



APSA

American Pediatric
Surgical Association

Saving Lifetimes[™]

2021

Program

Annual Meeting
May 20-22

APSA21



apsaped surg.org

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AMERICAN PEDIATRIC SURGICAL ASSOCIATION MISSION

To ensure optimal pediatric surgical care of patients and their families, to promote excellence in the field, and to foster a vibrant and viable community of pediatric surgeons.

WE DO THIS BY:

- Developing and advocating for standards of care for infants and children and influencing public policy around the surgical care of children
- Encouraging discovery, innovation and improvement of care
- Providing rich venues for the dissemination of up-to-date knowledge
- Offering high quality continuing education to members
- Creating identity and community among pediatric surgeons
- Promoting a supportive health care environment for patients, staff and surgeons and making certain that it is sustained by economic health



American Pediatric Surgical Association Administrative Offices

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APSA LEADERSHIP

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2020-2021*



**Thomas F. Tracy, Jr.
MD MBA**
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NEW MEMBERS 2020-2021

REGULAR MEMBERS

Anwar Abdul-Hadi
Shannon Acker
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Artur Chernoguz
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Yue-Yung Hu
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Justin Lee
Donald J. Lucas
Vincent Mortellaro
Bharath Nath
Lucas Neff
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Jason Sulkowski
Kyle Van Arendonk
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INTERNATIONAL MEMBERS

Abdullah Alshehri
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Esther Saguil

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Shumpei Okochi
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EkenOnwuka
Morgan Richards
Jamie Robinson
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Raelina Howell
Amy Howk
Carlos Huerta
Elizabeth Hughes
Martha-Conley Ingram
Maria Knaus
Joseph Lopez
Nathan Maassel
Roxanne Massoumi
Alicia Menchaca
Claire Ostertag-Hill
Devon Pace
Angela Paredes
Raphael Parrado
Marina Reppucci
Lorena Rincon-Cruz
Marla Sacks
Sophia Schermerhorn
Matthew Shaughnessy
Lexi Vaughn
Charlie Wunker

EDUCATIONAL OVERVIEW

The APSA Annual Meeting is designed to provide comprehensive continuing education in the field of pediatric surgery. APSA strives to bring together the world's leading pediatric surgery authorities to present and discuss the most recent clinical and basic science research efforts. This meeting covers the breadth of pediatric surgery and is intended to acquaint attendees with the latest research findings, clinical discoveries and trends that influence the day-to-day practice of pediatric surgery. The topics at these sessions have been selected by the Program and Professional Development Committees and approved by the APSA Board of Governors. Additional sessions overseen by other APSA Committees (Advocacy, Cancer, Diversity, Equity and Inclusion, Ethics, Fetal Diagnosis and Treatment, New Technology, Practice, Informatics and Telemedicine, Surgical Critical Care, Research, Trauma, Surgical Quality and Safety, Workforce and Outcomes and Evidence-based Practice) address topics unique to specific areas of interest within the specialty and include both educational topics as well as novel clinical and basic science research. Topic selection is based on previous meeting attendee surveys, committee feedback regarding learning needs and member requests from surveys and journal articles about what is relevant to their practices. Plenary and scientific sessions consist of basic science research and practical clinical presentations selected from a blind review from the Program Committee. Sessions presented in an oral format offer the ability for audience participation in the form of commentary and questions. Poster sessions typically provide young investigators an opportunity to share preliminary research or to inform the membership about additional topics that may be of interest.

LEARNING OBJECTIVES

As a result of attending the sessions, attendees will be able to:

- Discuss the current level of evidence supporting current approaches to common pediatric surgical clinical problems.
- Explain the basic science foundations of pediatric surgical diseases.
- Identify and discuss the challenges facing pediatric surgical patients, their families and surgical providers as the result of information technology, socioeconomic pressures, insurance regulations and governmental policies.

ACCREDITATION STATEMENT

The American Pediatric Surgical Association (APSA) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

APSA designates this activity for a maximum of 9 AMA PRA *Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

DISCLOSURES

Disclaimer: These materials and all other materials provided in conjunction with educational activities are intended solely for purposes of supplementing educational programs for qualified health care professionals. Anyone using the materials assumes full responsibility and all risk for their appropriate use. APSA makes no warranties or representations whatsoever regarding the accuracy, completeness, currentness, noninfringement, merchantability or fitness for a particular purpose of the materials. In no event will APSA be liable to anyone for any decision made or action taken in reliance on the materials. In no event should the information in the materials be used as a substitute for professional care.

