Fifth Annual
JOHNS HOPKINS CRITICAL CARE REHABILITATION CONFERENCE

November 3 - 5, 2016
Thomas B. Turner Auditorium
Johns Hopkins East Baltimore Medical Campus
Baltimore, Maryland
Interdisciplinary collaboration and coordination is vital to facilitate early mobility and rehabilitation in the intensive care unit (ICU) setting. A recent stakeholders’ conference aimed at improving long-term outcomes for ICU survivors identified important ‘silos’ among critical care and rehabilitation clinicians working in the ICU, with these ‘silos’ acting as a barrier to collaboratively advancing the field and improving patient outcomes. While clinical trials support the benefits of early rehabilitation for mechanically ventilated patients, implementing these interventions requires creating a new ICU culture based on proactive rehabilitation and interdisciplinary collaboration between all critical care and rehabilitation clinicians. This course will bridge the interdisciplinary gap from research to clinical implementation at the bedside.

WHO SHOULD ATTEND
This activity is intended for physicians (critical care, pulmonologists, physiatrists, psychiatrists), physical therapists, occupational therapists, rehabilitation assistants, speech language pathologists, respiratory therapists, nurses, nurse practitioners, psychologists, physician assistants, and hospital administrators.

OBJECTIVES
After attending this activity, the participant will demonstrate the ability to:
• Appraise the evidence supporting early rehabilitation and mobility in critically ill adults and children.
• Describe and discuss how to change ICU culture and clinical practice to implement an early rehabilitation program for critically ill adults and children using a quality improvement framework.
• Describe the management of ICU devices and monitoring systems for rehabilitation of an ICU patient.
• Explain medications commonly used in the ICU and their implications for delivery of rehabilitation.
• Describe the basics of mechanical ventilation and its relevance to rehabilitation of the ICU patient.
• Explain rehabilitation-related assessments suitable for the ICU patient.
• Discuss how to achieve a culture of mobility through hospital-wide activity and mobility promotion.
• Describe the impact and challenges of ICU survivorship on patients and their family.
• Appraise the latest evidence on long-term physical outcomes after critical illness.
• Explain the tenets and methods of a structured quality improvement process for developing and implementing an early ICU rehabilitation program in an adult and pediatric ICU.
• Describe the adult and pediatric nursing perspective and role in the implementation of early mobility in an ICU.
• Explain current practice and inter-disciplinary roles of physical therapy, occupational therapy, speech language pathology and respiratory therapy in an early adult and pediatric ICU rehabilitation program.
• Describe rehabilitation strategies for critically ill pediatric patients with traumatic brain injuries, cardiac and pulmonary compromise, and within a pediatric burn and a neonatal ICU.
• Describe the management of sedation, delirium, anxiety and engagement of patients for ICU mobility.
• Explain the principles of clinical decision-making for safe and effective early rehabilitation in the ICU.
ACCREDITATION STATEMENT
The Johns Hopkins University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT
The Johns Hopkins University School of Medicine designates this live activity for a maximum of 19.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

OTHER CREDIT
American Nurses Credentialing Center (ANCC) accepts AMA PRA Category 1 Credit™ from organizations accredited by the ACCME.

American Academy of Nurse Practitioners National Certification Program accepts AMA PRA Category 1 Credit™ from organizations accredited by the ACCME.

American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit™ from organizations accredited by the ACCME. Physician assistants may receive a maximum of 19.25 AAPA Category 1 credits for completing this program.

This activity has been approved for a maximum of 22.59 contact hours of Continuing Respiratory Care Education (CRCE) by the American Academy of Respiratory Care (AARC).

This course is offered for up to 1.8 ASHA CEUs (Intermediate Level; Professional Area).

The Johns Hopkins University has approved this activity for 19.25 contact hours for non-physicians.

PHYSICAL THERAPY
This activity meets the basic criteria of the Maryland Board of Physical Therapy Examiners for 1.9 CEUs.

The New York State Education Department Office of the Professions has approved Johns Hopkins University School of Medicine as a sponsor of continuing education for physical therapists and physical therapist assistants.

