

Cognate: Health Outcomes Research

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Health outcomes research is used by policymakers, researchers, and health care providers to evaluate interventions and document their impact on functioning and well-being of chronic and acute health conditions. To meet these needs, health outcomes research addresses issues such as definitions of health, measurement of health outcomes, psychometric properties of health outcome measures, and use of health outcome measures in observational studies and randomized clinical trials. To be successful, researchers in health outcomes need to develop conceptual grounding in health-related quality of life and subjective well-being. In addition, they need to be able to do research using different modes of data collection (e.g., self-reported telephone, mail, and web-based surveys).

Cognate Learning Objectives:

	Learning Objective	Program Competencies: PhD Program in Health Policy and Management Research
1	To be aware of patient-reported outcome measures (especially health-related quality of life) and use relevant conceptual frameworks related to health care outcomes. To develop skill in formulating research questions to advance knowledge about health outcomes.	<p><u>Conceptual Knowledge:</u> Apply or develop theoretical and conceptual models and skills relevant to health services research</p> <p><u>Relevant and Important Question Development:</u> Pose important research questions informed by structured evidence assessment, stakeholder positions, pertinent theoretical and conceptual models, and formulate solutions to health problems, practice and policy</p>
2	To identify the relative strengths and weaknesses of different study designs used in evaluating patient-reported outcomes. To describe various options for analyzing and interpreting health outcome studies.	<p><u>Study Designs:</u> Recognize the strengths and weaknesses of study designs to appropriately address specific health services research questions</p> <p><u>Data Analysis:</u> Demonstrate proficiency in the appropriate application of analytical techniques to evaluate health services research questions</p>
3	To explain and use strategies for evaluating determinants of health outcomes. To obtain skills in health outcome measure development including use of qualitative and community-based participation research methods.	<p><u>Conceptual Models and Operational Methods:</u> Use or develop a conceptual model to specify study constructs for a health services research question and develop variables that reliably and validly measure these constructs</p> <p><u>Data Collection and Management Methods:</u> Assemble and manage existing data from public and private sources</p>

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4	To explain how health outcomes data is used in clinical practice and for health policy.	<u>Knowledge Transfer</u> : Knowledge translation to policy and practice
5	To discuss the role of health care outcomes in evaluating the quality of health care delivered.	<u>Foundational Knowledge</u> : Acquire knowledge of the context of health and health care systems, institutions, actors, and environment

Examples of published research by faculty and current or recent students: (*=students)

- Hoffman GJ*, Hays RD, Wallace SP, Shapiro MF, & Ettner SL. (2017). Depressive symptomatology and fall risk among community-dwelling older adults. Social Science & Medicine, 178, 206-213.
- Palimaru AI*, Cunningham WE, Dillistone M, Vargas-Bustamante A, Liu H, & Hays RD. (2018). Development and psychometric evaluation of a fatigability index for full-time wheelchair users with spinal cord injury. Archives of Physical Medicine and Rehabilitation, 99, 1827-1839.
- Peipert JD*, Nair D, Klicko K, Schatell D, & Hays RD. (2019). Kidney Disease Quality of Life 36-item short form survey (KDQOL-36™) normative values for the United States dialysis population and new single summary score. J Am Soc Nephrol., 30(4), 654-663.
- Uy V*, Hays RD, Xu JJ, Fayers PM, Auerbach AD, Black JT*, Evangelista L, Ganiats TG, Romano PS, & Ong MK. (2020). Do the unlabeled response categories of the Minnesota Living with Heart Failure Questionnaire satisfy the monotonicity assumption of simple-summed scoring? Quality of Life Research, 29, 1349-1360.
- Ahmedov M*, Pourat N, Liu H, & Hays RD. (2021). Experience with ambulatory healthcare for Asians and non-Hispanic whites in the United States. Journal of Patient-Reported Outcomes. J Patient Rep Outcomes. 2021 Mar 24;5(1):29. doi: 10.1186/s41687-021-00303-3.

Required coursework:

- Epi 200A (Methods I: Basic Concepts and Study Designs)
- Epi 200B (Methods II: Prediction and Validity)
- Epi 200C (Methods III: Analysis)
- HPM 214 (Measurements of Effectiveness and Outcomes of Health Care)
- Plus one of the following:
 - HPM 216 (216. Quality Assessment and Assurance.)
 - HPM 239A (Introduction to Decision Analysis and Cost-Effectiveness Analysis)
 - HPM 265 (Challenges in Clinical Health Services Research)