The ePCT Ecosystem
A Learning Health Care System - Are We Building One?

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The Learning Health Care System

In a learning health care system, research influences practice and practice influences research.

**Evaluate**
- Collect data and analyze results to show what does and does not work.

**Implement**
- Apply the plan in pilot and control settings.

**Design**
- Design care and evaluation based on evidence generated here and elsewhere.

**Adjust**
- Use evidence to influence continual improvement.

**Disseminate**
- Share results to improve care for everyone.

- Internal and External Scan
- Identify problems and potentially innovative solutions.

Key Activities
1. Strategic, organizational and technical aspects for making data available to clinicians and patients for clinical decision making
2. Leverage and extend digital health and data for efficient high-quality research – trials and observational work
3. Demonstration Projects to leverage government and private organization resources
Learning Health System
Core Principles

- Systems that create research embedded in practice
- **Methods that answer questions**
- **New approaches for efficient design, analysis, conduct**
- Frameworks for autonomy, privacy, confidentiality & security
- Configure, store and use data, addressing consent & privacy
NIH Health Care Systems Research Collaboratory

**Goal:** To strengthen the national capacity to implement cost-effective, large-scale research studies that engage health care delivery organizations as research partners.

**Aim:** To provide a framework of implementation methods and best practices that will enable the participation of many health care systems in clinical research. Research conducted in partnership with health care systems is essential to strengthen the relevance of research results to health practice.

And now there are other approaches ....
Methods That Answer Questions

- Dissemination of information
  - Research methods
  - Interventions
  - Research results
  - Large data sets
Comparative Effectiveness Research: Who Will Do The Studies?

Invited Commentary
Consequences of Slow Progress Toward Pragmatism in Randomized Clinical Trials
It Is Time to Get Practical
Fatima Rodriguez, MD, MPH; Robert M. Califf, MD; Robert A. Harrington, MD

Evidence from Pragmatic Trials during Routine Care — Slouching toward a Learning Health System
Gregory E. Simon, M.D., M.P.H., Richard Platt, M.D., and Adrian F. Hernandez, M.D., M.H.S.