This activity has been approved by the Federation of State Boards of Physical Therapy (FSBPT) for 14.00 CCUs.

ProCert has awarded certification in the amount of 14 Continuing Competence Units (CCUs) to this activity. CCUs are a unit of relative value of an activity based on its evaluation against a rigorous and comprehensive set of standards representing the quality of an activity. The CCU determination is a valuation applying many factors including, but not limited to, duration of an activity. No conclusion should be drawn that CCUs correlate to time (e.g. hours)

The application for CEUS from the New Jersey State Board of Physical Therapy Examiners has been submitted and is currently pending approval.

This activity has been approved by the Pennsylvania State Board of Physical Therapy for 19.25 credits (19.25 GEN, 0 DA). The approval number is PTCE009821.

This activity has been approved by the Texas Board of Physical Therapy Examiners for 19.25 CCUs for PTs and PTAs.
PSYCHOLOGISTS
The Johns Hopkins University School of Medicine is authorized by the Maryland State Board of Examiners of Psychologists as a provider of continuing education. The Johns Hopkins University School of Medicine maintains responsibility for this program. A certificate for CEUs will be awarded upon completion of this Fifth Annual Johns Hopkins Critical Care Rehabilitation Conference.

PROFESSIONAL COUNSELORS AND THERAPISTS
This CE Program has been approved by the Maryland Board of Professional Counselors and Therapists for Category A CEUs.

POLICY ON SPEAKER AND PROVIDER DISCLOSURE
It is the policy of the Johns Hopkins University School of Medicine that the speaker and provider globally disclose conflicts of interest. The Johns Hopkins University School of Medicine OCME has established policies in place that will identify and resolve all conflicts of interest prior to this educational activity. Detailed disclosure will be made in the instructional materials.

NOTICE ABOUT OFF-LABEL USE PRESENTATIONS
The Johns Hopkins University School of Medicine/Fifth Annual: Johns Hopkins Critical Care Rehabilitation Conference may include presentations on drugs or devices, or use of drugs or devices that have not been approved by the Food and Drug Administration (FDA) or have been approved by the FDA for specific uses only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or device he or she wishes to use in clinical practice.

The Johns Hopkins University School of Medicine is committed to the free exchange of medical education. Inclusion of any presentation in this program, including presentations on off-label uses, does not imply an endorsement by Johns Hopkins of the uses, products, or techniques presented.

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CONTACT INFORMATION

General Information: (410) 955-2959
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Fax: (866) 510-7088
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Email CME: cmenet@jhmi.edu

Johns Hopkins University School of Medicine
Office of Continuing Medical Education
Turner 20, 720 Rutland Avenue
Baltimore, Maryland 21205-2195
CME CREDIT FOR PHYSICIANS (MDs and DOs)
In accordance with our accreditation guidelines, we have instituted a self-reporting system for physicians to obtain *AMA PRA Category 1 Credit*. Physicians must attest to the exact number of hours that they have been in attendance. Attestation will be required on the online post-activity evaluation.

Please Note: Certificates for all attendees will be available upon submission of the online evaluation form that will be available to you post-activity.

SIGN-IN FOR ALL PARTICIPANTS
Please be sure to sign in once to verify your attendance. If you have paid for your registration by Hopkins Tuition Remission (TR), you must, per University policy, sign in and/or pick up your name badge at the registration desk to confirm your attendance. If we cannot verify attendance by sign in sheet or badge, we must bill the cost of your registration back to your department as a no show fee (per TR policy).

EVALUATIONS
Following the activity each attendee will be able to access the post-activity evaluation via the My CME section after signing in at hopkinscme.cloud-cme.com. The evaluation must be complete in order to receive your certificate of credit. The evaluations are most helpful to us in planning future programs, and we appreciate your comments and suggestions. We ask you to evaluate each speaker.

OUTCOMES SURVEY
An Outcomes Survey will be sent to all physician attendees within three months post activity to assist us in determining what impact this activity had on the attendee’s practice.

EMERGENCY TELEPHONE NUMBER
Direct any calls to (410) 955-3673. A message will be posted for you.

RESTROOMS AND TELEPHONES
Restrooms are located behind the registration desk on either end of the concourse. Telephones are behind the large pillars.

