

From the Desk of Kruger, Moralez, and Siqueira, Authors of the New 7th Edition of **SCHNEIDER'S INTRODUCTION TO PUBLIC HEALTH**

DEAR INSTRUCTOR:

We are pleased to present the new 7th edition of *Introduction to Public Health*. It is an honor for the three of us to continue the publication of this text, initially authored by Dr. Mary-Jane Schneider over two decades ago. With great reverence for its legacy, we have enhanced and expanded upon the previous editions, ensuring its relevance and comprehensiveness in today's dynamic landscape of public health, particularly in the aftermath of a global pandemic.

While proudly bearing the Schneider name, this edition represents a collaborative effort, blending timeless concepts with contemporary insights. Drawing from the sixth edition, we have updated data, current events, and perspectives, ensuring its resonance with the evolving needs of educators and students alike.

As professors, we understand the challenges of covering a significant amount of material and making difficult decisions about what to cover and what to leave out, so we have streamlined the content into 17 chapters, mirroring the structure of a standard academic semester. We have thoughtfully incorporated subsections within these chapters, empowering educators to tailor their instruction to suit varied learning objectives and preferences.

Aligned with the rigorous standards of the Council on Education for Public Health (CEPH), this edition delves deeper into emergent challenges, notably addressing the profound impacts of the COVID-19 pandemic, the opioid crisis, and climate change. Emphasizing the interconnectedness of systemic and structural factors, we have woven a narrative that elucidates the intricate web of influences shaping population health. We have focused on systemic and structural issues and how these impact the health of the population. We added frameworks, including the social determinants of health and life course perspective, to encourage the reader to think "upstream" and to be critical of past and current approaches to solving public health problems.

At the forefront of our pedagogical approach lies a commitment to fostering active engagement and critical inquiry among our readers. To this end, we have augmented the teaching materials with thought-provoking discussion questions, supplementary resources, and suggestions for experiential learning, catalyzing a deeper understanding and appreciation for the discipline.

We hope that by providing a comprehensive text that embraces the complexities of our field, we may inspire a new generation of public health advocates poised to effect meaningful change in our communities and honor Dr. Schneider's legacy.

Sincerely,

Jessica Kruger, PhD, MCHES

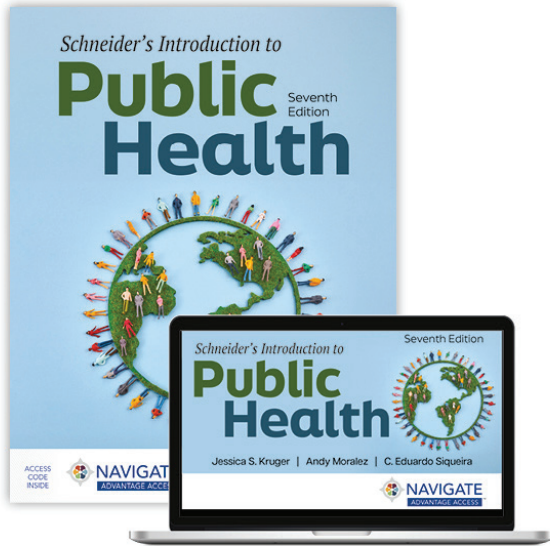
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TRANSITION GUIDE



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Offering a thorough, accessible and lively overview of public health for students new to the field, **Schneider's Introduction to Public Health** offers a broad-reaching, practical framework for understanding the forces and organizations of public health today. Through engaging, nontechnical language, illustrative real-world examples, and the current political, economic, and cultural news of the day, students gain a clear understanding of the scope of today's public health problems and possible solutions.

Building on Schneider's engaging and easy-to-read narrative approach, **new author team Kruger, Morales, and Siqueira** draw on their diverse perspectives for the Seventh Edition to bring a greater focus on the social determinants of health, ecological approach, and life course experiences as a framework to understand public health in the 21st century.

KEY UPDATES FOR THE 7TH EDITION

- Updated statistics and information in every chapter illustrate the current state of public health.
- Streamlined organization to better align with a traditional 16-week semester course.
- New chapters addressing the COVID-19 pandemic, climate change, and mental health.
- New chapter on research methods, that includes qualitative data.
- Timely examples, including links to videos and websites, cover public health issues discussed in the text.
- Alignment with Council on Education for Public Health (CEPH) criteria for undergraduate and graduate public health.

