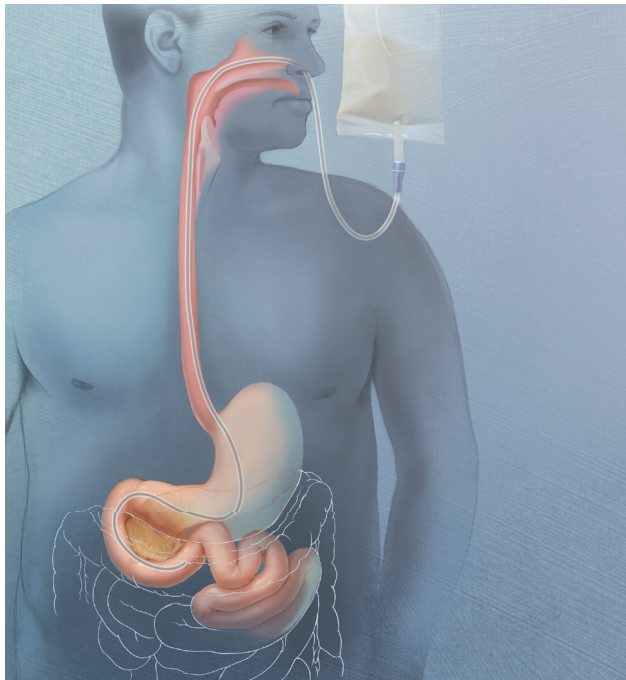


# CriticalCareNurse

The journal for high acuity, progressive, and critical care nursing



Cover illustration by Kimberly Martens

*CRITICAL CARE NURSE* (ISSN 0279-5442, eISSN 1940-8250) is published bimonthly (February, April, June, August, October, December) by the American Association of Critical-Care Nurses (AACN), 27071 Aliso Creek Rd, Aliso Viejo, CA 92656. Telephone: (949) 362-2000. Fax: (949) 362-2049. Email: [ccn@aacn.org](mailto:ccn@aacn.org). Copyright 2021 by AACN. All rights reserved. *CRITICAL CARE NURSE* is an official publication of AACN. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or by any information storage retrieval system without permission of AACN. For all permission requests, please contact the Copyright Clearance Center, Customer Service, 222 Rosewood Drive, Danvers, MA 01923, (978) 750-8400. The statements and opinions contained herein are solely those of individual contributors and not of the editor or AACN. The editor and AACN assume that articles emanating from a particular institution are submitted with the approval of the requisite authority, including all matters pertaining to human studies and patient privacy requirements. Advertisements in this journal are not a warranty, endorsement, or approval of the products by the editor or AACN, who disclaim all responsibility for any injury to persons or property resulting from any ideas or products referred to in articles or advertisements.

Individual subscriptions (print and online): US, \$39; outside of US, US\$85. Institutional rates (print and online): US, \$555; outside of US, US\$735. Institutional rates (print only): US, \$395; outside of US, US\$560. Institutional rates (online only): US, \$365; outside of US, US\$365. Single copies and back issues: US, \$50; outside of US, US\$60. Fax requests to CCN Back Issues at (949) 362-2049 or write to CCN, 27071 Aliso Creek Rd, Aliso Viejo, CA 92656, or phone (800) 899-1712. Prices on single copies or bulk reprints of articles are available on request from AACN at (949) 362-2050, ext 532. For membership and subscription questions: call (800) 899-2226 or (949) 362-2000 or email [info@aacn.org](mailto:info@aacn.org); for institution subscription questions, call (800) 336-6348 or (818) 487-2075 or email [criticalcarenurse@pubservice.com](mailto:criticalcarenurse@pubservice.com).

