Abbott Architect
Iron & UIBC

Abbott Assays/Reagents:

- **Iron**
  - C-side ferene colorimetric method
  - Validated sample types: lithium heparin plasma and serum
  - Calibrator: MCC
  - QC: Multichem S Plus
  - Reportable range: 5-6550 µg/dL
  - Allowable H-I-L - 1+ hemolysis
  - Refrigerated specimen stability: 3 weeks

- **UIBC - Unconjugated Iron Binding Capacity**
  - C-side ferene colorimetric method
  - Validated sample types: lithium heparin plasma and serum
  - Calibrator: comes with reagent
  - QC: Multichem S Plus
  - Reportable range: 25-1000 µg/dL
  - Allowable H-I-L - 1+ hemolysis
  - Refrigerated specimen stability: 3 weeks

Calculations:

- **TIBC - Total Iron Binding Capacity (µg/dL)**

  TIBC = Iron + UIBC

- **Transferrin Saturation (%)**

  Trans. Sat. = (Iron/TIBC) x 100

- If either the iron or UIBC is outside the reportable range (</>), the TIBC or transferrin saturation cannot be calculated.

Misc

- Both assays are installed on Architect #2 and configured to print on the same label as Ferritin.
- Both Iron and UIBC are configured for auto-verification of results within the reportable range and within H-I-L tolerances.
- There are no system alert or critical values for iron, TIBC, UIBC, or transferrin saturation.
- Iron, UIBC, and TIBC each have one respective reference range, while transferrin saturation has separate male and female ranges.