



PRELIMINARY PROGRAM

MARCH 23-26, 2019

PHOENIX CONVENTION CENTER, AZ

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nutritioncare.org/Conference2019

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THE PREMIER FORUM FOR CLINICAL NUTRITION RESEARCH AND EDUCATION

At the **ASPEN 2019 Nutrition Science & Practice Conference (ASPEN19)**, you'll immerse yourself in cutting-edge research, evidence-based clinical updates, and networking with nutrition experts from around the globe.

ASPEN19 allows you to customize your conference experience. Whether you're in Phoenix for the entire conference or just one day, you can create a schedule that suits your needs. We offer pre-conference courses, full conference registration, daily registration, and virtual conference registration.

Whatever your experience, we want you to leave ASPEN19 with the knowledge and best practices that will help you succeed, whether you're in academia, a hospital setting, homecare, or the corporate world.

“Attending the ASPEN conference updates me on the latest changes in evidence-based nutrition practice and any new publications or research that I might have missed over the past year, and it allows me to discuss the latest findings and practices with my U.S. and international colleagues.”

– S. McClave, MD, FASPEN
Professor of Medicine
University of Louisville
Louisville, KY



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and save \$300!**

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ASPEN EXPO: BRINGING TOGETHER RESEARCH, INFORMATION, AND INNOVATION

The ASPEN Expo is the largest exhibition of industry leaders in clinical nutrition. It's an excellent in-person forum where you can keep current on the newest research and products, meet with companies that directly impact the way you provide patient care, and network with colleagues.

Hear from experts presenting new product technology and science at Central Stage. Join in on discussions around the latest research on clinical nutrition at the Rapid Fire Research Presentations and Poster Presentations. Network with colleagues at the Opening Night Reception and during lunch breaks in the exhibit hall.

This year you can meet the following companies and more!*

Abbott	GE Healthcare	NeoMed
Alcor Scientific, Inc.	Hormel Health Labs	Nestlé Health Science
B. Braun Medical	InBody	OWYN (Only What You Need)
Baxter Healthcare Corporation	Kate Farms, Inc.	Pfizer
BrioRx Infusion Services	Mead Johnson	Real Food Blends
Cedic SRL	Medline	Shire
Cera Products, Inc.	Medtrition, Inc	The Oley Foundation
Coram / CVS Specialty Infusions Services	Miller Pharmacal Group	TSPC America, Inc.
COSMED	Moog Medical Devices Group	Wiley Publishing
Dale Medical Products		
Enteral UK		
Fresenius Kabi		
Functional Formularies		



*Current exhibitors as of August 30, 2018.

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- 2 Search ASPEN19 and download onto your phone or tablet

SCHEDULE AT-A-GLANCE*

FRIDAY, MARCH 22

7:45 AM – 4:00 PM	Clinical Nutrition: Practice Pearls for the Physician at Mayo Clinic, Scottsdale, AZ
4:00 PM – 7:00 PM	Registration Opens at Phoenix Convention Center and the Sheraton Grand Phoenix

SATURDAY, MARCH 23

6:00 AM – 7:30 PM	Registration Open
7:00 AM – 4:00 PM	Pre-conference Courses
1:30 PM – 3:30 PM	Corporate Satellite Symposia
4:30 PM – 5:45 PM	President's Address
5:45 PM – 7:30 PM	ASPEN Expo Opening Night Reception
7:30 PM – 9:30 PM	Corporate Satellite Symposia

SUNDAY, MARCH 24

6:00 AM – 7:30 AM	Corporate Satellite Symposia
7:00 AM – 6:00 PM	Registration Open
8:00 AM – 9:15 AM	Keynote Address
9:15 AM – 2:00 PM	ASPEN Expo Open
10:30 AM – 5:45 PM	Educational Sessions
12:00 PM – 1:15 PM	ASPEN Section Forums
12:15 PM – 1:15 PM	Rapid Fire Research Presentations
12:45 PM – 1:45 PM	Poster Presentations
5:45 PM – 7:00 PM	ASPEN Section Forums
7:00 PM – 9:00 PM	Corporate Satellite Symposia

MONDAY, MARCH 25

6:00 AM – 7:30 AM	Corporate Satellite Symposia
7:00 AM – 7:45 AM	Town Hall Meeting
7:00 AM – 6:00 PM	Registration
8:00 AM – 10:00 AM	Dudrick Research Symposium
10:00 AM – 2:30 PM	ASPEN Expo Open
10:30 AM – 5:45 PM	Educational Sessions
10:30 AM – 12:30 PM	Premier Paper Session and Vars Award Competition
12:00 PM – 1:15 PM	ASPEN Section Forums
12:45 PM – 1:45 PM	Rapid Fire Research Presentations
1:15 PM – 2:15 PM	Poster Presentations
5:45 PM – 7:00 PM	ASPEN Section Forums
7:00 PM – 9:00 PM	Corporate Satellite Symposia

TUESDAY, MARCH 26

6:00 AM – 7:30 AM	Corporate Satellite Symposia
7:00 AM – 12:00 PM	Registration Open
8:00 AM – 9:15 AM	Rhoads Research Lecture
9:45 AM – 4:00 PM	Educational Sessions
4:30 PM	ASPEN19 Concludes

*Schedule subject to change. Please visit nutritioncare.org/Conference2019 for the most recent information.

SPECIAL PRE-CONFERENCE COURSE

FRIDAY, MARCH 22, 2019
AT THE MAYO CLINIC, SCOTTSDALE, AZ

7:45 AM – 4:00 PM

Clinical Nutrition: Practice Pearls for the Physician

Taylor Auditorium

DESCRIPTION

This full day pre-conference course is organized by the ASPEN Physician Engagement Committee. The course is case-based with three focused sessions:

1. Critical Illness
2. Obesity and Wellness Promotion
3. Gastrointestinal/Surgical Nutrition

Each session will start with a case presentation and expert panel discussion. This will be followed by four state-of-the-art, 20-minute presentations on pertinent topics in the session focus area.

In addition to the three sessions, a special lunchtime Medical/Surgical Grand Rounds will be given by Stephen McClave, MD, FASPEN on the topic of “Critical Care Nutrition: What Strategies Actually Change Outcome?”

This course will be held the day prior to ASPEN19 at the Mayo Clinic, Scottsdale to allow residents, fellows and practicing physicians to easily attend and learn from the experts. While the course has been designed to introduce physicians to nutrition, all healthcare providers are welcome.

COURSE COORDINATORS

John DiBaise, MD

Ryan Hurt, MD

Stephen McClave, MD, FASPEN

CME credit information will be available at nutritioncare.org/Conference2019_Physicians by November 2018.

Course is held in collaboration with Mayo Clinic



Photo Courtesy of The Mayo Clinic

Register at nutritioncare.org/Conference2019_Physicians

PRE-CONFERENCE COURSES — SEPARATE REGISTRATION FEE REQUIRED

7:00 AM - 4:00 PM

Nutrition Support Fundamentals Course (NSFC-2019)

DESCRIPTION

ASPEN's Nutrition Support Fundamentals Course (NSFC) provides a comprehensive overview of nutrition support therapy. In addition to providing a thorough review of core nutrition support topics such as nutrition assessment and nutrient deficiencies, parenteral nutrition, enteral nutrition, fluids and electrolytes, and pediatrics, the NSFC will also include specialty areas of nutrition support such as home care, critical care, gastrointestinal disorders, ethics, and statistics. The course can be used as a tool for helping you identify personal knowledge gaps to further identify future areas of learning. Whether you are preparing for a certification examination or seeking additional professional growth in nutrition support, recognizing these knowledge gaps allows you to use your professional development time and energy more effectively. Don't miss this invaluable nutrition support-focused course!

TOPICS

- Assessment of Nutrient Deficiencies
- Fluids and Electrolytes and Acid-Base
- GI Physiology and Ethics
- PN and Home PN
- EN and Home EN
- Pediatrics and Neonatal
- Critical Care and Statistics
- EN and PN Access

LEARNING OBJECTIVES

1. Assess personal knowledge of nutrition support and identify areas requiring further study for a certification exam or other professional growth
2. Review core nutrition support topics including nutrient deficiencies, pediatric nutrition support, parenteral and enteral nutrition, and fluids and electrolytes

3. Highlight specialty areas of nutrition support such as home care, critical care, ethics, statistics, and gastrointestinal disorders

LEARNING LEVEL: Basic/Intermediate

UAN: JA0002345-0000-19-002-L04-P

CE CREDIT: 8 hours

Visit nutritioncare.org/conference2019 for up-to-date information.

7:00 AM - 4:00 PM

Parenteral Nutrition Order Writing Workshop (PNW-2019)

DESCRIPTION

The workshop is designed to train clinicians to assess a patient requiring parenteral nutrition (PN) and subsequently initiate and manage the PN therapy for that patient. The workshop will be offered in two sessions. The first will emphasize the basic concepts of PN order writing and management and the second will allow for application of the knowledge gained through work in small groups on sample patient cases with distinguished faculty experts.

Workshop capacity is limited to 40

participants, so register early. This small class size will be optimal for hands-on learning with the course faculty to ensure each participant completes the course with improved skills in creating and managing PN orders. Course registrants will receive a complimentary copy of the ASPEN *Parenteral Nutrition Workbook: Cases and Worksheets for Adult, Pediatric, and Neonatal Patients*.

FACULTY

Mary Petrea Cober, PharmD, BCNSP, BCPPS

Jessica Monczka, RD, LDN, CNSC

Ainsley Malone, MS, RD, LD, CNSC, FAND, FASPEN

Karrie Derenski, PharmD, BCNSP, BCCCP, CNSC

MODERATOR

Karrie Derenski, PharmD, BCNSP, BCCCP, CNSC



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The program overview provided is preliminary. For the most recent information, visit the website.
Pre-conference courses require a separate registration.

LEARNING OBJECTIVES

1. Create and write a PN formula according to the patient's nutrition assessment
2. Create a safe PN formula order per compounding and stability limits
3. Identify potential nutrient interactions in a PN solution and adjust the PN order accordingly
4. Manage PN in a patient from initiation to achieving the goal rate and beyond
5. Manage electrolytes in PN in the face of abnormal patient laboratory values and medications
6. Manage PN while accounting for differences in patient diagnoses and age

LEARNING LEVEL: Basic/Intermediate

UAN: JA0002345-0000-19-003-L04-P

CE CREDIT: 8 hours

7:00 AM - 11:00 AM

Postgraduate Course 1: Enhanced Recovery After Surgery (ERAS) (PG1-2019)

DESCRIPTION

Enhanced recovery after surgery (ERAS) is a program consisting of multimodal interventions in the perioperative period. ERAS programs have resulted in improvements in clinical outcomes and costs. Nutrition is one of several components of an ERAS program and this post graduate course will allow you to take a deeper dive into these nutritional components. Join us for an exploration into the fundamentals of ERAS, screening and improved outcomes, protein supplementation, and nutrition approaches for pain management for enhanced recovery.

LEARNING OBJECTIVES

1. Describe enhanced recovery after surgery (ERAS) and its importance in perioperative care
2. Identify parameters to effectively screening patients in the perioperative setting
3. Develop procedures to improve compliance with ERAS protocols

4. Define the most effective protein supplementation for both prehabilitation and perioperative optimization
5. Analyze the variety of nutritional approaches to pain management for enhanced recovery

FACULTY & TOPICS

Fundamentals of Enhanced Recovery – the How and Why

Franco Carli, MD

Screening and Improving Compliance with ERAS Protocols

David Evans, MD

Protein Supplementation for Prehabilitation and Perioperative Optimization

Chelsia Gillis, RD, PhD

Nutritional Approaches to Pain Management for Enhanced Recovery

Sadeq Quraishi, MD, MHA, MMSc

MODERATOR

Sadeq Quraishi, MD, MHA, MMSc

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-005-L04-P

CE CREDIT: 4 hours

7:30 AM - 4:00 PM

Research Workshop: The Relationship Between the Intestinal Barrier and Chronic Disease (RW-2019)

DESCRIPTION

In the U.S., 86% of the nation's \$2.7 trillion annual health care expenditures are for individuals with chronic and mental health conditions. A growing body of evidence indicates that a compromised intestinal epithelial barrier influences the incidence and severity of chronic diseases, such as type 1 and 2 diabetes and obesity, primary intestinal disorders such as celiac disease and inflammatory bowel disease, and neurologic disorders such as autism and Parkinson's disease. A healthy intestinal epithelium forms a barrier between the host and environment, and the intestinal microbiota educates and maintains the host intestinal health and immune system. An altered intestinal epithelial barrier allows

Continued on next page.



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SATURDAY, MARCH 23

translocation of antigens and pathogens from the intestinal lumen into the host. The translocation of antigens and pathogens promotes further intestinal epithelial barrier disruption leading to a systemic chronic inflammatory state associated with the development and persistence of disease. Despite growing evidence linking diet, environment, the intestinal epithelium, and inflammatory diseases, there is a gap between the science and healthcare policy and practice. This large gap presents an enormous opportunity to develop scientifically based strategies, healthcare policies and clinical guidelines to prevent and reduce the risk of chronic inflammatory diseases with the aim of developing interventions that promote an intact and healthy intestinal epithelium. To this end, it is crucial that health care providers understand how nutrition, environment, microbiota, and intestinal epithelium interact. This workshop addresses an important and evolving field of research with potential for clinical impact that you will not want to miss.

