TRANSITION GUIDE

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This transition guide serves to outline the updates and new content found in *Friis' Epidemiology 101, Third Edition*.

OUTSTANDING FEATURES

- Follows basic Epidemiology 101 curriculum as recommended by the Consensus Conference on Undergraduate Public Health Education
- Clear and accessible writing style
- Includes thorough chapter study questions and exercises to review and apply key concepts

REVISION UPDATES

- Covers recent events in epidemiology in Public Health such as the COVID-19 pandemic, the rising impact of the drug overdose epidemic, and the increasing focus on social determinants of health.
- New features include fuller discussion of wastewater surveillance, reorganization of study design introductions and a summary of critical area of chronic disease epidemiology.

APPLICABLE COURSES

- Undergraduate courses in epidemiology

INSTRUCTOR RESOURCES

- Instructor Manual
  - Includes sample syllabus
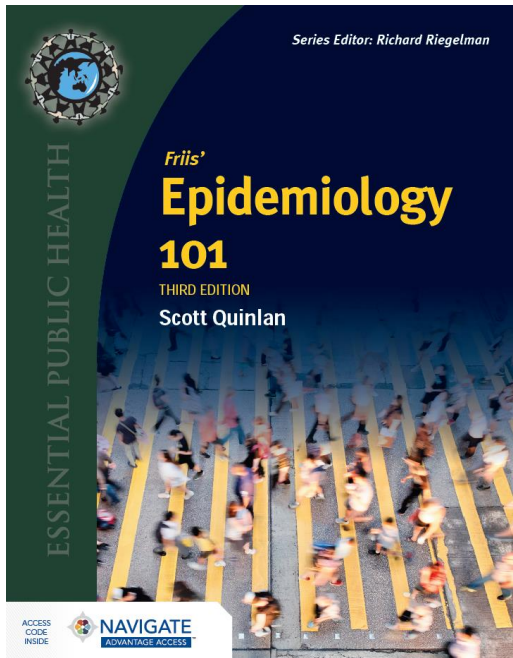- Slides in PowerPoint Format
- Test Bank
- Midterm Exam
- Final Exam

Scott Quinlan, PhD, MS

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CHAPTER OUTLINE
This chapter outline has been created to help you easily transition to the *Third Edition*.

Chapter	Changes in the *Third Edition*
Chapter 1: History, Philosophy, and Uses of Epidemiology	• Reference to the COVID-19 pandemic. • Discussion of more recent Ebola outbreaks. • Updated discussion of key historical figures to include more recent and diverse figures. • Updated study questions and exercises.
Chapter 2: Epidemiology and Data Presentation	• Updated data. • Updated and streamlined discussion of variables and data types. • Expanded discussion of epidemic curves. • Updated study questions and exercises
Chapter 3: Epidemiological Measurements Used to Describe Diseases Occurrence	• Updated data. • Revised and clarified discussion of incidence and prevalence and the distinction between the two. • Discussed recent changes to life expectancy and disparities. • Added introduction of different age-adjustment approaches (direct and indirect). • Added discussion of maternal mortality and the role of social determinants. • Updated study questions and exercises.
Chapter 4: Data and Disease Occurrence	• Updated data. • Added discussion of the role of AI with big data. • Updated the discussion of Census to include Census 2020. • Added discussion of medical examiner versus coroner systems for documenting cause of death. • Added discussion of wastewater surveillance. • Updated study questions and exercises.
Chapter 5: Descriptive Epidemiology: Patterns of Disease- Person, Place, Time	• Updated data. • Updated examples of case reports and case series. • Added discussion of cross-sectional studies being both descriptive and analytic. • Added discussion of the distinction between sex and gender. • Added fuller discussion of social determinants of health and how they impact health disparities. • Added example of Lyme disease as a place descriptive study. • Updated study questions and exercises.
Chapter 6: Association and Causality	• Updated data. • Updated and clarified the definition of necessary and sufficient causes and provided more examples. • Clarified discussion of sufficient, component cause model. • Updated discussion of confidence intervals and p-values. • Updated causal criteria and clarified their limitations. • Updated study questions and exercises.
Chapter 7: Analytic Epidemiology: Types of Study Designs	• Updated data.

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	• Updated Figure 7-1 to account for ecologic and cross-sectional studies being either descriptive or analytic. • Updated questions regarding the different study designs and added a summary table. • Rearranged the presentation of cohort studies and case-control studies. • Reorganized the discussion of biases to clearly distinguish between selection and information biases. • Updated study questions and exercises.
Chapter 8: Epidemiology and the Policy Arena	• Updated data. • Added more examples of the role of epidemiology in policy development. • Added specific contributions of epidemiology to each step of the policy cycle. • Removed discussion of 10 Essential Public Health Services as not specific to epidemiology. • Updated references to Healthy People to reflect Healthy People 2020/2030. • Replaced BPA example with distracted driving example due to more current relevance.
Chapter 9: Epidemiology and Screening for Disease	• Updated data. • Added discussion of lead time and length bias and included a visual. • Updated all screening recommendations based on current guidelines. • Added information about COVID-19 screening tests. • Revised "predictive value positive" to "positive predictive value" and "predictive value negative" to "negative predictive value". • Updated questions and exercises.
Chapter 10: Infectious Disease and Outbreak Investigation	• Updated data • Added discussion of COVID-19 and MPox. • Added discussion of pathogenicity. • Added discussion of MPox and fungal infections as important examples of emerging infections. • Added discussion of vaccine effectiveness. • Updated questions and exercises.
Chapter 11: Epidemiology of Social and Behavioral Factors and Health *(new title)*	• Updated data • Added fuller discussion of social determinants of health. • Updated and expanded information on the opioid overdose epidemic. • Added discussion of the recent concern about BMI as a measure of health. • Updated questions and exercises.
Chapter 12: Special Epidemiologic Applications	• Updated data • Updated the discussion of molecular and genetic epidemiology to be more concise. • Added additional discussion of global warming and climate change.

	- Expanded discussion of injuries on health and added drowning as an example. - Added a section on chronic disease epidemiology including a discussion of life-course epidemiology and cancer epidemiology. - Added a section on the epidemiology of aging. - Expanded discussion of pharmacoepidemiology to include vaccines.