APPLICABLE COURSES

- Introduction to Public Health
- Population Health
- Health and Wellness
- Health Promotion

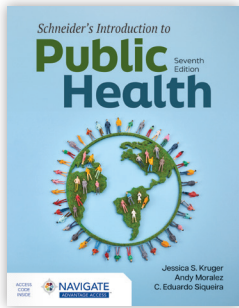
INSTRUCTOR RESOURCES

- Instructor's Manual with suggestions for further reading, discussion questions, and in-class activities.
- Test Bank
- PowerPoint Slides

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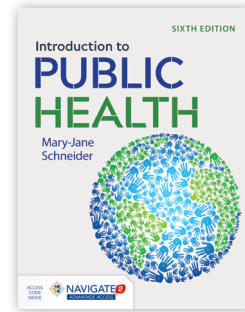
CHAPTER OUTLINE

This chapter outline comparison has been created to help you easily transition to the Seventh Edition. Note that chapter content from the Sixth Edition may now be found in a different chapter in the Seventh Edition. Also note that chapter numbers and titles may have been updated.



Schneider's Introduction to Public Health, Seventh Edition

By Jessica Kruger, Andy Moralez, and C. Eduardo Siqueira



Introduction to Public Health, Sixth Edition

By Mary-Jane Schneider

NEW EDITION	PREVIOUS EDITION
Chapter 1: Public Health: Science, Politics, and Prevention	Chapter 1: Public Health: Science, Politics, and Prevention
Chapter 2: The Drivers of Health	Chapter 13: Do People Choose Their Own Health? Chapter 14: How Psychosocial Factors Affect Health Behavior
Chapter 3: Health Across the Lifespan	Chapter 18: Maternal and Child Health as a Social Problem Chapter 29: Public Health and the Aging Population
Chapter 4: Government Influence and Government Responsibilities	Chapter 2: Why Is Public Health Controversial? Chapter 3: Powers and Responsibilities of Government
Chapter 5: Public Health Research Methods NEW!	—
Chapter 6: The Role of Statistics and Data in Public Health	Chapter 7: Statistics: Making Sense of Uncertainty Chapter 8: The Role of Data in Public Health
Chapter 7: Infectious Diseases	Chapter 9: The "Conquest" of Infectious Diseases Chapter 10: The Resurgence of Infectious Diseases
Chapter 8: COVID-19: The Largest Pandemic of the 21st Century NEW!	—
Chapter 9: The Science and Principles of Epidemiology	Chapter 4: Epidemiology: The Basic Science of Public Health Chapter 5: Epidemiologic Principles and Methods Chapter 6: Problems and Limits of Epidemiology

Continues on next page.

Chapter 10: Genetic and Chronic Diseases	Chapter 11: The Biomedical Basis of Chronic Diseases
	Chapter 12: Genetic Diseases and Other Inborn Errors
Chapter 11: Behavioral Contributors to Disease and Premature Death	Chapter 15: Public Health Enemy Number One: Tobacco
	Chapter 16: Public Health Enemy Number Two and Growing: Poor Diet and Physical Inactivity
	Chapter 17: Injuries Are Not Accidents
Chapter 12: Mental Health: Public Health Includes Healthy Minds	Chapter 19: Mental Health: Public Health Includes Healthy Minds
Chapter 13: A Clean Environment: The Basis of Public Health	Chapter 20: A Clean Environment: The Basis of Public Health
	Chapter 21: Clean Air: Is It Safe to Breathe?
	Chapter 22: Clean Water: A Limited Resource
	Chapter 23: Solid and Hazardous Wastes: What to Do with the Garbage?
Chapter 14: Climate Change: The Most Important Public Health Challenge of the 21st Century?	Chapter 25: Population: The Ultimate Environmental Health Issue
Chapter 15: Safe Food and Drugs: An Ongoing Regulatory Battle	Chapter 24: Safe Food and Drugs: An Ongoing Regulatory Battle
Chapter 16: The U.S. Medical System as a Public Health Problem	Chapter 26: Is the Medical Care System a Public Health Issue?
	Chapter 27: Why the U.S. Medical System Needs Reform
Chapter 17: The Future of Public Health	Chapter 30: Emergency Preparedness, Post-9/11
	Chapter 31: Public Health in the Twenty-First Century: Achievements and Challenges

Continues on next page.

NEW TO THIS EDITION

CHAPTER 1

Public Health: Science, Politics, and Prevention

This chapter has been updated to include the new version of the 10 essential health services, a discussion on upstream and downstream metaphor used in public health, and an overview of how the COVID-19 pandemic impacted health outcomes.

