Cardiovascular and Pulmonary Research: A Year in Review

Combined Sections Meeting 2017
San Antonio, Texas
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Disclosures

• Paul Ricard & Lawrence Cahalin have no disclosures regarding material presented in this course.
• I do love acute care, cardiopulmonary PT, and evidence-based clinical practice.
• Johns Hopkins Critical Care Fellowship and Acute Care Residency are accepting applications for the 2017-2018 year.
Objectives

1. Report and interpret new literature surrounding the examination of or treatment for cardiovascular and pulmonary health conditions.

2. Compare their prior knowledge and practice to ideas and concept in current literature.

3. Discuss with peers the application and impact these studies may have on current and future practice.
Format

• Each presenter will speak on ~5 articles that represent a the broader themes present in the literature over the past year.
• Participants and authors are welcome to join in the conversation in the time allotted for each article.
• Please note that the following references are up to date as of December 2016. Articles from January, and February 2017 were not included in this year’s presentation.
The Process

• 15 major and journals & society publications + ~100 articles circulated to personal email

• 10 articles to represent 14 topic areas
Major Content Areas

- Acute Care
- Critical Care
- Cardiac Potpourri
- Heart failure
- Coronary Artery Disease
- Cardiac Surgery
- Cardiac Rehabilitation

- COPD
- Cystic fibrosis
- Idiopathic pulmonary Fibrosis
- Mechanical Ventilation
- Pulmonary Potpourri
- Vascular
- Cardiovasc/Pulm Potpourri
Vascular

- Hillegass E, Puthoff M, Frese E, Thigpen M, Sobush D, Auten BM. The Role of Physical Therapists in the Management of Individuals at Risk for or Diagnosed with Venous Thromboembolism-Executive Summary of an Evidence-Based Clinical Practice Guideline. CPPTJ; 27(2):42-46.
• Steinke EE, Johansen PP, Dussenbury W. When the Topic Turns to Sex: Case Scenarios In Sexual Counseling And Cardiovascular Disease. JCRP;36(3):145-156.


• Mattlage AE, Redline SA, Rosterman LR, Harn N, Sisante JV, Abraham MG, Billinger SA. Use of a Nonexercise Estimate for Prestroke Peak VO2 During the Acute Stroke Hospital Stay. CPPTJ; 27(3): 96-103.

• Mathis RA, Taylor JD, Fletcher JP, Rainey J, Cade WT, Bandy WD. Time Course of Exercise Training-Induced Muscle Strength Changes in Type 2 Diabetes. CPPTJ:27(4):133-139.


Potpourri

Acute Care

- Falvey JR, Burke RE, Malone D, Ridgeway KJ, McManus BM, Stevens-Lapsley JE. Role of Physical Therapists in Reducing Hospital Readmissions: Optimizing Outcomes for Older Adults During Care Transitions From Hospital to Community. PTJ; 96(8):1125-1134.


Critical Care


**Pulmonary: Cystic Fibrosis**

Pulmonary: Idiopathic Pulmonary Fibrosis


Pulmonary: Mechanical Ventilation

- Malamud AL, Ricard PEH. Feasibility of the Six-Minute Walk Test for Patients Who Have Cystic Fibrosis, Are Ambulatory, and Require Mechanical Ventilation Before Lung Transplantation. PTJ; 96(9):1468-1467.


Pulmonary: Potpourri

- Santos MD, Milross MA, Alison JA. Therapist-Made Bubble-Positive Expiratory Pressure: a survey of Physiotherapists in Australia. CPPTJ. 27(1); 3-10.


• Reid WD, Sheel AW, Shadgan B, Garland SJ, Road JD. Recruitment and Deoxygenation of Selected Respiratory and Skeletal Muscles During Incremental Loading in Stable COPD Patients. JCRP; 36(4):279-287.

Pulmonary: COPD

Pulmonary: COPD

- Celli B, Tetzlaff K, Criner G, et.al. The 6-Minute Walk Distance Test as a Chronic Obstructive Pulmonary Disease Stratification Tool. Insights from the COPD Biomarker Qualification Consortium. AJRCCM;194(12):1483-1493.


Cardiac: Potpourri

- Schopfer DW, Priano S, Allsup K, Helfrich CD, Ho PM, Rumsfeld JS, Forman DE, Whooley MA. Factors Associated With Utilization of Cardiac Rehabilitation Among Patients With Ischemic Heart Disease in the Veterans Health Administration: A Qualitative Study. JCRP;36(3):167-173.
Cardiac: Potpourri


Cardiac: Coronary Artery Disease

- Jaureguizar KV, Vicente-Campos D, Bautista LR, de la Pena CH, Gomez MJA, Rueda MJC, Ignacio MF. Effect of High-Intensity Interval Versus Continuous Exercise Training on Functional Capacity and Quality of Life in Patients With Coronary Artery Disease: A Randomize Clinical Trial. JCRP; 36(2):96-105.


- Soares-Miranda L, Siscovick DS, Psaty BM, Longstreth WT, Mozaffarian D. Physical Activity and Risk of Coronary Heart Disease and Stroke in Older Adults. Circulation; 2016;133:147-155.

Cardiac: Cardiac Surgery

- Mendes M. Is There a Role for Cardiac Rehabilitation After Coronary Artery Bypass Grafting? Circulation; 2016;133:2538-2543.
- Niebauer J. Is There a Role for Cardiac Rehabilitation After Coronary Artery Bypass Grafting? Circulation; 2016;133:2529-2537.
Cardiac: Cardiac Rehabilitation

- Fletcher SM, McBurney H. Strategic Moments: Identifying Opportunities to Engage Clients in Attending Cardiac Rehabilitation and Maintaining Lifestyle Changes. JCRP;36(5):346-351.
Cardiac: Heart Failure

- Yeh GY, Mu L, Davis RB, Wayne PM. Correlates of Exercise Self-efficacy in a Randomized Trial of Mind-Body Exercise in Patients With Chronic Heart Failure. JCRP;36(3):186-194.
Cardiac: Heart Failure

- Pastva AM, Lowers S, Sibley AB, Lian H, Pierson D, Turner EL, Patel M. A Physical Therapy-Based Outpatient Rehabilitation Program for Older Adults With Heart Failure: A Retrospective Analysis of Changes in Functional Performance. CPPTJ. 27(1);11-19.
Cardiac: Heart Failure

6th Annual Johns Hopkins Critical Care Rehabilitation Conference

November 2-4, 2017
(with all-day pre-conference on Nov 3rd)

Johns Hopkins Hospital, Baltimore, MD

Abstract Submission Deadline June 30, 2016

For more information: icurehab@jhmi.edu and www.hopkinsmedicine.org/OACIS/ICUrehab

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Thank you

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