FACULTY & TOPICS

Welcome and Introductions

Kelly Tappenden, PhD, RD

Yimin Chen, PhD, RD, CNSC

Enid E. Martinez, MD

Overview of the Intestinal Epithelial Barrier

Jerrold Turner, MD, PhD

Intestinal Epithelial Barrier and the Human Microbiome

Gary D. Wu, MD

Role of Nutrition as a Modulator of Intestinal of Intestinal Barrier Health and Disease

Kelly Tappenden, PhD, RD

Intestinal Epithelial Barrier and Obesity/Metabolic Syndrome

Daniel Winer, MD

Intestinal Epithelial Barrier and Autoimmune Diseases

Alessio Fasano, MD

Intestinal Epithelial Barrier and the Neurologic System – Gut-Brain Axis

Brittany Needham, PhD

Circadian Rhythms and the Intestinal Barrier

Amir Zarrinpar, MD, PhD

Synthesis of Presentations/Panel Discussion

All faculty

MODERATORS

Yimin Chen, PhD, RD, CNSC

Enid E. Martinez, MD

LEARNING OBJECTIVES

1. Describe the properties and functions of the intestinal epithelial barrier
2. Describe how the microbiota and nutrition modulate the intestinal epithelial barrier
3. Summarize how the intestinal epithelial barrier impacts risk for various chronic inflammatory diseases
4. Evaluate the current literature on factors that influence intestinal epithelial barrier integrity
5. Explore opportunities for translational science from communication and collaboration among interdisciplinary researchers and clinicians that can bring about changes in health care practice and public policy relevant to the management and prevention of inflammatory-based chronic diseases

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-006-L04-P

CE CREDIT: 6.5 hours

12:00 PM - 4:00 PM

Nutrition for the Practicing Pediatric Clinician: Nutrition Support Challenges in the Intestinal Failure Patient (NPPC-2019)

DESCRIPTION

Patients with intestinal failure (IF) represent a challenging group. Their nutrition support and management need to be tailored based on the bowel segment resected, the amount of resection as well as underlying disease etiology. There is also ongoing debate for intestinal lengthening procedures and their timing for maximizing nutrient absorption. Enteral or parenteral nutrition support and their respective percentages to promote parenteral nutrition autonomy as well as the optimal surgical procedures to enable enteral nutrition delivery like gastrostomy / gastro-jejunostomy or jejunostomy tube and bolus versus continuous feeds present significant challenges. Challenges also remain in treating small bowel bacterial overgrowth as



Pediatric Content Included

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well as instituting gut motility modulators in such patients. Recent data also presents new evidence of alteration in nutrient absorption and assimilation based on influences by the gut microbiota, bile acids and systemic effects modulated by downstream targets with key gut luminal receptor activation. This preconference course will present current evidence supporting clinical practices and highlight potential pitfalls in the management of this patient population.

FACULTY & TOPICS

Overview of the Strategies for Enteral Autonomy

Jeffrey Rudolph, MD

Thinking Ahead: Nutrition Deficiencies in Patients with Short Bowel Syndrome

Samuel Kocoshis, MD

Route and Type of Enteral Nutrition and Enteral Supplements

Gail Cresci, PhD, RD, LD, CNSC

Small Bowel Bacterial Overgrowth and Motility Problems

Valeria Cohran, MD

Challenges in the Home Care of the Intestinal Failure Patient

Beth Lyman, RN, MSN, CNSC

Psychosocial Challenges in the Care of Patients with Intestinal Failure

Rebecca Johnson, PhD

Overview of Surgical Techniques for Short Bowel Syndrome and Intestinal Rehabilitation

Dave Mercer, MD, PhD, FRCS

New Horizons: Bugs, Drugs and Biomarkers in Intestinal Rehabilitation and Liver Injury – From the Lab to the Clinic

Ajay Jain, MD

MODERATORS

Charlene Compher, PhD, RD, CNSC, LDN, FAND, FASPEN

Timothy Sentongo, MD

LEARNING OBJECTIVES

1. Identify key pathophysiological changes affecting nutrition status based on the site and amount of bowel segment resected
2. Critically examine the current indications, timing, and nutritional consequences of bowel lengthening and other surgical procedures for patients with intestinal failure
3. Discuss implications of variances in enteral feeding like continuous vs bolus feeding, type of formula, route of nutrition delivery
4. Describe various medical therapies and the role of nutritional supplements (probiotics, pre-biotics, fiber) offered to improve enteral feeding tolerance with a goal of enteral autonomy
5. Summarize current basic and translational research alluding to the role of gut microbiota, bile acids and key gut signaling effecting nutrition outcomes in patients with intestinal failure

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-001-L01-P

CE CREDIT: 4 hours



2019 RESEARCH PRESENTATIONS

- 1 Poster Presentations
- 2 Nutrition and Metabolism Research Paper Sessions
- 3 Premier Paper Session and Vars Award Competition
- 4 Rapid Fire Research Presentations



Pediatric Content Included

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SATURDAY, MARCH 23

12:00 PM - 4:00 PM

Postgraduate Course 2: Critical Care – Update on Micronutrient Therapies in Sepsis (PG2-2019)

DESCRIPTION

The ASPEN Critical Care Post Graduate Course is the optimal course for physicians, dietitians, nurses, and pharmacists who work with critically ill patients. The 2019 course is no exception. Join your colleagues for an in-depth learning experience in critical care nutrition with an emphasis on micronutrient therapies in sepsis. The course will focus on thiamin, vitamin C, vitamin D, and coenzyme Q10.

LEARNING OBJECTIVES

1. Describe the role of Vitamin B1 (Thiamin) in sepsis and determine when to provide to patients
2. Identify which patients with sepsis would benefit from receiving Vitamin C
3. Describe the role of Vitamin D in critically ill patients with sepsis and determine appropriate amounts to provide
4. Summarize physiological changes to Coenzyme Q10 in sepsis and identify appropriate supplementation for patients in sepsis

FACULTY & TOPICS

Introduction

Sadeq Quraishi, MD, MHA, MMSc

Vitamin B1 (Thiamin)

Michael Donnino, MD

Vitamin C

Paul Marek, MD

Vitamin D

Sadeq Quraishi, MD, MHA, MMSc

Coenzyme Q10 (CoQ10)

Michael Donnino, MDc

MODERATOR

Sadeq Quraishi, MD, MHA, MMSc

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-004-L04-P

CE CREDIT: 4 hours



**DON'T FORGET TO VISIT
THE ASPEN BOOKSTORE
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MAIN CONFERENCE PROGRAMMING



Niles M. Mehta, MD

SATURDAY, MARCH 23

4:30 PM – 5:45 PM

**President's Address: Our Time is Now!
Creating a Path for the Future of the Nutrition
Field (R10)** 

DESCRIPTION

Join ASPEN's 43rd president, Niles Mehta, MD as he kicks off the ASPEN 2019 Nutrition Science & Practice Conference. Dr. Mehta is currently Director, Critical Care Nutrition, Associate Medical Director, and Director of Quality and Outcomes in the Medical Surgical ICU, Department of Anesthesiology, Critical Care and Pain Medicine at Boston Children's Hospital. He is Associate Professor in Anesthesia (Critical Care) at Harvard Medical School. Dr. Mehta's clinical and research focus is on metabolic and nutritional management of critically ill children and its impact on recovery. He has led large international studies, and clinical and translational research in the field of Pediatric Critical Care Nutrition. Dr. Mehta has over 100 publications and is the co-editor of the only textbook in this field. In 2015, Dr. Mehta received the ASPEN Stanley J. Dudrick Research Scholar Award which honors mid-career investigators who have demonstrated exceptional research productivity and the potential to continue to contribute to the field of nutrition therapy.

As an active member for 10 years, Dr. Mehta's contribution to ASPEN includes serving as Chair of the Pediatric Malnutrition Definition Working Group, Chair of the Corporate Scientific Advisory Council, Co-Chair of the Research Workshop, Society of Critical Care Medicine (SCCM) and ASPEN, Director on the ASPEN Board of Directors, Board Liaison to the Pediatric Intestinal Failure Section and Pediatric Section, and Chair of the SCCM/ASPEN Working Group for Pediatric Critical Care Nutrition Guidelines.

Dr. Mehta received his medical degree from the T.N. Medical College, University of Bombay, India. He completed his post-graduate training in pediatrics in the United Kingdom, and the Boston Combined Residency Program, Boston MA. Dr. Mehta completed a Critical Care Medicine Fellowship at Boston Children's Hospital, Boston, MA.

In his presidential address, Dr. Mehta will take us on a trip down memory lane to remind us of the beginning of ASPEN, review some of the milestones during its 40+ year history, describe the challenges and opportunities that lie ahead, and provide a framework for the next 50 years.

You will not want to miss Dr. Mehta's dynamic and engaging president's address!

FACULTY

Niles Mehta, MD, Director, Critical Care Nutrition, Associate Medical Director, MSICU, Director of Quality and Outcomes, Boston Children's Hospital; Associate Professor in Anesthesia, Harvard Medical School, Boston, MA

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-007-L04-P

CE CREDIT: 1 hour



Pediatric Content Included



Virtual Conference Session

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SUNDAY, MARCH 24

8:00 AM - 9:15 AM

Keynote Address (S10)

Session details to be announced soon! Visit nutritioncare.org/conference2019 for updated session information.

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-008-L04-P

CE CREDIT: 1 hour

10:30 AM - 12:30 PM

Demonstrating the Value of Nutrition (S20)

FACULTY & TOPICS

The State of Healthcare Financing

Albert Barrocas, MD, FACS, FASPEN

The ASPEN Value Project Background and Proposal

Peggi Guenter, PhD, RN, FAAN, FASPEN

The ASPEN Value Project Results and Implications

Renay Tyler, DNP, RN, ACNP

Optimizing Value through Standardized Malnutrition Diagnosis and Documentation

Cindy Hamilton, MS, RD, LD, FAND

MODERATOR

Albert Barrocas, MD, FACS, FASPEN

LEARNING OBJECTIVES

1. List three key differences between current fee-for-service reimbursement models and evolving proposed value-based risk/reward reimbursement models
2. Identify key components of the ASPEN Value Project related to value-based outcomes in specific disease states
3. Outline value opportunities of standardized malnutrition diagnosis and documentation

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-009-L04-P

CE CREDIT: 2 hours

10:30 AM - 12:30 PM

Nutrition to Improve Outcomes in Critical Illness (S21)

FACULTY & TOPICS

Nutrition and Survival: Results of The Augmented versus Routine Approach to Giving Energy Trial

Marianne Chapman, BMBS, PhD, FFARCSI, FANZCA, FJFICM

Nutrition and Muscle Mass: Results from a TARGET Sub-study

Lee-anne Chapple, BMedSci, MNutrDiet, PhD

The Role of Nutrition On Function, In Acute and Chronic Critical Illness, and Into Recovery

Zudin Puthuchery, MRCP, PhD, FFICM, FHEA

MODERATOR

Paul Wischmeyer, MD, EDIC

LEARNING OBJECTIVES

1. Analyze the evidence for caloric delivery on outcomes in critical illness
2. Summarize the most up-to-date evidence for augmented energy delivery from TARGET and apply these results into practice
3. Summarize the current literature around nutrition support in critical illness and acknowledge the limitations of published critical care nutrition trials to demonstrate a benefit of nutrition on ICU survivor outcomes
4. Examine the effect of critical illness on survival, muscle wasting, and function through the continuum of care from admission to rehabilitation
5. Describe techniques to measure body composition and functional status in response to a nutrition intervention

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-010-L01-P

CE CREDIT: 2 hours

10:30 AM - 12:00 PM

Innovative Nutritional Management of Inflammatory Bowel Disease (S22)

FACULTY & TOPICS

Current Perspectives on Diet and the Gut Microbiome in Inflammatory Bowel Disease

Gary Wu, MD

Nutritional Therapies for Inflammatory Bowel Disease

Dale Lee, MD, MSCE

Practical Implementation, Monitoring, and Support to Families on Exclusion Diets for IBD

Kimberly Braly, RD

MODERATOR

Timothy Sentongo, MD

LEARNING OBJECTIVES

1. Identify individuals who are at risk for development of Crohn's disease and ulcerative colitis
2. Articulate the mechanisms behind the nutritional management of inflammatory bowel disease
3. Administer and monitor nutritional therapies in patients with inflammatory bowel disease
4. Compare the efficacy of various nutritional therapies in inflammatory bowel disease

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-011-L01-P

CE CREDIT: 1.5 hours

10:30 AM - 12:00 PM

Nutrition Education of Health Professionals (S23)

FACULTY & TOPICS

History of Nutrition Education – Physician's Perspective

Douglas Seidner, MD, AGAF, FAGG, FASPEN, CNSC

History of Nutrition Education – Health Care Practitioner Perspective

Gordon Sacks, PharmD, BCNSP, FASPEN, FCCP

Impact of the Lack of Nutrition Knowledge on Patient Outcomes (Quality, Safety, and Cost) and Remedies to Address Knowledge Gaps

Rose Ann Dimaria-Ghalili, PhD, RN, CNSC, FASPEN, FAAN

MODERATOR

Jay Mirtallo, MS, RPh, BCNSP, FASHP, FASPEN

LEARNING OBJECTIVES

1. Describe the impact of poor nutrition knowledge on outcomes of patients, organizational performance (morbidity, mortality, LOS, 30 day readmission), and safety
2. Discuss several approaches to address the nutrition knowledge gap in health systems
3. Advise your organization on approaches to address the problem of poor/inconsistent nutrition knowledge by healthcare practitioners

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-012-L04-P

CE CREDIT: 1.5 hours

Presented by ASPEN Fellows



EXPAND YOUR NETWORK

Join one of ASPEN's 31 state and regional Chapters

and get involved locally. Attend an ASPEN Section Forum on-site and engage with experts in 16 Practice and Specialty Sections. See how collaborating with your peers can make all the difference for you and your patients.

nutritioncare.org/chapters
nutritioncare.org/sections



Pediatric Content Included



Virtual Conference Session

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SUNDAY, MARCH 24

10:30 AM - 12:00 PM

Growing Up and Thriving with Nutrition Support (S24)

FACULTY & TOPICS

Nutrition Support of the Neonate

Maura Sandrock, MS, RDN, CD

Life at Home with Nutrition Support

Steven Plogsted, PharmD, BCNSP, CNSC

Nutrition Support in an Educational/School Setting

David Keeler, RN, BSN, CPN

Transitioning From Adolescence Into Adulthood with Nutrition Support

Rebecca Johnson, PhD

MODERATOR

David Keeler, RN, BSN, CPN

LEARNING OBJECTIVES

1. Identify the nutrition support needs of a neonatal patient
2. Determine the nutrition support needs of a pediatric patient and their caregivers when discharging from the hospital with nutrition support
3. Integrate the medical needs of the school age child into the school setting
4. Examine the complexities of transitioning into adolescence and establishing medical independence going into adulthood

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-013-L04-P

CE CREDIT: 1.5 hours

2:00 PM - 3:30 PM

Nutrition and Metabolism Research Paper Sessions (S30-35)

DESCRIPTION

Today's medical environment demands evidence-based practice, replicable results, and improved patient outcomes. Our abstract authors conduct research to help meet these challenges and provide breakthroughs in our knowledge and in our patient care. These sessions are dedicated to presentations

of high-ranking abstracts. The abstracts will be presented by topic, so you can explore cutting-edge research on issues that interest you. The abstracts will also be published in the *Journal of Parenteral and Enteral Nutrition (JPEN)*, making them a part of the body of evidence you have to guide your clinical patient care.