ELECTRONIC DEVICES
As a courtesy to speakers and other attendees, please turn off all cell phones and pagers while the meeting is in progress.
CONFIDENTIALITY DISCLAIMER FOR CME CONFERENCE ATTENDEES

I certify that I am participating in a Johns Hopkins University School of Medicine CME activity for accredited training and/or educational purposes.

I understand that while I am participating in this capacity, I may be exposed to “protected health information,” as that term is defined and used in Hopkins policies and in the federal HIPAA privacy regulations (the “Privacy Regulations”). Protected health information is information about a person’s health or treatment that identifies the person.

I pledge and agree to use and disclose any of this protected health information only for the training and/or educational purposes of my visit and to keep the information confidential. I agree not to post or discuss this protected health information, including pictures and/or videos, on any social media site (e.g. Facebook, Twitter, etc.), in any electronic messaging program or through any portable electronic device.

I understand that I may direct to the Johns Hopkins Privacy Officer any questions I have about my obligations under this Confidentiality Pledge or under any of the Hopkins policies and procedures and applicable laws and regulations related to confidentiality. The contact information is: Johns Hopkins Privacy Officer, telephone: 410-735-6509, e-mail: HIPAA@jhmi.edu.

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For CME Questions, please contact the CME Office: (410) 955-2959 or e-mail cmenet@jhmi.edu.

For CME Certificates, please call (410) 502-9634.

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Reviewed & Approved by:
General Counsel, Johns Hopkins Medicine (4/1/03)
(Updated 4/09 and 3/14)
FULL DISCLOSURE POLICY AFFECTING CME ACTIVITIES

As a provider approved by the Accreditation Council for Continuing Medical Education (ACCME), Johns Hopkins University School of Medicine Office of Continuing Medical Education (OCME) requires attested and signed global disclosure of the existence of all financial interests or relationships with commercial interest from any individual in a position to control the content of a CME activity sponsored by OCME. The following relationships have been reported for this activity:

<table>
<thead>
<tr>
<th>SPEAKERS NAME</th>
<th>RELATIONSHIPS</th>
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<tbody>
<tr>
<td>Margaret Arnold, PT</td>
<td>Ownership Interest: Inspire Outcomes, LLC.</td>
</tr>
<tr>
<td>Michelle Eakin, PhD</td>
<td>Honoraria: Praxis Pharmaceuticals</td>
</tr>
<tr>
<td>Darin Trees, PT, DPT</td>
<td>Consultant: Hill-Rom; IP Rights: Donjoy Orthopedics, Hill-Rom</td>
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No other speakers have indicated that they have any financial interests or relationships with a commercial entity whose products or services are relevant to the content of their presentation(s).

No planner has indicated that they have any financial interests or relationships with a commercial entity.

Note: Grants to investigators at the Johns Hopkins University are negotiated and administered by the institution which receives the grants, typically through the Office of Research Administration. Individual investigators who participate in the sponsored project(s) are not directly compensated by the sponsor, but may receive salary or other support from the institution to support their effort on the project(s).
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Vice President, Rehabilitation
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Kerry Vela, PT, DPT, PCS, CIMI, STAR/C
Physical Therapist

Emily Warren, BSN, RN, CCRN
Nurse Clinician

Beth Wieczorek, DNP, CRNP
Nurse Practitioner Manager

Samantha Young, MS, RN
Clinical Nurse Specialist
MORNING TRACK 1

The Basics: Creating and Sustaining an Early Rehabilitation Program

7:55 - 8:00 Welcome and Opening Remarks
Jennifer Zanni, PT, DScPT, CCS

SESSION 1
Rationale and Evidence for Early Rehabilitation

8:00 - 8:20 ICU Acquired Weakness and Long Term Patient Outcomes
Ann Parker, MD, PhD

8:20 - 8:40 The Evidence for Early Rehabilitation in the ICU
Jennifer Zanni, PT, DScPT, CCS

8:40 - 9:00 Culture Change to Promote Early Rehabilitation in the ICU
Jennifer Zanni, PT, DScPT, CCS