CHAPTER 2

The Drivers of Health

Chapter 2 introduces the drivers of health including the theories and models used in public health. Life course perspective and the social determinants of health have been added to help students contextualize major health issues. The themes of life course perspective and the impact of social determinants of health continues throughout the book.

CHAPTER 3

Health Across the Lifespan

Maternal and child health and older adults have been combined in a chapter with information about the health of adults being added to this chapter to provide a life course approach focused overview of how public health impacts people's health throughout their lives.

CHAPTER 4

Government Influence and Responsibilities

Information about the changes in government agencies and statistics and processes have been updated to reflect the current governmental system that impacts public health.

CHAPTER 5

Public Health Research Methods

This is a new chapter that covers both qualitative and quantitative research including discussing how public health research is created, conducted, and even published.

CHAPTER 6

The Roles of Statistics and Data in Public Health

Chapters 7-8 of the previous edition of the book have been combined and the information refined to ensure up to date content about the importance of evidence in public health was conveyed.

CHAPTER 7

Infectious Diseases

This chapter has been updated to include emerging infectious diseases such as zika and monkey pox. Along with bacterial threats that impact public health.

CHAPTER 8

COVID-19

This chapter is new and covers the COVID-19 pandemic along with the communication and public health response to the pandemic in the early days and continued need for public health support.

CHAPTER 9

The Science and Principles of Epidemiology

This chapter covers the history of epidemiology and how it is used for both chronic and infectious diseases today. Epidemiological study designs, relative risk, and odds ratios are discussed.

CHAPTER 10

Genetic and Chronic Diseases

The chapters on genetics and chronic diseases have been combined to demonstrate how there is a linkage between genetics and chronic disease risk. Examples have been updated along with data on leading causes of death.

CHAPTER 11

Behavioral Contributors to Disease and Premature Death

In this chapter the leading behavioral causes of death including tobacco, unintentional injuries, and consequences of our lifestyles are explored. In each of these contributors the chapters focus on the structural barriers and policies that impact population health, instead of focusing on the individual.

CHAPTER 12

Mental Health: Public Health Includes Healthy Minds

Mental health is an important public health topic that is especially salient to college students. This chapter discusses causes of mental health issues including trauma from adverse childhood events and mental health over the life course.

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CHAPTER 13

A Clean Environment: The Basis of Public Health

This chapter combines shorter chapters from the previous version to create a comprehensive picture of how the environment impacts human health. This chapter includes examples of environmental health issues such as the Flint Water crisis.

CHAPTER 14

Climate Change: The Most Important Public Health Challenge of the 21st Century?

Climate change has and will continue to impact the world of public health in various ways, from more vector borne diseases to impacting some of the most vulnerable in the US and around the world. This chapter focuses on the upcoming challenges that public health will face in the next decade.

CHAPTER 15

Safe Food and Drugs: An Ongoing Regulatory Battle

This chapter covers food borne illnesses and the steps we take to reduce the impact of these contaminants. This includes what products are not regulated, and the challenges these can pose to health.

CHAPTER 16

The U.S. Medical System as a Public Health Problem

The U.S. Medical care system is often thought of as a health care issue, not a public health problem. In this chapter, we examine how the current system impacts population health including access of care and how the U.S. compares globally on health care spending and health outcomes.

CHAPTER 17

The Future of Public Health

In this chapter we look at the accomplishments of public health over the past century and look ahead at what challenges we will face in the future. Information on emerging topics such as misinformation and artificial intelligence.

HOW DO THE CHAPTERS IN 7TH EDITION MAP TO THE CEPH LEARNING OBJECTIVES?

CEPH UNDERGRADUATE LEARNING OBJECTIVES	CEPH GRADUATE LEARNING OBJECTIVES
Chapter 1: Public Health: Science, Politics, and Prevention	
<ul style="list-style-type: none">• The history and philosophy of public health as well as its core values, concepts, and functions across the globe and in society• The concepts of population health, and the basic processes, approaches and interventions that identify and address the major health-related needs and concerns of populations	<ul style="list-style-type: none">• Explain public health history, philosophy, and values• Identify the core functions of public health and the 10 Essential Services• Discuss the science of primary, secondary, and tertiary prevention in population health, including health promotion, screening, etc.
Chapter 2: The Drivers of Health	
<ul style="list-style-type: none">• The socioeconomic, behavioral, biological, environmental, and other factors that impact human health and contribute to health disparities	<ul style="list-style-type: none">• Explain behavioral and psychological factors that affect a population's health• Explain the social, political, and economic determinants of health and how they contribute to population health and health inequities• List major causes and trends of morbidity and mortality in the U.S. or other community relevant to the school or program

