

Original Article

Gender balance in infectious diseases and hospital epidemiology journals

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Abstract

Objective: Diversity is recognized as a driver of excellence and innovation. Women represent a significant part of the infectious diseases (ID) and hospital epidemiology (HE) workforce. We aimed to assess gender representation among editors of top ID and HE journals and explore potential correlations with the gender of first and last authors in published articles.

Methods: Using Scimago Journal & Country Rank, we identified 40 ID and 4 HE high-ranking journals. Editorial members were categorized by decision-making influence (levels I–III). We retrieved names of first and corresponding authors from 12 ID-focused journals' 2019 research articles. Gender assignment for editors, first authors, and last authors utilized digital galleries and manual searches.

Results: Among 2,797 editors from 44 journals, 33% were women. Female representation varied across editorial levels: 26% at level I, 36% at level II, and 31% at level III. Gender balance disparities existed among journals. Female first authors accounted for 50%, and female last authors accounted for 36% of the 2,725 published articles. We found weak but significant correlations between the editors' gender and the gender of the first and last authors.

Conclusion: Gender representation among ID and HE journal editors displayed unevenness, but no overt vertical segregation was observed. A generational transition among authors may be underway. Our findings suggest that a generational transition may be occurring among authors.

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Introduction

Over the past two decades, the representation of women in the field of medicine has undergone dynamic changes in various countries.^{1,2} For instance, in the United States of America (USA), there has been a notable increase in the proportion of female physicians. In 2007, women accounted for 28% of active physicians and 45% of residents and fellows. Fast forward to 2021, these numbers increased to 37.1% and 47.3% for active physicians and residents/fellows, respectively.³ Similarly, the landscape in infectious diseases (ID) has also transformed.^{1,3} In 2007, the USA had one ID physician for every 46,952 individuals, with 33% of the 6,424 active ID physicians being women and a majority falling below the age of 55. Fourteen years later, the number of ID physicians increased to 9,913, with 1 physician for every 32,944 people, and the proportion of women rose to 43%.² However, the representation of younger individuals (under 55) in this field declined.

Given the growth of ID specialists, one might expect an increase in female leadership positions. However, studies conducted during different periods do not support this assumption. For instance, from 2008 to 2017, only 20% of the presidents of the Infectious Diseases Society of America (IDSA) were women.⁴ Gender disparities were also observed in achieving the rank of full professor in academic ID in 2016,⁵ as well as in compensation in 2015,⁶ and an underrepresentation of female authors on IDSA guidelines' editorial boards for prominent ID publications from 2004 to 2018.⁷

The influence of editorial bodies in scientific publishing is pivotal, as journal editors act as gatekeepers to science, influencing research trends and significantly impacting the professional advancement of individuals, thus shaping academic and research programs.⁸ Yet, these editorial bodies have also been found to exhibit gender imbalances. A recent study across 41 international medical journal categories found that only 21% of editors-in-chief were women, with significant variability among medical specialties. In ID, this percentage was only 10% in 2019.⁹ Another recent study revealed that only 22% of editors-in-chief of ID and microbiology journals were women.¹⁰

With women comprising an increasing proportion of the ID and Hospital Epidemiology (HE) workforce, it becomes pertinent

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Hospital Infection And Epidemiology Journal

Vinice Thomas



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Bennett & Brachman's Hospital Infections William R. Jarvis, 2013-10-17 For over three decades Bennett surveillance control programs antimicrobial stewardship antimicrobial resistance mechanisms of resistance sterilization and disinfection food borne diseases the role of the laboratory intensive care unit operating room dialysis and nursery settings and specific hospital acquired infections