9:00 - 9:15 Role of Nursing
Samantha Young, MS, RN

9:15 - 9:35 Overview of Sedation and Delirium Issues
Karin Neufeld, MD, MPH

9:35 - 9:55 Questions and Answers

9:55 - 10:25 Coffee Break

SESSION 2
Implementing and Sustaining an ICU Rehabilitation Program

10:25 - 10:45 Role of Physical Therapy
Jennifer Zanni, PT, DScPT, CCS

10:45 - 11:05 Role of Occupational Therapy
Kelly Casey, OTR, OTR/L, ATP

11:05 - 11:25 Role of Speech-Language Pathology
Therese Cole, MA, CCC-SLP

11:25 - 11:45 Role of Respiratory Therapy
Heather O’Donnell, RRT

11:45 - 12:05 Questions and Answers

12:05 - 1:35 Lunch Break and Networking (Boxed Lunch Provided)
MORNING TRACK 2

Quality Improvement for Early Rehabilitation

7:55 - 8:00 Welcome and Opening Remarks
Dale Needham, MD, PhD

SESSION 1
Tenets of Quality Improvement

8:00 - 8:20 The Value Equation: An Essential Consideration for Rehabilitation Quality Improvement (QI)
Michael Friedman, PT, MBA

8:20 - 8:40 General Background on QI and Knowledge Translation (KT): A Model for QI/KT Research
Dale Needham, MD, PhD

8:40 - 9:00 Choosing a QI Topic - Choosing Your Question
Quincy Samus, PhD, MS

9:00 - 9:10 How to Review a Report of a QI/KT Project
Dale Needham, MD, PhD

9:10 - 9:25 Case Studies in QI/KT
Dale Needham, MD, PhD

9:25 - 9:40 Questions and Answers

9:40 - 10:10 Coffee Break

SESSION 2
Methods of Quality Improvement

10:10 - 10:25 Identifying Barriers and Facilitators to QI Interventions
Lisa Lubomski, PhD

10:25 - 10:40 Designing a QI Intervention
Quincy Samus, PhD, MS

10:40 - 11:05 Measurement and Data Quality in QI
Dale Needham, MD, PhD

11:05 - 11:25 Qualitative and Mixed-Methods Approaches for QI
Michelle Eakin, PhD

11:25 - 11:50 Culture Change for the Implementation of QI
Melinda Sawyer, MSN, RN, CNS-BC

11:50 - 12:05 Questions and Answers

12:05 - 1:35 Lunch Break and Networking (Boxed Lunch Provided)
AFTERNOON TRACK 1
Management of the Patient with Critical Illness:
An Introduction for Rehabilitation Professionals

SESSION 1
ICU Equipment and Strategies
1:35 - 2:00  Overview of the Evidence for Early Rehabilitation
Jennifer Zanni, PT, DScPT, CCS
2:00 - 2:25  Lines, Tubes, Drains and ICU Monitoring Systems
Amy Toonstra, PT, DPT
2:25 - 2:55  Understanding Mechanical Ventilation
Heather O’Donnell, RRT
2:55 - 3:20  Functional Assessment Measures
Paul Ricard, PT, DPT, CCS
3:20 - 3:40  Questions and Answers
3:40 - 4:10  Coffee Break

SESSION 2
Medications, Cognition and Measures
4:10 - 4:35  Critical Care Medications
Amy Toonstra, PT, DPT
4:35 - 5:00  Communication, Cognition and Delirium Assessment
Kelly Casey, OTD, OTR/L, ATP and Therese Cole, MA, CCC-SLP
5:00 - 5:25  Progression of Mobility and Activity for the ICU Patient
Jennifer Zanni, PT, DScPT, CCS
5:25 - 5:40  Questions and Answers
5:40 - 5:50  Day 1 Wrap-Up
Jennifer Zanni, PT, DScPT, CCS
**AFTERNOON TRACK 2**

*Achieving a Culture of Mobility Through Activity and Mobility Promotion Across the Hospital*

**SESSION 1**

*The Evidence and Environment to Support Activity and Mobility Promotion in the Acute Hospital*

