



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	19 - 28	P 23.4	1.2	20 - 29	P 24.4	1.0	18 - 27	P 22.6	0.5	14 - 22	C 18.1	1.4	21 - 31	P 26.1	0.3	7
Abbott i-STAT Bld Gas Car	2	18 - 27	P 22.3	0.8	19 - 28	P 23.5	0.5	17 - 25	P 21.0	0.7	14 - 22	C 17.5	0.5	21 - 31	P 26.0	0.7	4
Abbott i-STAT CHEM8+	3	19 - 28	P 23.2	1.1	19 - 29	P 23.8	1.1	18 - 26	P 21.9	0.7	14 - 22	C 18.2	0.9	21 - 31	P 26.0	1.0	11
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	4	19 - 28	P 23.4	1.2	20 - 29	P 24.4	1.0	18 - 27	P 22.6	0.5	14 - 22	C 18.1	1.4	21 - 31	P 26.1	0.3	7
All i-STAT non-waived	5	18 - 27	P 22.9	1.1	19 - 28	P 23.7	1.0	17 - 26	P 21.7	0.8	14 - 22	C 18.0	0.9	21 - 31	P 26.0	1.0	15
Total Population																	
Whole Population	6	18 - 28	P 23.1	1.2	19 - 29	P 24.0	1.1	18 - 26	P 22.0	0.8	14 - 22	C 18.0	1.1	21 - 31	P 26.0	0.8	22
Chloride - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	111 - 123	P 116.9	0.7	71 - 79	P 74.9	0.6	77 - 85	P 80.7	0.5	96 - 106	P 100.6	0.8	103 - 113	P 108.0	1.1	9
Abbott i-STAT CHEM8+	2	112 - 123	P 117.5	1.5	72 - 80	P 76.1	1.7	77 - 85	P 80.9	1.0	96 - 106	P 100.7	0.9	103 - 113	P 107.9	1.4	12
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	3	111 - 123	P 116.9	0.7	71 - 79	P 74.9	0.6	77 - 85	P 80.7	0.5	96 - 106	P 100.6	0.8	103 - 113	P 108.0	1.1	9
All i-STAT non-waived	4	112 - 123	P 117.5	1.5	72 - 80	P 76.1	1.7	77 - 85	P 80.9	1.0	96 - 106	P 100.7	0.9	103 - 113	P 107.9	1.4	12
Total Population																	
Whole Population	5	114 - 127	P 120.5	8.6	74 - 82	P 77.8	5.9	80 - 88	P 84.2	8.9	97 - 108	P 102.5	5.2	106 - 117	P 111.6	9.7	24
Creatinine - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	2.2 - 3.0	P 2.59	0.06	3.2 - 4.3	P 3.78	0.08	1.3 - 1.9	C 1.6	0.0	5.6 - 7.6	P 6.59	0.17	0.5 - 1.1	C 0.8	0.0	8
Abbott i-STAT CHEM8+	2	2.2 - 3.0	P 2.63	0.09	3.2 - 4.4	P 3.82	0.12	1.3 - 1.9	C 1.64	0.05	5.6 - 7.6	P 6.57	0.27	0.5 - 1.1	C 0.8	0.0	12
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	3	2.2 - 3.0	P 2.6	0.06	3.2 - 4.4	P 3.81	0.12	1.3 - 1.9	C 1.62	0.04	5.6 - 7.6	P 6.64	0.22	0.5 - 1.1	C 0.8	0.0	10
All i-STAT non-waived	4	2.2 - 3.0	P 2.63	0.09	3.2 - 4.4	P 3.82	0.12	1.3 - 1.9	C 1.64	0.05	5.6 - 7.6	P 6.57	0.27	0.5 - 1.1	C 0.8	0.0	12
Total Population																	
Whole Population	5	2.2 - 3.0	P 2.64	0.2	3.3 - 4.4	P 3.85	0.17	1.3 - 2.0	C 1.65	0.08	5.7 - 7.7	P 6.67	0.33	0.5 - 1.1	C 0.8	0.03	26
Glucose - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	209 - 255	P 232.1	1.3	163 - 199	P 181.2	1.1	111 - 136	P 123.4	1.2	32 - 44	C 37.9	2.0	60 - 74	P 66.9	1.6	9
Abbott i-STAT CHEM8+	2	210 - 257	P 233.2	3.9	164 - 200	P 182.1	2.7	111 - 136	P 123.6	1.4	32 - 44	C 37.5	1.7	60 - 73	P 66.5	1.0	12
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	3	209 - 255	P 232.1	1.3	163 - 199	P 181.2	1.1	111 - 136	P 123.4	1.2	32 - 44	C 37.9	2.0	60 - 74	P 66.9	1.6	9
All i-STAT non-waived	4	210 - 257	P 233.2	3.9	164 - 200	P 182.1	2.7	111 - 136	P 123.6	1.4	32 - 44	C 37.5	1.7	60 - 73	P 66.5	1.0	12
Total Population																	
Whole Population	5	217 - 265	P 240.9	22.0	167 - 204	P 185.5	10.4	115 - 140	P 127.5	10.8	32 - 44	C 38.4	2.8	62 - 76	P 68.7	5.6	24
Ionized Calcium - iSTAT																	
Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	0.3 - 0.8	C 0.58	0.04	1.8 - 2.3	C 2.09	0.06	1.2 - 1.7	C 1.42	0.04	2.1 - 2.6	C 2.3	0.0	0.7 - 1.2	C 0.9	0.0	9
Abbott i-STAT CHEM8+	2	0.4 - 0.9	C 0.6	0.0	1.9 - 2.4	C 2.11	0.05	1.2 - 1.7	C 1.43	0.04	2.1 - 2.6	C 2.3	0.0	0.7 - 1.2	C 0.9	0.0	11
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	3	0.3 - 0.8	C 0.58	0.04	1.8 - 2.3	C 2.09	0.06	1.2 - 1.7	C 1.42	0.04	2.1 - 2.6	C 2.3	0.0	0.7 - 1.2	C 0.9	0.0	9
All i-STAT non-waived	4	0.4 - 0.9	C 0.6	0.0	1.9 - 2.4	C 2.11	0.05	1.2 - 1.7	C 1.43	0.04	2.1 - 2.6	C 2.3	0.0	0.7 - 1.2	C 0.9	0.0	11