Fundamental Aspects of Infection Prevention and Control Vinice Thomas, 2020-08-18 This practical handy text aims to provide essential information on the fundamentals of infection control and its management in a health care setting This important subject area means that this text should be essential reading for all students nurses and health care practitioners to ensure they understand the general principles of infection control and best practice guidelines for clinical care of patients Content is designed to be clear concise and highly practical Case studies will be included to aid understanding Each chapter includes a summary or bullet of key points This book also outlines the role of the medical consultant consultant nurse specialist infection control nurse hospital matron ward link nurse ward sister staff nurse trust management etcetera to give a strategic overview of the management and organisation needed in terms of roles responsibilities etc in relation to infection control

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Manual of Infection Control Procedures N. N. Damani, 2003 Provides a comprehensive overview of the main aspects of infection control and gives practical evidence based recommendations

Infection Prevention and Control at a Glance Debbie Weston, Alison Burgess, Sue Roberts, 2016-09-16 Infection Prevention and Control at a Glance is the perfect companion for study and revision for pre registration nursing and healthcare students as well as qualified nurses and medical students Infection prevention and control is one of the key five essential skills clusters that is incorporated into all pre registration nursing programmes This highly visual and dynamic book is a thorough resource for nurses wanting to consolidate and expand their knowledge of this important part of nursing Written by experienced infection prevention and control specialist nurses it provides a concise and simple approach to a vast and complex subject and equips the reader with key information in relation to various aspects of infection prevention and control practice Provides a snap shot of the application of infection prevention and control in practice and the key infections affecting patients in both acute and primary care A uniquely visual and accessible overview of a topic of relevance to all nursing staff Includes key points for clinical practice patient management and signposting of key national guidance documents and websites Available in a wide range of digital formats perfect for on the go study and revision

Antimicrobial Drug Resistance Douglas Mayers, 2009-07-14 This rst edition of Antimicrobial Drug Resistance grew out of a desire by the editors and authors to have a comprehensive resource of information on antimicrobial drug resistance that encompassed the current information available for bacteria fungi protozoa and viruses We believe that this information will be of value to clinicians epidemiologists microbiologists virologists parasitologists public health authorities medical students and fellows in training We have endeavored to provide this information in a style which would be accessible to the broad community of persons who are concerned with the impact of drug resistance in our cl ics and across the broader global communities Antimicrobial Drug Resistance is divided into Volume 1 which has sections covering a general overview of drug resistance and mechanisms of drug resistance rst for classes of drugs and then by individual microbial agents including bacteria fungi protozoa and viruses Volume 2 addresses clinical epidemiologic and public health aspects of drug resistance along with an overview of the conduct and interpretation of speci c drug resistance assays Together these two

volumes offer a comprehensive source of information on drug resistance issues by the experts in each topic

Principles and Practice of Clinical Virology Arie J. Zuckerman, 2009-03-12 Principles and Practice of Clinical Virology is the bible for all working in the field of clinical virology from the trainee to the expert because there's always something new to learn. As before, the book provides a detailed account of the diagnosis and treatment of virus infections with a stronger emphasis on clinical expertise and management. Each chapter deals with a single virus or group of viruses and is written by leading international experts in the field. What's new in this edition: Showcases the wealth of new knowledge acquired on virus infections and reflects the discovery of newly recognized emerging infections; the improvement or development of new vaccines and an increasing repertoire of antiviral agents for treatment. All chapters have been thoroughly revised and there are a number of new contributors joining the cadre of internationally recognized experts. Includes a new chapter on vaccinology covering the principles relating to the development and use of vaccines generally which complements the specific vaccines described in the other chapters. The two chapters on nosocomial infections have been enlarged and will be particularly useful for those having to advise on the management of hospital-acquired infections. Emphasizes the rapid accumulation of new information in such fields as retroviruses, particularly HIV, SARS, hepatitis C and influenza, including avian influenza.

Modeling Disease Transmission and Its Prevention by Disinfection Christon J. Hurst, 1996-11-13 Pathogenic microorganisms exploit a number of different routes for transmission and this book demonstrates how the spread of disease can be prevented through the practices of disinfection and controlling microbial growth. The book is organized into four sections.

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