

HEART & LUNG

American Association of Heart Failure Nurses Editorial

A1 Impacting heart failure patients lives through missed opportunities

Ashley Moore-Gibbs, DNP, RN, AGPCNP-BC, CHFNP

Health Care of People with Cardiovascular Disorders

6 Association of sex and age and delay predictors on the time of primary angioplasty activation for myocardial infarction patients in an emergency department

Gemma Berga Congost, PhD, stMsCRN, Maria Antonia Martinez Momblan, PhD, MsCRN, Jonatan Valverde Bernal, PhD, stMsCRN, Adrián Márquez López, PhD, stMsCRN, Judit Ruiz Gabalda, RN, Joan Garcia-Picart, MD, Mireia Puig Campmany, PhD, MD, and Salvatore Brugaletta, PhD, MD

47 Patient and caregiver experiences with a telemedicine intensive care unit recovery clinic

Mariya A. Kovaleva, RN, PhD, AGPCNP-BC, Abigail C. Jones, M. Ed., RN, BS, Christine Cleary Kimpel, PhD(c), MA, BSN, RN, Jana Lauderdale, PhD, RN, FAAN, Carla M. Sevin, MD, Joanna L. Stollings, PharmD, FCCP, FCCM, James C. Jackson, PsyD, and Leanne M. Boehm, PhD, RN, ACNS-BC, FCCM

54 Return to work and everyday life following out-of-hospital cardiac arrest. Results from the national survey, DenHeart

Maiken Hedegaard Nielsen, MSc, Trine Bernholdt Rasmussen, PhD, Mette Kirstine Wagner, MSc, Ditte Bekker, MSc, Sofie Moesgaard Bruvik, MSc, Ola Ekholm, MSc, Selina Kikkenborg Berg, PhD, Anne Vinggaard Christensen, PhD, Rikke Elmoose Mols, PhD, Charlotte Brun Thorup, PhD, Lars Thrysoee, PhD, and Britt Borregaard, PhD

62 Factors influencing self-management behavior during the “Blanking Period” in patients with atrial fibrillation: A cross-sectional study based on the information-motivation-behavioral skills model

Yunmei Ding, MSN, RN, Fan Li, PhD, Zekai Fan, MSN, Jingya Zhang, MSN, RN, Jiayun Gu, MSN, RN, Xue Li, MSN, RN, Lili Wei, PhD, RN, Yan Zhang, MSN, RN, Hongxuan Xu, MSN, RN, and Yan Cui, BSN, RN

82 Nurses’ knowledge of heart failure assessment and management: A cross-sectional survey

Zequan Wang, MSN, RN, Stephen Walsh, ScD, Christine Tocchi, PhD, APRN, BC-GNP, Yiming Zhang, PhD, and Deborah Chyun, PhD, RN, FAHA, FAAN 

98 Survival after multiple episodes of cardiac arrest


Bayley A. Jones, MD, Micah A. Thornton, PhD, Christopher A. Heid, MD, Kristen L. Burke, MD, Marinda G. Scrushy, Kareem R. Abdelfattah, MD, Steven E. Wolf, MD, and Mitri K. Khoury, MD

Publication information: *Heart & Lung*®: The Journal of Cardiopulmonary and Acute Care (ISSN: 0147-9563) is published bi-monthly by Elsevier, 230 Park Avenue, Suite 800, New York, NY 10169. Periodicals postage paid at New York, NY and additional mailing offices.


USA POSTMASTER: Send address changes to *Heart & Lung*®: The Journal of Cardiopulmonary and Acute Care, Elsevier Customer Service Department, 3251 Riverport Lane, Maryland Heights, MO 63043, USA.

