



# **Economic Evaluation Service**

## **Kern Center for Science of Healthcare Delivery**

### **Mayo Clinic**

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**Mayo Clinic College of Medicine, Rochester, MN**

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# Objective

- To provide an overview of Economic Evaluation Service Unit
- To discuss the collaboration potential between Alliance Researchers and Economic Evaluation Service Unit at the Kern Center, Mayo Clinic

# Economic Evaluation Service (EES)

- A unit of the Kern Center for the Science of Health Care Delivery
  - Office of Health Care Policy and Practice (OHCPP)
- EES offers wide variety of economic evaluation services under the broader theme of CER, including
  - Economic costs of interventions
  - Health care resource utilization
  - Health economic modeling methodologies

# Kern Center for the Science of Health Care Delivery (CSHCD)

- Research pursues the IHI's Triple Aim
  - Enhance patient experience
  - Improve health across populations
  - Manage or lower the costs of care
- Applies innovative science and data to evaluate a variety of disease areas spanning a multitude of study disciplines
- Combines innovation, continuous improvement, implementation science and research-quality methodologies to improve health care delivery

# Scope of EES Projects

- Mayo Projects
  - CSHCD-funded projects that need EES assistance
  - Researcher-initiated projects that need assistance in economics evaluation
  - Participates in funding applications from NIH, and other funding organizations
- Non-Mayo Projects
  - EES collaborates with non-Mayo partners in a similar manner as with Mayo projects

# Scope and Budgets

- EES team works closely with study proponents
  - To scope out the project
- Study budget depends on
  - Scope & complexity of the study
  - Auxiliary costs such as the cost of data acquisition
- Timeline
  - Scope-dependent
  - PI is informed of the proposed timeline
  - The timeline starts once the PI and the EES agrees on the scope and budget for the study

# Center for the Science of Health Care Delivery

**Medical Director:** Jon O. Ebbert, M.D.

## Office of Health Care Practice and Policy

Bijan Borah, Ph.D.

Economic Evaluation

James Naessens, Ph.D.

Quality and Safety

Lindsey Philpot, Ph.D.

Practice Analytics and Reporting

Optum Labs

High Value Healthcare Collaborative

## Meet the Team

**Program Manager:**

Kristy Vierling

**Research Associates:**

Sarah Meier, PhD

Molly M. Jeffery, PhD

**Principal Health Service Analysts:**

Amy Glasgow

Matthew Johnson

James Moriarty

Parvez Rahman

Monica Van Such

Sue Visscher, PhD

**Senior Health Service Analyst:**

Priya Ramar

**Health Service Analysts:**

Meghan Knoedler

Kristi Swanson

**Statistical Programmer Analysts:**

Lorelle Benetti

Joel Hickman

Jonathan Inselman

Jamie O Byrne

Stephanie Peterson

Daniel Roellinger

Jordan Rosedahl

**Strategic Director:** Véronique Roger, MD

**Medical Director:** Jay Talwalkar, MD

**Scientific Director:** Nilay Shah, PhD

**Operations Manager:** Dana Swenson-Dravis

**Post Doc Research Associates:**

Xiaoxi Yao, PhD

**Principal Health Service Analyst:**

Lindsey Sangaralingham

**Senior Health Service Analysts:**

Herb Heien

Holly Van Houten

**Statistical Programmer Analysts:**

Dennis Asante

Raphael Mwangi

Stephanie Schilz

# The EES Core Team

- Bijan Borah, PhD (Director & Lead Consultant)
- Jon Ebbert, MD (Medical Director)
- Kristy Vierling (Project Manager)
- Principal and Masters Health Services Analysts
  - Sue Visscher, PhD; James Moriarty, MS
- Statistical Programmer Analysts
  - Jordan Rosedahl, Kandace Lackore, Joel Hickman, Rachel Gullerud, Jeanine Ransom
- Besides the core team, EES also has access to expertise in all other relevant areas



# Why Collaborate with EES

- Expertise
  - Methodological expertise in healthcare cost & utilization data
  - Ability to address nuances in costs and utilizations
- Experience
  - The EES team has multiple years of experience in analyzing economic evaluation
  - Experience in the use of different data assets (e.g., Medicare/commercial claims, publicly available data such as HCUP NIS etc.)
- Access to clinical other expertise from the clinic

# Access to Data Assets

- Mayo's internal patient data
  - Mayo Cost Data Warehouse
- Optum Labs
- Medicare
- All publicly available state and national databases
  - MEPS
  - HCUP (e.g., National Inpatient Sample, National Readmission Database etc.)

# Example of an Ongoing EES Study

- Cost-effectiveness of medications for patients with breast cancer and bone metastasis
- Two potential drugs
  - Zoledronic acid
  - Denosumab

# Example of an Ongoing EES Study...continued

- Prior studies show mixed results:
  - Denosumab consistently more expensive with fewer Skeletal related events
  - The trade-off of better outcomes at higher cost has varied

# Example of an Ongoing EES Study... continued

- What does our study add?
  - Updated costs from zoledronic acid recently moving to generic
  - Results of a recent non-inferiority trial comparing monthly zoledronic acid with quarterly zoledronic acid
  - Three treatment options under consideration
    - Monthly zoledronic acid
    - Quarterly zoledronic acid
    - Monthly denosumab
  - Two year analysis vs. 1 year for most prior studies

# How to Find EES Online

- [Link to EES within Mayo Intranet](#)
- [EES Online](#)

# Questions & Discussion

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