Printed in the USA. Periodicals postage paid at Laguna Beach, Calif, and additional mailing offices. Postmaster: Send address changes to *CRITICAL CARE NURSE*, 27071 Aliso Creek Rd, Aliso Viejo, CA 92656. Allow 4 to 6 weeks for change to take effect. **For subscription questions please call toll-free: AACN members, (800) 899-2226 or (949) 362-2000; nonmembers, (800) 336-6348 or (818) 487-2075.**

The name and title *CRITICAL CARE NURSE* are protected through a trademark registration in the US Patent Office. *CRITICAL CARE NURSE* is indexed in Cumulative Index to Nursing & Allied Health Literature (CINAHL), MEDLINE/PubMed, Scopus, and ISI Alerting Services.

APRIL 2021 • VOLUME 41 NUMBER 2

CE

## Implementing Volume-Based Feeding to Optimize Delivery of Enteral Nutrition

Angela Bonomo, Diane Lynn Blume, Katie Davis, Hee Jun Kimo

Page 16

OnlineNOW

CE

## Critical Thinking Tools for Quality Improvement Projects

Kimberly Whiteman, Jason Yaglowksi, Kimberly Stephens

Page e1 (Page14)

CE

## Safety of a Nurse-Driven Standardized Potassium Replacement Protocol in Critically Ill Patients With Renal Insufficiency

Rebecca Conley, Rebecca L. Rich, Jennifer Montero

Page e10 (Page14)

## Assessment of an Educational Tool for Pediatric Cardiac Nurses on Individualized Family-Centered Developmental Care

Spencer Dean, Meghan Long, Edie Ryan, Kelly Tarnoviski, Antara Mondal, Amy Jo Lisanti

Page e17 (Page14)

## 2021 National Teaching Institute Evidence-Based Solutions Abstracts

Page e28 (Page14)

## FEATURES

 VIDEO ONLINE **CE**

### Nursing Management of Prone Positioning in Patients With COVID-19

Filippo Binda, Federica Marelli, Alessandro Galazzi, Riccardo Pascuzzo, Ileana Adamini, Dario Laquintana

Page 27

### Facilitating Factors in the Proper Identification of Acute Skin Failure: A Systematic Review

Michael Mileski, Rebecca McClay, Jessica Natividad

Page 36

### Pain Associated With Continuous Intravenous Infusion of Bumetanide: A Case Series

Lori B. Herges, Jacob C. Jentzer, Diane D. Brighton, Joseph R. Herges, Narith N. Ou

Page 44

### Cognitive Stimulation in an Intensive Care Unit: A Qualitative Evaluation of Barriers to and Facilitators of Implementation

Ann M. Parker, Louay Aldabain, Narges Akhlaghi, Mary Glover, Stephanie Yost, Michael Velaetis, Annette Lavezza, Earl Manthey, Kelsey Albert, Dale M. Needham

Page 51

### A Bundle-Based Approach to Prevent Catheter-Associated Urinary Tract Infections in the Intensive Care Unit

Holly N. Shadle, Valerie Sabol, Amanda Smith, Heather Stafford, Julie A. Thompson, Margaret Bowers

Page 62

## DEPARTMENTS

### EDITORIAL

Time to Train More Critical Care Nurses: Supporting Our New Colleagues

Annette M. Bourgault and Blake Lynch

Page 8

### CERTIFICATION TEST PREP

Stay Current Through Recertification

Sara Knippa, Kelly A. Thompson-Brazill, Laura Ullery

Page 72

### ASK THE EXPERTS

Evidence-Based Management of a Patient With an EKOS Catheter

Sara Knippa and Shannon Vernon

Page 78

### COCHRANE REVIEW SUMMARY

Prolonged Thromboprophylaxis With Low-Molecular-Weight Heparin for Abdominal or Pelvic Surgery

Adam S. Cooper

Page 81

### IN OUR UNIT

Staff Family Day in the Pediatric Intensive Care Unit

Rachel Black, Stacy Blackall, Chad Houseman, Morgan Roach, Caryn Steenland

Page 83

## ALSO IN THIS ISSUE

Contributors

Page 6

Letters to the Editor

Page 11

OnlineNOW Abstracts

Page 14

Book Reviews

Page 85

Acknowledgment of Reviewers

Page 87

Practice Pointers

Page 88