HEART & LUNG

Contents *continued*

- 116** **The development of a patient reported outcome measure for fatigue and breathlessness for patients with chronic heart failure (OxFAB)**
Helen Walthall, PhD, RN, Louise H. Strickland, DPhil, RN, and Crispin Jenkinson, DPhil 
- 125** **Predictors of early heart failure rehospitalization among older adults with preserved and reduced ejection fraction: A review and derivation of a conceptual model**
Carolyn B. Sue-Ling, PhD, MPA, RN, and Nalini Jairath, PhD, RN
- 144** **The association of multidimensional sleep health with adiposity in heart failure with preserved ejection fraction**
Brittanny M. Polanka, Lisa R. Yanek, Allison G. Hays, Kavita Sharma, Sanjiv J. Shah, Marie-Pierre St-Onge, Pamela Ouyang, and Lena Mathews
- 191** **A more conservative test of sex differences in the treatment and outcome of in-hospital cardiac arrest**
Johan Israelsson, Magnus Carlsson, and Jens Agerström

Health Care of People who are Critically Ill

- 74** **Developing an explainable machine learning model to predict the mechanical ventilation duration of patients with ARDS in intensive care units**
Zichen Wang, MPH, Luming Zhang, MD, Tao Huang, Rui Yang, Hongtao Cheng, Hao Wang, Haiyan Yin, PhD, and Jun Lyu, MD, PhD
- 166** **Interventions using digital technology to promote family engagement in the adult intensive care unit: An integrative review**
Ji Won Shin, Ph.D, RN, JiYeon Choi, Ph.D, RN, ATSF, and Judith Tate, Ph.D, RN, FAAN, ATSF
- 179** **Outcomes of extracorporeal membrane oxygenation in immunosuppressed vs. Immunocompetent patients**
Cameron Blazoski, Pradhab Kirupaharan, Robert Hilton, Ron Leong, and Michael Baram
- 185** **Intraoperative right heart function with individualized mechanical ventilation in laparoscopic surgery with Trendelenburg positioning: A randomized-controlled study**
Yun Wang, M.D., Xiaoli Wang, M.M., Huijuan Wang, M.M., Hong Wang, M.D., Ph.D., Shitong Li, M.D., and Lianhua Chen, M.D., Ph.D. 
- 223** **Association between ventilatory ratio and ICU mortality in interstitial lung disease patients on mechanical ventilation: A retrospective study**
Lin-Xi Fu, He Yu, Lan Lan, Feng-Ming Luo, and Yue-Nan Ni

Contents *continued*

- 229** **Combining exercise, protein supplementation and electric stimulation to mitigate muscle wasting and improve outcomes for survivors of critical illness—The ExPrES study**
Avelino C. Verceles, MD, MS, Monica Serra, PhD, Derik Davis, MD, Gad Alon, PT, PhD, Chris L Wells, PT, PhD, Elizabeth Parker, PhD, John Sorkin, MD, PhD, Waqas Bhatti, MD, and Michael L. Terrin, MD, CM
- 236** **Exercise and nutrition in critically ill patients-What is the correct formula?**
Margaret A. Pisani, MD, MPH

Health Care of People with Pulmonary Disorders

- 21** **Pulmonary hypertension and associated outcomes in noncardiac surgery: A systematic review and meta-analysis**
Yasser Binbraik, MD, MPH, Michael Ke Wang, MD, Thomas Riekkki, MD, David Conen, MD, MPH, Maura Marcucci, MD, MSc, Flavia Kessler Borges, MD, PhD, Nathan Hambly, MD, and PJ Devereaux, MD, PhD
- 34** **Expert provider survey of longitudinal assessment in patients with pulmonary arterial hypertension**
John F. Kingrey, Christine Y. Zhou, Bhavinkumar Dalal, and Jean M. Elwing
- 69** **Association between inpatient palliative care encounter and 30-day all-cause readmissions after index hospitalization for chronic obstructive pulmonary disease**
Ali Yazdanyar, DO, PhD, MS, Ashley Vojtek, DO, Sachin Gupta, MD, Aditya Iyer, MBBS, Alaynna C Kears, DO, Kaitlyn Musco, MD, Shuisen Li, DO, and Shadi Jarjous, MD
- 158** **The association of IL-10-1082G/A gene polymorphism with the risk of acute lung injury/ respiratory distress syndrome (ALI/RDS): A meta-analysis**
Renye Yao, Ting Chen, and Feng Xue
- 217** **Causal association between iron deficiency anemia and chronic obstructive pulmonary disease: A bidirectional two-sample Mendelian randomization study**
Yi Wei, MD, Lei Sun, Chao Liu, and Lujia Li, MD
- 238** **The potential for unnecessary medical interventions due to inaccurate pulse oximetry measurements**
Jeremy W. Jacobs, MD, MHS, and Elizabeth Abels, MD

