# MPOWER: ME AND UMB SCHOOL OF PHARMACY

- ➤ **UMB SOP Department of Pharmaceutical Health Services Research**
  - ➤ Research key words: multi-disciplinary; collaborative; pharmacy; prescription drugs; comparative effectiveness; pharmaco-epidemiology; pharmaco-economics; pharmaceutical & health policy
  - ➤ Pharmaceutical Research Computing
    - ➤ Data: Medicare; Medicaid; Optum Labs; MCBS; etc

- ➤ **ME**
  - ➤ Maryland Statewide Epidemiological Outcomes Workgroup (Director; BHA/DHMH/SAMHSA)
    - ➤ DHMH-funded through SAMHSA SPF grant(s)
    - ➤ Benchmark and map substance use and consequences in Maryland using multiple data sources:
      - ➤ NSDUH Research Portal; HSCRC; TEDS; IMS dispensing data; etc
    - ➤ The Team: demographer; epidemiologist; two GRAs; one post-doc
    - ➤ Research foci:
      - ➤ Prescription drug abuse/Opioid overdose
      - ➤ Alcohol use in young people
      - ➤ Marijuana
  - ➤ Evaluation of the Maryland Prescription Drug Monitoring Program (PI; BHA/DHMH)
  - ➤ COPD and Depression in Older Adults (PI; NIA)

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# MPOWER: GEOSPATIAL STUFF

- ➢ **What We Do**
  - ➢ Substance use mapping: National; Maryland; sub-state
    - ➢ *Where You Live and Who You Are Matter: Prescription Opioid Treatment Admissions*
    - ➢ *Impact of State PDMP and 'Spill-over' of Prescription Drug Fills*
  - ➢ Dissertation
    - ➢ *Pharmacological Treatment for Serious Mental Illness: Geographic Variation and Association with Preventable Hospitalization*
    - ➢ Objective: to quantify the effect of SMI pharmacological treatment on preventable hospitalizations in older adults with SMI using patient clusters identified through geographic variation in SMI pharmacological treatment.
- ➢ **What We Need Now**
  - ➢ More users and more training and more expertise
  - ➢ Increased awareness of what other folks are doing with geospatial
- ➢ **What We Want**
  - ➢ To exploit our data bases using geospatial methods to examine important policies around substance use and mental health
    - ➢ <u>DREAM Project #1:</u> Influence of state policies on abusable prescription drugs on health and outcomes among Medicare beneficiaries
    - ➢ <u>DREAM Project #2:</u> Medical marijuana policy and impact on marijuana and other substance abuse, treatment, and health outcomes

02:09