LEARNING LEVEL: Advanced

Parenteral Nutrition

UAN: JA0002345-0000-19-014-L04-P

Enteral Nutrition

UAN: JA0002345-0000-19-015-L04-P

Malnutrition, Obesity, and Practice Concepts

UAN: JA0002345-0000-19-016-L04-P

Critical Care and Other Critical Health Issues

UAN: JA0002345-0000-19-017-L04-P

GI and Other Metabolic Topics

UAN: JA0002345-0000-19-018-L04-P

Pediatric and Neonatal

UAN: JA0002345-0000-19-019-L04-P

CE CREDIT: 1.5 hours each

2:00 PM - 3:30 PM

Basic Skills in Parenteral Nutrition Management (S36)

DESCRIPTION

Nutrition support clinicians require vital basic information to safely and effectively deliver parenteral nutrition to patients. This lab is set up to allow participants to move among stations to hear focused, interactive presentations or walk through cases to enhance clinical practice skills.

FACULTY & TOPICS

Is Parenteral Nutrition Appropriate? Using Evidence-based Recommendations to Support Clinical Practice

Renee Walker, MS, RD, LD, CNSC, FAND

My Access Is Compromised, Now What!

Antoinette Neal, RN, BSN, CRNI, CNSC, VA-BC

Sodium, Water, Both, or None: Fluid Assessment and Sodium Homeostasis in Parenteral Nutrition Patients

Anne Tucker, PharmD, BCNSP



Pediatric Content Included



Virtual Conference Session

REGISTER AT [NUTRITIONCARE.ORG/CONFERENCE2019](https://nutritioncare.org/conference2019)

The program overview provided is preliminary. For the most recent information, visit the website.

Navigating the Intravenous Lipid Emulsion Literature:
Understanding the Types and Uses of Lipid Therapy

Jacob Hall, PharmD, BCNSP

To Add or Not to Add: Treatment of Potassium and
Magnesium Imbalances in the PN Patient

Jessica Monczka, RD, LDN, CNSC

To Add or Not to Add: Treatment of Potassium and
Magnesium Imbalances in the PN Patient

Karrie Derenski, PharmD, BCNSP, BCCCP, CNSC

It's All About the Acid-base, No Trouble: Identification
and Treatment of Acid-base Disorders

Angela Bingham, PharmD, BCPS, BCNSP, BCCCP

Walking the Tightrope: Balancing Calcium and
Phosphorus in the PN Patient

Mary Petrea Cober, PharmD, BCNSP, BCPPS

Compounding Strategies, Compatibility Concerns, and
Use of Standardized Commercially Available Products
for Parenteral Nutrition Therapy

Joseph Ybarra, PharmD, BCNSP

MODERATOR

Karrie Derenski, PharmD, BCNSP, BCCCP, CNSC

LEARNING OBJECTIVES

1. Recognize appropriate candidates for parenteral nutrition therapy
2. Identify assessment and treatment strategies to manage fluid, electrolytes, and acid-base disorders in parenteral nutrition patients
3. Create a safe parenteral nutrition formulation per compound and stability limits
4. Choose the appropriate instances for use of standardized commercially available parenteral nutrition products
5. Distinguish the differences between and uses of lipid intravenous emulsions

LEARNING LEVEL: Basic

UAN: JA0002345-0000-19-020-L04-P

CE CREDIT: 1.5 hours

3:45 PM - 5:45 PM

**Metabolic Support in the Era of
Parenteral Nutrition Component
Shortages (S40)**

FACULTY & TOPICS

Fluid and Electrolytes

Roland Dickerson, PharmD, BCNSP, FASPEN

Amino Acids, Trace Minerals, and Cysteine

Steven Plogsted, PharmD, BCNSP, CNSC

Resources for Managing Shortages of PN
Components and Multi-component Products

Beverly Holcombe, PharmD, BCNSP, FASHP, FASPEN

MODERATOR

Roland Dickerson, PharmD, BCNSP, FASPEN

LEARNING OBJECTIVES

1. Identify resources for developing policy and procedures for managing PN component and multi-component product shortages
2. Discuss therapeutic options for providing PN components including electrolytes and minerals, amino acids, trace minerals, and cysteine during shortages
3. Evaluate the feasibility and safety of choices in parenteral nutrition components and multi-component products

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-021-L04-P

CE CREDIT: 2 hours

3:45 PM - 5:45 PM

**Demystifying Organic, GMO, and
Blenderized Tube Feeding (S41)**

FACULTY & TOPICS

What is all the Hype with GMOs and Organic Foods?

Mark Corkins, MD, SPR, FAAP, AGAF

Real Food in the Tube

Elizabeth Bobo, MS, RD, LDN, CNSC

The Science Behind GMOs

Bruce Chassy, PhD

MODERATOR

Kelly Green Corkins, MS, RD-AP, CSP, LDN, FAND

Continued on next page.

SUNDAY, MARCH 24

LEARNING OBJECTIVES

1. Articulate the definition of organic foods and genetically modified organisms and state the positive versus the negative aspects each.
2. Describe the blenderized diet through the g-tube including requirements, risks, and benefits
3. Determine if a real-food based formula is appropriate to the specific patient and meets all nutrition needs if the sole source of nutrition

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-022-L04-P

CE CREDIT: 2 hours

3:45 PM - 5:15 PM

Nutrition Focused Patient-Centered Care to Optimize Outcomes (S42)

FACULTY & TOPICS

Patient/Family-Centered Care: Implications for Clinical Nutrition Research and Practice

Daren Heyland, MD, MSc

Using the Mealtime Audit and My Meal Intake Tools to Ameliorate Barriers to Food Intake for Individual Medical Patients

Heather Keller, RD, PhD, FDC

Enhanced Recovery After Surgery (ERAS) - Engaging Patients

Leah Gramlich, MD, FRCP

MODERATOR

Roseann Nasser, MSc, RD

LEARNING OBJECTIVES

1. Utilize tools created to promote patient/family engagement in their nutrition care on medicine, surgical and intensive care units
2. Demonstrate how the tools can be used to optimize patient-centered care
3. Determine how patient-centered nutrition care can improve patient-reported health outcomes

LEARNING LEVEL: Basic

UAN: JA0002345-0000-19-023-L04-P

CE CREDIT: 1.5 hours

3:45 PM - 5:45 PM

Effective Strategies for Maintaining Nutritional Status in Oncology (S43)

FACULTY & TOPICS

Medical Cannabis for Oncology Patients: Pearls of Wisdom

Kelay Trentham, MS, RDN, CSO

Protein Nutrition and Protein Anabolism in Patients with Cancer

Vickie Baracos, PhD

Recent Advances for Assessing Body Composition in Oncology

Carla Prado, PhD, RD

Nutritional Care in Oncogeriatrics

Stéphane Schneider, MD, PhD, FEBGH

MODERATOR

Mary Marian, DCN, RDN, CSO, FAND

LEARNING OBJECTIVES

1. Summarize the evidence pertaining to cannabis use for cancer symptom management
2. Determine three or more clinical safety considerations when discussing cannabis use with cancer patients
3. Identify windows of opportunity for protein nutrition across the treatment plan as well as supportive care measures for optimal protein anabolism
4. Analyze the recent evidence of the relevance of body composition in oncology
5. Describe how to screen and assess for malnutrition in older adults with cancer
6. Describe the nutritional support options for older adults with cancer

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-024-L01-P

CE CREDIT: 2 hours

3:45 PM - 5:15 PM Roundtables (RT1)

Discuss specific nutrition support topics during the Roundtables. Tables will be organized by topic and participants will have an opportunity to interact in small groups with faculty and peers. Each faculty presenter will meet groups for 25 minutes before participants are asked to move to another table for discussion on a different topic. Participants will have an opportunity to visit three tables.

LEARNING LEVEL: Basic for all Roundtables

UAN: No pharmacy credit

CE CREDIT: 1.5 hours for full session (3 roundtables)

TABLE A. A-B-Gs - As Easy As 1-2-3 (RT1-A)

LEARNING OBJECTIVES

1. Determine whether the pH level indicates acidosis or alkalosis
2. State whether the cause of the pH imbalance is respiratory or metabolic
3. Identify if there is any compensation for the acid-base imbalance

Lorraine Franzi, MS/HSM, RDN, LDN, CNSC

TABLE B. The Pros and Cons of Stress Ulcer Prophylaxis in Critical Illness: Who, What, When, and Why? (RT1-B)

LEARNING OBJECTIVES

1. Recognize the background and significance of stress ulcer prophylaxis, including the basic physiology of stress ulcers and gastric acid secretion
2. Identify the indications and risk factors for stress-related mucosal injury of the GI tract
3. Describe potential adverse events associated with acid suppressive therapy

Ben Albert, MD

Kimberly Mills, MD

TABLE C. Is There Enough Perfusion to Feed? Nutrition Assessment and Practices for Patients in Circulatory Compromise (RT1-C)

LEARNING OBJECTIVES

1. Describe the current evidence and guidelines for enteral nutrition in critically ill ICU patients in circulatory failure on vasoactive agents
2. Assess perfusion goals based on etiology of shock and use those variables to form a nutrition plan
3. Strategize on how to optimize future feeding practices and quality improvement efforts in the ICU based on past feeding trends/patterns

Ranna Modir, RD, CNSC, CDE

TABLE D. Micromanaging Micronutrients (RT1-D)

LEARNING OBJECTIVES

1. Analyze clinical findings suggesting a micronutrient deficiency
2. Determine the appropriate testing to assess for a micronutrient deficiency

Kyle Hampson, PharmD, BCNSP, CNSC

Presented by the ASPEN Pediatric Section

TABLE E. Defining, Managing, and Troubleshooting High Ileostomy Output (RT1-E)

LEARNING OBJECTIVES

1. Describe conditions that may require ileostomy and define high ileostomy output
2. Evaluate changes in physiology that accompany ileostomy
3. Discuss nutritional management and pharmacologic management of high ileostomy output
4. Solve challenging cases illustrating interventions

Candi Jump, DO, MSEd

Katherine Chessman, PharmD, FPPAG, FCCP, BCPS, BCNSP



Pediatric Content Included



Virtual Conference Session

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TABLE F. Nutrition Support in Neuromuscular Disease - A Balancing Act (RT1-F)

LEARNING OBJECTIVES

1. Identify the energy balance challenges in ALS and list the factors increasing metabolic demands and limiting energy consumption
2. Utilize evidence-based practice guidelines for nutritional management of ALS, and discover opportunities for further research to improve nutrition status of people living with neuromuscular diseases

Karen Martin, MA, RDN, LD, FAND

Jason Rocha, MD

TABLE G. Educating Patients and Families for Home Nutrition Support (RT1-G)

LEARNING OBJECTIVE

Describe family and patient education strategies regarding access device issues (fever and thrombosis), metabolic complications (hypoglycemia and electrolyte abnormalities), and ostomy care practices in pediatric and adult patients

Diane Barsky, MD

Presented by the ASPEN Pediatric and Home and Alternate Site Care Sections

TABLE H. Alternate Site of Care Challenges for Nutrition Support: Are We in Jeopardy? (RT1-H)

LEARNING OBJECTIVES

1. Define the factors that can create challenges for a nutrition support patient in the alternate sites of care
2. Identify challenges faced in different alternate care environments and different patient groups
3. Describe strategies to successfully support patients facing challenges in the alternate site of care

Faculty to be announced soon! Visit nutritioncare.org/conference2019 for updated faculty information.

Presented by the ASPEN Home and Alternate Site Care Section

TABLE I. Interprofessional Approach to Gastrointestinal Graft versus Host Disease Management (RT1-I)

LEARNING OBJECTIVES

1. Describe the clinical manifestations, treatment plan, and diet progression of gastrointestinal graft versus host disease
2. Identify the potential clinical factors for hyperglycemia in graft versus host disease patients
3. Recognize the necessity for a multidisciplinary team approach for managing normal blood glucose levels for gastrointestinal graft versus host disease patients receiving parenteral nutrition

Marisa Mozer, MS, RD, LDN, CNSC

TABLE J. The Skinny on Fat Malabsorption (RT1-J)

LEARNING OBJECTIVES

1. Recognize the symptoms of fat malabsorption
2. Determine the appropriate dosing and administration of pancreatic enzyme replacement therapy (PERT)

Meghan Laszlo, MS, RD, CSO

Arlene Provisor, MHA, RDN, CSO, CNSC

RESERVE YOUR HOTEL ROOM NOW!

March is a busy time in Phoenix and rooms will go quickly.

ASPEN has reserved rooms at a discounted rate at two hotels close to the Phoenix Convention Center.

- Sheraton Grand Phoenix Headquarters Hotel
- Hyatt Regency Phoenix

Details on page 36.



Pediatric Content Included



Virtual Conference Session

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Gail A. Cresci, PhD

8:00 AM - 10:00 AM

Dudrick Symposium - Targeted Approaches for In Situ Gut Microbiome Manipulation Care (Small Peptides) (M10)

DESCRIPTION

The 2018 Dudrick Award winner, Gail A. Cresci, PhD, RD, LD, CNSC, has the honor of planning the Dudrick Research Symposium at ASPEN19. Dr. Cresci is an army veteran who has worked in the field of nutrition for over 26 years as a clinical nutrition support dietitian and a translational researcher. She is currently an assistant professor with a joint appointment in both the Department of Gastroenterology/Hepatology and the Department of Pathobiology, the nutrition thread leader at the Cleveland Clinic Lerner College of Medicine, and a gastroenterology researcher at the Louis Stokes Cleveland VA Medical Center.