Health Care in the Covid-19 Pandemic


- 1** **Sex differences in the prognostic value of troponin and D-dimer in COVID-19 illness**

HEART & LUNG

Contents *continued*

Amrita Mukhopadhyay, MD, Nina Talmor, MD, Yuhe Xia, MS, Jeffrey S Berger, MD, Eduardo Iturrate, MD, Samrachana Adhikari, PhD, Claudia Pulgarin, MD, Adriana Quinones-Camacho, MD, Eugene Yuriditsky, MD, James Horowitz, MD, Albert S Jung, MD, Daniele Massera, MD, Norma M Keller, MD, Glenn I Fishman, MD, Leora Horwitz, MD, Andrea B Troxel, MD, Judith S Hochman, MD, and Harmony R Reynolds, MD

104 Excess of heart failure-related deaths during the 2020 COVID-19 pandemic in United States

Marco Zuin, MD, FESC, FACC, FANCMO, Gianluca Rigatelli, MD, PhD, FACC, FSCAI, and Claudio Bilato, MD, PhD 

204 Mortality rate in patients with SARS-COV-2 infection treated with extracorporeal membrane oxygenator: A systematic review and meta-analysis

Toonchai Indrambarya, Mutita Chaichalothorn, Chayatat Sirinawin, Jule Namchaisiri, and Paweena Susantitaphong

210 Endothelial function, arterial stiffness and heart rate variability of patients with cardiovascular diseases hospitalized due to COVID-19

Cláudia Regina da Silva Araújo, Juliana Fernandes, Débora Sidrônio Caetano, Ana Eugênia Vasconcelos do Rêgo Barros, Juliana Andrade Ferreira de Souza, Maria da Glória Rodrigues Machado, Maria Inês Remígio de Aguiar, Simone Cristina Soares Brandão, Shirley Lima Campos, Armele de Fatima Dornelas de Andrade, and Daniella Cunha Brandão

Exercise and Rehabilitative Care

13 Effects of creative dance on functional capacity, pulmonary function, balance, and cognition in COPD patients: A randomized controlled trial

Meltem Kaya, PT, PhD, Hulya Nilgun Gurses, PT, PhD, Hikmet Ucgun, PT, PhD, and Fatmanur Okyaltirik, MD


28 Is the six-minute step test able to reflect the severity and symptoms based on cat score?

Izadora M. Dourado, Polliana B. Santos, Cássia L. Goulart, Renan S. Marinho, Aldair Darlan Santos-De-Araújo, Meliza G. Roscani, Renata G. Mendes, and Audrey Borghi-Silva

91 Respiratory and peripheral muscle strength influence recovery of exercise capacity after severe exacerbation of COPD? An observational prospective cohort study

Alessandro D. Heubel, Erika Z. Kabbach, Naiara T. Leonardi, Nathany S. Schafausser, Débora M.O. Kawakami, Anna Claudia Sentanin, Valéria A. Pires Di Lorenzo, Audrey Borghi Silva, John R. Hurst, and Renata G. Mendes

108 Exertional dyspnea responses to the Dyspnea Challenge in heart failure: Comparison to chronic obstructive pulmonary disease

Craig R. Aitken, Glenn M. Stewart, James R. Walsh, Tanya Palmer, Lewis Adams, Surendran Sabapathy, and Norman R. Morris 