Total Population																	
Whole Population	5	0.3 - 0.8	C 0.59	0.03	1.8 - 2.3	C 2.06	0.11	1.1 - 1.6	C 1.39	0.11	1.9 - 2.4	C 2.17	0.37	0.6 - 1.1	C 0.88	0.06	23

Ionized Magnesium - iStat

Initial Grouping by Reagent																	
Nova CCX	1	0 - 0.26	P 0.01	0.0	0 - 0.52	P 0.02	0.0	0 - 0.26	P 0.01	0.0	0 - 0.52	P 0.02	0.0	0 - 0.78	P 0.03	0.0	3
Initial Grouping by Sensitivity or Principle																	
All other	2	0 - 0.26	P 0.01	0.0	0 - 0.52	P 0.02	0.0	0 - 0.26	P 0.01	0.0	0 - 0.52	P 0.02	0.0	0 - 0.78	P 0.03	0.0	3
Total Population																	
Whole Population	3	0 - 0.26	P 0.01	0.0	0 - 0.52	P 0.02	0.0	0 - 0.26	P 0.01	0.0	0 - 0.52	P 0.02	0.0	0 - 0.78	P 0.03	0.0	3

Lactate - iSTAT

Initial Grouping by Reagent																	
Abbott i-STAT Bld Gas Car	1	2.5 - 4.1	P 3.3	0.08	3.5 - 5.8	P 4.63	0.07	1.1 - 1.8	P 1.47	0.09	3.6 - 5.9	P 4.76	0.09	0.7 - 1.2	P 0.94	0.05	7
Initial Grouping by Sensitivity or Principle																	
All i-STAT non-waived	2	2.5 - 4.1	P 3.3	0.08	3.5 - 5.8	P 4.63	0.07	1.1 - 1.8	P 1.47	0.09	3.6 - 5.9	P 4.76	0.09	0.7 - 1.2	P 0.94	0.05	7
Total Population																	
Whole Population	3	2.5 - 4.1	P 3.3	0.08	3.5 - 5.8	P 4.63	0.07	1.1 - 1.8	P 1.47	0.09	3.6 - 5.9	P 4.76	0.09	0.7 - 1.2	P 0.94	0.05	7

