



Conducting Research in the CHC setting

MWCN RESEARCH COMMITTEE

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Agenda

- ▶ Defining Research
- ▶ Why do Research?
- ▶ To provide information regarding the research process in the CHC setting
- ▶ Establishing a relationship with an academic investigator/partner
- ▶ Building infrastructure for research
- ▶ Getting started



Why do a research study?

- ▶ Answer questions you have regarding care of your patients
- ▶ Use your own data and evidence to integrate change into practice
- ▶ Lay groundwork for sustainable relationship with a researcher
- ▶ Real life setting provides a unique opportunity for the researcher



Why do a research study?

- ▶ Give health center staff an opportunity to pursue a research interest with an academic partner
- ▶ Provide funding to test out an innovative idea or implement a quality project that you wanted to try
- ▶ Organization can show innovation, leadership, quality, and evidence-based care to influence hiring, community partnerships, and marketing services to patients

Types of Research

- ▶ **Survey**: collect information from a certain group of people, obtain their opinions
- ▶ **Pilot**: the first step in answering a question, starts with a small sample size to see if the question is appropriate and feasible, provides foundation for larger study
- ▶ **Randomized controlled trial**: used to look at the effects of a treatment, procedure, medication where patients are randomly assigned to the experimental arm or the control or usual care arm of the study.
- ▶ **Interventional**: looking for what is the best treatment plan for a group of patients. What will improve patient outcomes. Testing cause and effect.

Interest in the Research Topic

- ▶ Everyday there are questions you ask regarding care
 - ▶ **Best practices**
 - ▶ Point of care projects
 - ▶ **Telehealth**
 - ▶ Virtual education
 - ▶ Text messaging
 - ▶ Continuous Glucose Monitoring
- ▶ **What questions do you have?**



Elements of A Research Plan

- ▶ Process of acquiring new knowledge
- ▶ Success is dependent on a well-designed study
- ▶ A diligent plan includes:
 - ▶ Aims: state the nature of the problem, specific objectives
 - ▶ Population: group of individuals that are the focus of the study
 - ▶ Conduct/technique: based on the intervention outcomes, comparison of groups
 - ▶ Support: Key staff/structure necessary to support the project
 - ▶ Outcome: specific, measurable, clinically relevant
 - ▶ Statistical considerations: sample size, based on objectives



Establishing a Relationship with a Researcher

- ▶ Identify academic investigator/partner
 - ▶ Nearby university
 - ▶ Partnership with another organization
 - ▶ Through MWCN/AHEAD CHC (**A**ccelerating **H**ealth **E**quity and **E**liminating **D**iabetes **D**isparities in CHCs)
 - ▶ Inform investigator of your interests and ideas to improve quality patient care/impact
- ▶ List-serve and newsletter will provide information about latest research projects.

Review the Protocol

- ▶ Information about the study will include:
 - ▶ Purpose/research question
 - ▶ Inclusion and exclusion criteria
 - ▶ Sample size
 - ▶ Financial information
 - ▶ Tentative timeline
 - ▶ Contact information



Start Up Administration Steps

- ▶ Things that may have to happen to get a study started:
 - ▶ 1) Contract, agreement, or Memorandum of Understanding
 - ▶ 2) Data use agreement
 - ▶ 3) IRB approval for study
 - ▶ Process involves a little bit of paperwork (e.g., signed letter from CHC leadership, from with info about your study site) which the researcher's institution can guide you through.
 - ▶ 4) IRB reliance agreement: provides a mechanism for an institution engaged in research to delegate institutional review board (IRB) review to an independent IRB or an IRB of another institution.

Research Support

- ▶ The Principal Investigator and support staff are available for questions and support
 - ▶ Provide a start up meeting to go over the study, expectations, and anticipated time commitment
 - ▶ Put together worksheets, surveys, scripts, and support documents
 - ▶ Schedule webinars
 - ▶ Draft and submit papers/presentations to appropriate journals/organizations



Selection of Research Staff at the CHC

- ▶ Need to put together your team
- ▶ Be mindful of what the needs are of the study
- ▶ Who will be your best support staff?
- ▶ Communication is key, all the health center staff need to know about the study and what type of patients will be a fit for the study
- ▶ Expect/plan for turnover



