AMERICAN ASSOCIATION OF BIOANALYSTS
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PARTICIPANT STATISTICS

# COMPREHENSIVE CHEMISTRY

Chemistry Q1 2010

| | | Specimen 1 | | | | Specimen 2 | | | | Specimen 3 | | | | Specimen 4 | | | | Specimen 5 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Line No. | Range & Type | | Mean | SD | Range & Type | | Mean | SD | Range & Type | | Mean | SD | Range & Type | | Mean | SD | Range & Type | | Mean | SD | No. Labs |
| **Thyroxine, Total (TT4)** | | | | | | | | | | | | | | | | | | | | | | |
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | | | | | | |
| Abbott FPIA & Abbott AxSYM | 1 | 5.9-8.8 | P | 7.34 | 0.5 | 5.9-8.8 | P | 7.36 | 0.6 | 14.2-21.3 | P | 17.79 | 0.9 | 7.4-11.1 | P | 9.27 | 0.7 | 2.6-4.6 | C | 3.65 | 0.5 | 26 |
| Abbott FPIA & Abbott IMx | 2 | 6.0-9.0 | P | 7.48 | 0.7 | 5.8-8.6 | P | 7.20 | 0.7 | 14.2-21.3 | P | 17.78 | 1.1 | 7.3-10.9 | P | 9.07 | 0.8 | 3.0-5.0 | C | 3.97 | 0.7 | 17 |
| Beckman Access & Beckman Access luminometer | 3 | 7.1-10.6 | P | 8.86 | 0.5 | 7.6-11.4 | P | 9.47 | 0.6 | 15.7-23.5 | P | 19.56 | 0.9 | 8.9-13.4 | P | 11.16 | 0.6 | 3.0-5.0 | C | 3.96 | 0.3 | 63 |
| bioMerieux Vidas & bioMerieux mini Vidas/Vidas | 4 | 6.3-9.4 | P | 7.86 | 0.4 | 6.8-10.1 | P | 8.44 | 0.5 | 12.7-19.0 | P | 15.86 | 1.1 | 7.6-11.5 | P | 9.54 | 0.4 | 3.0-5.0 | C | 3.98 | 0.1 | 12 |
| J&J Vitros & J&J Vitros ECi | 5 | 6.8-10.2 | P | 8.52 | 0.6 | 6.8-10.2 | P | 8.48 | 0.7 | 18.3-27.4 | P | 22.82 | 1.5 | 9.0-13.5 | P | 11.27 | 0.8 | 2.3-4.3 | C | 3.29 | 0.3 | 12 |
| Roche Elecsys & Roche Elecsys series | 6 | 5.8-8.7 | P | 7.22 | 0.4 | 5.6-8.4 | P | 7.02 | 0.3 | 15.1-22.6 | P | 18.82 | 1.1 | 7.3-10.9 | P | 9.08 | 0.5 | 2.1-4.1 | C | 3.08 | 0.1 | 13 |
| Siemens ADVIA Centaur/IMS & Siemens Centaur/Centaur CP | 7 | 5.7-8.5 | P | 7.12 | 0.2 | 5.6-8.5 | P | 7.04 | 0.4 | 12.8-19.2 | P | 15.96 | 1.4 | 7.1-10.7 | P | 8.91 | 0.5 | 1.5-3.5 | C | 2.53 | 0.5 | 17 |
| Siemens Dimension & Siemens Dimension series | 8 | 6.4-9.6 | P | 7.98 | 0.6 | 6.3-9.4 | P | 7.86 | 0.6 | 16.4-24.6 | P | 20.50 | 2.1 | 8.0-12.0 | P | 10.04 | 0.9 | 2.5-4.5 | C | 3.52 | 0.6 | 22 |
| Siemens Dimension & Siemens Dimension Rxl | 9 | 6.5-9.8 | P | 8.14 | 0.6 | 6.1-9.2 | P | 7.63 | 0.5 | 15.8-23.7 | P | 19.71 | 1.2 | 7.8-11.7 | P | 9.79 | 0.6 | 2.5-4.5 | C | 3.48 | 0.3 | 11 |
| Siemens Dimension & Siemens Dimension Xpand | 10 | 6.5-9.8 | P | 8.13 | 0.5 | 6.4-9.5 | P | 7.94 | 0.5 | 16.5-24.7 | P | 20.61 | 2.1 | 8.2-12.3 | P | 10.22 | 0.7 | 2.7-4.7 | C | 3.69 | 0.5 | 21 |
| Siemens Immulite & Siemens Immulite/Immul 1000 | 11 | 6.1-9.2 | P | 7.63 | 0.7 | 6.0-9.0 | P | 7.50 | 0.5 | 15.1-22.7 | P | 18.88 | 1.4 | 8.0-12.0 | P | 10.00 | 1.0 | 1.5-3.5 | C | 2.48 | 0.3 | 15 |
| Siemens Immulite & Siemens Immulite 2000 | 12 | 5.9-8.8 | P | 7.37 | 0.4 | 5.8-8.6 | P | 7.20 | 0.4 | 14.2-21.4 | P | 17.80 | 1.4 | 7.4-11.2 | P | 9.30 | 0.5 | 1.4-3.4 | C | 2.39 | 0.3 | 23 |
| Tosoh AIA & Tosoh Medics AIA | 13 | 7.0-10.5 | P | 8.76 | 0.5 | 6.5-9.8 | P | 8.17 | 0.4 | 16.9-25.3 | P | 21.10 | 2.2 | 8.4-12.7 | P | 10.56 | 0.6 | 2.3-4.3 | C | 3.28 | 0.3 | 10 |