Potassium - iSTAT

Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	6.1 - 7.1	C 6.6	0.05	2.2 - 3.2	C 2.73	0.05	3.6 - 4.6	C 4.1	0.0	2.7 - 3.7	C 3.2	0.0	6.3 - 7.3	C 6.81	0.06	9
Abbott i-STAT CHEM8+	2	6.1 - 7.1	C 6.58	0.04	2.2 - 3.2	C 2.72	0.06	3.6 - 4.6	C 4.1	0.0	2.7 - 3.7	C 3.2	0.0	6.3 - 7.3	C 6.81	0.05	12
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	3	6.1 - 7.1	C 6.58	0.06	2.2 - 3.2	C 2.74	0.05	3.6 - 4.6	C 4.1	0.0	2.7 - 3.7	C 3.2	0.0	6.3 - 7.3	C 6.8	0.06	11
All i-STAT non-waived	4	6.1 - 7.1	C 6.58	0.04	2.2 - 3.2	C 2.72	0.06	3.6 - 4.6	C 4.1	0.0	2.7 - 3.7	C 3.2	0.0	6.3 - 7.3	C 6.81	0.05	12
Total Population																	
Whole Population	5	6.1 - 7.1	C 6.57	0.05	2.2 - 3.2	C 2.74	0.06	3.6 - 4.6	C 4.09	0.04	2.7 - 3.7	C 3.2	0.02	6.3 - 7.3	C 6.78	0.08	26

Sodium - iSTAT

Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	164 - 172	C 168.4	0.5	123 - 131	C 126.6	0.5	142 - 150	C 145.6	0.5	120 - 128	C 123.8	0.4	163 - 171	C 167.1	0.9	9
Abbott i-STAT CHEM8+	2	164 - 172	C 168.1	0.8	122 - 130	C 126.1	0.9	141 - 149	C 145.3	0.9	120 - 128	C 123.6	0.5	163 - 171	C 167.2	1.2	12
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	3	164 - 172	C 168.4	0.5	123 - 131	C 126.6	0.5	142 - 150	C 145.6	0.5	120 - 128	C 123.8	0.4	163 - 171	C 167.1	0.9	9
All i-STAT non-waived	4	164 - 172	C 168.1	0.8	122 - 130	C 126.1	0.9	141 - 149	C 145.3	0.9	120 - 128	C 123.6	0.5	163 - 171	C 167.2	1.2	12
Total Population																	
Whole Population	5	162 - 170	C 166.3	0.5	122 - 130	C 126.1	0.9	140 - 148	C 143.6	0.8	118 - 126	C 122.3	0.5	173 - 181	C 177.3	0.9	24

Urea Nitrogen (BUN) - iSTAT

Initial Grouping by Reagent																	
Abbott i-STAT CHEM8+, waived	1	43 - 51	P 46.8	1.1	61 - 73	P 67.1	1.1	34 - 40	P 37.0	0.5	4 - 8	C 6.0	0.0	16 - 20	C 18.0	0.0	8
Abbott i-STAT CHEM8+	2	43 - 51	P 46.8	1.2	61 - 73	P 67.0	1.5	34 - 40	P 37.1	0.8	4 - 8	C 6.1	0.5	16 - 20	C 18.3	0.6	12
Initial Grouping by Sensitivity or Principle																	
All i-STAT waived	3	43 - 51	P 46.8	1.1	61 - 73	P 67.1	1.1	34 - 40	P 37.0	0.5	4 - 8	C 6.0	0.0	16 - 20	C 18.0	0.0	8
All i-STAT non-waived	4	43 - 51	P 46.8	1.2	61 - 73	P 67.0	1.5	34 - 40	P 37.1	0.8	4 - 8	C 6.1	0.5	16 - 20	C 18.3	0.6	12
Total Population																	
Whole Population	5	41 - 49	P 44.8	1.2	59 - 71	P 65.1	1.3	35 - 43	P 39.0	0.6	5 - 9	C 7.4	0.5	15 - 19	C 17.4	0.3	20

pH - iSTAT

Initial Grouping by Reagent																	
Abbott i-STAT Bld Gas Car	1	7.189 - 7.269	C 7.2287	0.0095	7.145 - 7.225	C 7.1845	0.0134	7.46 - 7.54	C 7.5001	0.0088	6.906 - 6.986	C 6.946	0.0109	7.495 - 7.575	C 7.5353	0.0067	12
Initial Grouping by Sensitivity or Principle																	
All i-STAT non-waived	2	7.189 - 7.269	C 7.2287	0.0095	7.145 - 7.225	C 7.1845	0.0134	7.46 - 7.54	C 7.5001	0.0088	6.906 - 6.986	C 6.946	0.0109	7.495 - 7.575	C 7.5353	0.0067	12
Total Population																	
Whole Population	3	7.193 - 7.273	C 7.2331	0.0121	7.156 - 7.236	C 7.1957	0.0334	7.456 - 7.536	C 7.4963	0.0108	6.98 - 7.06	C 7.02	0.2421	7.498 - 7.578	C 7.5377	0.0126	15

pCO2 - iSTAT

Initial Grouping by Reagent

Abbott i-STAT Bld Gas Car	1	44.9 - 54.9	C 49.93	1.97	53.2 - 63.2	C 58.2	3.41	21.0 - 31.0	C 26.01	1.48	63.9 - 75.0	P 69.46	2.05	24.2 - 34.2	C 29.23	0.95	12
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Initial Grouping by Sensitivity or Principle

