



Review

# Unveiling the Systemic Impact of Congestion in Heart Failure: A Narrative Review of Multisystem Pathophysiology and Clinical Implications

Daniela Mocan <sup>1,2,3,4</sup> , Radu Jipa <sup>5,6,\*</sup>, Daniel Alexandru Jipa <sup>7,8</sup>, Radu Ioan Lala <sup>1,9</sup>, Florin Claudiu Rasinar <sup>2,3,4,7,\*</sup>, Iulia Groza <sup>6,7</sup>, Ronela Sabau <sup>6</sup>, Damaris Sutea Bratu <sup>6</sup>, Diana Federica Balta <sup>1,6</sup>, Sergiu Teodor Cioban <sup>6</sup> and Maria Puschita <sup>1</sup> 

<sup>1</sup> Multidisciplinary Doctoral School, Vasile Goldiș Western University of Arad, 310025 Arad, Romania; mocan.daniela2@gmail.com (D.M.); radu\_jala@yahoo.com (R.I.); mpuschita.m@gmail.com (M.P.)  
<sup>2</sup> Research Center of the Institute of Cardiovascular Diseases Timișoara, 300010 Timișoara, Romania  
<sup>3</sup> Department VII, Internal Medicine II, Discipline of Cardiology, University of Medicine and Pharmacy "Victor Babes" Timișoara, E. Mărghi Square, Nr. 2, 300041 Timișoara, Romania  
<sup>4</sup> Institute of Cardiovascular Diseases of Timișoara, 300350 Timișoara, Romania  
<sup>5</sup> Faculty of Medicine, Department of "Life Sciences", Vasile Goldiș Western University of Arad, Romania 86, Liviu Rebreanu Street, 310048 Arad, Romania  
<sup>6</sup> Arad County Clinical Emergency Hospital, 310007 Arad, Romania  
<sup>7</sup> Doctoral School, Victor Babes University of Timișoara, 300041 Timișoara, Romania; daniel.jipa@univtrc.ro  
<sup>8</sup> Victor Babes Clinical Hospital for Infectious Diseases and Pneumology of Timișoara, 300041 Timișoara, Romania  
<sup>9</sup> Correspondence: jipa.radu@uvtvvg.ro (R.J.); claudiu\_florin91@yahoo.com (F.C.R.)

**Abstract:** Congestion is a key clinical feature of heart failure (HF), contributing to hospitalizations, disease progression, and poor outcomes. While traditionally considered a hemodynamic issue, congestion is now recognized as a systemic process affecting multiple organs. Renal dysfunction arises from impaired perfusion and sodium retention, leading to maladaptive left ventricular remodeling. Hepatic congestion contributes to cholestatic liver injury, while metabolic disturbances drive anemia, muscle wasting, and systemic inflammation. Additionally, congestion disrupts the intestinal barrier and immune function, exacerbating HF progression. Given its widespread impact, effective congestion management requires a shift from a cardiovascular-centered approach to a comprehensive, multidisciplinary strategy. Targeted decongestive therapy, metabolic and nutritional optimization, and immune modulation are crucial in mitigating congestion-related organ dysfunction. Early recognition and intervention are essential to slow disease progression, preserve functional capacity, and improve survival. Addressing HF congestion through personalized, evidence-based strategies is vital for optimizing long-term care and advancing treatment paradigms.

**Keywords:** heart failure; congestion; pathophysiology



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## 1. Introduction

Heart failure (HF) is a complex syndrome in which congestion plays a central role in disease progression and clinical outcomes. Characterized by extracellular fluid accumulation, congestion is the leading cause of hospitalizations and readmissions, affecting patients across various HF phenotypes, from *de novo* HF to acute decompensation and advanced HF [1–3].

