

HEART & LUNG

American Association of Heart Failure Nurses Editorial

A1 January/February leadership message

Maureen Flattery

HEALTH CARE OF ADULTS WITH CARDIAC DISORDERS

7 Kinesiophobia in patients with angina pectoris of coronary artery disease: A cross-sectional survey

Yao Shen, MS, RN, Tingting Yan, PhD, RN, Qian Peng, MS, RN, Baofeng Zhang, BS, RN, Ke Zhao, and Zhan Yang, MS, RN

25 What kind of patient education and self-care support do patients with heart failure receive, and by whom? Implementation of the ESC guidelines for heart failure in three European regions

Karolien Baldewijns, Josiane Boyne, Carla Rohde, Lieven de Maesschalck, Aleidis Devillé, Vincent Brandenburg, Leentje De Bleser, Mieke Derickx, Sema Bektas, and Hans-Peter Brunner-La Rocca HEART FAILURE

31 Retrospective validation of acute heart failure risk stratification in the emergency department

Danika M. Nelson, Bo E. Madsen, Stephen L. Kopecky, Carole E. Jenson, Ann R. Loth, Aidan F. Mullan, Casey M. Clements, and Grace Lin HEART FAILURE

41 Heart transplant Recipients' perspectives on invasive versus Non-invasive graft failure surveillance Methods

Aayla K. Jamil, MBBS MPH, Kristen M. Tecson, PhD, Tatyana T. Ganz, MD, Shane Blankenship, Joost Felius, PhD, Sandra A. Carey, PhD, and Shelley A. Hall, MD HEART FAILURE

69 Comparison of catheter ablation and medical therapy for atrial fibrillation in heart failure patients: A meta-analysis of randomized controlled trials

Faysal Şayhık, Tufan Çınar, Tayyar Akbulut, and Mert İlker Hayıroğlu HEART FAILURE

80 Developing a group-based virtual education curriculum for cardiac rehabilitation and the associated toolkit to support implementation in Canada and across the globe



Ghisi Gabriela Lima de Melo, Aultman Crystal, Konidis Renee, Sandison Nicole, and Oh Paul

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*

- 95** **The role of a multidisciplinary heart failure clinic in optimization of guideline-directed medical therapy: HF-optimize**
Theresa Diederich, APRN-NP, CHFNP, FHFSA, Adam Burdorf, DO, MS, Bunny Pozehl, PhD, APRN-NP, FHFSA, FAHA, FAAN, Stephanie Bowman, PharmD, BCPS, BCCP, Kelly Ferguson, APRN-NP, Kyana Holder, APRN-NP, Windy Alonso, PhD, RN, FHFSA, Douglas Stoller, MD PhD, and Scott Lundgren, DO, MS 
- 102** **Frailty in elderly patients with acute heart failure increases readmission**
Takuya Umehara, RPT, Ph.D, Akinori Kaneguchi, RPT, Ph.D, Nobuhisa Katayama, RPT, Wataru Kawakami, RPT, MS, Daisuke Kuwahara, RPT, Nobuhiro Kito, RPT, Ph.D, and Masayuki Kakehashi, Ph.D, DSc 
- 124** **Risk of complications after a non-ST segment elevation acute myocardial infarction in a Latin-American cohort: An application of the ACTION ICU score**
Juan Felipe Vasquez-Rodriguez, Carolina Idrovo-Turbay, Oscar M. Perez-Fernandez, Paola Cruz-Tapias, Nicolas Isaza, Alberto Navarro, Ramón Medina-Mur, Valeria Ramirez-Lovera, Luis Enrique Giraldo, Nicolas Ariza, Marisol Carreno Jaimes, and Daniel Isaza
- 173** **Evaluation of primary and accessory respiratory muscles and their influence on exercise capacity and dyspnea in pulmonary arterial hypertension**
Habibe Durdu, Rengin Demir, Melih Zeren, Pınar Basturk, Hidayet Ozan Arabaci, Umit Yasar Sinan, and Mehmet Serdar Kucukoglu
- 198** **Factors associated with in-hospital mortality from free wall rupture after acute myocardial infarction**
Xueying Liu, Xiang Cui, Zeming Zhou, Jingjing Xu, Xianliang Zhou, Weixian Yang, Yaxin Liu, Hanmei Li, and Huiqiong Tan
- 207** **CT angiography compared to invasive angiography for stable coronary disease as predictors of major adverse cardiovascular events- A systematic review and meta-analysis**
Natasha Corballis, Vasiliki Tsampasian, Ioannis Merinopoulis, Tharusha Gunawardena, U Bhalraam, Simon Eccleshall, Marc R Dweck, and Vassilios Vassiliou
- 214** **Experience of coronary heart disease patients with a nurse-led eHealth cardiac rehabilitation: Qualitative process evaluation of a randomized controlled trial**
Jing Jing SU, PhD, RN, Jenniffer Paguio, PhD, RN, FNYAM, William Mooketsi Baratedi, PhD, RN, Hammoda Abu-Odah, PhD, RN, and Ladislav Batalik, PhD, PT
- 229** **Associations of perceived and common dyadic coping with self-care in older couples with cardiovascular disease: A dyadic analysis**
Maryam Keramat Kar, Fatemeh Soleimani, Ahad Alizadeh, and Majid Hajikarimi