Policy on Faculty Disclosure

It is the policy of APSA that the planning committee and faculty disclose and resolve real or apparent conflicts of interest relating to the content of the educational activity, and also disclose discussions of unlabeled/unapproved uses of drugs or devices during their presentations.

Faculty Disclosures

In the case of faculty presentations the following faculty members have disclosed a financial relationship with an industry partner. The relationship was proven not to have an impact on the science presented at this annual meeting. All other faculty indicated that they have no financial relationships to disclose.

Benjy Brooks - Improving Gender Equity in Pediatric Surgery

Erin E. Perrone, MD, Moderator: Osseous Solutions and Development Group, LLC (Self): Ownership Interest (Status: Ongoing)

Case Controversies

Todd A. Ponsky, MD, Speaker: GlobalcastMD (Self): Ownership Interest (Status: Ongoing)

Education: Addressing Today's Educational Challenges Using Technology

Katherine Barsness, MD, MS, MBA, Speaker: Bolder Surgical (Self): Advisor or Review Panel member (Status: Ongoing)

Fetal Diagnosis and Treatment Committee - FETO in the Management of CDH: Is it the Future?

Oluyinka Olutoye, MD, PhD, Speaker: Covidien (Self): Other Research Support (Status: Ongoing); Mallinkrodt (Self): Other Research Support (Status: Ongoing)

Jan Deprest, MD, PhD, FRCOG, Speaker: Duomed Chair 'POP-ART' (Self): Research Grant (Status: Ongoing); European Commission in Horizon 2020 (Self): Research Grant (Status: Ongoing); Fotona Translational Research into Vaginal Laser (Self): Research Grant (Status: Ongoing); Sparks Charity Fund (Self): Research Grant (Status: Ongoing)

New Technology

Bethany J. Slater, MD, MBA, Moderator, Speaker: Boulder Surgical (Self): Consultant (Status: Ongoing)
Brian Gulack, MD, MHS, Speaker: Pacira (Self): Advisor or Review Panel member (Status: Ongoing)

Plenary Session 2

Erin E. Perrone, MD, Discussant: Osseous Solutions and Development Group, LLC (Self): Ownership Interest (Status: Ongoing)

Practice Committee: Optimizing Successful Reimbursement of Notoriously Difficult-to-Code Procedures

David Yu, MD, Discussant: Pacira (Self): Consultant (Status: Ongoing)

Quality, Safety and Value in Surgery Award Highlights

Derek Wakeman, MD, Discussant: UR (University of Rochester) Ventures (Self): Co-inventor of a patent pending (no royalties received to date) (Status: Ongoing), Ownership Interest (Status: Ongoing)

Research Committee: Jay and Margie Grosfeld Symposium

James C.Y. Dunn, MD, PhD, Discussant: Eclipse Regenesis (Self): Ownership Interest (Status: Ongoing); Surrozen (Self): Consultant (Status: Terminated)

Scientific Session 1 - Neonatal Surgery

#25 A Novel Toll-Like Receptor 4 Inhibitor Treats Established NEC in Newborn Mice

Andres J. Gonzalez Salazar, MD, Presenting Author: Gen1e Lifesciences (Self): Research Grant (Status: Ongoing)

Brad W. Warner, MD, Discussant: Kallyope (Self): Consultant (Status: Ongoing); Takeda (Self): Advisor or Review Panel member (Status: Ongoing)

Scientific Session 2 - Education, Advocacy, DEI, General Surgery

#P12 Reduction of Surgical Site Infections in Pediatric Patients with Complicated Appendicitis: Utilization of Antibiotic Stewardship Principles and Quality Improvement Methodology

Derek Wakeman, MD, Presenting Author: University of Rochester (Self): Ownership Interest (Status: Ongoing), patent pending related to feeding tubes and other medical devices; unrelated to this presentation and no financial benefit received to date (Status: Ongoing); patent pending for magnetically coupled medical devices; The Childress Institute for Pediatric Trauma: \$1500 travel reimbursement to attend a meeting / workgroup

Scientific Session 4 - General and Thoracic Surgery

Bethany J. Slater, MD, MBA, Moderator: Boulder Surgical: Consultant/Advisory Board, Consulting Fees (e.g., advisory boards)

Variation in Care - Adolescent Inguinal Hernia

Todd A. Ponsky, MD, Discussant: GlobalcastMD (Self): Ownership Interest (Status: Ongoing)

Committee Disclosures

Disclosures were collected from all committee members with influence over the educational content of the annual meeting program. These committee members have reported the following financial relationships and it has been determined that no conflict of interest exists with any of these relationships. All other committee members indicated that they have no financial relationships to disclose.