| Tosoh AIA & Tosoh Medics ST AIA | 14 | 7.0-10.5 | P | 8.76 | 0.6 | 6.8-10.2 | P | 8.49 | 0.4 | 17.4-26.0 | P | 21.70 | 1.3 | 8.7-13.0 | P | 10.87 | 0.6 | 2.3-4.3 | C | 3.32 | 0.1 | 11 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | | | | | | |
| Abbott FPIA | 15 | 5.9-8.9 | P | 7.39 | 0.6 | 5.8-8.8 | P | 7.30 | 0.6 | 14.2-21.3 | P | 17.79 | 0.9 | 7.4-11.0 | P | 9.19 | 0.7 | 2.8-4.8 | C | 3.77 | 0.6 | 43 |
| Beckman Access | 16 | 7.1-10.7 | P | 8.89 | 0.6 | 7.6-11.4 | P | 9.51 | 0.6 | 15.6-23.5 | P | 19.56 | 1.0 | 9.0-13.4 | P | 11.20 | 0.7 | 3.0-5.0 | C | 3.97 | 0.3 | 73 |
| bioMerieux Vidas | 17 | 6.3-9.4 | P | 7.86 | 0.4 | 6.8-10.1 | P | 8.44 | 0.5 | 12.7-19.0 | P | 15.86 | 1.1 | 7.6-11.5 | P | 9.54 | 0.4 | 3.0-5.0 | C | 3.98 | 0.1 | 12 |
| J&J Vitros | 18 | 6.8-10.3 | P | 8.54 | 0.6 | 6.8-10.2 | P | 8.48 | 0.6 | 18.2-27.3 | P | 22.76 | 1.4 | 9.0-13.5 | P | 11.26 | 0.8 | 2.3-4.3 | C | 3.30 | 0.2 | 14 |
| Roche Elecsys | 19 | 5.8-8.7 | P | 7.21 | 0.4 | 5.6-8.4 | P | 7.02 | 0.4 | 14.9-22.4 | P | 18.65 | 1.1 | 7.3-10.9 | P | 9.09 | 0.6 | 2.1-4.1 | C | 3.11 | 0.2 | 19 |
| Siemens ADVIA Centaur/IMS | 20 | 5.6-8.4 | P | 7.04 | 0.3 | 5.7-8.5 | P | 7.09 | 0.5 | 12.8-19.2 | P | 16.00 | 1.4 | 7.1-10.7 | P | 8.90 | 0.8 | 1.6-3.6 | C | 2.63 | 0.6 | 20 |
| Siemens Dimension | 21 | 6.4-9.7 | P | 8.05 | 0.6 | 6.3-9.4 | P | 7.82 | 0.5 | 16.1-24.2 | P | 20.16 | 2.7 | 8.0-12.1 | P | 10.05 | 0.7 | 2.6-4.6 | C | 3.58 | 0.5 | 61 |
| Siemens Immulite | 22 | 5.9-8.9 | P | 7.44 | 0.6 | 5.8-8.7 | P | 7.28 | 0.5 | 14.5-21.8 | P | 18.13 | 1.5 | 7.5-11.3 | P | 9.38 | 1.3 | 1.4-3.4 | C | 2.42 | 0.3 | 40 |
| Tosoh AIA | 23 | 6.9-10.4 | P | 8.64 | 0.7 | 6.6-9.9 | P | 8.27 | 0.5 | 17.0-25.5 | P | 21.23 | 1.8 | 8.5-12.8 | P | 10.67 | 0.6 | 2.3-4.3 | C | 3.30 | 0.3 | 23 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | | | | | | |
| Low recovery methods | 24 | 5.8-8.8 | P | 7.30 | 0.7 | 5.7-8.6 | P | 7.18 | 0.7 | 13.9-20.9 | P | 17.42 | 1.9 | 7.4-11.1 | P | 9.22 | 1.2 | 1.5-3.5 | C | 2.51 | 0.6 | 63 |
| Low moderate recovery meths | 25 | 6.2-9.4 | P | 7.81 | 0.7 | 6.3-9.4 | P | 7.85 | 0.9 | 15.3-23.0 | P | 19.14 | 2.9 | 7.9-11.9 | P | 9.89 | 1.1 | 2.4-4.4 | C | 3.43 | 0.4 | 47 |
| Moderate recovery methods | 26 | 6.3-9.5 | P | 7.93 | 1.1 | 6.2-9.3 | P | 7.78 | 0.8 | 15.7-23.6 | P | 19.64 | 2.5 | 7.9-11.8 | P | 9.87 | 1.3 | 2.6-4.6 | C | 3.60 | 0.7 | 141 |
| High moderate recovery meth | 27 | 5.9-8.8 | P | 7.32 | 0.8 | 5.6-8.5 | P | 7.04 | 0.6 | 15.3-22.9 | P | 19.06 | 1.5 | 7.5-11.3 | P | 9.40 | 1.4 | 1.5-3.5 | C | 2.52 | 0.5 | 18 |
| High recovery methods | 28 | 7.1-10.6 | P | 8.86 | 0.6 | 7.6-11.4 | P | 9.48 | 0.7 | 15.6-23.4 | P | 19.50 | 1.1 | 8.9-13.4 | P | 11.17 | 0.7 | 3.0-5.0 | C | 3.97 | 0.3 | 73 |
| **Total Population** | | | | | | | | | | | | | | | | | | | | | | |
| Whole Population | 29 | 6.4-9.6 | P | 7.96 | 0.9 | 6.4-9.6 | P | 7.99 | 1.1 | 15.3-22.9 | P | 19.08 | 2.2 | 8.0-12.0 | P | 10.03 | 1.2 | 2.5-4.5 | C | 3.46 | 0.6 | 362 |