



Introduction to Mixed Methods Research

Instructors:

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Course Description: This course will provide a brief introduction to mixed methods research in the health sciences. Students will learn how rigorous qualitative and quantitative data can be integrated to answer complex research questions.

Course Goals:

At the completion of this course students should be able to:

- Understand mixed methods research
- Appreciate the strengths and limitations of qualitative and quantitative data
- Understand the intent, procedures, advantages, and challenges of three basic mixed methods designs
- Learn the three basic mixed methods designs

Course Readings: The recommended text for the course is *A Concise Introduction to Mixed Methods Research*, John W. Creswell, Sage, 2014. Additional suggested readings are indicated in the table on pages 3-4 of this syllabus.

ACKNOWLEDGEMENT

Some course content developed from this text. The development and permission to use by John W. Creswell, PhD, University of Michigan.

Videos & Assessments:

Watch the videos in each segment. Following the segment, answer the assessment questions to the best of your ability. Below each video, resources and/or readings are provided for participants interested in learning more.

CONTINUING MEDICAL EDUCATION (CME) CREDITS

The Harvard Catalyst Education Program designates this online activity for a maximum of 7.25 AMA PRA Category 1 Credit(s)TM.

The Harvard Catalyst Education Program is accredited by the Massachusetts Medical Society to provide continuing medical education for physicians.

Harvard Catalyst Education Program's policy requires full attendance and the completion of all activity surveys to be eligible for CME credit; **no partial credit is allowed.**

In order to receive 7.25 CME credits, participants must complete 100% of the following.

1. Watch all videos for the course
2. Complete all segment assessments
3. Complete all multiple choice evaluations and surveys

MMR Course Schedule

Lecture Topics	Reading Assignment
Course Introduction	
Segment 1: What is Mixed Methods Research? • Defining Mixed Methods Research <ul style="list-style-type: none"> • Why Mixed Methods? 	Chapter 1, “Basic Features of Mixed Methods Research”
Segment 2: Overview of Qualitative Methods <ul style="list-style-type: none"> • Introduction to Qualitative Research • Qualitative Research Approaches • Types of Qualitative Data: Advantages and Disadvantages • Conduct of Interviews and Focus Groups • Sampling in Qualitative Research • Qualitative Analysis and Outputs 	Chapter 3, “Designing a Qualitative Study” from Creswell, <u>Qualitative Inquiry and Research Design: Choosing Among Five Approaches</u> (linked on course website)
Segment 3: Practice with Qualitative Research <ul style="list-style-type: none"> • Rigor in Qualitative Research • Sample Focus Group Video • Designing Qualitative Studies 	Chapter 3, “Skills Needed to Conduct Mixed Method Research”
Segment 4: Applied Quantitative Research <ul style="list-style-type: none"> • Reliability and Validity of Quantitative Measures 	
Qualitative Research Discussion <ul style="list-style-type: none"> • The course director will respond and answer questions from the first half of the course 	Course Director Gina Kruse will be responding to questions on Segments 1-4
Segment 5: Steps in Designing a Mixed Methods Investigation <ul style="list-style-type: none"> • Basic Mixed Methods Designs • Mixed Methods Research Questions • Worldviews • Advanced Mixed Method Designs 	Chapter 2, “Steps in Designing a Mixed Methods Study” Chapter 4, “Basic and Advanced Mixed Methods Designs” (pp. 34-41 only) Chapter 5, “How to Draw a Diagram of Procedures”
Segment 6: Mixed Methods Design Diagrams & Examples <ul style="list-style-type: none"> • Mixed Method Diagrams • Study Examples 	Chapter 4, “Basic and Advanced Mixed Methods Designs” (pp. 41-50)
Segment 7: Mixed Methods Grant Applications & Papers <ul style="list-style-type: none"> • Mixed Methods Research in Grant Applications • Mixed Methods Research in Scientific Papers 	
Mixed Methods Research Discussion <ul style="list-style-type: none"> • The course director will respond and answer questions from the second half of the course 	Course Director Rebekka Lee will be responding to questions on Segments 5-7

Suggested Readings Referenced in the Course

Lecture Title	Title	Link
Defining Mixed Methods Research	NIH-Defined Best Practices for Mixed Methods Research	NIH Website
Why Mixed Methods?	Huff, A. <i>Designing research for publication.</i>	Publisher's website
Introduction to Qualitative Research	Creswell, J.W. <i>Qualitative Inquiry and Research Design: Choosing Among Five Designs.</i>	Publisher's website
Types of Qualitative Data: Advantages and Disadvantages	Curry, Nembhard and Bradley. "Qualitative and Mixed Methods Provide Unique Contributions to Outcomes Research."	PubMed
Types of Qualitative Data: Advantages and Disadvantages	Creswell, John. <i>Research Design: Qualitative, Quantitative and Mixed Methods Approaches.</i>	Publisher's website
Sampling in Qualitative Research	Bradley EH, et al. "Achieving Rapid Door-to-Balloon Times: How Top Hospitals Improve Complex Clinical Systems."	PubMed
Rigor in Qualitative Research	Tong A, et al. "Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups."	PubMed
Sample Focus Group	Krueger, Richard A. "Designing and Conducting Focus Group Interviews"	Link to website
Designing Qualitative Studies	Sofaer, S. "Qualitative Research Methods."	PubMed
Reliability and Validity of Quantitative Measures	DeVellis, RF. <i>Scale Development: Theory and Application.</i>	Publisher's website

Advanced Mixed Methods Designs	Fetters, M. D., Curry, L. A. and Creswell, J. W. "Achieving Integration in Mixed Methods Designs—Principles and Practices."	PubMed
Mixed Methods Research in Scientific Papers	Brault, M., et al. "An approach to mental health in low and middle income countries: a case example from urban India."	PubMed
Mixed Methods Research in Scientific Papers	Brault, M., et al. "Multilevel Perspectives on Female Sterilization in Low-Income Communities in Mumbai, India."	PubMed
Mixed Methods Research in Scientific Papers	Park, E., et al. "A qualitative study of lung cancer risk perceptions and smoking beliefs among national lung screening trial participants."	PubMed
Mixed Methods Research in Scientific Papers	Park, E., et al. "Childhood Cancer Survivor Study participants' perceptions and understanding of the Affordable Care Act."	PubMed
Mixed Methods Research in Scientific Papers	Park, E., Traeger, L., et al. "Development and evaluation of targeted psychological skills training for oncology nurses in managing stressful patient and family encounters."	PubMed