SCHEDULE:

1/7/21 Steven Keller, PhD; Ping-Hsin Chen, PhD

Class 1: Introduction

1. Background of QA/QI research
2. NIH OHRP QA/QI definition and requirements
3. Hypothesis testing/generation and QA/QI research
4. QA/QI Institutional Review Board (IRB) application
5. Form groups of 5 and chose a disease/condition

Lab 1: Collaborative IRB Training Initiative (CITI) training and learn your disease

1/14/21 Ping-Hsin Chen, PhD

Class 2: Clinical condition, guidelines for clinical care, and QA/QI

1. Clinical conditions
2. Types of clinical guidelines
3. QA/QI outcomes

Lab 2: 1) Health Insurance Portability and Accountability Act (HIPAA) training; 2) learn your disease; 3) look-up and compare clinical guidelines for the treatment or screening for your disease

1/21/21 Steven Keller, PhD

Class 3: Your QA/QI projects

1. Discussion of the QA and following QI projects
2. Group discussion of clinical guidelines for the assigned project

Lab 3: 1) Create a list of guideline variables that you will want to collect; 2) email your

QA question along with your guideline variables for approval

1/28/21 Dr. Chen

Class 4: Discussion of study design, chart reviews, and data entry

Lab 4: Identify Simulated Patient Charts to be reviewed from the “File Room”

2/4/21 Ping-Hsin Chen, PhD

Class 5: Study design (1)

1. Electronic medical record (EMR) review
2. Design of the chart abstraction form: Format; variables; answer categories
3. Discussion of mock chart review procedures

Lab 5: Abstract data from Simulated Patient Charts

2/11/21 Ping-Hsin Chen, PhD

Class 6: **12-1pm** Quiz 1

1-2pm Study design (2)

1. Population of interest: Patients and providers; inclusion and exclusion criteria
2. Scope of the study: Practice size; patient flow and numbers; time frame
3. Sampling: Convenience sample; random selection

Lab 6: Abstract data from Simulated Patient Charts

2/18/21 Ping-Hsin Chen, PhD

Class 7: Data entry

1. Data entry methods
2. Codebook development: Variable names; labels; descriptions; missing data
3. Data recoding and cleaning

Lab 7: Abstract data from Simulated Patient Charts

2/25/21 Guest Speaker

Class 8: **12-1pm** The Patient Centered Medical Home; telemedicine

Steven Keller, PhD 1-2pm Working in the clinical setting

1. Inter-professional team
2. Practice procedures (Role play: In-person visit and telehealth)
3. Development, management, and review of patient charts
4. Introduction to “File Room” and Simulated Patient Charts

Discussion of study design, chart reviews, and data entry

Lab 8: Abstract data from Simulated Patient Charts

3/4/21 **Steven Keller, PhD**

Class 9: Midterm exam

Lab 9: Abstract data from Simulated Patient Charts

3/11/21 **Ping-Hsin Chen, PhD**

Class 10: Data analysis

1. Introduction to Vasserstat statistical software
2. Basic statistics
3. Sample size consideration

Presentation of results

Lab 10: Analyze data and chart results

3/18/21 **Steven Keller, PhD; Ping-Hsin Chen, PhD**

Class 11: Presentation of projects charts

Lab 11: Modify charts and graphs for final poster

3/25/21 **Steven Keller, PhD**

Class 12: Interpretation of results

1. Discussion of the literature and
2. Revisit clinical benchmark
3. Limitation: Sample size; sampling bias; missing data; generalizability
4. QA/QI recommendations for clinicians
5. Present charts to review for final posters

Lab 12: Finalize charts and graphs for posters

4/1/21 **Steven Keller, PhD**

Class 13: Quiz 2

Writing up reports

1. Type of reports
2. Contents of reports
3. Poster making and printing
4. Present draft of final posters

Lab 13: Work on posters

4/8/21 **Steven Keller, PhD**

Class 14: **Present final draft of posters**

Lab 14: Finish posters

4/15/21 **Steven Keller, PhD and Ping-Hsin Chen, PhD**

Class 15: Poster presentation

Lab 15: Poster presentation