Michael Friedman, PT, MBA; Erik Hoyer, MD; Annette Lavezza, OTR/L

1:35 - 1:45  Introduction to the Johns Hopkins Activity and Mobility Promotion Hospital Bundle

1:45 - 2:00  The Evidence for Activity and Mobility Promotion in the Hospital

2:00 - 2:15  Integrating the Value of Activity and Mobility Promotion Into Existing Hospital Initiatives

2:15 - 2:30  Systematic Data Collection and Leveraging the Electronic Medical Record

2:30 - 2:40  Questions and Answers

**SESSION 2**

*Barriers to and Measurement of Function for Activity and Mobility Promotion*

Michael Friedman, PT, MBA; Erik Hoyer, MD; Annette Lavezza, OTR/L

2:40 - 3:00  Methods to Assess Barriers to Activity and Mobility Promotion Implementation

3:00 - 3:15  Interdisciplinary Functional Assessments for Activity and Mobility Promotion

3:15 - 3:30  Measurement Tools for Functional Assessments

3:30 - 3:40  Questions and Answers

3:40 - 4:10  Coffee Break

**SESSION 3**

*4Es for the Implementation of the Activity and Mobility Promotion Toolkit*

Michael Friedman, PT, MBA; Erik Hoyer, MD; Annette Lavezza, OTR/L

4:10 - 4:25  Education and Involving Family and Caregivers in Activity and Mobility Promotion

4:25 - 4:45  Developing Multi-Disciplinary Education for Activity and Mobility Promotion

4:45 - 5:00  The Role of the Physical and Occupational Therapists as Consultants

5:00 - 5:20  Evaluate and Engage - Reinforcing Culture Through Data

5:20 - 5:30  Future Directions and Closing Remarks

5:30 - 5:40  Questions and Answers

5:40 - 5:50  Day 1 Wrap-up

*Michael Friedman, PT, MBA*
FRIDAY, NOVEMBER 4, 2016

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:30 - 8:30</td>
<td>Registration for Main Conference, Continental Breakfast and Poster Viewing</td>
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</table>
| 8:30 - 8:45 | Welcome and Opening Remarks  
  *Dale Needham, MD, PhD* |
| 8:45 - 9:00 | Primer on Social Media |

**PATIENT AND FAMILY INTERVIEW**

**SESSION 1**

*A Patient and Family Perspective on Multidisciplinary ICU Rehabilitation*

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 9:00 - 9:25 | Patient and Family Interview – Adolescent Patient  
  *Moderator: Sapna Kudchadkar, MD* |
| 9:25 - 9:40 | Questions and Answers |
| 9:40 - 10:20 | Coffee Break and Poster Viewing |

**ADULT ICU CONTENT**

**SESSION 2**

*Recent Advances in Research and Practice*

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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| 10:20 - 10:45 | Long-Term Physical Outcomes for ICU Survivors  
  *Dale Needham, MD, PhD* |
| 10:45 - 11:05 | PT Interventions in the ICU  
  *Jennifer Zanni, PT, DScPT, CCS* |
| 11:05 - 11:25 | SLP Interventions in the ICU  
  *Therese Kling-Cole, MA, CCC-SLP* |
| 11:25 - 11:45 | OT Cognitive Interventions in the ICU  
  *Kelly Casey, OTD, OTR/L, ATP* |
| 11:45 - 12:00 | Questions and Answers |
| 12:00 - 1:30 | Poster Viewing and Networking (Boxed Lunch Provided)  
  *This session is not eligible for AMA PRA Category 1 Credit™.* |

**SESSION 3**

*Recent Advances in Research and Practice II*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 1:30 - 1:50 | Respiratory Therapy for Early Rehabilitation and Case Studies  
  *Heather O’Donnell, RRT* |
| 1:50 - 2:10 | Nursing Protocols for Early ICU Mobility  
  *Cindy Dwyer, RN, BSN* |
| 2:10 - 2:30 | Clinical Decision Making for Mobilizing the Critically Ill Patients  
  *Jennifer Zanni, PT, DScPT, CCS* |
| 2:30 - 2:45 | Questions and Answers |