134 Independent predictors and equation of six-minute walk test in post-cardiac surgery

Contents *continued*

Jaruwat Bumrungrakittikul, MD, and Wilawan Thirapatarapong, MD

139 Exploring the factors associated with decreased dynamic balance ability in older patients with heart failure

Etsuko Mori, PT, MS, Yoichiro Aoyagi, MD, PhD, Yuji Kono, PT, PhD, Hitoshi Asai, PT, PhD, Hidehito Tomita, PT, PhD, and Hideo Izawa, MD, PhD **HEART FAILURE**

152 Six-minute stepper test for evaluating functional exercise capacity in patients with sarcoidosis

Melih Zeren, Rengin Demir, Esma Yildiz, Zerrin Yigit, Sema Nur Atmaca, and Ersan Atahan

198 Ambivalence is associated with decreased physical activity and cardiorespiratory fitness among adolescents with critical congenital heart disease

Kristen R. Fox, Ph.D., Steven P. Neville, B.A., Victoria R. Grant, B.S., Kathryn Vannatta, Ph.D., and Jamie L. Jackson, Ph.D. **HEART FAILURE**

240 Invited Editorial for “Physiotherapy practices when treating patients with COVID-19 during a pandemic: A survey study”

Dr. Scott Bradley

Health Care Work Force

39 “Finding the Way in the Dark”- Working experience of specific-duty-post nurses in a nurse-led in-hospital pulmonary rehabilitation program: A qualitative study

Jiaying Li, PhD candidate, Qiuxuan Zeng, BSN, Huixin Huang, BSN, Yang Song, PhD, Wenwei Guo, BSN, and Daniel Yee Tak Fong, PhD

Correspondence

242 Comment on “Evaluation of pulmonary function and exercise capacity after COVID-19 pneumonia”

Samar Sajid

243 Authors response to: Comment on “Evaluation of pulmonary function and exercise capacity after COVID-19 pneumonia”

S Okan, F Okan, and F Duran Yücesoy

245 Comment on: Exercise capacity assessed with the one-minute sit-to-stand test (1-min STST) and echocardiographic findings in patients with heart failure with preserved ejection fraction (HFpEF)

HEART & LUNG

Contents *continued*

Kamran Mahfooz, Syed Najeed, MD (FACP, FACC, FSCAI)

247 Comment on: Echocardiographic 60-day mortality markers in patients hospitalized in intensive care for COVID-19

Kamran Mahfooz

249 IL-10-1082G/a gene polymorphism and the risk of acute lung injury/respiratory distress syndrome: Correspondence

Rujittika Mungmunpuntipantip, and Viroj Wiwanitkit

250 Existence of “obesity paradox” in cardiogenic shock: More questions than answers

Rohan Magoon, DM, MD, and Jes Jose, MD

252 Comment on “Clinical features and three-year prognosis of AECOPD patients with different levels of blood eosinophils”

Dr. Mustafa Javaid and Dr. Arsalan Nadeem

254 Comment on “Post-infectious bronchiolitis obliterans in children: Clinical and radiological evaluation and long-term results”

Sushmita Pandey

256 Comment on “Pre-hospital antiplatelet medication use on COVID-19 disease severity”

Sandesh Dhakal

258 Letter to the Editor: Influence of right ventricular structure and function on hospital outcomes in COVID-19 patients

Dr. Mustafa Javaid, Dr. Faizan Masood, and Dr. Arsalan Nadeem

HEART FAILURE INDICATES HEART FAILURE RELATED CONTENT

Full-text access to *Heart & Lung: The Journal of Cardiopulmonary and Acute Care* is available for AAHFN members and individual subscribers. Articles in the Contents that include the ONLINE ONLY icon can be found at www.heartandlungjournal.org. See page 99 for access information.

Statements and opinions expressed in the articles and communications herein are those of the author(s) and not necessarily those of the Editor(s) or publisher, and the Editor(s) and publisher disclaim any responsibility or liability for such material. Neither the Editor(s) nor the publisher guarantees, warrants or endorses any product or service advertised in this publication, nor do they guarantee any claim made by the manufacturer of such product or service.