HIT RESEARCH AT CHMS

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To improve healthcare quality, efficiency, and access by advancing knowledge of healthcare management and systems through interdisciplinary research in the national and international contexts

Goals:
- Establish connections with national and international healthcare organizations
- Collaborate with external organizations
- Involve COB faculty interested in healthcare research with CHMS
- Facilitate internal interdisciplinary collaboration at ECU
- Conduct pilot studies to prepare for federal grant applications
- Obtain external funding
CURRENT PROJECTS

- HIE outcome evaluation
  - Access, efficiency, data quality, added value, trust, satisfaction
- EMR impact on hospital performance
  - Large comprehensive hospital in China (1150 beds)
  - Interrupted time series analysis (60-month)
- The effect of telehealth home monitoring on blood pressure
  - Longitudinal data analysis
- Resistance of telemedicine in Ethiopia
  - Survey of 107 HCPs in Ethiopia
OTHER RESEARCH INTERESTS

- The interaction between social media and health care
  - Physician decision making
  - Social support among patients
- Security and privacy issues of HIT
  - Individual patient behavior
  - Organizational compliance
CHMS CAPABILITIES

- Design qualitative and quantitative studies to evaluate HIT projects
  - Interviews, focus group, Delphi studies
  - Survey, controlled experiments

- Develop instruments
  - Identify established scales
  - Develop customized scales based on theory

- Data collection
  - Design interview protocols
  - Design questionnaires
  - Conduct data collection

- Advanced data analysis
  - Longitudinal data analysis (time series, linear mixed model)
  - Multilevel analysis
  - Structural Equation Modeling
  - Moderation, mediation, mediated moderation, moderated mediation

- Disseminate research results
  - Present findings on national and international conferences
  - Publications on high impact top academic journals