**SESSION 4**

*Psychological Considerations for ICU Rehabilitation*

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<tr>
<th>Time</th>
<th>Event</th>
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| 2:45 - 3:10 | Recent Advances in Sedation and Delirium  
  *Dale Needham, MD, PhD* |
| 3:10 - 3:30 | Rehabilitation Psychology: Case Studies in Delirium and Anxiety Management  
  *Megan Hosey, PhD, MPH* |
| 3:30 - 3:45 | Questions and Answers |
| 3:45 - 4:25 | Coffee Break and Poster Viewing |

**SESSION 5**

*Abstract Presentations, Part 1*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4:25 - 6:10</td>
<td>Abstract Presentations and Question and Answer</td>
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</table>
| 6:10 - 6:20 | Day 2 Wrap-up  
  *Dale Needham, MD, PhD* |
| 6:30 - 8:30 | Social and Networking Event |
**SESSION 2**

**Pediatric ICU Rehab: Using The Evidence Base to Get Started**

<table>
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<tr>
<th>Time</th>
<th>Duration</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:20</td>
<td>10:40</td>
<td>Pediatric ICU Rehab: Where We’ve Come and Where We’re Headed</td>
<td>Sapna Kudchadkar, MD</td>
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<tr>
<td>10:40</td>
<td>10:55</td>
<td>Changing PICU Culture: The Multidisciplinary Pediatric ICU Rehab Team</td>
<td>Judy Ascenzi, DNP, RN</td>
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<tr>
<td>10:55</td>
<td>11:10</td>
<td>Overview of Pediatric Sedation, Sleep and Delirium Issues</td>
<td>Sean Barnes, MD, MBA</td>
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<tr>
<td>11:10</td>
<td>11:25</td>
<td>Implementing a Pediatric ICU Rehab Initiative</td>
<td>Beth Wieczorek, DNP, CRNP</td>
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<td>11:25</td>
<td>11:40</td>
<td>Transitioning from Acute Rehabilitation to Long-term Rehabilitation after Pediatric Critical Illness</td>
<td>Frank Pidcock, MD</td>
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<td>11:40</td>
<td>12:00</td>
<td>Questions and Answers</td>
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<td>12:00</td>
<td>1:30</td>
<td>Poster Viewing and Networking (Boxed Lunch Provided)</td>
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*This session is not eligible for AMA PRA Category 1 Credit*. 

**SESSION 3**

**Therapy Champions: The Key to Success in Rehab for Critically Ill Children**

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<tbody>
<tr>
<td>1:30</td>
<td>1:45</td>
<td>Physical Therapy and Pediatric ICU Rehabilitation</td>
<td>Hollie Lenker, PT, DPT, STAR/C</td>
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<tr>
<td>1:45</td>
<td>2:00</td>
<td>Occupational Therapy and Pediatric ICU Rehabilitation</td>
<td>Yun Kim, MS, OTR/L</td>
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<tr>
<td>2:00</td>
<td>2:15</td>
<td>SLP Interventions in the Pediatric ICU</td>
<td>Jeannine Hoch, MA, CCC-SLP</td>
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<tr>
<td>2:15</td>
<td>2:30</td>
<td>Questions and Answers</td>
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**SESSION 4**

**The Pediatric ICU Team: Translating Mobility Programs into Practice**

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:30</td>
<td>2:45</td>
<td>Pediatric ICU Nurses as Early Rehabilitation Champions</td>
<td>Emily Warren, BSN, RN, CCRN</td>
</tr>
<tr>
<td>2:45</td>
<td>3:00</td>
<td>Pediatric ICU Rehabilitation: The Role of Child Life Specialists</td>
<td>Caroline Potter, MS, CCLS, CIMI</td>
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<tr>
<td>3:00</td>
<td>3:15</td>
<td>Respiratory Therapy and Pediatric Mobility Programs</td>
<td>Krista Hajnik, BHSc, RRT</td>
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<td>3:15</td>
<td>3:35</td>
<td>Pediatric Case Studies</td>
<td>Sapna Kudchadkar, MD</td>
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<tr>
<td>3:35</td>
<td>3:45</td>
<td>Questions and Answers</td>
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<td>3:45</td>
<td>4:25</td>
<td>Coffee Break and Poster Viewing</td>
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**SESSION 5**

