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An investigation into the accuracy of prediction equations and the appropriateness of indirect calorimetry use for determining resting energy expenditure in the ICU - A pilot study

Brescia | **Western**

Background: Indirect calorimetry (IC) is the gold standard for determining resting energy expenditure (REE) in the ICU. However, its use is limited by cost and availability. Prediction equations (PE) are commonly used to estimate REE. The purpose of this study was to evaluate the accuracy of PE and the appropriateness of IC use in the ICU.

Methods: A pilot study was conducted in the ICU. REE was measured using IC and compared to PE. The appropriateness of IC use was determined based on the accuracy of PE and the availability of IC.

Results: The accuracy of PE was low. The majority of patients had PE values that were significantly different from IC values. The appropriateness of IC use was low. Only a small percentage of patients had IC used.

Conclusions/Implications: PE are not accurate enough to be used as a substitute for IC. IC should be used whenever possible to determine REE in the ICU.

Purpose: To evaluate the accuracy of PE and the appropriateness of IC use in the ICU.

Keywords: Indirect calorimetry, prediction equations, resting energy expenditure, ICU.

Central Stage Schedule

SUNDAY, FEBRUARY 15

9:30 - 10:15 AM
Abbott Nutrition: Use of Peptide-based Formulas in Critically Ill and GI Patients: Is it the New Standard?

12:15 - 1:00 PM
Covidien: Bedside Placement of Kangaroo Feeding Tube with IRIS Technology in Neuro Intensive Care Unit Patients

MONDAY, FEBRUARY 16

9:45 - 10:15 AM
Abbott Nutrition: The Value of Nutrition Intervention in Cardiopulmonary Diseases - Health Economic Data for Savvy Clinicians

10:45 - 11:30 AM
Nestlé Nutrition Institute: Pediatric Malnutrition: Assessment, Indicators and the Etiology-Related Definition

12:15 - 1:00 PM
Fresenius Kabi: In a World without Drug Shortage, What is the Optimal Dose?



Metagenics
Corporate Sponsored Breakfast
Microbiome—Can Targeted Support Influence Specific Health Conditions?
Innovation and Product Theater!
A Novel Nutritional Approach for Improved Insulin Response and Glucose Control

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CNW15 Badge Walkers Charging Stations

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ACHLI
Supported by Baxter Healthcare Corporation
Corporate Sponsored Breakfast
Optimizing the Use of Lipid Emulsions in Parenteral Nutrition: Biochemistry, Physiology, and Patient Selection

B. BRAUN
SHARING EXPERTISE
Corporate Sponsored Breakfast
Parenteral Nutrition: Where we have been, where we are, where we are going

COVIDIEN
Central Stage Presentation
Bedside Placement of Kangaroo Feeding Tube with IRIS Technology in Neuro Intensive Care Unit Patients

MeadJohnson Nutrition
Educational Grant
nutrition for the Practicing Pediatric Clinician Part 1 & 2

nps
Corporate Sponsored Breakfast
Empowering Patient Success in Short Bowel Syndrome: Rebuilding Intestinal Rehabilitation

Waldmann | **Waldmann**
Reusable Water Bottles

Information as of January 6, 2015

Nestlé Health Science
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Advanced Science for Parenteral and Enteral Nutrition



Optimizing the Use of Lipid Emulsions in Parenteral Nutrition: Biochemistry, Physiology, and Patient Selection

Michelle DeBerry, BA, BS
2:30-4:00 on Breakfast & Registration
8:00-10:00 on Breakfast Lecture

Chen Dawn Hayward, MD
Hospitals, Ontario, Canada

Faculty:
July King, MD
Hospitals, Ontario, Canada

Weste Long Beach
Convention Center, Salon A
311 E. Ocean Blvd
Long Beach, CA

Complimentary Breakfast Symposium Earn CME/CPD/CE Credit
To register for this symposium, please visit www.ACHLI.org/CNW

ACHLI
Supported by an educational grant from Baxter Healthcare Corporation

Held in conjunction with A.S.P.E.N.'s Clinical Nutrition Week 2015

NestléHealthScience Welcomes You

Don't miss these Events

Nestlé Nutrition Institute

Sunday, February 15
6:00am - 7:30am • Westin Centennial Ballroom
ICU Nutrition in Crisis: Review of the Evidence

12:30pm - 2:00pm • Westin Centennial Ballroom A
Hot Topics and Tea: Why Specialized Nutrition Matters in Elective Surgery

Monday, February 16
10:45am - 11:30am • Central Stage (Exhibit Hall)
Pediatric Malnutrition: Assessment, Indicators and the Etiology-Related Definition

12:30pm - 2:00pm • Westin Centennial Ballroom A
Hot Topics and Tea: Current Trends in Nutrition Practice



Envisioning Patient Success in Short Bowel Syndrome: Redefining Intestinal Rehabilitation

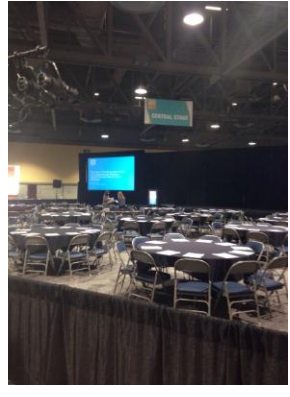
Short Bowel Syndrome (SBS) is a complex condition associated with significant morbidity and diminished quality of life. Intestinal rehabilitation is an important component of patient care, and recent advances offer opportunities for nutrition support teams and patients to re-evaluate therapeutic goals. This interactive symposium will highlight advances in intestinal rehabilitation.

