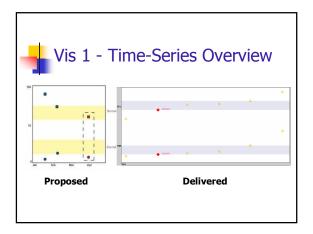
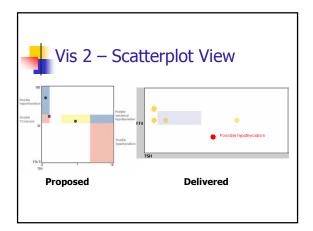


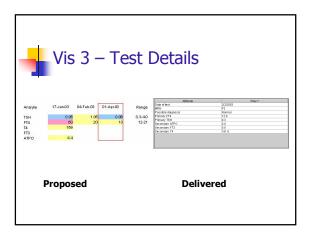
-

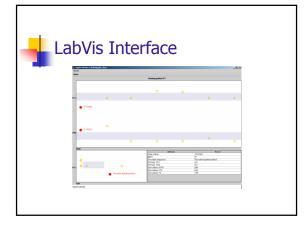
Project Goals

- To develop an effective visualization for displaying and interacting with medical laboratory results
- Must support diagnosis, monitoring of treatment, and education of medical students
- Evaluate using real scenarios











- Linked highlighting
- C
- Spatial layout



Usage scenarios

- Clinician: single patient data
 - Diagnostics: what's wrong now?
 - Monitoring history over time
- Clinical researcher: full dataset
 - Overall trends, outliers, ...



Thyroid test terminology

- Primary tests:
 - TSH (thyroid stimulating hormone)
 - FT4 (free thyroxine)
- Relationship determines likely diagnosis
- Secondary tests
 - T4, FT3, ATPO, ...
 - Used to confirm some diagnoses



Demo!

Clinician diagnostic scenario



Evaluation

- Informal cognitive walkthrough
 - Domain expert user: Dr. Wes Schreiber
 - Non-expert users
- Results
 - Linked highlighting, colour cues helpful
 - Some suggestions for detail visualization
 - Overall: easy to use, intuitive



Summary

 LabVis: rapid, intuitive visualization and interpretation of medical laboratory test results

