0.5	142 - 150	C 145.6	0.8	5
Abbott i-STAT CHEM8+	3	122 - 130	C 125.8	0.4	144 - 152	C 147.8	0.4	165 - 173	C 169.2	0.4	122 - 130	C 125.8	0.4	141 - 149	C 145.4	0.5	5
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	4	122 - 130	C 125.8	0.4	144 - 152	C 147.6	0.5	165 - 173	C 168.8	0.4	121 - 129	C 125.4	0.5	142 - 150	C 145.6	0.8	5
All i-STAT non-waived	5	122 - 130	C 125.9	0.6	144 - 152	C 147.9	0.6	165 - 173	C 169.4	0.7	122 - 130	C 125.9	0.6	142 - 150	C 145.7	0.7	7
Total Population																	
Whole Population	6	120 - 128	C 124.1	3.5	141 - 149	C 144.9	5.8	163 - 171	C 166.5	5.3	120 - 128	C 124.1	3.1	138 - 146	C 142.3	6.7	15

Urea Nitrogen (BUN) - iSTAT**Initial Grouping by Reagent**

Nova CCX	1	50 - 60	P 55.0	1.6	23 - 28	P 25.7	0.9	10 - 14	C 12.0	0.0	50 - 60	P 55.0	1.6	13 - 17	C 15.0	0.8	3
Abbott i-STAT CHEM8+, waived	2	62 - 74	P 67.8	1.2	34 - 41	P 37.6	0.5	14 - 18	C 16.0	0.0	62 - 74	P 68.0	1.7	20 - 24	C 21.6	0.5	5
Abbott i-STAT CHEM8+	3	62 - 75	P 68.6	0.8	34 - 41	P 37.8	0.4	14 - 18	C 16.2	0.4	62 - 74	P 68.0	0.6	20 - 24	C 21.6	0.5	5
Initial Grouping by Sensitivity or Principle																	
all other	4	50 - 60	P 55.0	1.6	23 - 28	P 25.7	0.9	10 - 14	C 12.0	0.0	50 - 60	P 55.0	1.6	13 - 17	C 15.0	0.8	3
All i-STAT waived	5	62 - 74	P 67.8	1.2	34 - 41	P 37.6	0.5	14 - 18	C 16.0	0.0	62 - 74	P 68.0	1.7	20 - 24	C 21.6	0.5	5
All i-STAT non-waived	6	62 - 75	P 68.6	0.8	34 - 41	P 37.8	0.4	14 - 18	C 16.2	0.4	62 - 74	P 68.0	0.6	20 - 24	C 21.6	0.5	5

Total Population																	
Whole Population	7	59 - 71	P 65.2	5.7	32 - 38	P 34.9	5.1	13 - 17	C 15.2	1.7	59 - 71	P 65.0	5.6	18 - 22	C 20.1	2.8	13
pH - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT Bld Gas Car	1	7.15 - 7.23	C 7.19	0.0072	7.453 - 7.533	C 7.4925	0.0059	7.452 - 7.532	C 7.4921	0.0073	7.153 - 7.233	C 7.1928	0.0158	7.439 - 7.519	C 7.4788	0.0049	11
Initial Grouping by Sensitivity or Principle																	
All i-STAT non-waived	2	7.15 - 7.23	C 7.1895	0.0071	7.452 - 7.532	C 7.4922	0.0055	7.453 - 7.533	C 7.4925	0.0083	7.152 - 7.232	C 7.1923	0.0147	7.439 - 7.519	C 7.4786	0.0045	13
Total Population																	
Whole Population	3	7.15 - 7.23	C 7.1895	0.0071	7.452 - 7.532	C 7.4922	0.0055	7.453 - 7.533	C 7.4925	0.0083	7.152 - 7.232	C 7.1923	0.0147	7.439 - 7.519	C 7.4786	0.0045	13
pCO2 - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT Bld Gas Car	1	51.5 - 61.5	C 56.5	2.5	19.8 - 29.8	C 24.75	1.03	23.7 - 33.7	C 28.7	1.07	50.9 - 60.9	C 55.86	3.29	15.3 - 25.3	C 20.29	0.56	11
Initial Grouping by Sensitivity or Principle																	
All i-STAT non-waived	2	51.4 - 61.4	C 56.42	2.41	19.7 - 29.7	C 24.65	1.08	23.4 - 33.4	C 28.41	1.57	50.4 - 60.4	C 55.42	3.57	15.1 - 25.1	C 20.12	0.76	13
Total Population																	
Whole Population	3	51.4 - 61.4	C 56.42	2.41	19.7 - 29.7	C 24.65	1.08	23.4 - 33.4	C 28.41	1.57	50.4 - 60.4	C 55.42	3.57	15.1 - 25.1	C 20.12	0.76	13
pO2 - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT Bld Gas Car	1	59 - 108	S 83.5	8.2	123 - 166	S 144.7	7.2	101 - 131	S 116.0	5.1	49 - 121	S 85.0	12.0	145 - 193	S 169.0	8.1	11
Initial Grouping by Sensitivity or Principle																	
All i-STAT non-waived	2	49 - 123	S 86.2	12.3	125 - 166	S 145.4	6.9	96 - 139	S 117.8	7.1	52 - 119	S 85.2	11.1	147 - 192	S 169.2	7.5	13
Total Population																	
Whole Population	3	49 - 123	S 86.2	12.3	125 - 166	S 145.4	6.9	96 - 139	S 117.8	7.1	52 - 119	S 85.2	11.1	147 - 192	S 169.2	7.5	13
Hemoglobin - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	6.3 - 7.3	P 6.8	0.0	11.1 - 12.7	P 11.9	0.0	9.2 - 10.6	P 9.9	0.0	6.3 - 7.3	P 6.8	0.0	7.9 - 9.1	P 8.5	0.0	3
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	2	6.3 - 7.3	P 6.8	0.0	11.1 - 12.7	P 11.9	0.0	9.2 - 10.6	P 9.9	0.0	6.3 - 7.3	P 6.8	0.0	7.9 - 9.1	P 8.5	0.0	3
All i-STAT non-waived	3	6.5 - 7.5	P 7.03	0.33	11.3 - 13.0	P 12.13	0.33	9.3 - 10.7	P 10.0	0.14	6.4 - 7.4	P 6.9	0.14	8.0 - 9.2	P 8.6	0.14	3
Total Population																	
Whole Population	4	6.4 - 7.4	P 6.92	0.26	11.2 - 12.9	P 12.02	0.26	9.3 - 10.6	P 9.95	0.11	6.4 - 7.3	P 6.85	0.11	8.0 - 9.1	P 8.55	0.11	6
Hematocrit - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	19 - 21	P 20.0	0.0	33 - 37	P 35.0	0.0	27 - 31	P 29.0	0.0	19 - 21	P 20.0	0.0	24 - 27	P 25.0	0.0	3
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	2	19 - 21	P 20.0	0.0	33 - 37	P 35.0	0.0	27 - 31	P 29.0	0.0	19 - 21	P 20.0	0.0	24 - 27	P 25.0	0.0	3
All i-STAT non-waived	3	19 - 22	P 20.7	0.9	34 - 38	P 35.7	0.9	28 - 31	P 29.3	0.5	19 - 22	P 20.3	0.5	24 - 27	P 25.3	0.5	3
Total Population																	
Whole Population	4	19 - 22	P 20.3	0.7	33 - 37	P 35.3	0.7	27 - 31	P 29.2	0.4	19 - 21	P 20.2	0.4	24 - 27	P 25.2	0.4	6