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Chapter 3: Health Across the Lifespan	
<ul style="list-style-type: none"> • The underlying science of human health and disease, including opportunities for promoting and protecting health across the life course 	
Chapter 4: Government Influence and Responsibilities	
<ul style="list-style-type: none"> • Basic concepts of legal, ethical, economic, and regulatory dimensions of health care and public health policy and the roles, influences, and responsibilities of the different agencies and branches of government 	
Chapter 5: Public Health Research Methods	
<ul style="list-style-type: none"> • Basic concepts, methods, and tools of public health data collection, use, and analysis and why evidence-based approaches are an essential part of public health practice 	<ul style="list-style-type: none"> • Explain the role of quantitative and qualitative methods and sciences in describing and assessing a population's health
Chapter 6: The Roles of Statistics and Data in Public Health	
<ul style="list-style-type: none"> • The concepts and applications of basic statistics 	<ul style="list-style-type: none"> • Explain the critical importance of evidence in advancing public health knowledge
Chapter 10: Genetic and Chronic Diseases	
	<ul style="list-style-type: none"> • Explain biological and genetic factors that affect a population's health
Chapter 11: Behavioral Contributors to Disease and Premature Death	
	<ul style="list-style-type: none"> • Explain behavioral and psychological factors that affect a population's health
Chapter 13: A Clean Environment: The Basis of Public Health	
	<ul style="list-style-type: none"> • Explain effects of environmental factors on a population's health
Chapter 14: Climate Change: The Most Important Public Health Challenge of the 21st Century?	
	<ul style="list-style-type: none"> • Explain how globalization affects global burdens of disease • Explain an ecological perspective on the connections among human health, animal health and ecosystem health (e.g., One Health)
Chapter 16: The U.S. Medical System as a Public Health Problem	
<ul style="list-style-type: none"> • The fundamental characteristics and organizational structures of the U.S. health system as well as the differences between systems in other countries 	

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ABOUT THE AUTHORS

Jessica Kruger, PhD, MCHES

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Jessica S. Kruger, PhD, MCHES, is a health educator whose research focuses on consumption and addictive behaviors, health behavior decision-making and pedagogy in public health. She collaborates with a wide variety of community-based organizations and advises students at the Lighthouse Free Medical Clinic and the Seneca-Babcock Community Center, both in the Western New York area. Kruger is the vice-chair of the board of directors for the Society of Student-Run Clinics and focuses on increasing the interprofessional collaboration in free clinics around the U.S. She also serves as a member of the leadership team of Interprofessional Education and Collaborative Practice at UB. She recently joined the editorial board for the journal *Pedagogy and Health Promotion*. Dr. Kruger is the recipient of the 2024 ASPPH Early Career Teaching Excellence Award which recognizes a junior faculty member for outstanding teaching and mentoring of students toward distinction in public health research, teaching, and practice.

Andy Morales, PhD, MPH, CHES

E. Andy Morales, PhD, MPH, CHES, earned his doctorate from the University of Colorado Denver in Health and Behavioral Science and his MPH from New Mexico State University specializing in community health education. He also served as a faculty member at the Southern New Mexico Family Residency Program in New Mexico, and as a Research Project Lead with the Fred Hutchinson Cancer Research Center in Seattle. Dr. Morales's research collaborations focus on the intersection of public health and clinical medicine, working in interprofessional groups (e.g., medical anthropologists, social workers, and clinical psychologists) to improve patient care and community health. This included his doctoral research, which examined the impact of chronic illness severity on depression outcomes in primary care settings among low-income, complex patients. His most recent clinical-based research focused on training family medicine residents in communication strategies to discuss chronic pain and treatment management and integrate social determinants of health into the residency curriculum. He has also served as a program evaluator for various public health and clinical interventions.

His recent work has focused on developing and implementing supplemental public health education outside the classroom to promote students' collaboration with community partners. Dr. Morales has published in public health and medical education journals, including *Frontiers in Public Health*, the *Journal of Cancer Prevention*, the *Journal of Education and Health Promotion*, and the *American Board of Family Medicine Journal*.

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Dr. Carlos Eduardo Siqueira is a Professor Emeritus of Environment and Public Health at the School for the Environment and Coordinator of the Transnational Brazilian Project at the Mauricio Gastón Institute of Latino Community Development and Public Policy at the University of Massachusetts Boston. Over his career he has researched the political economy of the migration of hazards between developed and developing countries, Brazilian immigrant health, health policy, and health and safety inequities at work.

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