ICD-Pieces Case Study

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Essentials of Embedded Pragmatic Clinical Trials
Multiple chronic conditions

Opportunity to Advance Care

- Common
- Under-recognized

- Serious Complications
- Treatable
Hypothesis

PIECES (Information Technology)

Practice Facilitators

Primary Care Practices

Improved Outcomes for Patients with CKD, Diabetes & Hypertension

Reduced:
1. Hospitalizations
2. ED Visits
3. Readmissions
4. CV Events / Deaths
Participating healthcare systems

- UT Southwestern Medical Center
  - Parkland
  - Texas Health Resources
  - ProHealth Physicians
  - U.S. Department of Veterans Affairs
- Private Nonprofit
- Private ACO
- Government Hospital
Study design: cluster randomization

- Primary Care Providers: Risk of Cross Contamination
- Clinics: Size Heterogeneity
- Practices: Unique Team & Patient Panel
Study conduct

Randomization Clinical Practices

Patients Identified

Primary Care Team Notified

Clinical Decision Support Implemented

Monitoring Performance/Clinical Measures

Ascertain Outcomes
Potential barriers

- Personnel turnover at multiple sites and levels
- Measuring study fidelity
- Data sharing and transmission
Lessons learned

Early Planning
- Align Goals
- Plan together
- Develop trust
- Staffing

Delivery
- Minimize disruption
- Provide tools
- Adapt
- Create value

Completion
- Dissemination / Implementation
- Sustainability
- Future Projects
UH3 Project: Improving Chronic Disease Management with Pieces (ICD-Pieces™)

Principal Investigator: Miguel Vazquez, MD
Sponsoring Institution: University of Texas Southwestern Medical Center
Collaborator: Parkland Health and Hospital System
NIH Institute Providing Oversight: National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
Program Officer: Susan Mendley (NIDDK)
Project Scientist: Kevin Chan (NIDDK)
ClinicalTrials.gov Identifier: NCT02587936
Study Locations: Texas, Connecticut
Trial Status: Currently recruiting participants

Presentation
5/1/2019: Presentation to NIH Collaboratory Steering Committee (slides)

Interviews
10/10/2017: Interview with principal investigator Dr. Miguel Vazquez (PDF)
6/4/2015: Interview with principal investigator Dr. Miguel Vazquez (video)
8/20/2014: Interview with principal investigator Dr. Miguel Vazquez (video)

Supplementary Material
Regulatory and Ethics Support: Documentation

Study Snapshot