Dr. Cresci's received a bachelors in dietetics from the University of Akron and a doctorate in biomedical sciences from the Medical College of Georgia. Dr. Cresci spent 17 years at the Medical College of Georgia, starting as an associate professor and eventually becoming the director of Surgical Nutrition Services in the Department of Surgery. She joined the Cleveland Clinic in 2010 to direct research in the Clinic's Center for Human Nutrition while continuing to build her research program.

Dr. Cresci conducts critical lab-based science and clinical research, focusing on the gut microbiota. Her research includes animal models of ethanol-induced gut-liver injury, as well as antibiotic-induced intestinal and immune dysfunction, with an emphasis on the growth of *Clostridium difficile*. With these models, she is working to develop targeted probiotic and prebiotic therapies to mitigate disease.

Dr. Cresci is actively involved with ASPEN as an editorial board member and reviewer for *Nutrition in Clinical Practice*, as well as an editorial reviewer for the *Journal of Parenteral and Enteral Nutrition*. She is also an associate editor for the *Journal of the American College of Nutrition*. Dr. Cresci has been recognized many times for her excellence in research and clinical practice. In addition to her 2018 Stanley J. Dudrick Research Scholar Award, she received the 2015 Distinguished Service Award from Dietitians in Nutrition Support Practice Group of the Academy of Nutrition and Dietetics.

Dr. Cresci is sure to plan an invigorating symposium that you will not want to miss!!

LEARNING OBJECTIVES

1. Describe the role of the human gut microbiota in health and disease and factors influencing its composition
2. List health aspects of prebiotics and what can they do in terms of gut functionality
3. Analyze data on nutritional-based approaches for targeting gut dysbiosis and mitigating pathology
4. Describe the CRISPR-Cas9 system as a means to target the gut microbiome

FACULTY & TOPICS

Prebiotics and Gut Health: Friends in Low Place

Glen Gibson, PhD

Targeted Symbiotic Supplementation: Arsenal Against Gut Microbiome Attacks

Gail Cresci, PhD, RD, LD, CNSC

CRISPR-Cas9 Technology in Food and Gut Bacterial Spectrum

To Be Determined

MODERATOR

Gail Cresci, PhD, RD, LD, CNSC

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-025-L04-P

CE CREDIT: 2 hours



Pediatric Content Included



Virtual Conference Session

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MONDAY, MARCH 25

10:30 AM - 12:30 PM

Premier Paper Session and Vars Award Competition (M20)

DESCRIPTION

ASPEN is dedicated to advancing the science and practice of clinical nutrition and metabolism. This session features the best peer-reviewed research abstracts submitted for inclusion in the ASPEN19 conference. This is your opportunity to hear firsthand about the latest research that helps shape clinical practice in nutrition support.

All the individuals who give presentations during this session are vying for the prestigious Harry M. Vars Award. This award serves as a tribute to Dr. Vars and his pioneering developments in parenteral nutrition and is given annually for the best original research presentation by an early-career investigator at the ASPEN conference. The award recipient will be determined on site by votes submitted by ASPEN19 conference participants and by the ASPEN Research Committee's thorough review of manuscripts submitted by qualified candidates as well as the candidates' onsite presentations. The award recipient will be announced at the Rhoads Research Lecture and Award Ceremony on Tuesday morning. Come cheer on the candidates and hear the best of the best research at ASPEN19!

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-026-L04-P

CE CREDIT: 2 hours

10:30 AM - 12:30 PM

Enteral Access Management - A Refresher Course on Enteral Access Feeding Devices (M21)

DESCRIPTION

It is imperative and crucial for the nutrition support clinician to be able to identify the various enteral access feeding devices available to prevent complications such as: misconnections, dislodgments, injury and death related to enteral access feeding devices among adults and children. This course will provide hands-on experience for both seasoned and novice nutrition support clinicians on

the management and prevention of complications related to enteral access feeding devices, for adults and children.

FACULTY & TOPICS

ENFit® Updates

Beth Lyman, RN, MSN, CNSC

Peggi Guenter, PhD, RN, FAAN, FASPEN

Adult Gastrostomy Tube Site Management

Debbie Johnson, MS, RN, CWON

Pediatric Gastrostomy Tube Site Management

Katina Rahe, BSN, RN, CPN

Medication Administration Via Enteral Access Feeding Devices

Linda Lord, NP, CNSC, ACNP-BC

Joseph Boullata, PharmD, RPh, BCNSP, FASPEN, FACN

Complications of Enteral Access Devices

David Evans, MD

Placement of Enteral Access Devices

Matthew Bechtold, MD

Nasogastric/Nasojejunosomy Access Devices Issues

Patricia Worthington, MSN, RN, CNSC

MODERATOR

Douglas Nguyen, MD

LEARNING OBJECTIVES

1. Describe various methods of medication administration through enteral access feeding devices
2. Recognize adult and pediatric enteral access feeding devices complications and management
3. Discuss updates on issues related to ENFit® accessories
4. Describe methods of securement and placement of enteral access feeding devices

LEARNING LEVEL: Basic

UAN: JA0002345-0000-19-027-L04-P

CE CREDIT: 2 hours

Presented by the ASPEN Nutrition Support Nurses Section



Pediatric Content Included



Virtual Conference Session

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2:30 PM - 4:00 PM

A Year in Review: Most Influential Papers (M30)

Details to be announced soon!

Visit nutritioncare.org/conference2019 for up-to-date information.

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-028-L04-P

CE CREDIT: 2 hours

2:30 PM - 4:00 PM

Tight Glucose Control in Pediatric Critical Care: More Food for Thought! (M31)

FACULTY & TOPICS

Tight Glucose Control in Critically Ill Children - A Bitter Sweet Pill to Swallow!

Vijay Srinivasan, MBBS, MD, FCCM

Nutrition Support and Tight Glucose Control in Children - In Gut We Trust!

Katri Typo, MD

Hypoglycemia and the Pediatric Brain in Survivors of Tight Glucose Control - Flying Through the Danger Zone!

Vince Faustino, MD

MODERATOR

Michael Augus, MD

LEARNING OBJECTIVES

1. Describe the science of the randomized controlled trials of tight glucose control in critically ill children
2. Examine the impact of enteral and parenteral nutrition support on differences in observed outcomes in trials of tight glucose control in critically ill children
3. Summarize the long-term implications of hypoglycemia from tight glucose control on neurodevelopmental outcomes in pediatric ICU survivors

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-029-L04-P

CE CREDIT: 1.5 hours

2:30 PM - 4:00 PM

Patient Safety, Organizational Practices, and the Legal System (M32)

FACULTY & TOPICS

What is Best Practice for Nasogastric Feeding Tube Placement in Children

Sharon Irving, PhD, CRNP, FCCM, FAAN

Parenteral Nutrition Safety: How About Administration?

Phil Ayers, PharmD, BCNSP, FASHP

Legal Considerations in Nutrition Care

Frederick Cummings, JD

MODERATOR

Beth Lyman, RN, MSN, CNSC

LEARNING OBJECTIVES

1. Explain the components of the best practice document created by the NOVEL project for NG tube placement verification in children
2. Describe standards currently under development regarding safe administration of parental nutrition
3. Define the terms malpractice, negligence, and expert witness and how the above guidelines could be used in a court case

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-030-L04-P

CE CREDIT: 1.5 hours

Presented by the ASPEN Nutrition Support Nurses Section

COMPLIMENTARY NETWORKING LUNCHES

Join your colleagues for complimentary networking lunches in the ASPEN Expo on Sunday, March 24 and Monday, March 25 from 12:00 PM - 2:00 PM.



MONDAY, MARCH 25

2:30 PM - 4:00 PM

Tales from the Gut – The Nutrition Story: Transcriptome, Metabolome, and Microbiome (M33)

FACULTY & TOPICS

Simplifying the 'omics' in Nutrition Care

Kelly Tappenden, PhD, RD, FASPEN

Gut-systemic Cross Talk: Deciphering the Code

Ajay Jain, MD

Impact of Malnutrition on the Human Metabolome and Proteome

Michael Barratt, PhD

MODERATOR

Charlene Compher, PhD, RD, CNSC, LDN, FAND, FASPEN

LEARNING OBJECTIVES

1. Describe nutritional genomics and its components
2. Discuss the basics of gut-systemic cross talk and its implication in nutrition
3. Summarize the impact of diet influences on gene expression
4. Explain nutritional metabolomics

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-031-L04-P

CE CREDIT: 1.5 hours

2:30 PM - 4:00 PM

Competency Training: Optimizing Practice as a Nutrition Support Clinician in the Modern Era (M34)

FACULTY & TOPICS

Elevating Nutrition Support Practice as a Physician by Capitalizing on the Interdisciplinary Dynamic

Sadeq Quraishi, MD, MHA, MMSc

Parenteral Nutrition Competency – The Pharmacist Perspective

Allison Blackmer, PharmD, BCPS, BCPPS

Order Writing Practices by Dietitians: How and What

Ainsley Malone, MS, RD, LD, CNSC, FAND, FASPEN

MODERATOR

Peggi Guenter, PhD, RN, FAAN, FASPEN

LEARNING OBJECTIVES

1. Describe the current landscape of nutrition support education for MDs, PharmDs, RNs, and RDs
2. Summarize current literature and national guidelines regarding nutrition support competency training
3. Identify current nutrition support practices among different practice settings
4. Design an interdisciplinary approach to incorporate optimal nutrition support training, appropriate standards of practice, and order writing designation under applicable state licensure regulations

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-032-L04-P

CE CREDIT: 1.5 hours

2:30 PM - 4:00 PM

Recognizing and Managing Sarcopenia in Older Adults (M35)

FACULTY & TOPICS

Nutritional Interventions to Accelerate Recovery from Hospitalization in Older Adults

Elena Volpi, MD, PhD

CT Scan-derived Diagnosis of Sarcopenia

Carla Prado, PhD, RD

Bioimpedance Phase Angle as a Strategy for Identification of Sarcopenia

Matthias Pirlich, MD

MODERATOR

Gordon Jensen, MD, PhD

LEARNING OBJECTIVES

1. Articulate updated knowledge of the influence of nutrition and physical activity on recovery in hospitalized elderly patients with sarcopenia
2. Describe the use of CT scan data for detection of sarcopenia
3. Explain bedside methods of detecting sarcopenia in clinical populations

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-033-L01-P

CE CREDIT: 1.5 hours



Pediatric Content Included



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4:15 PM - 5:45 PM

Multi-national Perspectives on Malnutrition Diagnosis (M40)

FACULTY & TOPICS

Review of GLIM Approach to Diagnosing Malnutrition in Hospitalized Adult Patients

Gordon Jensen, MD, PhD

Comparison of Malnutrition Diagnostic Criteria with those for Cachexia and Sarcopenia Syndromes

Tommy Cederholm, MD, PhD

Body Composition and Calf Circumference as Components of Malnutrition Diagnosis - Latin Perspectives

Maria Cristina Gonzalez, MD, PhD

Body Mass Index and Calf Circumference Thresholds in Asian Hospitalized Adults

Takashi Higashiguchi, MD, PhD

MODERATORS

Charlene Compher, PhD, RD, CNSC, LDN, FAND, FASPEN

Veeradej Pisprasert, MD, PhD

LEARNING OBJECTIVES

1. Explain the development of and rationale for GLIM adult malnutrition diagnostic criteria
2. Articulate the contrasts between malnutrition, cachexia and sarcopenia
3. Compare the body composition, calf circumference, and body mass index criteria used in various countries

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-034-L04-P

CE CREDIT: 1.5 hours

Session presented collaboratively by ASPEN, the Latin American Federation of Nutritional Therapy, Clinical Nutrition, and Metabolism (FELANPE), the Parenteral and Enteral Nutrition Society of Asia (PENSA), and the European Society for Clinical Nutrition and Metabolism (ESPEN)

4:15 PM - 5:45 PM

The Right to Eat: Balancing Risk and Harnessing Opportunities (M41)

FACULTY & TOPICS

Balancing the Risk of Aspiration with Health and Nutrition: Does Feeding Fit?

Gina Rempel, MD, FRCPC

Quality of Life and the Right to Eat: It's More Than Meets the Mouth

Cindy Dodds, PhD

Ready to Eat?: Caregiver Training Improves Feeding Safety

Marianne Gellert-Jones, MA, CCC-SLP

Looking at Cases to Develop Combined Enteral and Oral Nutrition Care Plans: Putting Your Best Mouth Forward

Barb Borton, MSc, OTM

MODERATOR

Gina Rempel, MD, FRCPC

LEARNING OBJECTIVES

1. Elucidate the risks of oral feeding in different care settings
2. Identify ways to mitigate some of the risks of aspiration
3. Articulate the importance of feeding training in fostering participation in feeding for children with a variety of feeding competencies

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-035-L04-P

CE CREDIT: 1.5 hours

Presented by the ASPEN Pediatric Section

4:15 PM - 5:45 PM

Therapeutic Applications of Nutritional Ketosis (M42)

FACULTY & TOPICS

Nutritional Ketosis and its Application to the Management of Type 2 Diabetes

Steve Phinney, MD, PhD

The Effects of Keto-adaptation on Blood Lipids and Fat Oxidation at Rest and During Exercise

Jeff Volek, PhD, RD

Continued on next page.



Pediatric Content Included



Virtual Conference Session

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MONDAY, MARCH 25

MODERATOR

Leah Gramlich, MD, FRCP

LEARNING OBJECTIVES

1. Define nutritional ketosis and keto-adaptation
2. Describe epigenetic effects of nutritional ketosis and keto-adaptation
3. Identify the effects of nutritional ketosis and keto-adaptation on type 2 diabetes
4. Summarize the effects of keto-adaptation on fat oxidation
5. Discuss the potential roles of ketone supplements in health and sport

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-036-L04-P

CE CREDIT: 1.5 hours

4:15 PM - 5:45 PM

Disaster Strikes! Learning to Avoid a Crisis (M43)

FACULTY & TOPICS

Disaster Strikes: Are You Prepared?

