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2006 Annual Report
of the
Regenstrief Center
for Healthcare Engineering
Annual Strategic Objectives

2005

- Launch Regenstrief Center
- Begin construction of Mann Hall
- Establish partnerships to serve as “living laboratories”

2006

- Establish strategic direction
- Continue construction of Mann Hall
- Expand and engage partners
Annual Strategic Objectives

2005
- Recruit new faculty to Purdue
- Spawn interdisciplinary research

2006
- Continue recruitment of new faculty
- Focus interdisciplinary research
Establish Strategic Direction

Organizational infrastructure

- Executive Committee
Establish Strategic Direction

Organizational infrastructure

- Staff
  - Director
  - Managing Director, Collaboration Officer
  - Administrative Assistant
  - Communications Specialist

- Transition from Launch to Advisory Committee
Establish Strategic Direction

Strategic plan

- Broad-based external input
  - Strategic partners
  - Purdue Healthcare Summit (May 2006)
  - National Science Foundation – Healthcare Systems Engineering Workshop (June 2006)
  - Pioneers in Healthcare Speaker Series
Continue Construction of Mann Hall

December 2006

April 2007
Expand and Engage Partnerships

New partners in 2006

Research
- 11 new projects in 2006

Healthcare Technical Assistance Program
- 24 healthcare sites
Recruit and Engage Faculty

RCHE faculty

- Systems engineering
- Human factors
- Simulation

Offers pending:
- Healthcare communications
- Computer science
- Performance improvement
- Joint Regenstrief Institute hire
Focus Interdisciplinary Research

Core Research Areas

Efficiency & Effectiveness  Safety & Quality  Interoperability & Security
Pandemic Influenza Gap Analysis

College of Engineering
School of Nursing
College of Science
Purdue Homeland Security Institute
Healthcare Technical Assistance Program
Research Question:
How can the state organize its public health services to effectively deal with statewide healthcare delivery efforts?
Gap Analysis
May – August 2006

- Developed methodology to assess local-level readiness
- Identified statewide gaps
  - Volunteer management
  - Mass fatality planning
  - Public education
  - Isolation/quarantine implementation
  - State-level coordination

Map Scale: 0 = no items in progress/completed
2 = all items in progress/completed
Alternative Care Site Planning
Due May 2007

- Analysis of current capacity and needs assessment
- Development of methodology, design and implementation process
Mapping Leukemia Treatment Decisions

Larry Cripe, M.D., IUSM
Henry Kraebber, RCHE Scholar, College of Technology
Seza Orcun, e-Enterprise Center
Research Questions:

How can complicated treatment options be communicated among clinicians and patients?

- Time in hospital
- Cost
- Side effects
- Success rate
- Satisfaction

How can patients effectively participate in their treatment planning?
Patient Care Plan

- Documents data, options and decisions
- Keeps everyone on the “same page”
- Details steps in the treatment plan
- Facilitates teamwork between patient, physicians, nurses and family members
Review test results

- Induction
  - Supportive care
  - Clinical Evaluation
  - Do nothing
  - Delay

- New Chemo-drug treatment
  - Partial Remission
  - Refractory disease

- Death

Remission
Map in Client e-Lab Notebook

Picture from a series by Jan Lucas Grimm, leukemia patient
Map in Client e-Lab Notebook

Picture from a series by Jan Lucas Grimm, leukemia patient
Future Strategic Objectives

2007

- Complete faculty hires
- Develop systems focus in biomedical engineering
- Occupy Mann Hall
- Enable data security and interoperability
- Cultivate multi-state initiatives
- Establish national presence
- Secure Foundation renewal