Benjy Brooks Committee

Marion Henry: Ascendis Pharma, stockholder; Dexcom, stockholder; Eurofins Scientific, stockholder; Edwards Lifesciences, stockholder; Exact Sciences, stockholder; Illumina, stockholder; Lonza, stockholder; Insulet, stockholder; Veela Systems, stockholder; Vertex, stockholder

Childhood Obesity Committee

Aleksander Bernshteyn: Employed by Advent Health for Children
Mohammad Emran: ROMTech stockholder
Sathyaprasad Burjonrappa: American Regent, Advisory Board
Robert Cywes: CEO of non-profit New Era Diabetes Solutions, Inc.
Robert Kanard: Cellphire Inc, stockholder

Diversity, Equity and Inclusion Committee

Michelle Kallis: Intuitive Surgical Inc, Stockholder; Teladoc Health Inc, Stockholder; Livongo Health Inc, stockholder
Sabina Siddiqui: Brio Device, LLC – Founder and Chief Medical Officer
Numa Perez: DayToDay Health, Inc., clinical consultant

Education Committee

Paul Danielson: Clozex Medical – Medical Advisory Board

Fetal Diagnosis and Treatment Committee

Oluyinka Olutoye: Covidien – Grant; Cambridge Publishers – Royalty; Up-to-date - Royalty

Health Policy and Advocacy Committee

Saurabh Saluja: Spouse works for and has stock options with Regeneron
Marion Henry: Ascendis Pharma, stockholder; Dexcom, stockholder; Eurofins Scientific, stockholder; Edwards Lifesciences, stockholder; Exact Sciences, stockholder; Illumina, stockholder; Lonza, stockholder; Insulet, stockholder; Veela Systems, stockholder; Vertex, stockholder
Kathryn Bass: Speaker – Mimedx; Speaker – Medline

Industry Committee

James Geiger: FlexDex, Inc. – Founder, stockholder, Intellectual property
Sanjeev Dutta: Intuitive Surgical – salary and stockholder; Johnson & Johnson - stockholder

New Technology Committee

Numa Perez: DayToDay Health, Inc., clinical consultant

Outcomes and Evidence-based Practice Committee

Adam Goldin: Inside Out Medicine – CMO, stockholder

Practice Committee

Stephen Kim: Molina Healthcare Inc – stockholder; Amag Pharmaceutical – stockholder; Ensign Group Inc – stockholder; HCA Healthcare INC – stockholder; Moderna Inc – stockholder

Program Committee

Bethany Slater: Bolder Surgical – consultant

David Hackam: Abbott – sponsored research grant, speakers bureau

Surgical Quality and Safety Committee

Monica Lopez: UpToDate – Coauthor on 2 topics, Royalties

Adam Goldin: Inside Out Medicine – CMO, Stockholder

Derek Wakeman: University of Rochester (Self): Ownership Interest (Status: Ongoing), patent pending related to feeding tubes and other medical devices; unrelated to this presentation and no financial benefit received to date (Status: Ongoing); patent pending for magnetically coupled medical devices; The Childress Institute for Pediatric Trauma: \$1500 travel reimbursement to attend a meeting / workgroup

Wellness Committee

Robert Obermeyer: Biomet Zimmer, LLC, Consultant (all payment to group)

Daniel Saltzman: Salspera LLC – Microbial Immunotherapy, Founding Partner and Chief Medical Officer

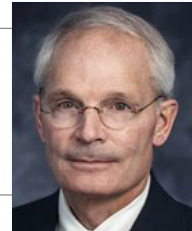
THURSDAY, MAY 20

All times are Eastern USA

HOSTS OF THE DAY: Casey Calkins, MD, Kathleen Van Leeuwen, MD

5:00PM - 5:15PM **APSA Time-out**
Live Chat

5:15PM - 5:30PM **President's Welcome**
John H.T. Waldhausen, MD
President 2020-2021
Seattle Children's Hospital, Seattle, Washington



