

Great Plains IDeA-Clinical & Translational Research

**Biomedical Informatics &
Cyberinfrastructure Core**

**Resources for Clinical & Translational
Research**

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Learning Objectives

- Introduce the Great Plains Clinical And Translational Research Network
- Discuss the Biomedical Informatics (BMI) and Cyberinfrastructure Core
- Describe some BMI resources available to GP-CTR Network members
- Discuss evolving training opportunities for GP-CTR members

Great Plains IDeA-CTR Program Grant

Awarded September 1, 2016

- 5-year project (renewable)
- \$4 million per year
- 4 states
- 9 institutions
- 7 key components
- 2 major programs
- 100+ personnel

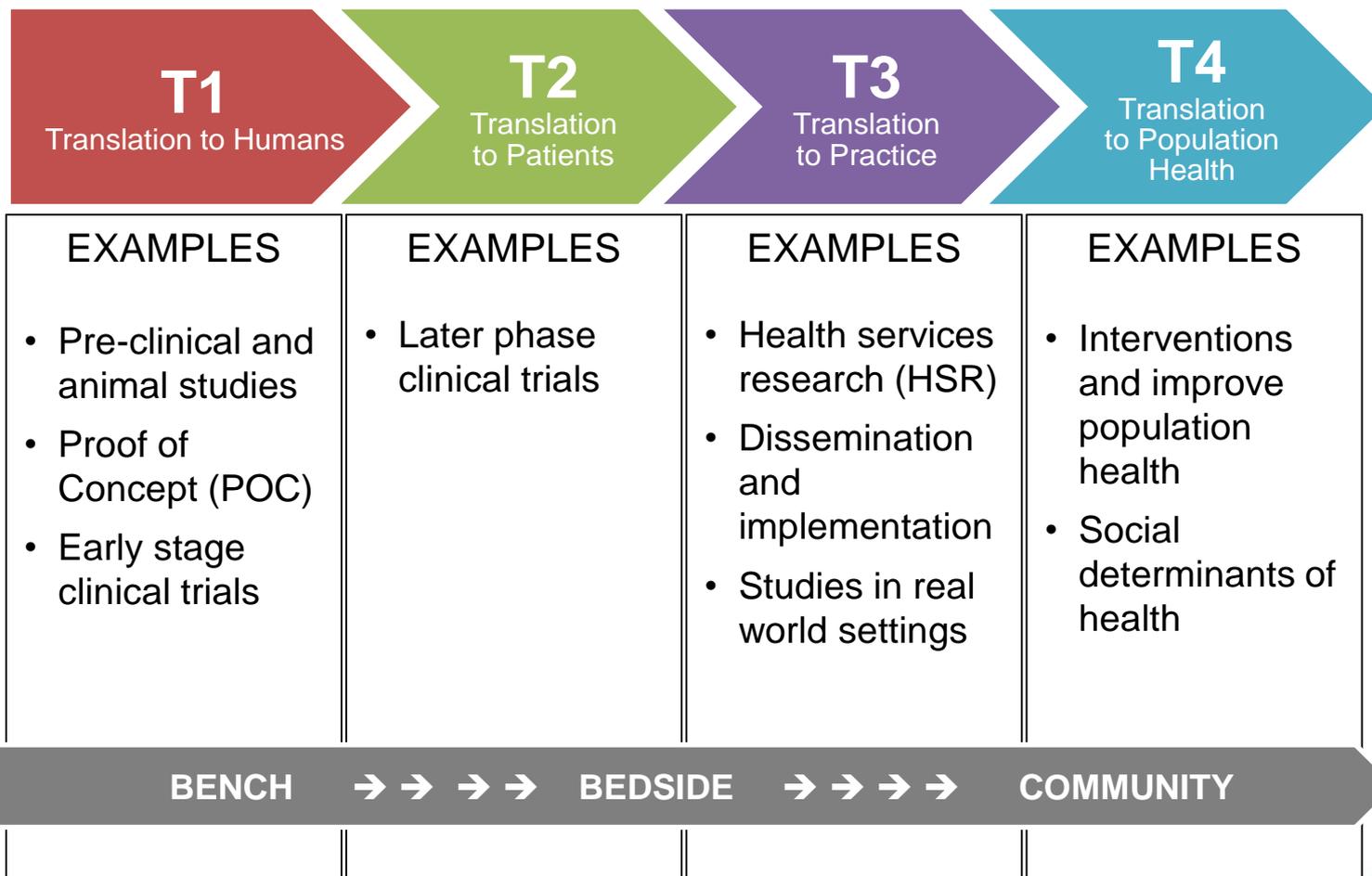


Shaded states are eligible for IDeA.