Kevn McNamara, PharmD, CPS, CNSC, PRS, CVAA(c)

Disaster Strikes: How Do You Respond?

Bill Drake, PharmD

Brenda Gray, PharmD, RPH, BCNSP, CNSC

MODERATOR

Kevn McNamara, PharmD, CPS, CNSC, PRS, CVAA(c)

LEARNING OBJECTIVES

1. Identify common disasters that impact nutrition support practices and patients and describe the key components of a successful disaster plan
2. Evaluate gaps that were found in plans during recent disasters and how lessons learned by those practices and patients can be applied to other practices and delineate steps to evaluate and strengthen disaster planning and recovery
3. List resources that should be considered for inclusion in a disaster plan and/or disaster response kit

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-037-L04-P

CE CREDIT: 1.5 hours

Presented by the ASPEN Home and Alternate Site Care Section

RAPID FIRE RESEARCH PRESENTATIONS

Back for a second year, selected abstracts will be presented at lightning speed, giving you a quick glimpse into the variety of research that is taking place in the field.



 Pediatric Content Included

 Virtual Conference Session

REGISTER AT [NUTRITIONCARE.ORG/CONFERENCE2019](https://www.nutritioncare.org/conference2019)

The program overview provided is preliminary. For the most recent information, visit the website.

4:15 PM - 5:45 PM Roundtables (RT2)

DESCRIPTION

Discuss specific nutrition support topics during the Roundtables. Tables will be organized by topic and participants will have an opportunity to interact in small groups with faculty and peers. Each faculty presenter will meet groups for 25 minutes before participants are asked to move to another table for discussion on a different topic. Participants will have an opportunity to visit three tables.

LEARNING LEVEL: Basic for all Roundtables

UAN: No pharmacy credit

CE CREDIT: 1.5 hours for full session (3 roundtables)

TABLE A. Quality Improvement: How to Involve Students and Trainees (RT2-A)

LEARNING OBJECTIVES

1. Recognize the mutual benefits of involving students and trainees in quality improvement
2. Describe strategies to involve students and trainees in quality improvement

Diana Solomon, PharmD

Angela Bingham, PharmD, BCPS, BCNSP, BCCCP

TABLE B. Nutrition in Pediatric and Young Adult Oncology and Stem Cell Transplant Patients (RT2-B)

LEARNING OBJECTIVES

1. Discuss the role of supportive care in oncology and stem cell transplant to mitigate toxicities of treatment that can lead to suboptimal nutrition provision
2. Identify nutrition provision strategies during chemotherapy and stem cell transplant
3. Use an automated electronic record screening surveillance tool for malnutrition developed by an interdisciplinary Quality Improvement project

Jason Freedman, MD, MSCE

Judy Bailer, RD, LDN, CNSC

Charles Phillips, MD

TABLE C. Allergy Prevention: From the Womb to the Early Years (RT2-C)

LEARNING OBJECTIVES

1. Discuss the role of nutrition during pregnancy and lactation on allergy prevention
2. Discuss the role of early allergen introduction in allergy prevention
3. Focus on the the bigger picture of weaning and allergy prevention

Carina Venter, PhD, RD

Marion Groetch, MS, RD

TABLE D. Successful Implementation of ENFit® in a Multi-Hospital System (RT2-D)

LEARNING OBJECTIVES

1. Identify key benefits of ENFit® adoption for enteral nutrition patients in the hospital and in the home setting
2. Describe challenges of ENFit® in home infusion patients and several best practices to foster implementation
3. Identify key steps of ENFit® adoption for enteral nutrition patients in the hospital setting

Pankaj Vashi, MD, FASPEN, AGAF

Kim Gorsuch, BSN, RN

Janelle Flaherty, RD, CNSD

TABLE E. Dysautonomia, Dysmotility, and Dysbiosis: Challenges and Alternatives When Providing Nutrition Care (RT2-E)

LEARNING OBJECTIVES

1. Describe the relationship between autonomic dysfunction and the development of GI dysfunction (gastroparesis, small bowel dysmotility, and small bowel bacterial overgrowth) as well as current diagnostic tools used for the identification and treatment of dysautonomia
2. Identify key nutrition goals of therapy for patients with dysautonomia including high fluid, sodium needs, and screening for micronutrient deficiencies as well as steps that can be taken to address them

Continued on next page.

3. Provide nutrition recommendations for patients with dysautonomia; particularly in the setting of malnutrition or with severe GI dysfunction requiring the use of enteral and/or parenteral nutrition

Gabriela Gardner, RD-AP, LD, CNSC

Karen Martin, MA, RDN, LD, FAND

TABLE F. A Tool for Monitoring, Managing and Preventing Iron Deficiency in Intestinal Failure Patients (RT2-F)

LEARNING OBJECTIVES

1. Identify iron depletion based on supporting laboratory monitoring parameters
2. Design and apply a strategic plan for monitoring and managing iron depletion in intestinal failure patients

Maria Partipilo, PharmD, BCNSP

Dana Steien, MD

TABLE G. What You Need to Know - Central Venous Catheters (RT2-G)

LEARNING OBJECTIVES

1. Identify different types of central venous catheters and where and how they are placed into the venous system
2. Describe complications associated with short term and long term uses of central venous catheters
3. Describe evidence-based practices aimed at infection prevention

Jill Cherry-Bukowiec, MD, MS, NBPNS

Dana Iocoangeli, RN, BSN, CRNI

Debra Kovacevich, MPH, RN

TABLE H. Nutritional Management of Chylothorax (RT2-H)

LEARNING OBJECTIVES

1. Identify risk factors for development of chylothorax as well as the signs and symptoms for recognition
2. Design a nutrition management plan for patients with chylothorax, including selecting appropriate formulas and micronutrient supplementation
3. Select appropriate adjunctive agents to aid in treating patients with chylothorax

Kelly Green Corkins, MS, RD-AP, CSP, LDN, FAND

Kyle Hampson, PharmD, BCNSP, CNSC

Presented by the ASPEN Pediatric Section

TABLE I. The Out-Patient GI Nutrition Practice: Meeting an Important Need for GI Patients and Those Who Manage Them (RT2-I)

LEARNING OBJECTIVES

1. Define the expertise needed to manage patients with GI disorders
2. Identify key components of private practice including materials, charting, billing, and marketing

Carol Ireton-Jones, PhD, RDN, LD, CNSC

Gillian Gatewood, RDN, LD, CNSC

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Paul Wischmeyer, MD

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TUESDAY, MARCH 26

8:00 AM - 9:15 AM

Rhoads Research Lecture and Awards Ceremony (T10)

Session details to be announced soon! Visit nutritioncare.org/conference2019 for updated session information.

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-038-L04-P

CE CREDIT: 1 hours

9:45 AM - 11:45 AM

Macronutrient Metabolism During Critical Illness - From Basic Principles to Delivery and Monitoring (T20)

FACULTY & TOPICS

Basic Principles and Monitoring of Energy and Protein Metabolism

Nilesh Mehta, MD

Substrate Oxidation and Macronutrient Prescription: Carbohydrate

Dileep Lobo, MD

Substrate Oxidation and Macronutrient Prescription: Lipids

Mette Berger, MD, PhD

Macronutrients as Calorie Source: How Much to Prescribe

Pierre Singer, MD

MODERATORS

Nilesh Mehta, MD

Pierre Singer, MD

LEARNING OBJECTIVES

1. Describe the basic physiology of energy metabolism
2. Summarize the principle pathologic alterations during critical illness
3. Discuss principles of indirect calorimetry and its role in monitoring energy metabolism and substrate oxidation
4. Apply principles of protein and lipid oxidation when prescribing macronutrient composition and dose in the diet of the critically ill patient
5. Discuss the caloric sources in a mixed diet and its impact on clinical outcomes during critical illness

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-039-L04-P

CE CREDIT: 2 hours

Session presented collaboratively by ASPEN and ESPEN

9:45 AM - 11:15 AM

Untangling Complications Associated with Central Venous Catheters (CVC) (T21)

FACULTY & TOPICS

Infections and Central Venous Catheters: Current Perspectives and Evidence Base

Shannon Novosad, MD, MPH

Leading the Way: Organizational Commitment to Reducing Central Line Complications

Patricia Worthington, MSN, RN, CNSC

The ASPEN CVC Guidelines and CRBSI Prevention Strategies for Home Patients

Debra Kovacevich, MPH, RN

MODERATOR

Marianne Opilla, RN, CNSC

LEARNING OBJECTIVES

1. Summarize emerging interventions to prevent central line associated blood stream infections (CLABSIs) from the perspective of the Center for Disease Control and Prevention
2. Explain the importance of an organizational approach to prevention of thrombosis and CLABSI
3. Review the new CVC guidelines from ASPEN
4. Discuss catheter-salvage strategies in long term PN patients with a catheter related bloodstream infection

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-040-L04-P

CE CREDIT: 1.5 hours

Presented by the ASPEN Nutrition Support Nurses Section



Pediatric Content Included



Virtual Conference Session

REGISTER AT [NUTRITIONCARE.ORG/CONFERENCE2019](https://nutritioncare.org/conference2019)

The program overview provided is preliminary. For the most recent information, visit the website.

TUESDAY, MARCH 26

9:45 AM - 11:15 AM

Impact of Human Milk: From the Science to Economics (T22)

FACULTY & TOPICS

Physiologic Responses to Human Milk Feeding in Premature Infants

Yimin Chen, PhD, RD, CNSC

Human Milk Feedings for the Hospitalized Neonatal Patient: Improving Health in Childhood through the Earliest Nutritional Exposures

Daniel Robinson, MD, MSc

The Economic Benefits of Human Milk for Very Low Birth Weight Infants

Tricia Johnson, PhD

MODERATOR

Yimin Chen, PhD, RD, CNSC

LEARNING OBJECTIVES

1. Describe the physiological effect of human milk on premature infants
2. List clinical benefits of human milk
3. Explain the economical impact of human milk feedings in the neonatal intensive care unit

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-041-L04-P

CE CREDIT: 1.5 hours

Presented by the ASPEN Neonatal Section

9:45 AM - 11:45 AM

Nutrition Technology: A Hands-on Experience (T23)

DESCRIPTION

A variety of nutrition assessment tools and technologies are commercially available. However, many clinicians have never had any hands-on opportunities to work and truly understand these tools and technology to: 1) determine if a specific tool or technology is right for their own patient population, and 2) formulate a proposal to justify the need for such tool or technology to hospital administrators. This session is designed to allow clinicians to see and experience these tools and technologies in person to improve understanding and realize usefulness in their own patient populations.

FACULTY & TOPICS

Air Displacement Plethysmograph (Cosmed – BodPod)

Craig Horswill, PhD

Indirect Calorimetry (GE)

Diane Nowak, RD, LD, CNSC

Bioelectrical Impedance Analysis/Spectroscopy (InBody)

Carrie Earthman, PhD, RD, LD

Computed Tomography (TomoVision – SliceOmatic)

Carla Prado, PhD, RD

Ultrasound

Michael Paris, MSc

Dynamometer

Terese Scollard, MBA, RD, LD, FAND

Guided Feeding Tube Placement (Halyard)

Amy Melton, MS, RD, LDN, CNSC

MODERATOR

Wendy Phillips, MS, RD, CNSC, CLE, FAND

LEARNING OBJECTIVES

1. Compare technical and patient-oriented aspects of different nutrition assessment tools and technology
2. Describe the pros and cons in each nutrition assessment tool and technology
3. Determine the appropriate patient populations for each nutrition assessment tool and technology

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-042-L04-P

CE CREDIT: 2 hours

Session presented collaboratively by ASPEN and Dietitians in Nutrition Support (DNS), a practice group of the Academy of Nutrition and Dietetics

9:45 AM - 11:15 AM

Quality Improvement: Tools for Advancing Practice (T24)

FACULTY & TOPICS

QI Introduction and Process

Matthew Bechtold, MD, FACP, FASGE, FACG, AGAF

QI Tools

Sarah Peterson, PhD, RD

Publishing QI

Jeanette Hasse, PhD, RD, FADA, CNSC



Pediatric Content Included



Virtual Conference Session

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MODERATOR

David Evans, MD

LEARNING OBJECTIVES

1. Recognize the definitions used in quality improvement
2. Perform a quality improvement project
3. Present and publish a quality improvement project

LEARNING LEVEL: Basic

UAN: JA0002345-0000-19-043-L04-P

CE CREDIT: 1.5 hours

11:30 AM - 12:15 PM

Special Lunch Session: Electronic Health Record (EHR) Tips and Tricks

DESCRIPTION

Bring your lunch and join other clinical nutrition professionals using the same EHR vendor that you use to network on tips and tricks for optimizing the clinical content and workflow within your EHR.

- EPIC
- CERNER
- HOME HEALTH EHR's (CPR+)
- OTHER EHR VENDORS COMING SOON

Sponsored by the ASPEN Clinical Nutrition Informatics Committee. CE credit not available for this special lunch session.

12:30 PM - 2:00 PM

Obesity and Nutrition Support (T30)

FACULTY & TOPICS

Probiotics and the Microbiome and Effects on Obesity: Can This Be a Treatment for Obesity?