5:30PM - 6:00PM **Past President's Address**
Introduction
N. Scott Adzick, MD
Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
Joseph P. Vacanti, MD
President 2019-2020
MassGeneral Hospital for Children, Boston, Massachusetts



Our Better Angels and the Invention of Hope

Learning Objectives:

- Understand the evolution of brain growth in human evolution
- Understand the role of eusociality in human evolution

6:05PM - 6:35PM **New Member Introduction**

6:40PM - 6:55PM **Top Educational Content Talk 1: 2020 Review**
Elizabeth A. Beierle, MD
Division of Pediatric Surgery, Department of Surgery, University of Alabama at Birmingham, Birmingham, Alabama

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Understand the value of protocols for CDH
- Understand the methods to reduce the risk of gas embolus
- Understand the the effect of biologics in the surgical management of inflammatory bowel disease
- Understand the methods value of gonad preservation in pateints with complete androgen insensitivity syndrome

7:00PM - 7:40PM **Case Controversies: Hernia; Malrotation; Surgery for Trisomy 18; Chylothorax; ICG; MIS-C**
Todd A. Ponsky, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio
Carroll M. Harmon, MD PhD, John R Oishei Children's Hospital, Buffalo, New York

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Understand how their colleagues may approach common pediatric surgical problems differently
- Become familiar with changing trends in pediatric surgery
- Become familiar with recent data that may change their historical practice
- Understand common controversies facing general pediatric surgeons

FRIDAY, MAY 21

All times are Eastern USA

HOSTS OF THE DAY: Jason Frischer, MD, Jamie Golden, MD, Dave Lal MD

10:00AM - 10:15AM **APSA Time-out**
Live Chat

10:15AM - 11:30AM **Plenary Session 1**
Live Chat

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Discuss the current level of evidence supporting current approaches to common pediatric surgical clinical problems.
- Explain the basic science foundations of pediatric surgical diseases.
- Identify and discuss the challenges facing pediatric surgical patients, their families and surgical providers as the result of information technology, socioeconomic pressures, insurance regulations and governmental policies.

Moderators

Erin M. Garvey, MD, Phoenix Children's Hospital, Scottsdale, Arizona

Drew A. Rideout, MD, PhD, Johns Hopkins All Children's Hospital, Florida

Edward P. Tagge, MD, Loma Linda University Children's Hospital, Loma Linda, California

Discussants

Faraz A. Khan, MD, Loma Linda University Children's Hospital, Division of Pediatric Surgery, Loma Linda, California

Samir K. Gadepalli, MSc, MD, MBA, University of Michigan, Ann Arbor, Michigan

Jason D. Fraser, MD, Children's Mercy Kansas City, Kansas City, Missouri

Marcus D. Jarboe, MD, University of Michigan, Ann Arbor, Michigan

Christine Finck, MD, Connecticut Children's Medical Center, Hartford, Connecticut

Laura F. Goodman, MD, MPH, Loma Linda University Children's Hospital, Loma Linda, California

Christopher W. Snyder, MD, Johns Hopkins All Children's Hospital, St. Petersburg, Florida

Lisa McMahon, MD, Phoenix Children's Hospital, Phoenix, Arizona

Charles J. Smithers, Johns Hopkins All Children's Hospital, St. Petersburg, Florida

1

CONTRAST CHALLENGE ALGORITHMS FOR ADHESIVE SMALL BOWEL OBSTRUCTIONS ARE SAFE IN CHILDREN: A MULTI-INSTITUTIONAL STUDY

Nathan S. Rubalcava, MD¹, Christina M. Bence, MD², Amanda R. Jensen, MD³, Peter C. Minneci, MD MHS⁴, Kyle J. Van Arendonk, MD PhD², Grace Z. Mak, MD⁵, Beth A. Rymeski, DO³, Jonathan E. Kohler, MD⁶, Tariku Beyene, DVM, PhD⁴, Irene Isabel P. Lim, MD⁴, Ronald B. Hirschl, MD MS¹, K. Elizabeth Speck, MD MS¹