Staff Involvement

- ▶ Staff who are engaged in CHC research activities:
 - ▶ will need to do a training about protection of human subjects in research
 - ▶ calling patients for recruitment,
 - ▶ obtaining consent from patients to participate in the study,
 - ▶ implementing an intervention that is not standard care,
 - ▶ collecting research data



Projects Involving Patients

▶ **Patient Recruitment**

- ▶ Recruitment takes a lot of time and staff effort
- ▶ Need to recruit more than you think because there will be dropouts

▶ **Protecting patient information**

- ▶ The research staff will be asking you for information of those patients involved in the study
- ▶ They will be asking you to make sure the information is de-identified (the patient's name must be removed from the data submitted)

Inclusion/exclusion criteria

- ▶ Inclusion and exclusion criteria are needed to conduct quality research and will be spelled out in the study protocol
- ▶ Inclusion criteria are the features that are needed to answer the research question. Need to be consistent, reliable, and uniform
- ▶ Exclusion criteria are features that could interfere with the success of the study or may increase the risk to the patient.
 - ▶ Include patients that are not likely to follow through with the study such as unmanaged serious mental illness, of plans to move in the near future.
 - ▶ Have comorbidities that could alter the results or increase the risk of severe adverse events.

Data collection

- ▶ What data will be collected is directly related to the research questions.
- ▶ May need to collect data before the study begins as well as after to determine if there is a change in the outcomes.
- ▶ Information will be provided by the research team before the study starts.
- ▶ May need to designate a staff member to complete the data collection or work with others at your CHC, e.g. quality reporting or analytics person who can pull data from EHR.



Results

- ▶ Objective reporting of the findings
- ▶ Describes the analysis of the research question(s)
- ▶ Reports the results and what was statically significant
- ▶ Statements that clarify and support the questions asked



What are the expectations?

- ▶ Follow the protocol
- ▶ Communicate with the research staff regarding the project
 - ▶ If you run into problems with any aspect of the protocol
 - ▶ Needing to change the timeline
- ▶ If participating in a randomized trial the randomization should be performed by an independent person.
- ▶ Not favor one group of patients over another



Surveys

- ▶ Most researchers will want to ask the patients as well as the staff their opinion about the research being conducted
- ▶ Depends on the purpose of the research and the type of research question
- ▶ Example of surveys might include: Satisfaction/feedback, Procedural, and Opinion
- ▶ Some government sponsored research requires the completion of a specific data points (social determinants of health, ACES, behavioral health sex, race, and ethnicity)

Sharing Results/ Dissemination

- ▶ Share your progress and results to senior leadership, board members, patients, staff, providers, funders, payors, local community members, and healthcare partners
- ▶ Consider the message are you trying to get across (may be different based on whom you are presenting to)
- ▶ When possible, consider including patient testimonials
- ▶ Keep stakeholders in the loop throughout the process of implementing your program and the results.
- ▶ If the results are not what you expected, how do you plan to use this opportunity to engage in quality improvement?

How to Get Started

- ▶ Identify a topic/question
- ▶ Partner with an academic investigator
- ▶ Secure leadership support
- ▶ Outline project



*At any time in the process you can reach out to MWCN Research Committee for input/guidance

Get Team Excited

- ▶ Show data
- ▶ Explain potential impact
- ▶ Talk to community partners
- ▶ Realize you can make difference/fix problem



MWCN & U Chicago Diabetes Group Visits

▶ **Interest/Concept Development**

- MWCN BOD expressed interest in shared medical appointments for patients with diabetes.
- MWCN Research Committee worked with U Chicago.

▶ **Site visit study (2013-2014)**

- Interviewed health center staff at 5 HCs in the Midwest to collect information on their experience running diabetes group visits.