John DiBaise, MD, FACP

Body Composition and Sarcopenia in Obesity
Dympna Gallagher, EdD

The Obesity Paradox
Rocco Barazzoni, MD, PhD

The Critically Ill Patient with Obesity: Role of Hypocaloric Feeding and Energy Requirements
Michael Rothkopf, MD, FACP, FACN

MODERATOR

Michael Rothkopf, MD, FACP, FACN

LEARNING OBJECTIVES

1. Describe the influence of the microbiome in obesity and discuss potential therapeutic targets
2. Summarize considerations in body composition assessment of sarcopenia and obesity
3. Describe current concepts in hypocaloric feeding of the critically ill obese adult
4. Discuss "the Obesity Paradox"

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-044-L04-P

CE CREDIT: 1.5 hours

Session presented collaboratively by ASPEN and The Obesity Society

12:30 PM - 2:00 PM

Pediatric Skills Lab: Clinical Challenges in Pediatric Nutrition Support (T31)

DESCRIPTION

This program addresses gaps in knowledge for those who wish to delve deeper into clinical challenges associated with pediatric nutrition support. Building on foundational knowledge, this session is geared to impart information that provides the scaffolding to expand expertise through the discussion of complex clinical situations. Designed to be hands-on and interactive, participants can choose from a variety of topics that will help them individualize nutrition support plans in challenging circumstances. Join and interact with a diverse group of presenters from nutrition support teams across North America.

FACULTY & TOPICS

Neonatal Parenteral Nutrition Order Writing in the Face of Clinical Challenges

Teresa Puthoff, PharmD

Neonatal Parenteral Nutrition Order Writing: Focus on Lipids in Clinical Practice

Mary Petrea Cober, PharmD, BCNSP, BCPPS

Pediatric Parenteral Nutrition: Troubleshooting, Weaning, and Cycling

Kyle Hampson, PharmD, BCNSP, CNSC

Delving Deeper into Pediatric TPN Usage with Complex Cases

Steven Plogsted, PharmD, BCNSP, CNSC

Continued on next page.

TUESDAY, MARCH 26

Central Venous Access Devices and Troubleshooting Recurrent Line Infections

David Keeler, RN, BSN, CPN

Choosing and Managing Appropriate Enteral Access Devices: Pros and Cons and Addressing Challenges

Ruba Abdelhadi, MD, CNSC

Gastrostomy Site Problems: Solving Clinical Challenges in Skin Management

Katina Rahe, BSN, RN, CPN

Pediatric Enteral Formulas: Not All Formulas Are Created Equal - Choosing Wisely in the Face of Medical Complexity

Elizabeth Bobo, MS, RD, LDN, CNSC

Neonatal Feeding Choices in the Face of Challenges: Human Milk, Formulas and Higher Calorie Preparations

Carrie Smith, MS, RD, CNSC, LD

Neonatal Nutrition Assessment: Integrating the New Neonatal Guidelines into Clinical Practice

Jackie Wessel, MEd, RD, CNSC, CSP, CLE

Pediatric Nutrition Assessment: When to Worry

Sarah Peters, MS, RD, CSP, LD

Nutrition Focused Physical Examination: Applying Principles in Complex Situations

Cindy Hensley, RD

Nutritional Assessment in Children with Mobility Impairment and Neurodevelopmental Challenges: Is this Child Nutritionally Ready for a Big Surgical Procedure?

Gina Rempel, MD, FRCPC

Nutrition Information at Your Fingertips: Using Apps, Videos and Online Resources for Nutrition Support

Beth Lyman, RN, MSN, CNSC

Nutritional Management During ECMO

Heidi Murphy, MD

MODERATORS

Gina Rempel, MD, FRCPC

Beth Lyman, RN, MSN, CNSC

LEARNING OBJECTIVES

1. Develop appropriate nutrition plans for a neonates or children requiring enteral nutrition support in whom enteral feeding choices are not straight forward due to medical complexity
2. Formulate nutrition care plans for neonates or children receiving parenteral nutrition, in the face of challenges with access devices, shortages and challenging clinical scenarios

3. Integrate focused nutrition assessment and examinations, anthropometric measurements and appropriate growth charts into nutrition care plans for children with typical development and those with neurodevelopmental challenges

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-045-L04-P

CE CREDIT: 1.5 hours

Presented by the ASPEN Pediatric Section

12:30 PM - 2:30 PM

New Era of Adult Gut Rehabilitation and Transplantation (T32)

FACULTY & TOPICS

New Insights into GLP-2 Secretion and Receptor Function

Douglas Burrin, PhD

Medical/Surgical Management Using GLP-2 Analogue in the Clinical Space

Cassandra Pogatschnik, RD, LD, CNSC

Transplantation

Kishore Iyer, MD, FRCS

MODERATOR

Lisa Moccia, RD, LD, CNSC

LEARNING OBJECTIVES

1. Discuss the mechanistic action of GLP2
2. Describe the clinical use of GLP2 analogue and patient screening and monitoring
3. Recognize the potential impact of the STEP in combination with GLP2 analogue
4. Determine when transplant referral is appropriate in the era of new emerging medical treatment options

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-046-L04-P

CE CREDIT: 2 hours

12:30 PM - 2:00 PM

Utilizing Technology to Improve Parenteral Nutrition Compounding Practices and Educational Outcomes (T33)

FACULTY & TOPICS

Are International Best PN Practices Being Met?

Gil Hardy, PhD, FRCS, FASPEN



Pediatric Content Included



Virtual Conference Session

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The Use of Technology and Automated Compounding Devices (ACDs) for the Preparation of PN

Gordon Sacks, PharmD, BCNSP, FASPEN, FCCP

Assessing Pharmacy Practice Gaps with PN through Technology

Todd Canada, PharmD, BCNSP, BCCCP, FASHP, FTSHP

MODERATOR

Teresa Pounds, PharmD, BCNSP

LEARNING OBJECTIVES

1. Describe a global perspective on PN safety with common areas of compliance and potential deficiency
2. Summarize USP Chapter <797>, ASPEN, and ASHP guidelines as they related to PN compounding and the safe use of ACDs for the preparation of PN admixtures
3. Identify the safety, efficacy, and quality assurance features of ACDs and demonstrate the appropriate operation of an ACD
4. Summarize how online educational modules can be used to address professional practice gaps and competency remediation

LEARNING LEVEL: Basic

UAN: JA0002345-0000-19-047-L04-P

CE CREDIT: 1.5 hours

Presented by the ASPEN International Clinical Nutrition Section

12:30 PM - 2:00 PM

Non-IgE Mediated Allergies: Difficult to Diagnose, Complex to Manage (T34)

FACULTY & TOPICS

Understanding Non-IgE Mediated Allergy and Food Protein-Induced Enterocolitis

Anna Nowak-Wegryn, MD, PhD

Dietary Management of Food Protein-Induced Enterocolitis Syndrome: Update from the New International Guidelines

Carina Venter, PhD, RD

Diagnosis and Management Strategies for Eosinophilic Esophagitis (EoE)

Mirna Chehade, MD, MPH

Dietary and Nutritional Management of EoE: Update from the AAAAI Workgroup Report

Marion Groetch, MS, RD

MODERATOR

Marion Groetch, MS, RD

LEARNING OBJECTIVES

1. Compare the different elimination diets, remission rates, and impact on quality of life
2. Describe how elimination diets impact nutritional intake, health status, and growth
3. Describe how to implement an elimination diet
4. Identify resources to help patients successfully manage an elimination diet

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-048-L04-P

CE CREDIT: 1.5 hours

2:30 PM - 4:00 PM

Nutrition Support in Hemodynamically Compromised Patients (T40)

Session details to be announced soon! Visit nutritioncare.org/conference2019 for updated session information.

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-049-L04-P

CE CREDIT: 1.5 hours

2:30 PM - 4:00 PM

Lipid Injectable Emulsions (ILE) Do's and Don'ts (T41)

FACULTY & TOPICS

2017 ASPEN ILE Survey With Gap Analysis

Phil Ayers, PharmD, BCNSP, FASHP

History of ILEs Available in the United States

Jay Mirtallo, MS, RPh, BCNSP, FASHP, FASPEN

Fatty Acid Metabolism and Essential Fatty Acid (EFA) Needs

John Miles, MD

The Use of Alternative ILEs in the Pediatric Population

Kathleen Gura, PharmD, BCNSP

The Utility of Alternative ILEs in the Adult Population

Todd Mattox, PharmD, BCNSP

Continued on next page.

TUESDAY, MARCH 26

MODERATOR

Phil Ayers, PharmD, BCNSP, FASHP

LEARNING OBJECTIVES

1. Summarize the 2017 ASPEN Lipid Survey and Gap Analysis including key findings
2. Compare and contrast currently available, FDA approved ILEs in the US
3. Dose ILEs appropriately to achieve adequate EFAs and calories
4. Solve patient specific cases regarding lipid dosing in both adult and pediatric populations

LEARNING LEVEL: Intermediate

UAN: JA0002345-0000-19-050-L04-P

CE CREDIT: 1.5 hours

2:30 PM - 4:00 PM

Mechanisms of Harm in Feeding the Critically Ill Patient: Impact of High Caloric Exposure (T42)

FACULTY & TOPICS

Feeding Controversies in Critically Ill Patients

Sarah Peterson, PhD, RD

Feeding the Critically Ill During Phases of Altered Redox Status

Liam McKeever, MS, PhD(c), RDN

MODERATOR

Liam McKeever, MS, PhD(c), RDN

LEARNING OBJECTIVES

1. Summarize both sides of the argument concerning potential benefits/harms of caloric dosing in critically ill patients
2. Deconstruct the evidence for and against feeding based on the strengths and limitations of the current evidence
3. Summarize the relationship of feeding to oxidative stress and the antioxidant enzyme systems that keep oxidative stress in balance

LEARNING LEVEL: Advanced

UAN: JA0002345-0000-19-051-L04-P

CE CREDIT: 1.5 hours

2:30 PM - 4:00 PM

Enterocutaneous Fistulas: Maximizing the Success of Medical Therapy (T43)

FACULTY & TOPICS

A Practical Guide to Nutrition Support for Enterocutaneous Fistulas: Parenteral, Enteral, and Oral

Vanessa Kumpf, PharmD, BCNSP

Fistuloclysis and Re-infusion of Succus Entericus: You Want Me to Do What?

D. Dante Yeh, MD, FACS, FCCM, CNSC

Pharmacologic and Nutriceutical Treatment of Enterocutaneous Fistulas

Carly Duncan, PharmD, CNSC

Clinical Scenarios in Enterocutaneous Fistulas: How to Nourish and Integrate Management

Diego Arenas Moya, MD

MODERATOR

D. Dante Yeh, MD

LEARNING OBJECTIVES

1. Provide appropriate nutrition therapy to a patient with an enterocutaneous fistula (ECF)
2. Articulate the benefits of fistuloclysis and recognize the appropriate indications
3. Utilize the appropriate “nutriceuticals” and pharmacologic agents to medically treat ECF
4. Integrate bundles for optimal and personalized management of ECF, based on clinical scenarios

LEARNING LEVEL: Basic

UAN: JA0002345-0000-19-052-L01-P

CE CREDIT: 1.5 hours

Session presented collaboratively by ASPEN, the ASPEN Ibero-Latin American Section (ILAS), and Latin American Federation of Nutritional Therapy, Clinical Nutrition, and Metabolism (FELANPE)



Pediatric Content Included



Virtual Conference Session

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VIRTUAL CONFERENCE PROGRAMMING

SATURDAY, MARCH 23

4:30 PM - 5:45 PM MST

President's Address presented by Dr. Nilesh Mehta

SUNDAY, MARCH 24

8:00 AM - 9:15 AM MST

Keynote Address

10:30 AM - 12:30 PM MST

Demonstrating the Value of Nutrition

3:45 PM - 5:45 PM MST

Metabolic Support in the Era of Parenteral Nutrition Component Shortages

MONDAY, MARCH 25

8:00 AM - 10:00 AM MST

Dudrick Research Symposium

10:30 AM - 12:30 PM MST

Premier Paper Session and Vars Award Competition

2:30 PM - 4:00 PM MST

Tales from the Gut – The Nutrition Story: Transcriptome, Metabolome, and Microbiome

4:15 PM - 5:45 PM MST

Therapeutic Applications of Nutritional Ketosis

TUESDAY, MARCH 26

8:00 AM - 9:15 AM MST

Rhoads Research Lecture and Awards Ceremony

9:45 AM - 11:45 AM MST

Macronutrient Metabolism During Critical Illness - From Basic Principles to Delivery and Monitoring

12:30 PM - 2:00 PM MST

Obesity and Nutrition Support

2:30 PM - 4:00 PM MST

Nutrition Support in Hemodynamically Compromised Patients

The above sessions are listed as United States Mountain Standard Time (UTC-7h). Please make note of the time and adjust for where you will be listening to the broadcasts.

REGISTER AT [NUTRITIONCARE.ORG/CONFERENCE2019](https://nutritioncare.org/conference2019)

The program overview provided is preliminary. For the most recent information, visit the website.

ASPEN19 CONTINUING EDUCATION AND ACCREDITATION INFORMATION

CONFERENCE GOALS AND TARGET AUDIENCE

The ASPEN Nutrition Science & Practice Conference is designed for dietitians, nurses, physicians, pharmacists, researchers, and others who practice the sciences of clinical nutrition and metabolism. The conference provides nutrition support professionals with current and cutting-edge information in the fields of nutrition support, clinical nutrition, and metabolism.

CONFERENCE OBJECTIVES

Upon conclusion of the conference, conference participants will be able to:

- Challenge current clinical practices
- Integrate evidence-based updates into practice
- Reflect on the implications of current research
- Identify gaps in knowledge that require further education and training

LEARNING LEVELS

To assist in selecting sessions that are most appropriate for you, each session will be identified by learning level:

BASIC: Assumes little or no prior knowledge of areas covered. The basic session is aimed toward individuals building a foundation for competent practice. This correlates to CDR level 1.

INTERMEDIATE: Assumes a general knowledge of the literature and clinical practice within the areas covered. Intermediate sessions are aimed toward individuals wishing to expand their skills and knowledge base. This correlates to CDR level 2.

ADVANCED: Assumes thorough knowledge of the literature and clinical practice within the areas covered. Advanced sessions are aimed toward individuals seeking a synthesis of recent advances and future directions. This correlates to CDR level 3.

