The NIH Biomedical Translational Research Information System
(BTRIS)

Town Hall Meeting - Information Session
February 26, 2008
Lipsett Auditorium

The Reuse of Biomedical Data

- Secondary uses of clinical data for:
  - Patient care
  - Research
  - Administrative processes
- Use of patient data for research
- Use of research data for patient care ("translational research")
- Data may require transformation:
  - De-identification and Re-identification
  - Indexing
  - Aggregation by time
  - Abstraction by classification
  - Conversion to relevant concepts

Brief Bio

- Internal medicine residency (St. Vincent's, NY)
- Medical informatics fellowship (Harvard/MGH)
- 20 years at Columbia
  - Informatics research
  - Building clinical systems
  - Teaching informatics and medicine
  - Clinical practice
- Clinical data repository and warehouse
  - 25+ data sources
  - 2,000,000 patients

– 20 years of data
– Innovations in coding and organization
– Concept-based queries
– Natural language processing (NLP)

What is BTRIS?

- Formerly "CRIS-II"
- Not "Son of CRIS"
- Not just clinical
- Includes focus on translational research
- Hence:

What is BTRIS?
What is BTRIS?
What is BTRIS?

Queries from Requirements-Gathering
Access Control Issues

- Ownership of data
- Authorization for re-use
- Confidentiality and re-Identification of data

The PI User Group

- Volunteers from NIH community
- Most likely to benefit from BTRIS
- Help set requirements and priorities
- Commitment to participate
  – Weekly meetings
  – Review materials, screen shots, demos
- Beta testers – first access to demonstration

BTRIS Demonstration Environment
BTRIS Demonstration Environment

BTRIS Demonstration Environment
Demonstration Project

- Sources:
  - Current laboratory data
  - Old laboratory data (CDW/CDR or MIS)
  - Pharmacy orders (CRIS-I or MIS)
- Terminology Services
  - Code look-up
  - Simple class-based queries
- Data services
  - Data aggregation across sources
  - Data summarization by concept class
  - Patient identification for possible recruitment
  - …as per PI User Group

Timeline for Initial Rollouts

- Demonstration Project: July 2008
- BTRIS: July 2009

BTRIS Will:

- Be the preferred system to analyze NIH clinical and non-clinical data
- Aggregate and standardize disparate and isolated data sets
- Automate and streamline processes that are traditionally manual and cumbersome
- Prioritize data sources and functionality based on needs of user community

Additional Information

www.btris.nih.gov

Questions about BTRIS
or to join the PI User Group:

ciminoj@mail.nih.gov