¹Section of Pediatric Surgery, Department of Surgery, Michigan Medicine, Ann Arbor, MI ²Division of Pediatric Surgery, Department of Surgery, Medical College of Wisconsin, Milwaukee, WI, USA, ³Division of Pediatric Surgery, Department of Surgery, University of Cincinnati College of Medicine, ⁴Center for Surgical Outcomes Research, Abigail Wexner Research Institute and Department of Surgery, Nationwide Children's Hospital, Columbus, OH, ⁵Section of Pediatric Surgery, Department of Surgery, The University of Chicago Medicine and Biologic Sciences, Chicago, IL, ⁶Division of Pediatric Surgery, UC Davis Children's Hospital, Sacramento, CA

FRIDAY, MAY 21

2

SURGICAL NECROTIZING ENTEROCOLITIS WORSENS NEURODEVELOPMENTAL OUTCOMES IN EXTREMELY LOW BIRTH WEIGHT INFANTS WITH CONCOMITANT INTRAVENTRICULAR HEMORRHAGE

Katherine Culbreath, MD¹, Gregory Keefe, MD¹, Erika M. Edwards², Jamie Knell, MD³, Kate A. Morrow², Roger Soll⁴, Tom Jaksic, MD³, Jeffrey D. Horbar², Biren P. Modi, MD, MPH⁵

¹Boston Children's Hospital, ²Vermont Oxford Network, Burlington, VT, USA, ³Boston Children's Hospital, Boston, MA, USA, ⁴Vermont Oxford Network, ⁵Boston Children's Hospital and Harvard Medical School, Boston, MA, USA

3

A NOVEL THERAPY TO REDUCE NEUROINFLAMMATION IN EXPERIMENTAL NECROTIZING ENTEROCOLITIS

George Biouss, MSc.¹, Zhen Zhang, MD², Bo Li, PhD³, Carol Lee³, Lina Antounians, MSc³, Benjamin Steinberg⁴, Neil Goldenberg⁴, Augusto Zani³, Agostino Pierro, MD³

¹The Hospital for Sick Children, Markham, ON, Canada, ²Children's Hospital Affiliated to Capital Institute of Pediatrics, Beijing, Beijing, China (People's Republic), ³The Hospital for Sick Children, Toronto, ON, Canada, ⁴The Hospital for Sick Children

4

USE OF ULTRASOUND AS A DIAGNOSTIC ADJUNCT IN CASES OF EQUIVOCAL NECROTIZING ENTEROCOLITIS TO REDUCE OVERTREATMENT

MD⁴, John Amodio², Alpna Aggarwal², Chethan Sathya, MD MSc⁵

¹Cohen Children's Medical Center at Hofstra/Northwell, New York, NY, USA, ²Cohen Children's Medical Center at Hofstra/Northwell, ³UH Rainbow Babies and Children's Hospital, Beachwood, OH, USA, ⁴Zucker School of Medicine at Hofstra/Northwell, Cohen Children's Medical Center at Northwell Health, New Hyde Park, NY, USA, ⁵Cohen Children's Medical Center at Hofstra Northwell

6

IS SAME DAY DISCHARGE POSSIBLE FOLLOWING THE NUSS REPAIR FOR PECTUS EXCAVATUM?

Robert Luke Rettig, MD¹, Andrew Rudikoff², Hoi Yee Annie Lo², Constance Lee², Walter Vazquez³, Karen Rodriguez², Donald B. Shaul, MD⁴, Antonio Hernandez Conte, Franklin Banzali, Roman Sydorak²

¹Kaiser Permanente Los Angeles Medical Center, Los Angeles, CA, USA, ²Kaiser Permanente Los Angeles Medical Center, ³Kaiser Permanente San Diego Medical Center, ⁴Southern California Permanente Medical Group, Sherman Oaks, CA, USA

7

COMPUTATIONAL DESIGN OF A NOVEL BIORESORBABLE SLEEVE DEVICE FOR ESOPHAGEAL ATRESIA REPAIR

Sriharsha Ramaraju, PhD¹, Scott J. Hollister², Shaun M. Kunisaki, MD, MSc³

¹Georgia Institute of Technology, ²Wallace A. Coulter Department of Biomedical Engineering, Georgia Institute of Technology, Atlanta, GA, USA, ³Johns Hopkins Hospital, Baltimore, MD, USA

FRIDAY, MAY 21

8

EFFECT OF TRANSANASTOMOTIC FEEDING TUBES ON ANASTOMOTIC STRICTURES IN PATIENTS WITH ESOPHAGEAL ATRESIA AND TRACHEOESOPHAGEAL FISTULA: THE QUEBEC EXPERIENCE