HEART & LUNG

Contents *continued*

- 265 Patients and caregivers perspectives of the connection between home and the transplant journey**
Heather Lannon, Jillianne Code, Jennifer Poole, Christy Simpson, and Varinder Badh **HEART FAILURE**
- 271 Health literacy and quality of life of patients with coronary heart disease in Tibet, China: The mediating role of self-efficacy and self-management**
An-kang Liu, BS, RN, Yu-yao Liu, BS, RN, Jin Su, BS, RN, Jing Gao, BS, RN, Li-juan Dong, BS, RN, Qi-yuan Lyu, PhD, RN, and Qiao-hong Yang, PhD, RN
- 277 Peak exercise oxygen uptake and changes in renal function in patients after acute myocardial infarction**
Toshimi Sato, Ph.D, Shinichiro Morishita, Ph.D, Masahiro Ono, MD, Ph.D, Yoshinari Funami, Keishi Hayao, Ph.D, Daichi Kusano, and Masahiro Kohzuki, MD, Ph.D

HEALTH CARE OF CRITICALLY ILL ADULTS

- 12 Association of serum total bilirubin and potential predictors with mortality in acute respiratory failure: A retrospective cohort study**
Zhishen Ruan, Dan Li, Xianhai Chen, and Zhanjun Qiu
- 45 A pilot randomized controlled trial of securement bundles to reduce peripheral intravenous catheter failure**
Amanda Corley, RN, MAdvPrac, PhD, Amanda J Ullman, RN, PhD, Nicole Marsh, RN, MAdvPrac, PhD, Jodie Genzel, RN, Emily N Larsen, RN, GDipHlthRes, Emily Young, BHSci, Catriona Booker, RN, PhD, Patrick N A Harris, BSc, MBBS, PhD, FRACP, FRCPA, and Claire M Rickard, RN, PhD
- 59 Family caregivers' responses to a visitation restriction policy at a Korean surgical intensive care unit before and during the coronavirus disease 2019 pandemic**
Jiwoo Suh, Sungwon Na, Seungho Jung, Kwan Hyung Kim, Sungji Choo, JiYeon Choi, and Jeongmin Kim
- 66 Correlation between severity of obesity and mortality in cardiogenic shock**
Matthew S. Delfiner, DO, Carlos Manuel Romero, MD, Catherine Dillane, MD, Elizabeth Feldman, MD, and Eman Hamad, MD
- 144 Development and validation of a simple nomogram for predicting the short-term prognosis of patients with pulmonary embolism**
Jia-Liang Zhu, Shi-Qi Yuan, Xin-Yi Wei, Hai-Yan Yin, Xue-Hao Lu, Jian-Rui Wei, and Jun Lyu