# Multisystem Organ Failure Pathophysiology And Clinical Implications

**Academy of Medicine (Singapore)**

## **Multisystem Organ Failure Pathophysiology And Clinical Implications:**

**Multisystem Organ Failure** ,1992    **Multiple Organ Dysfunction & Failure** Virginia Huddleston Secor,1996 The revision of this text provides up to date information on the science of multiple organ dysfunction syndrome MODS This edition brings not only new science but new nomenclature based on the recommendations of the American College of Chest Physicians and the Society of Critical Care Medicine Consensus Conference The text gives the experienced critical care practitioner the pathophysiologic background and understanding of MODS necessary to develop an effective plan of care and anticipate events associated with this syndrome The focus is on integration of clinical assessment with pathophysiological knowledge so the decision making process is based on a scientific and research foundation    *Principles and Practice of Trauma Nursing* Rose Ann O'Shea,2005-01-01 This unique authoritative book explores the spectrum of trauma care provided in the UK discussing procedures for specific trauma presentations as well as the nurse's role in providing care in the emergency setting Chapters on the relevant biosciences are included which serve as an excellent source of review or instruction for nurses of all levels In addition to the basic science dimensions of trauma nursing the book also addresses clinical psychosocial and psychological aspects of care Its structured approach to patient management presents information in an easy to follow format Research evidence is used throughout to support the text laying the foundation for expert nursing practice Multidisciplinary approach makes the book relevant to current practice Key learning points are highlighted with the text to help direct the reader's attention and encourage learning A wide range of expert contributors makes the book a credible and authoritative source Easy to understand chapters on fundamental biosciences expand readers knowledge Extensive illustrations line drawings and easy to read tables provide clear visual explanations of important material Appropriate references and recommended sources for further reading help readers develop knowledge and insight Structured textbook format facilitates learning enables information to be found quickly and makes the book more user friendly The section on pre hospital care presents a key piece of the trauma care spectrum rather than focusing solely on the nurse's role in hospital care    **Current Catalog** National Library of Medicine (U.S.),1992 First multi year cumulation covers six years 1965-70    [Core Curriculum for Pediatric Critical Care Nursing](#) American Association of Critical-Care Nurses,2006 Now updated to reflect the current state of pediatric critical care nursing practice this guide from the American Association of Critical Care Nurses AACN explores the anatomic physiologic and cognitive psychosocial changes that occur across the lifespan of a child This resource also serves as an effective study guide for the pediatric CCRN certification examination    *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1992    [Critical Care Nursing](#) Sheila K. Adam,Sue Osborne,2005-08-11 The structure of the book allows new students to understand the physiology underlying the patient's condition before concentrating on the priorities of interventions and nursing care Critical Care Nursing will not only act as an excellent base for nurses new to the critical care area but will also provide an updated review

of evidence based practice for nurses already familiar with the discipline **BOOK JACKET Understanding Pathophysiology** Sue E. Huether,Kathryn L. McCance,1996 This text covers the basic concepts of pathophysiology and current treatment of human disease Each disease is presented in a consistent format covering epidemiology pathophysiology clinical manifestations evaluation and treatment Quick Check questions follow each major section Review of Critical Care

**Nursing** Sheila Drake Melander,1996 Critical care nursing requires you to interpret and apply a great deal of information quickly and accurately That kind of critical thinking takes practice the kind of practice you ll find in *Review of Critical Care* Nursing Case Studies and Applications The 26 case studies and corresponding questions boost your ability to make competent confident decisions Based on actual clinical experiences the case studies thoroughly describe a variety of pulmonary cardiac renal neurological gastrointestinal endocrine and multisystem problems from symptoms through management After each case study a set of 10 20 questions challenges your critical thinking decision making and deductive reasoning skills **Core Curriculum for Critical Care Nursing** JoAnn Alspach,1998 Clearly organized and logically presented this 1998 AJN Book of the Year offers essential knowledge for critical care nursing directly from the AACN It s the ideal study outline for critical care orientation and continuing education programs and serves as an important resource to help prepare nurses for critical care certification A new chapter on multisystem health problems addresses systemic inflammatory response syndrome SIRS the multiple organ dysfunction syndrome MODS drug and alcohol intoxication poisoning burns hypothermia and multisystem trauma *Physiology for Nursing Practice* Susan E. Montague,Roger Watson,Rosamund Herbert,2005 The third edition of this highly respected text has been designed to meet the physiological component throughout degree and diploma courses for nurses Written and edited by respected nurse educators it has been fully updated with extensive references to nursing literature throughout In keeping with the first edition s focus on homeostasis the new edition includes increased emphasis on disturbances to equilibrium and on aspects of growth development and ageing The clinical dimension has been retained and both clinical implications and nursing aspects have been increased and enhanced The new text design and extensive use of full colour illustrations throughout will ensure that nursing students and their teachers will find that this is the only physiology text they need Clear Learning Objectives Key Concepts emphasised for ease of reference Review Questions Clinical implications and nursing care highlighted throughout Annotated suggestions for Further Reading All chapters updated Focus on the significance of homeostasis New comprehensive chapter on human genetics and its relevance to practice Extensive references to nursing literature and research **Contemporary Nutrition Support Practice** Laura E. Matarese,Michele M. Gottschlich,2003 This comprehensive reference covers the principles and practices of nutrition support with an emphasis on safety efficacy and science based medicine Chapters throughout this new edition have been updated to include the most timely information and an enhanced organization and new internal design highlight key content Designed for the nutrition support dietitian this