**Assessment and Treatment of the Pediatric Traumatic Brain Injury in the PICU**

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:25</td>
<td>4:50</td>
<td>Assessment and Treatment of the Pediatric Traumatic Brain Injury in the PICU</td>
<td>Meghan Moore PT, DPT, STAR/C and Emily Rogers, PT, DPT, STAR/C</td>
</tr>
<tr>
<td>4:50</td>
<td>5:15</td>
<td>Promoting Mobility for the Pediatric Patient with Significantly Compromised Cardiac and Pulmonary Systems</td>
<td>Holly Loosen PT, STAR/C and Christy McKinney PT, DPT</td>
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<tr>
<td>5:15</td>
<td>5:40</td>
<td>Therapeutic Strategies to Promote Functional Mobility for the Burn Patient in the PICU</td>
<td>Joan Jung-D’Amico OTR/L, CIMI, CPST and Kerry Vela, PT, DPT, PCS, CIMI, STAR/C</td>
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<tr>
<td>5:40</td>
<td>6:05</td>
<td>An Evidence-Based Approach to OT and PT Provision in the NICU</td>
<td>Kerry Vela, PT, DPT, PCS, CIMI, STAR/C and Sonya Dunsirn, OTD, OTR/L</td>
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<td>6:05</td>
<td>6:20</td>
<td>Questions and Answers</td>
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<tr>
<td>6:30</td>
<td>8:30</td>
<td>Social and Networking Event</td>
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SATURDAY, NOVEMBER 5, 2016

7:30 - 8:25  Continental Breakfast and Poster Viewing
8:25 - 8:30  Welcome and Opening Remarks
   Dale Needham, MD, PhD

SESSION 1
A Patient and Family Perspective on Post-ICU Impairment and Recovery
8:30 - 9:00  Patient Interview
   Moderator: Dale Needham, MD, PhD
9:00 - 9:15  Questions and Answers

SESSION 2
Practical Advice On Quality Improvement For Early Rehabilitation
9:15 - 9:40  Designing, Conducting and Sustaining an ICU Rehabilitation Program
   Dale Needham, MD, PhD
9:40 - 10:00  Implementing the QI Project
   Michael Friedman, PT, MBA
10:00 - 10:15  Questions and Answers
10:15 - 11:00  Coffee Break and Poster Viewing

SESSION 3
ABSTRACT PRESENTATIONS, PART 2
11:00 - 12:30  Abstract Presentations and Question and Answer
12:30 - 2:00  Poster Viewing and Networking (Boxed Lunch Provided)
   This session is not eligible for AMA PRA Category 1 Credit ™.

SESSION 4
Workshops with Multidisciplinary ICU Rehabilitation Experts
2:00 - 3:30  Workshop 1  Culture Change to Advance Sedation, Delirium and Mobility Practice
   Facilitator: Dale Needham, MD, PhD
   Workshop 2  Hospital-Wide Activity and Mobility Promotion
   Facilitator: Michael Friedman, PT, MBA
   Workshop 3  Neuropsychiatric Issues in the ICU and Beyond
   Facilitator: Megan Hosey, PhD, MPH
   Workshop 4  Rehabilitation Issues in an Adult Medical ICU
   Facilitator: Jennifer Zanni, PT, DScPT, CCS
   Workshop 5  Rehabilitation Issues in Adult Surgical and Cardiac ICUs
   Facilitator: Paul Ricard PT, DPT, CCS
   Workshop 6  Rehabilitation Issues in the PICU
   Facilitators: Sapna Kudchadkar, MD and Julie Quinn, PT, MSEd, PCS
   Workshop 7  Rehabilitation Issues in the Neuro ICU
   Facilitator: Sowmya Kumble PT, NCS
3:30 - 4:00  Break
4:00 - 4:15  Conference Wrap-Up
   Dale Needham, MD PhD
The Johns Hopkins University School of Medicine takes responsibility for the content, quality and scientific integrity of this CME activity. This schedule is subject to change.