Contents *continued*

- 180** **Can support surfaces characteristics influence high-quality chest compression? manikin experiment with a mechanical device**
Carla de Azevedo Vianna, Juliana Faria Campos, Hudson Carmo de Oliveira, Debora Mazioli Machado, Gabriela Barcellos de Bakker, Rafael Celestino da Silva, and Marcos Antônio Gomes Brandão
- 186** **The use of early neuromuscular blockage in acute respiratory distress syndrome: A systematic review and meta-analyses of randomized clinical trials**
Félix H. Savoie-White, Laurence Tremblay, Charles Antoine Menier, Cécile Duval, Frédéric Bergeron, Mina Tadrous, Jade Tougas, Jason R. Guertin, and Paula A. Ugalde
- 203** **“The Spiked Helmet sign”: A harbinger of impending barotrauma**
Favour Markson, MD, Manar Shalak, MD, Onoriode Kesiena, MD, MPH, Garba Rimaskep Shamaki, MD, Emmanuel Ekanem, MD, and Kenneth Ong, MD
- 283** **Upper limb function of individuals hospitalized in intensive care: A 6-month cohort study**
Daniela Andrade de Carvalho, MSc, Carla Malaguti, PhD, Leandro Ferracini Cabral, PhD, Cristino Carneiro Oliveira, PhD, Raquel Annoni, PhD, and Anderson José, PhD

HEALTH CARE OF ADULTS WITH PULMONARY DISORDERS

- 54** **Evaluating the clinical role of fibrinogen, D-dimer, mean platelet volume in patients with acute exacerbation of COPD**
Lijun Chen, Wang Xu, Juanxia Chen, Huifang Zhang, Xiaobo Huang, Liting Ma, Genggeng Yu, Yanjun Zhou, Bin Ma, Chao Chen, Yanhong Liu, and Xiaoyong Ma
- 110** **Screening value of lung ultrasound in connective tissue disease related interstitial lung disease**
Yupeng Huang, Tao Liu, Songya Huang, Li Qiu, Fengming Luo, Geng Yin, and Qibing Xie
- 222** **Predictors of early hospital readmission in patients receiving home mechanical ventilation**
Eun Young Kim, Hee Jung Suh, Ga Jin Seo, Min Kyung Jang, Chae-Man Lim, and Jin Won Huh
- 236** **Effects of Kinesio Taping® on pulmonary function of individuals with COPD: A systematic review and meta-analysis**
Luana de Campos, Rafaela Neves, and Karoliny dos Santos Isoppo
- 257** **Obstructive sleep apnea reduces functional capacity and impairs cardiac autonomic modulation during submaximal exercise in patients with chronic obstructive pulmonary disease: A follow-up study**
Patrícia Faria Camargo, Luciana Ditomaso-Luporini, Luiz Carlos Soares de Carvalho, Jr, Cássia da Luz Goulart, Polliana Batista dos Santos, Rayane Sebold, Meliza Goi Roscani, Renata Gonçalves Mendes, and Audrey Borghi-Silva

Contents *continued*

HEALTH CARE OF PEOPLE WITH COVID-19

- 19** **Influence of right ventricular structure and function on hospital outcomes in COVID-19 patients**
Jozef Oweis, MD, Annie Leamon, BS, Ali H. Al-Tarbsheh, MD, Katharine Goodspeed, BSMS, Ciril Khorolsky, MD, Paul Feustel, PHD, Usman Naseer, MBBS, Isam Albaba, MBBS, Sai Anoosh Parimi, MBBS, Boris Shkolnik, MD, Anupama Tiwari, MD, Amit Chopra, MD, and Mikhail Torosoff, MD
- 75** **Pulmonary artery pressures and right ventricular dimensions of post-COVID-19 patients without previous significant cardiovascular pathology**
Kenan Erdem, and Ates Duman
- 117** **The relationship between vitamin D deficiency and mortality in older adults before and during COVID-19 pandemic**
Mahmut Esad Durmuş, MD, Özgür Kara, MD, Murat Kara, MD, Tuğçe Cansu Kaya, MD, Fatıma Edibe Şener, MD, Merve Durmuş, MD, Ahmet Sertçelik, MD, Banu Çakır, MD, and Levent Özçakar, MD
- 130** **Parents of children with congenital heart defects during the COVID-19 pandemic: An examination of mental health variables, risk factors, and protective factors**
Kayla Harvey, PhD, MSN, ARNP
- 140** **A case report of an 18-year-old receiving nebulized lidocaine for treatment of COVID-19 cough**
Kelli J Welter, Sharon Gordon, Patrick Snyder, and Blake Martin
- 152** **Physiotherapy practices when treating patients with COVID-19 during a pandemic: A survey study**
Anthony Trojman, Judith Hough, Julie Hides, Louise Gustafsson, Orlando Flores, and Jennifer Paratz
- 161** **Exercise modulates the immune system in cardiorespiratory disease patients: Implications for clinical practice during the COVID-19 pandemic**
Snehil Dixit, PhD, Audrey Borghi-Silva, PhD, Kumar Gular, MPT, Ravi Shankar Reddy, PhD, Venkata Nagaraj Kakaraparthi, MPT, Ivana Leão Ribeiro, PhD, Jaya Shanker Tedla, PhD, and Srilatha Girish, PhD
- 243** **Extracorporeal membrane oxygenation in COVID-19 compared to other etiologies of acute respiratory failure: A single-center experience**
Hamid Yaqoob, Daniel Greenberg, Lawrence Huang, Theresa Henson, Areen Pitaktong, Daniel Peneyra, Philip J. Spencer, Ramin Malekan, Joshua B Goldberg, Masashi Kai, Suguru Ohira, Zhen Wang, M. Hassan Murad, Dipak Chandy, and Oleg Epelbaum