Learning Objectives:

- Describe how the voice of the patient can be incorporated when setting treatment goals.
- Provide insight into clinical application of the latest data in the treatment of parenteral support-dependent adults with Short Bowel Syndrome.
- Review collaborative care in the practical management of patients with Short Bowel Syndrome.

We hope that you are able to join us for an educational and exciting night. This program is being held in conjunction with A.S.P.E.N.'s Clinical Nutrition Week 2015. Treatment of patients must be registered attendees of A.S.P.E.N.'s Clinical Nutrition Week 2015. This program is an additional fee to attend and will include an optional buffet dinner.

If you would like to register, please visit www.spcnw2015.com or call 1-844-962-5540.



CNW15 Sponsor Acknowledgment

The American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.) salutes our corporate supporters who join us to improve patient care, to advance the science and practice of clinical nutrition and metabolism and to inspire innovations through knowledge and its application. We acknowledge and thank them for their generous sponsorships and support of CNW15.

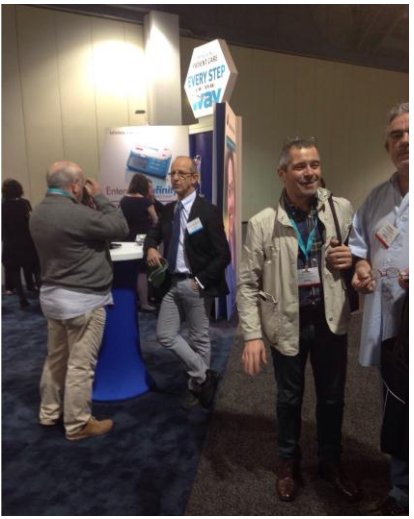
For event details, refer to respective day tab.

| Nestlé Nutrition Institute | | EDUCATIONAL SESSIONS | |
|--|---|---|--|
| February 15, Sunday | February 16, Monday | February 15, Sunday | February 16, Monday |
| 6:00am-7:30am ICU Nutrition in Crisis: Review of the Evidence <i>Corporate Sponsors Symposium (Westin Centennial Ballroom)</i> Moderator: Stephen McClave, MD Speakers: Robert Merzelle, MD, PhD; Dawn Hyland, MD, MSc; Stephen McClave, MD | 10:45am-11:30am Pediatric Malnutrition: Assessment, Indicators and the Etiology-Related Definition <i>Central Stage Presentation (Exhibit Hall)</i> Speakers: Mark R. Collins, MD, DSc, FRC, FAAP; Joni Wolf, MD, PhD, DSc | 12:30pm - 2:00pm Hot Topics and Tea: Why Specialized Nutrition Matters in Elective Surgery <i>Westin Centennial Ballroom A</i> Moderator: Ezra Steiger, MD, FACS, FASPN, AGAP Speakers: Jill Hamilton-Reeves, PhD, RD; Juan Gómez, MD, FACS; Thomas Varghese, Jr, MD, MS, FACS | 12:30pm - 2:00pm Hot Topics and Tea: Current Trends in Nutrition Practice <i>Westin Centennial Ballroom A</i> Moderator: Stephen McClave, MD Speakers: Robert Merzelle, MD, PhD; Sarah Diamond, MD; Makale Solomon, MD; Maribel Garza Meribau, MD; Rachel West, MS, MBA |
| 1.5 CE available for dietitians and nurses Level II for dietitians? <i>Contingent on breakfast buffet at 7:30am</i> | 1.5 CE available for dietitians and nurses Level II for dietitians? <i>Contingent on Light Lunch</i> | 1.5 CE available for dietitians and nurses Level II for dietitians? <i>Contingent on Light Lunch</i> | 1.5 CE available for dietitians and nurses Level II for dietitians? <i>Contingent on Light Lunch</i> |



XIX Congreso Nacional de Nutrición Clínica

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FRESENIUS KABI
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Central Stage Lunch and Learn In a World without Drug Shortages. What is the Optimal Dose?
Official Hotel Keys

Conference Mobile App
CNW15 Onsite Conference Guide
CNW15 Website

NestléHealthScience
NUTRITION. PERSONAL. HEALTH.

Nestlé Health Science Connection Zone Promenade Foyer, Lobby Level
Registration Table
Corporate Sponsored Breakfast Supported by Nestlé Health Institute
ICU Nutrition in Crisis: Review of the Evidence
Section Community Forums
Pediatrics Section
Nutrition Support Nurses Section

Central Stage Lunch and Learn Supported by Nestlé Health Institute
Pediatric Malnutrition: Assessment, Indicators and the Etiology-Related Definition
Hot Topics and High Tea Supported by Nestlé Health Institute
Why Specialized Nutrition Matters in Elective Surgery
Current Trends in Nutrition Practice
CNW15 Networking Luncheon

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Abbott Nutrition

Central Stage Presentation Use of Peptide-based Formulas in Critically Ill and GI Patients: Is it the New Standard?
The Value of Nutrition Intervention in Cardiovascular Diseases – Health Economic Data for Savvy Clinicians

Corporate Sponsored Dinner New Insights in the Preoperative Nutrition of Surgical Patients
Section Community Forums Medical Practice Section

Information as of January 6, 2015