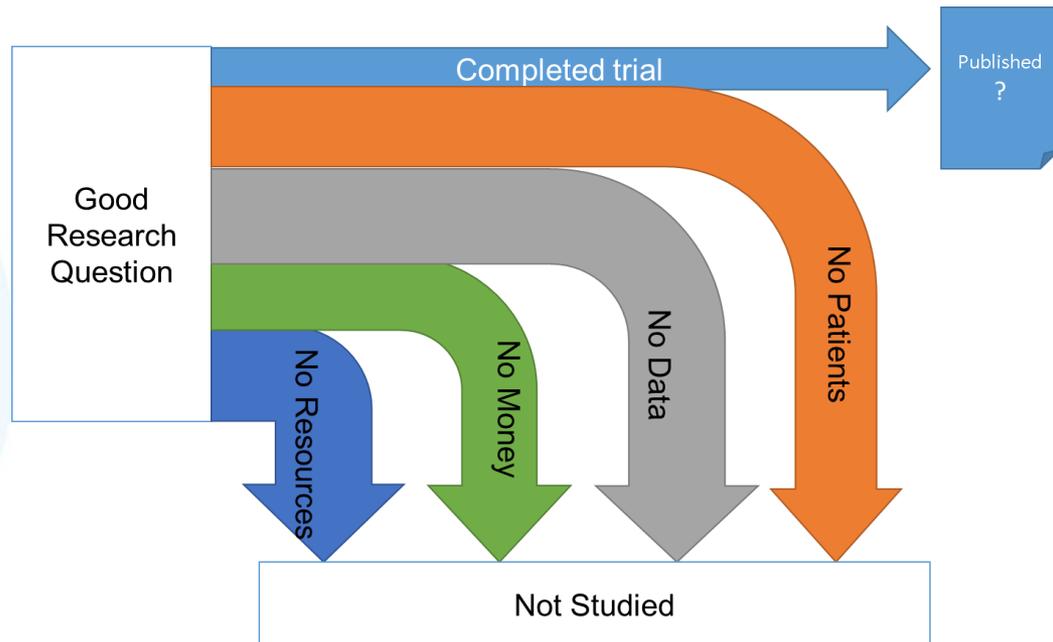
What does CTR stand for?

Clinical and Translational Research



Clinical & Translational Study Costs

- Cost per patient rising at 8% annually*
- 200 man hours per enrolled patient **
- \$8-10K/patient***



*National Bureau of Economic Research (2013)