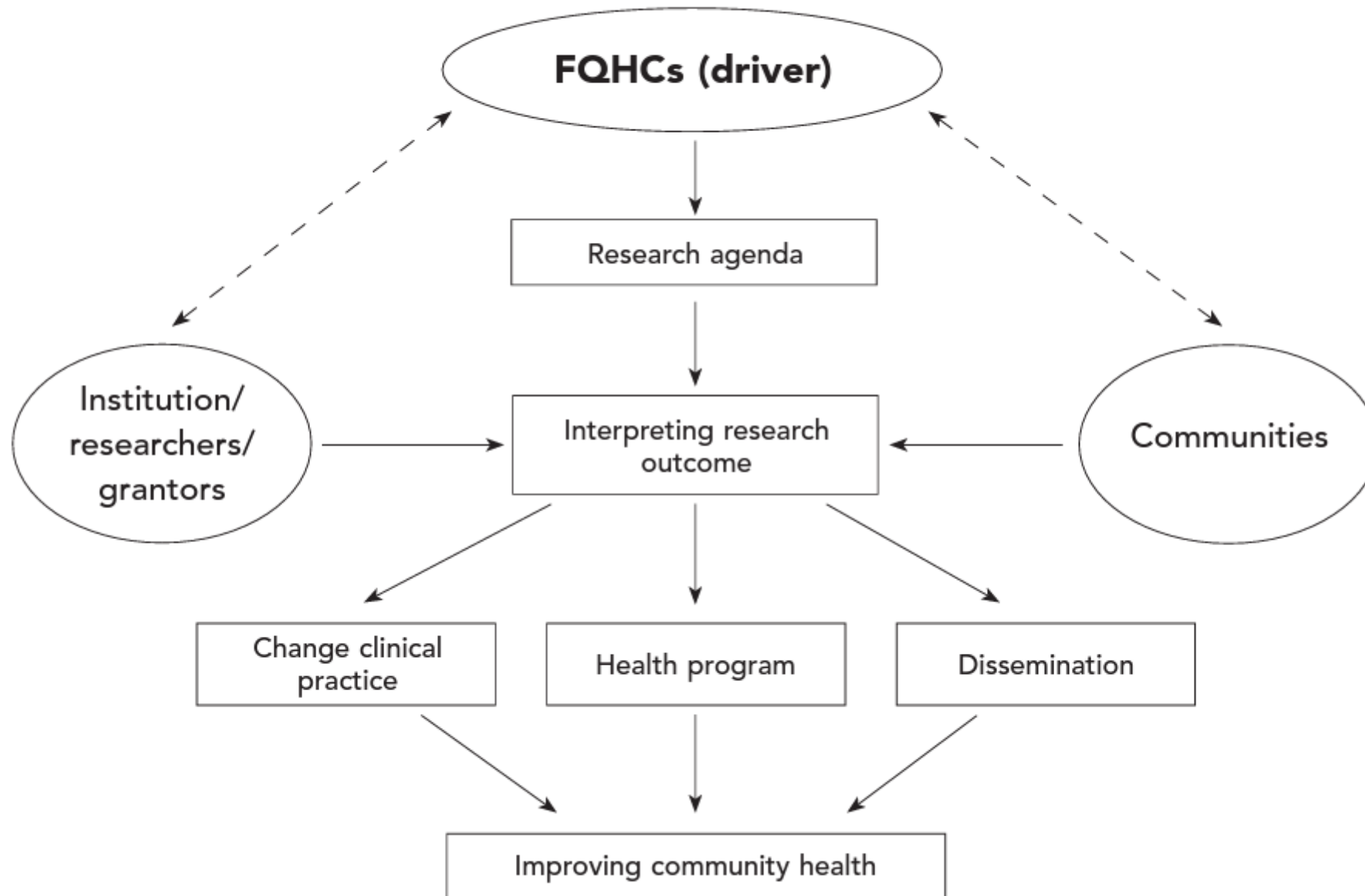
▶ **Pilot study (2015-16)**

- Trained 6 HCs in 5 states to conduct diabetes group visits.
- Included text messaging at 1 health center.

▶ **Diabetes MESSAGES study (2017-22)**

- Train 14 HC teams in Midwestern states to conduct diabetes group visit & text messaging program.
- Cluster randomized controlled design.

Figure 1. Conceptual model of an FQHC research network



Past Research Collaborations

- ▶ Diabetes Standards of Care
- ▶ Health Disparities Collaborative
- ▶ Support of Diabetes Pilots
- ▶ Hypertension/Lipids
- ▶ Health Literacy
- ▶ Diabetes and Depression
- ▶ Combating Obesity
- ▶ Group Visits
- ▶ Virtual Group Visits (Chicago)

Resources

- ▶ Why do research?
<https://aapcho.org/wp/wpcontent/uploads/2012/11/WhyDoResearch.pdf>
- ▶ List of potential projects?
 - ▶ Diabetes Distress (screening tool)
 - ▶ Continuous Glucose Monitoring
 - ▶ Telehealth

Questions



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