practical guide addresses the collaborative efforts of other members of the nutrition support team as well Up to date and comprehensive clinical information is supported by extensive references from scientific literature Nutrition support is covered throughout the lifecycle in specific system disorders such as hepatic and renal failure in general system disorders such as HIV disease and obesity and in physiologic stress situations such as bone marrow and stem cell transplantation Expert knowledge and experience is provided from over 60 distinguished contributors Useful appendices cover normal weight and body fat by means standard deviations and percentiles for men and women A new design with tables boxes and figures provides easier access to information Chapters have been reorganized to present content more efficiently Consistent headings throughout the text organize content more effectively A new pocket guide companion packaged with each copy of the text includes useful facts formulas and equations from the main text **Adult Nursing ,1997      Multiple Organ Failure** Arthur E. Baue,Eugen Faist,Donald Fry,2012-12-06

Inflammation in itself is not to be considered as a disease and in disease where it can alter the diseased mode of action it likewise leads to a cure but where it cannot accomplish that solitary purpose it does mischief John Hunter A Treatise on the Blood ITflammation and Gunshot Woundr London 1794 1 As we reached the millennium we recognized the gap between our scientific knowledge of biologic processes and our more limited clinical capabilities in the care of patients Our science is strong Molecular biology is powerful but our therapy to help patients is weaker and more limited For this reason this book focuses on the problems of multiple organ failure MOF multiple organ dysfunction syndrome MODS and systemic inflammatory response syndrome is patients who have severe injuries require major SIRS in high risk patients that overwhelming operations or have serious illnesses requiring intensive care patients who have diseases elsewhere in other organs or systems that limit their capabilities to survive a new insult and patients who are elderly or at high risk for sepsis or other complications These are the patients who need our help They need the advances in science in molecular biology immunology pathophysiology biochemistry genetics high technology and other areas of maximum support at the bedside These advances could potentially have the greatest impact on improving patient care **AACN Core Curriculum for Pediatric High Acuity, Progressive, and Critical Care Nursing, Third Edition** Margaret Slota,2018-07-28

AACN Core Curriculum for Pediatric High Acuity Progressive and Critical Care Third Edition provides content required to deliver the best care for critically ill or injured children As acuity increases in all inpatient departments and the practice of pediatric critical care expands beyond the acute phase of illness or injury knowledge of pediatric critical care is more essential than ever Pediatric acute and critical care nurses find themselves handling not only their patients but care of their families and management of an interprofessional team of caregivers With emphasis on evidence based care and professionalism this essential resource captures the professional role of the pediatric critical care nurse and the nurse s contributions to the process of continuous quality improvement Ideal for pediatric critical care and acute care nurses high acuity critical care courses and continuing education AACN Core Curriculum for Pediatric High Acuity Progressive and

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*Inpatient Pediatric Nursing* Lois K. Baker, Beth Anderson (RN), 1995      **The British National Bibliography**  
Arthur James Wells, 1992      Multiple Organ Failure Arthur Baue, 1990      **Annals of the Academy of Medicine, Singapore** Academy of Medicine (Singapore), 2001      *Pathology* Catherine Cavallaro Goodman, William G. Boissonnault, 1998

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