** Emanuel et al. J Clin Oncology 2003

*** Eisenstein et al. Clinical Trials 2008; 5 75-84

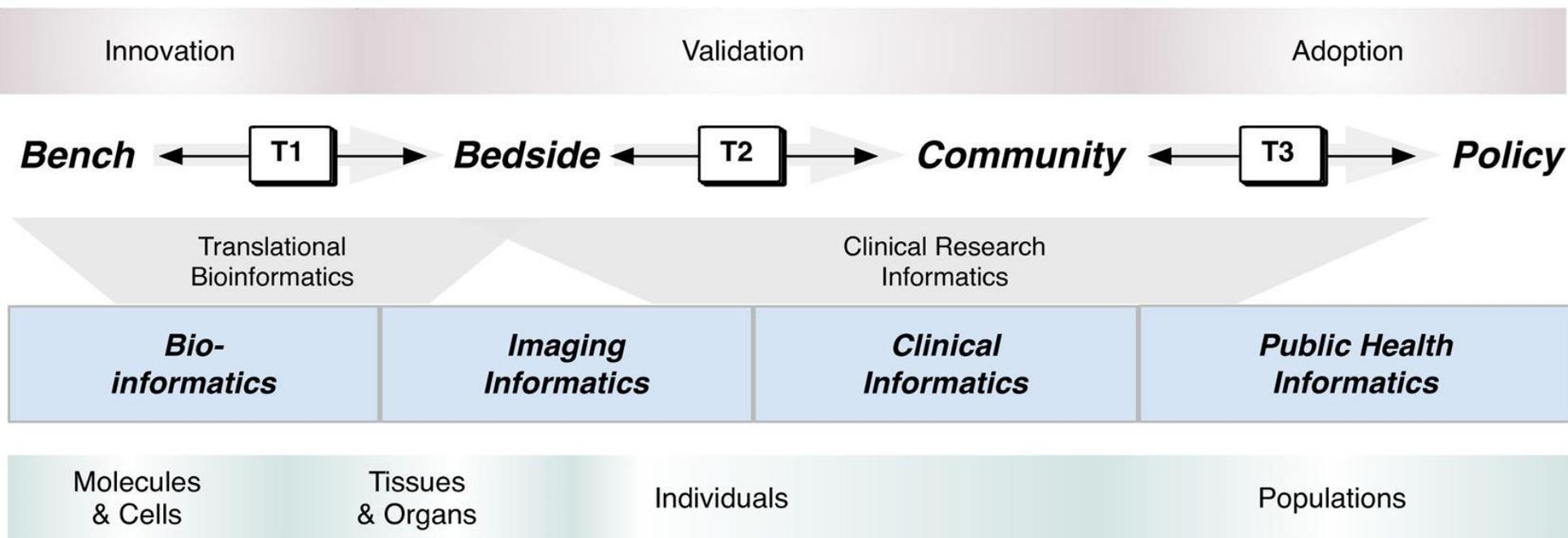


TECHNOLOGY

Everyone Is Here To Save You, But Unfortunately
... You're Not In The Computer

Role of BMI in Translational Medicine

Translational Medicine Continuum



Biomedical Informatics Continuum



GP-CTR Web Portal

Provides central access to resources and communications across the GP-CTR

Index to existing Resources in Menu/toolbox



Search UNMC



MENU

GREAT PLAINS IDEA-CLINICAL & TRANSLATIONAL RESEARCH



PI Matthew Rizzo talks about IDEa-CTR grant



Under the Microscope: Clinical-translational research grant

<https://gpctr.unmc.edu>

Maintained by the Research IT Office



REDCap

Research Electronic Data Capture

Secure web-based system for data capture in research studies.

- Survey development for Patient Reported Outcomes
- User-friendly web-based case report forms
- Real-time data entry validation (e.g. for data types and range checks)
- Audit trails,
- Set up a calendar to schedule and track critical study events

Non-UNMC investigators may request access from the Web Portal

Central Plains Federal Statistical Research Data Center

A point of access to restricted-use versions of important datasets maintained by the US census bureau and other federal agencies.

Contact the administrator of the central plains federal statistical research data center (CPRDC) [veronica roth](mailto:veronica.l.roth@census.gov) (veronica.l.roth@census.gov) if you are considering writing a proposal.



CENTRAL PLAINS FEDERAL STATISTICAL RESEARCH DATA CENTER



Data Management Planning

NIH guidelines for information security

Why should you create a data management plan?

- 1) Meet funding agency requirements
- 2) Preserve your data
- 3) Maintain data integrity
- 4) Share data with other researchers
- 5) Support open access

Access the Data Planning Checklist from the Web Portal

<https://www.unmc.edu/vcr/rito/data-management/plan/why-plan.html>

Clinical Data Research Network

UNMC is a node on The National Patient-Centered Clinical Research Network (PCORnet.org)



PCORnet supports multiple opportunities to participate in or lead comparative effectiveness research trials.

The GP-CTR partner institution KUMC leads the Greater Plains Collaborative Clinical Research Network.

Data and collaboration requests may be submitted through the GPC website at gpcnetwork.org

Other BMI supported resources

Watch for additions to the web portal

Next:

Dr. Purnima Guda, Director Electronic Health Record Data Access Core

Dr. Babu Guda, Director of Bioinformatics and Systems Biology Core

GP-CTR email: gpctr@unmc.edu

Thank You



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Biomedical Informatics

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