All i-STAT non-waived	2	44.9 - 54.9	C 49.93	1.97	53.2 - 63.2	C 58.2	3.41	21.0 - 31.0	C 26.01	1.48	63.9 - 75.0	P 69.46	2.05	24.2 - 34.2	C 29.23	0.95	12
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Total Population

Whole Population	3	46.4 - 56.4	C 51.36	3.38	54.8 - 64.8	C 59.77	4.43	21.8 - 31.8	C 26.81	2.08	64.7 - 75.9	P 70.31	2.74	24.7 - 34.7	C 29.73	1.62	15
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pO2 - iSTAT

Initial Grouping by Reagent

Abbott i-STAT Bld Gas Car	1	157 - 202	S 179.8	7.4	64 - 97	S 80.5	5.6	117 - 154	S 135.5	6.3	29 - 87	S 58.4	9.7	96 - 114	S 104.8	2.9	12
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Initial Grouping by Sensitivity or Principle

All i-STAT non-waived	2	157 - 202	S 179.8	7.4	64 - 97	S 80.5	5.6	117 - 154	S 135.5	6.3	29 - 87	S 58.4	9.7	96 - 114	S 104.8	2.9	12
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Total Population

Whole Population	3	157 - 202	S 179.8	7.4	44 - 124	S 84.3	13.4	117 - 154	S 135.5	6.3	29 - 87	S 58.4	9.7	96 - 114	S 104.8	2.9	12
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Hemoglobin - iSTAT

Initial Grouping by Reagent

Abbott i-STAT CHEM8+, waived	1	9.5 - 10.9	P 10.2	0.0	6.5 - 7.5	P 7.04	0.12	11.2 - 12.9	P 12.02	0.15	6.4 - 7.4	P 6.92	0.15	11.7 - 13.5	P 12.6	0.0	5
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Abbott i-STAT CHEM8+	2	9.5 - 10.9	P 10.2	0.0	6.6 - 7.6	P 7.1	0.0	11.3 - 13.0	P 12.14	0.12	6.4 - 7.3	P 6.86	0.12	11.9 - 13.7	P 12.78	0.15	5
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Initial Grouping by Sensitivity or Principle

All i-STAT waived	3	9.5 - 10.9	P 10.2	0.0	6.6 - 7.5	P 7.05	0.11	11.2 - 12.9	P 12.05	0.15	6.5 - 7.4	P 6.95	0.15	11.8 - 13.5	P 12.65	0.11	6
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All i-STAT non-waived	4	9.5 - 10.9	P 10.2	0.0	6.6 - 7.6	P 7.1	0.0	11.3 - 13.0	P 12.14	0.12	6.4 - 7.3	P 6.86	0.12	11.9 - 13.7	P 12.78	0.15	5
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Total Population

Whole Population	5	9.5 - 10.9	P 10.23	0.09	6.7 - 7.7	P 7.17	0.34	11.2 - 12.9	P 12.09	0.14	6.4 - 7.4	P 6.91	0.14	11.8 - 13.6	P 12.71	0.14	11
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Hematocrit - iSTAT

Initial Grouping by Reagent

Abbott i-STAT CHEM8+, waived	1	28 - 32	P 30.0	0.0	20 - 22	P 20.8	0.4	33 - 38	P 35.4	0.5	19 - 22	P 20.4	0.5	35 - 39	P 37.0	0.0	5
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Abbott i-STAT CHEM8+	2	28 - 32	P 30.0	0.0	20 - 22	P 21.0	0.0	34 - 38	P 35.7	0.5	19 - 22	P 20.3	0.5	35 - 40	P 37.7	0.5	6
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Initial Grouping by Sensitivity or Principle

All i-STAT waived	3	28 - 32	P 30.0	0.0	20 - 22	P 20.8	0.4	33 - 38	P 35.5	0.5	19 - 22	P 20.5	0.5	35 - 39	P 37.2	0.4	6
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All i-STAT non-waived	4	28 - 32	P 30.0	0.0	20 - 22	P 21.0	0.0	34 - 38	P 35.7	0.5	19 - 22	P 20.3	0.5	35 - 40	P 37.7	0.5	6
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Total Population

Whole Population	5	28 - 32	P 30.1	0.3	20 - 22	P 21.2	0.9	33 - 38	P 35.6	0.5	19 - 22	P 20.4	0.5	35 - 40	P 37.4	0.5	12
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