Contents *continued*

250 Outcomes after implementing a heart failure diuretic pathway in an emergency department setting

Samantha Bogner, DNP, CNP, AGACNP-BC, FNP-BC, James F. Bena, MS, Shannon L Morrison, MS, and Nancy M. Albert, Ph.D, CCNS, CHFN, CCRN, NE-BC, FAHA, FCCM, FHFA, FAAN

PROFESSIONAL ISSUES RELATED TO CARDIOPULMONARY AND ACUTE CARE

1 Being a health care professional in the ICU serving patients with covid-19: A qualitative study

Erol Ozan, MD, and Nihan Durgu, PhD

CORRESPONDENCE

65 Comment on “The atherogenic index of plasma as a predictor of mortality in patients with COVID-19.”

Advait Vasavada, Jordan Llerena-Velastegui, and Paul Vaca-Perez

290 Comment on “Factors affecting STEMI performance in six hospitals within one healthcare system”

Roya Imani, and Hanieh Norooziseyehosseini

291 Response to query from Roya Imani for manuscript HL-D-22–00494

Joanne Thanavaro

292 The pandemic of the unvaccinated: a Covid-19 ethical dilemma

Efrat Zamir, and Plia Gillis

295 Prevalence of sexual dysfunction in women with pulmonary hypertension and associated factors. Prevalence of sexual dysfunction in women with pulmonary hypertension and associated factors: A reponse letter

Leticia Fernanda Tavares Sousa de Oliveira, and Vinicius Batista Santos

296 Comment on “Grip strength as a predictor of disease severity in hospitalized COVID-19 patients”

Samar Sajid

297 Authors response to: Comment on “Grip strength as a predictor of disease severity in hospitalized COVID-19 patients”

Özgür Kara, MD, Murat Kara, MD, Mustafa Emre Akın, MD, and Levent Özçakar, MD

HEART & LUNG

Contents *continued*

- 298** **Comment on “Lower socioeconomic factors are associated with higher mortality in patients with septic shock”**
Sowkhya Panakala, MBBS, Akhil Raj Anumolu, MBBS, and Roomi Raja
- 299** **To the Editor**
Daniel Colon Hidalgo, MD, MPH
- 300** **Comment on “The atherogenic index of plasma as a predictor of mortality in patients with COVID-19”**
Samar Sajid
- 301** **Letter to the Editor: The atherogenic index of plasma as a predictor of mortality in patients with COVID-19**
Maida Qazi, Satesh Kumar, and Mahima Khatri
- 302** **Comment on: Clinical and economic consequences associated with hospitalizations for acute idiopathic pericarditis in the United States**
Muhammad Usman, and Laiba Murtaza
- 304** **Letter to the Editor: Clinical and economic outcomes associated with hospitalizations for acute idiopathic pericarditis in the United States**
Mustafa Javaid, and 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.