SUCCESSFUL COMPLETION

ASPEN provides CE credit to physicians, nurses, pharmacists, and dietitians who attend in full each session claimed for credit and complete the conference evaluation process in ASPEN's eLearning Center, www.nutritioncare.org/elearning. Registered conference participants will need to login using their ASPEN credentials to gain access to the conference evaluations in the eLearning Center.

INTERNATIONAL PARTICIPANTS

International participants are encouraged to use the electronic CE system to submit evaluations for the sessions attended and the overall conference. Through the electronic system, detailed documentation of the sessions attended at the conference will be provided on a discipline-specific certificate.

VIRTUAL CONFERENCE

A virtual conference option is available to those unable to attend the annual conference in person. The virtual conference is presented live and in real time to virtual participants. Virtual participants are able to ask questions and interact with speakers as if they were attending in person. Participants in the virtual conference must follow identical processes for successful completion and all accreditation guidelines apply.

System requirements for virtual conference:

- Adobe Flash Plugin
- Internet Explorer 8+, Mozilla Firefox, Google Chrome, Safari
- Broadband Internet connection

** Also compatible with iOS and Android-based tablets and smartphones.*

ACCREDITATION

NURSES, PHARMACISTS, AND PHYSICIANS



Sessions contributed to the conference are acknowledged in the conference brochure in conjunction with the session descriptions. For example: "Contributed by Dietitians in Nutrition Support—a practice group of the Academy of Nutrition and Dietetics (DNS)".

FOR ALL SESSIONS

In support of improving patient care, The American Society for Parenteral and Enteral Nutrition (ASPEN) is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

A maximum of 20.5 contact hours/2.05 CEUs may be earned for the ASPEN 2019 Nutrition Science & Practice Conference. A maximum of 19.0 contact hours/1.90 CEUs may be earned for participation in the virtual offering of the 2019 conference. UANs are provided with each session description. Sessions not displaying UANs are unavailable for pharmacy credit. ASPEN is approved by the California Board of Registered Nursing, provider number CEP 3970.

PRE-CONFERENCE (03/23/2019): ASPEN designates this live activity for a maximum of 8.0 AMA PRA Category 1 Credits™.

MAIN CONFERENCE (03/23/2019– 03/26/2019): ASPEN designates this live activity for a maximum of 20.5 AMA PRA Category 1 Credits™.

VIRTUAL CONFERENCE (03/23/2019– 03/26/2019): ASPEN designates this live activity for a maximum of 19 AMA PRA Category 1 Credits™.

Physicians should only claim credit commensurate with the extent of their participation in the activity.

DIETITIANS



ASPEN Provider AM005 is a Continuing Professional Education (CPE) Accredited Provider with the Commission on Dietetic Registration (CDR). Registered dietitians (RDs) and dietetic technicians, registered (DTRs)

will receive a maximum of 8.0 continuing professional education units (CPEUs) for pre-conference program/materials, a maximum of 20.5 CPEUs for main conference program/materials, or a maximum of 19.0 CPEUs for virtual conference program/materials. CDR program levels are equivalent to the “basic,” “intermediate,” or “advanced” difficulty indicators found with session titles. RDs may also receive 3 CPEUs for interacting with exhibitors and 2 CPEUs for Poster Presentations. Dietitians may post opinions of the program on CDR’s website.

CONTINUING EDUCATION CREDIT HOURS

Pre-conference programming on March 23, 2019 provides a maximum of 8.0 continuing education contact hours. Programs include: Research Workshop (6.5 hours), Nutrition for the Practicing Pediatric Clinician (4 hours), Nutrition Support Fundamentals Course and the Parenteral Nutrition Order Writing Workshop (8 hours), and Post Graduate Courses (4 hours each as indicated with the course description).

MAIN CONFERENCE PROGRAMMING	MAXIMUM HRS.
March 23, 2019	1.0
March 24, 2019	6.5
March 25, 2019	7.0
March 26, 2019	6.0
Maximum for Main Conference*	20.5

Additional credit for Dietitians only: Exhibits (3 hours) and Poster Sessions (1 hour each)

** Any additional credit that may be available for section forums will be announced in the onsite program materials such as the conference app.*

VIRTUAL CONFERENCE PROGRAMMING	MAXIMUM HRS.
March 23, 2019	1.0
March 24, 2019	5.0
March 25, 2019	7.0
March 26, 2019	6.0
Maximum for Virtual Conference*	19.0

NOTICES

- Corporate-sponsored events are not provided by ASPEN for continuing education credit.
- Faculty and planner disclosures and resolution of conflicts, if any, will be provided online prior to the conference or with the onsite conference program materials, such as the conference app, not this brochure.

- Information regarding discussion of the off label use of products, if any, will be provided with the onsite conference program materials, such as the conference app, not this brochure.
- Detailed sponsorship and commercial support information will be provided in the onsite conference program materials, such as the conference app, not this brochure.
- ASPEN subscribes to the ACCME Standards for Commercial Support. ASPEN does not provide programs that constitute advertisement or include promotional content. ASPEN does not endorse any products.
- Additional details on the claiming and awarding of continuing education credits will be provided in the onsite conference program materials such as the conference app.

PRIVACY

ASPEN respects the privacy of its members and website visitors. Companies that receive personal information from ASPEN in order to execute the business of ASPEN may use personal information only for that purpose.

GRIEVANCES

Should be addressed in writing to:

ASPEN
Director of Education and Research
8401 Colesville Road, Suite 510
Silver Spring, MD 20910

AMERICANS WITH DISABILITIES ACT AND SPECIAL SERVICES

ASPEN will provide reasonable accommodation to conference participants with disabilities or special needs who attend the conference. If you require special services, please contact ASPEN prior to your arrival at the conference at aspen@nutritioncare.org or call 800-727-4567 (US and Canada) or 301-587-6315 (international).

DEFINITIONS

Contributed by: signifies that an organization outside ASPEN has contributed content for the session. For example: “Contributed by the Canadian Nutrition Society (CNS).” All sessions contributed by other organizations were reviewed, approved, and selected by the Conference Program Committee.

Presented by: signifies that a chapter or section within ASPEN is presenting the session. For example: “Presented by the ASPEN Ibero Latin American Section (ILAS).” All sessions presented by an ASPEN chapter or section were reviewed, approved, and selected by the Conference Program Committee.

Supported in part by: signifies that an organization or commercial entity outside ASPEN has provided financial resources such as an unrestricted educational grant for the session. For example: “Supported in part by Nutrition Company X.”

HOTEL AND TRAVEL INFORMATION

DISCOVER PHOENIX

Phoenix is an internationally renowned destination for art and culture, vacation resorts, and a vibrant night life surrounded by beautiful desert and endless possibilities for outdoor activities. Sky Harbor Airport, also known as America's Friendliest Airport, has nonstop flights from over 80 US and 22 international destinations.

When you are not busy at the conference, there are endless adventures throughout Phoenix and surrounding areas including:

- Camelback Mountain
- Musical Instrument Museum
- Papago Park
- Desert Botanical Garden
- Phoenix Zoo
- Heard Museum
- Roosevelt Row
- South Mountain Park and Preserve
- Phoenix Art Museum
- Heritage Square Dining
- Old Town Scottsdale
- Taliesin West

For more ideas, go to visitphoenix.com.



Photos: visitphoenix.com

HOTEL

ASPEN has reserved rooms at two hotels close to the Phoenix Convention Center. Please note that the hotel rates quoted do not include local taxes.

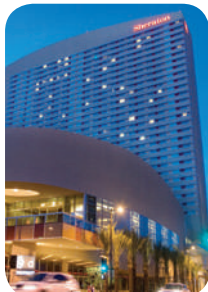


Photo: visitphoenix.com

Sheraton Grand Phoenix

Headquarters Hotel

\$249 single/double occupancy

\$259 triple occupancy

\$269 quadruple occupancy

340 North 3rd Street
Phoenix, AZ 85004
602-262-2500

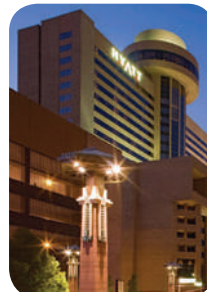


Photo: Hyatt

Hyatt Regency Phoenix

\$239 single/double occupancy

\$249 triple/quadruple occupancy

122 North Second Street
Phoenix, AZ 85004
602-252-1234

Visit nutritioncare.org/Travel to reserve your room.
Room reservations close Wednesday, February 27, 2019.

REGISTRATION INFORMATION

REGISTRATION CATEGORIES

- MD, DO, DVM, Non-Health/Industry Professional
- RD, RN, RPh/PharmD, Nurse Practitioner, Physician Assistant, PhD, Other Health Professional
- New Practitioner/Trainee: Those who are within two years of graduation or receiving licensure to practice in the field, as well as all those completing paid internships, fellowships, or residencies may apply as trainees.*
- Student: Undergraduate and graduate students taking a minimum of 12 credit hours and all those completing unpaid internships, capstone experiences, or any form of prerequisite training for graduation from a degree-granting institution.*

** Note: Verification of registration category must be received prior to the advance registration cutoff date or the regular registration rate will apply and additional payment will be required at onsite registration.*

INTERNATIONAL ATTENDEES

Start planning now to attend! It's never too early to begin your travel visa process. If you would like to request a letter of invitation to the ASPEN 2019 Nutrition Science & Practice Conference, inquire about group registrations of 10 or more, or request wire transfer information, please contact ASPEN at aspen@nutritioncare.org or 301-587-6315. Individuals must be registered for the ASPEN 2019 Nutrition Science & Practice Conference to receive an invitation letter, and wire transfers must be received by March 8, 2019.

SAVINGS!

Become an ASPEN member when you register for the ASPEN 2019 Nutrition Science & Practice Conference and save on the full cost of the conference, pre-conference rates, and all purchases in the ASPEN bookstore. A \$25 administrative fee will be assessed if you choose to join ASPEN after you have registered at the nonmember rate for the conference.

CANCELLATION POLICY

All cancellation requests must be sent in writing to the ASPEN national office via email, fax, or standard mail. Cancellation requests made via telephone will not be accepted. A refund of the registration fee less a \$90 administrative fee for the main conference and \$25 for each pre-conference course will be issued if received on or before January 7, 2019.

Cancellation requests received after January 7, 2019 and on or before March 8, 2019 will receive 50% of all monies paid less the same administrative fees above. No refund will be issued after March 8, 2019, including paid registrants who do not show. ASPEN is not responsible for problems beyond our control such as weather conditions. No refunds will be given in these situations.

Written requests via **email** may be submitted to: aspen@nutritioncare.org, Subject Line: ASPEN 2019 Conference Cancellation

Written requests via **standard mail** may be submitted to: ASPEN 2019 Nutrition Science & Practice Conference

Cancellation, 8401 Colesville Road, Suite 510, Silver Spring, MD 20910

Must be postmarked by deadline dates above. Refunds will be issued approximately 4-6 weeks after the conclusion of the conference. When you register for the conference, you will be confirming that you have reviewed and understand this attendee registration refund policy.

EMERGENCY CONTACT

For your safety, an emergency contact name and phone number is requested.

SUBSTITUTION POLICY

Substitution of registrations is permitted prior to the conference for an additional \$25 fee per attendee substituted. The cut-off date for substitutions is March 8, 2019. Only one substitution is permitted per original registrant. Please submit a brief note requesting the substitution, a copy of the previous registrant's confirmation, and a completed registration form for the new attendee (i.e., the person you are transferring the registration to) via mail, fax, or email and we will process the transfer and email a confirmation to the new attendee. The individual submitting the substitution request is responsible for all financial obligations (any balance due) associated with that transfer as well as updating any contact information at the time of the substitution. Changes in courses are subject to availability and any refunds for canceled registrations are subject to the refund policy.

RECEIPT OF PAYMENT POLICY

Registration forms submitted without payment will be processed at the appropriate rate based on the date that payment is received.

LIABILITY AND PHOTOGRAPHY WAIVER

I agree and acknowledge that my participation in various ASPEN 2019 Nutrition Science & Practice Conference (ASPEN19) events may give rise to occasional instances of loss or injury. Except to the extent that such instances may result from the negligence or misconduct of ASPEN, I hereby waive and release any claims that I might have against ASPEN and its employees, members and representatives. I understand that ASPEN may, at its option, make photographs, videos or recordings of ASPEN19 events, which may include my likeness or participation, and reproduce them in ASPEN educational, news or promotional material, whether in print, electronic or other media, including the ASPEN Website (www.nutritioncare.org) and ASPEN managed social media sites. By participating in ASPEN19, I hereby grant ASPEN permission to make, use and distribute such items, and I waive any rights to seek payment or compensation.

QUESTIONS?

ASPEN's customer service team is available to answer your questions about the conference. Please contact us at aspen@nutritioncare.org or 800-727-4567 (U.S. and Canada) or 301-587-6315 (International).

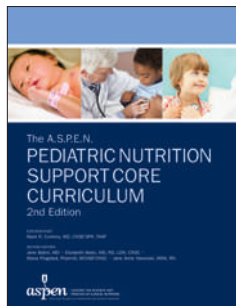
KEEP UP-TO-DATE WITH CLINICAL NUTRITION

ASPEN Resources Help You Provide Patients with the Best Possible Care



ADULT NUTRITION SUPPORT CORE CURRICULUM

New 3rd edition with up-to-date clinical guidelines and practices. Includes practice scenarios and test questions. *Great for preparing for certification.*



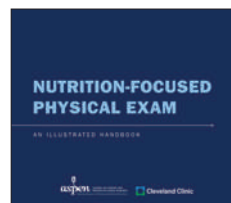
PEDIATRIC NUTRITION SUPPORT CORE CURRICULUM

Comprehensive, evidence-based textbook for daily nutrition support of infants and children. *Covers acute and chronic diseases.*



GUIDE TO ADDRESSING MALNUTRITION

Step-by-step approach to code and treat malnutrition in infants, children and adults to improve patient outcomes.



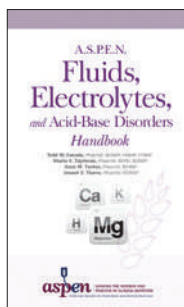
NUTRITION-FOCUSED PHYSICAL EXAM HANDBOOK

Colorful illustrations and reference indicators help identify malnutrition and monitor patient progress.



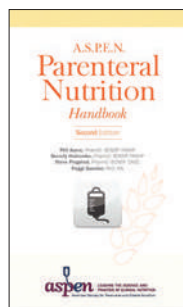
GUIDEBOOK ON ENTERAL MEDICATION ADMINISTRATION

An up-to-date reference of enteral drug monographs. *A must have for all for pharmacies and education programs.*



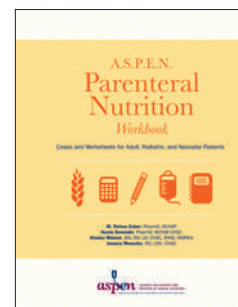
FLUIDS, ELECTROLYTES, AND ACID-BASE DISORDERS HANDBOOK

Concise and user-friendly text with patient scenarios on fluid control and electrolyte and acid-base disorders. *Covers adults and pediatrics.*



PARENTERAL NUTRITION HANDBOOK

Popular, quick reference for all key aspects of PN management. Includes chapter on home nutrition support. *Useful for all disciplines.*



PARENTERAL NUTRITION WORKBOOK

Expand your knowledge on writing PN orders using referenced information and case studies of infants, children and adults. *Ideal for classroom use.*

Visit nutritioncare.org/bookstore to get these must-have resources!



REGISTRATION FORM

MARCH 23-26, 2019

PHOENIX CONVENTION CENTER, AZ

THREE WAYS TO REGISTER

- Online: www.nutritioncare.org/Conference2019 Preferred Method
 - Fax: By March 8, 2019 to 301-587-2365
 - Mail: Received by March 8, 2019 to:
ASPEN, 8401 Colesville Road, Ste. 510, Silver Spring, MD 20910
- Your registration will be confirmed via email from aspen@nutr.org**

PLEASE PRINT CLEARLY

Prefix ☐ Dr. ☐ Mr. ☐ Ms. ☐ Mrs.

Last Name First Name Preferred First Name For Badge Credentials

Company/Institution

Mailing Address ☐ Home ☐ Business

City State/Province Zip/Postal code Country

Daytime Telephone Number Email Address ☐ Home ☐ Business Required for confirmation purposes. Please be sure to add aspen@nutr.org to your safe senders list.

Emergency Contact: Last Name First Name Relationship Phone Number

MEMBERSHIP STATUS ☐ Current ASPEN Member ID# ☐ New Member—Joining with conference discount rate. See page 2 for membership. ☐ Non-Member

DISCIPLINE (REQUIRED)

☐ Dietitian ☐ Nurse ☐ Nurse Practitioner ☐ Pharmacist ☐ PhD
☐ Physician ☐ Physician Assistant ☐ Specialty: ☐ Other (Please Specify)

FIRST TIME ATTENDEE?

☐ Yes ☐ No

HOW DID YOU HEAR ABOUT THE ASPEN NUTRITION SCIENCE & PRACTICE CONFERENCE?

☐ Advertisement ☐ E-mail ☐ Colleague ☐ Website ☐ Postcard ☐ Preliminary Program ☐ Social Media ☐ Other:

I. SPECIAL PRE-CONFERENCE COURSE – FRIDAY, MARCH 22, 2019 AT THE MAYO CLINIC, SCOTTSDALE, AZ

Clinical Nutrition: Practice Pearls for the Physician (Full conference registration is not required to attend special course.)

	Professionals, Member	Professionals, Non-Member	Medical Students/Residents/Fellows*	
Participants get a 10% discount for full conference	☐ \$175	☐ \$225	☐ Free	
*All student registrants must submit a letter or transcript showing proof of full-time student status.				SPECIAL PRE-CONFERENCE COURSE REGISTRATION TOTAL \$

II. FULL CONFERENCE

Begins at 4:30 PM on Saturday, March 23 and ends at 4:00 PM on Tuesday, March 26, 2019. Does not include pre-conference courses.

REGISTRATION TYPE	Early Bird by 1/7/2019		Advance by 3/22/2019		Onsite 3/23/2019 and after		
	Member	Non-Member	Member	Non-Member	Member	Non-Member	
MD, DO, DVM, Non-health/Industry Professional	☐ \$550	☐ \$750	☐ \$650	☐ \$850	☐ \$850	☐ \$1,050	
RD, RN, RPh/PharmD, PhD, NP, PA, Other Health Professional	☐ \$490	☐ \$690	☐ \$590	☐ \$790	☐ \$790	☐ \$990	
New Practitioner/Trainee*	☐ \$350	☐ \$550	☐ \$450	☐ \$650	☐ \$650	☐ \$850	
Consumer	☐ \$200	☐ \$200	☐ \$200	☐ \$200	☐ \$200	☐ \$200	
Student*	☐ \$100	☐ \$160	☐ \$110	☐ \$170	☐ \$130	☐ \$190	
FULL CONFERENCE REGISTRATION SUBTOTAL							\$
10% discount only if also registering for Special Pre-Conference Course on Friday.							-\$
FULL CONFERENCE REGISTRATION TOTAL							\$

III. DAILY REGISTRATION

Includes access to educational sessions for one day and ASPEN Expo on Sunday and Monday only. Does not include pre-conference courses.

REGISTRATION TYPE	Early Bird by 1/7/2019		Advance by 3/22/2019		Onsite 3/23/2019 and after		
	Member	Non-Member	Member	Non-Member	Member	Non-Member	
Select One: ☐ Sunday ☐ Monday ☐ Tuesday	☐ \$290	☐ \$390	☐ \$340	☐ \$440	☐ \$490	☐ \$590	
DAILY REGISTRATION TOTAL							\$

IV. VIRTUAL CONFERENCE – SATURDAY, MARCH 23 – TUESDAY, MARCH 26

REGISTRATION TYPE	Early Bird by 1/7/2019		Advance by 3/22/2019		Onsite 3/23/2019 and after		
	Member	Non-Member	Member	Non-Member	Member	Non-Member	
Includes 12 preselected sessions from the main conference	☐ \$325	☐ \$525	☐ \$425	☐ \$625	☐ \$525	☐ \$725	
VIRTUAL CONFERENCE REGISTRATION TOTAL							\$

(Continued on back. Please submit both pages 1 and 2.)

Last Name _____ First Name _____

V. PRE-CONFERENCE COURSES – SATURDAY, MARCH 23, 2019

Times vary. Refer to individual course for scheduled times. (Full conference registration is not required to attend pre-conference courses.)

REGISTRATION TYPE	Early Bird by 1/7/2019		Advance by 3/22/2019		Onsite 3/23/2019 and after		
	Member	Non-Member	Member	Non-Member	Member	Non-Member	
Nutrition Support Fundamentals Course (NSFC-2019) 7:00 AM – 4:00 PM	☐ \$225	☐ \$325	☐ \$245	☐ \$345	☐ \$275	☐ \$375	
Parenteral Nutrition Order Writing Workshop (PNW-2019) 7:00 AM – 4:00 PM <i>Includes a complimentary copy of ASPEN's PN Workbook: Cases and Worksheets for Adult, Pediatric, and Neonatal Patients</i>	☐ \$315	☐ \$445	☐ \$365	☐ \$495	☐ \$415	☐ \$545	
Nutrition for the Practicing Pediatric Clinician: Nutrition Support Challenges in the Intestinal Failure Patient (NPPC-2019) 12:00 PM – 4:00 PM	☐ \$125	☐ \$225	☐ \$145	☐ \$245	☐ \$175	☐ \$275	
Post Graduate Course 1: Enhanced Recovery After Surgery (ERAS) (PG1-2019) 7:00 AM – 11:00 AM	☐ \$125	☐ \$225	☐ \$145	☐ \$245	☐ \$175	☐ \$275	
Post Graduate Course 2: Critical Care – Update on Micronutrient Therapies in Sepsis (PG2-2019) 12:00 PM – 4:00 PM	☐ \$125	☐ \$225	☐ \$145	☐ \$245	☐ \$175	☐ \$275	

Research Workshop: The Relationship Between the Intestinal Barrier and Chronic Disease (RW-2019) 7:30 AM – 4:00 PM	Regular Registration Rate	Student Registration Rate	
	☐ \$185	☐ \$95	
PRE-CONFERENCE COURSES REGISTRATION TOTAL			\$

VI. ASPEN MEMBERSHIP – SAVE NOW!

Join ASPEN to enjoy the many benefits of membership; including discounts to this conference and other educational and research programs, ASPEN books and journals, and more.

CATEGORIES	US Members Rate	International Members Rate	
MD, DO, DVM, Non-health/Industry Professional	☐ \$225	☐ \$235	
Dietitian, Nurse, Nurse Practitioner, Pharmacist, PhD, Physician Assistant, and Other Health Professional	☐ \$155	☐ \$165	
New Practitioner/Trainee*	☐ \$100	☐ \$100	
Student*	☐ \$50	☐ \$50	
MEMBERSHIP DUES TOTAL			\$

*Documentation required, please contact member services at 800-727-4567.

VII. ASPEN RHOADS RESEARCH FOUNDATION DONATION

A 501(c)3 Non-Profit Organization (Contributions are tax deductible to the fullest extent permitted by law)

☐ \$25 ☐ \$50 ☐ \$100 ☐ \$500 ☐ Other: \$ _____	In Honor/Memory of: _____	\$
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Contact the ASPEN office at aspen@nutritioncare.org or 301-587-6315 if you have special needs related to a disability.

GRAND TOTAL **\$**

VIII. PAYMENT INFORMATION

- ☐ Check payment enclosed, made payable to ASPEN (US Dollars drawn on a US Bank)
- ☐ I prefer to charge my: ☐ American Express ☐ Discover ☐ Mastercard ☐ VISA
- ☐ I authorize ASPEN to charge my credit card for the conference fees as indicated above. If I have miscalculated the conference fees, I authorize ASPEN to make the necessary adjustments and to charge my card accordingly.

Card # _____ Expiration Date _____ CSC# (Card Security Code) _____

Printed Name (as it appears on the card-please print it clearly) _____ Cardholder's Signature _____

Cancellation Policy All cancellation requests must be sent in writing to the ASPEN national office via fax, email or standard mail. Cancellation requests made via telephone will not be accepted. A refund of the registration fee, minus a \$90 administrative fee for the main conference and \$25 for each pre-conference course will be issued if received on or before January 7, 2019. Cancellation requests received after January 7, 2019 and on or before March 8, 2019 will receive 50% of all monies paid less the same administration fees above. No refunds will be issued after March 8, 2019, including paid registrants who do not show. ASPEN is not responsible for problems beyond our control such as weather conditions. No refunds will be given in these situations. Written requests via fax may be faxed to: 301-587-2365. Written requests via e-mail may be submitted to: aspen@nutritioncare.org—Subject Line: ASPEN 2019 Cancellation. Written requests via standard mail may be submitted to: ASPEN 2019 Nutrition Science & Practice Conference Cancellation, 8401 Colesville Road, Ste 510, Silver Spring, MD 20910. Must be postmarked by deadline dates above. Refunds will be issued approximately 4-6 weeks after the conclusion of the conference. When you request a refund, you will be confirming that you have reviewed and understand this attendee registration refund policy.

Substitution Policy Substitution of registrations is permitted prior to the conference for an additional \$25 fee. The cut-off date for substitutions is March 8, 2019. Only one substitution is permitted per original registrant. Please submit a brief note requesting the substitution, a copy of the previous registrant's confirmation and a completed registration form for the new attendee (i.e. the person you are transferring to) via standard mail, fax or email and we will process the transfer and email a confirmation to the new attendee. The individual submitting the substitution request is responsible for all financial obligations (any balance due) associated with that transfer as well as updating any contact information, at the time of the substitution. Any changes in courses are subject to availability and any refunds for canceled registrations are subject to the refund policy.

Liability and Photography Waiver I agree and acknowledge that my participation in various ASPEN 2019 Nutrition Science & Practice Conference (ASPEN 2019) events may give rise to occasional instances of loss or injury. Except to the extent that such instances may result from the negligence or misconduct of ASPEN, I hereby waive and release any claims that I might have against ASPEN and its employees, members and representatives. I understand that ASPEN may, at its option, make photographs, videos or recordings of ASPEN 2019 events, which may include my likeness or participation, and reproduce them in ASPEN educational, news or promotional material, whether in print, electronic or other media, including the ASPEN Web site (www.nutritioncare.org) and ASPEN managed social media sites. By participating in ASPEN 2019, I hereby grant ASPEN permission to make, use and distribute such items, and I waive any rights to seek payment or compensation.

Please use one registration form per person • Photocopy for multiple registrations • Do not mail or fax form after March 8, 2019.



BUY 3 GET 1 FREE

HERE'S HOW IT WORKS

REGISTER
3 PEOPLE FOR THE
FULL CONFERENCE



RECEIVE THE
4TH FULL CONFERENCE
REGISTRATION FREE

Bring your coworkers along to ASPEN19 and save! ASPEN offers a group registration discount for the conference. Register three people from your hospital or institution and receive the fourth registration free!

Email aspen@nutritioncare.org or call **301-587-6315** for more information.

Lowest registration category waived. Individuals must be employed by the same physical institution and same campus of that institution.

RESERVE YOUR HOTEL ROOM FOR ASPEN19

ASPEN has reserved rooms at a discounted rate at two hotels close to the Phoenix Convention Center.

Visit nutritioncare.org/Travel to reserve your room.

Room reservations close Wednesday, February 27, 2019.

See page 36 for details.



Sheraton Grand Phoenix
Headquarters Hotel



Hyatt Regency Phoenix

ASPEN 2019
NUTRITION
SCIENCE &
PRACTICE
CONFERENCE



MARCH 23-26, 2019
PHOENIX CONVENTION CENTER, AZ



8401 Colesville Road, Suite 510
Silver Spring, MD 20910

INDICIA
FPO

REGISTER AT NUTRITIONCARE.ORG/CONFERENCE2019

JOIN THE CONVERSATION ON FACEBOOK AND TWITTER USING #ASPEN19