Kathryn LaRusso, MD, MPH¹, Ann Aspirot², Jean-Martin Laberge³, Christopher Faure², Shahrzad Joharifard, MD⁴, Rosa Lakabi³, Nancy Nimer², Amirali Shahi², Sara Kasasni⁵, Dominique Levesque³, Brigitte Moreau⁵, Sherif Emil, MD, CM⁶

¹The Montreal Children's Hospital, McGill University Health Centre, PQ, Canada, ²Centre Hospitalier Universitaire Sainte-Justine, ³The Montreal Children's Hospital, McGill University Health Centre, ⁴Universite de Montreal, Montreal, PQ, Canada, ⁵Centre Hospitalier Universitaire de Sherbrooke, ⁶The Montreal Children's Hospital, McGill University Health Centre, Montreal, PQ, Canada

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IMPLEMENTING A STANDARDIZED GASTROSCHISIS PROTOCOL SIGNIFICANTLY INCREASES PRIMARY BEDSIDE SUTURELESS CLOSURES WITHOUT COMPROMISING CLOSURE SUCCESS OR EARLY CLINICAL OUTCOMES

Shahrzad Joharifard, MD¹, **Maeve O'Neill Trudeau, MD, MPH, FRCSC²**, Shin Miyata³, Josianne Malo², Sarah Bouchard², Mona Beauoyer², Rebecca Brocks², Caroline Lemoine, MD⁴, Andréanne Villeneuve²

¹Universite de Montreal, Montreal, PQ, Canada, ²Centre Hospitalier Universitaire Sainte-Justine, Université de Montréal, ³Cardinal Glennon Children's Hospital, Saint Louis University, ⁴Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

10

DISCONTINUING ANTIBIOTICS ON DISCHARGE IS SAFE IN CHILDREN WITH PERFORATED APPENDICITIS WITHOUT LEUKOCYTOSIS

Christina M. Theodorou, MD¹, Yemi Lawrence², Payam Saadai, MD¹, Shinjiro Hirose, MD¹, Erin G. Brown, MD¹

¹University of California, Davis Medical Center, Sacramento, CA, USA, ²UC Davis Medical Center

11:35AM - 12:20PM

Systematic Review of Gastroschisis

Outcomes and Evidence-based Practice Committee

Mark B. Slidell, MD MPH

Comer Children's Hospital, The University of Chicago, Chicago, Illinois

Joanne E. Baerg, BSc, MD, EMHA

Presbyterian Health System, Foothill Ranch, California

APSA QSC Toolkit - Gastroschisis

Loren Berman, MD

Nemours | Alfred I. duPont Hospital for Children, Wilmington, Delaware

Stephen B. Shew, MD

Stanford Children's Health, Lucile Packard Children's Hospital, Palo Alto, California

Live Discussion

Learning Objective:

At the conclusion of this session, attendees will be able to:

- Understand the current evidence regard the management of gastroschisis;
- be exposed to the toolkit to integrate this evidence into their practice

FRIDAY, MAY 21

12:25PM - 12:45PM **Quality, Safety and Value in Surgery Award Highlights**

Discussants

Derek Wakeman, MD

University of Rochester, Rochester, New York

Mehul V. Raval, MD, MS

Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois

Award Finalists

17

REDUCTION OF POST-OPERATIVE OPIOID USE IN NEONATES FOLLOWING CONGENITAL DIAPHRAGMATIC HERNIA REPAIRS: A QUALITY IMPROVEMENT INITIATIVE

David F. Grabski, MD¹, Rick Vavolizza², Daniel E. Levin, MD³, Jonathan Swanson², Eugene D. McGahren, MD², Jeffrey W. Gander, MD⁴

¹University of Virginia, VA, USA, ²University of Virginia, ³University of Virginia, ⁴University of Virginia Children's Hospital, Charlottesville, VA, USA

P6

A COST-EFFECTIVE AND SAFE QUALITY IMPROVEMENT INITIATIVE FOR PEDIATRIC INTUSSUSCEPTION

Seyed A. Arshad, MD¹, Nutan B. Hebballi, BDS, MPH², Elenir Avritscher¹, Susan John¹, Robert Lapus¹, KuoJen Tsao, MD³, Akemi L. Kawaguchi, MD¹

¹McGovern Medical School at The University of Texas at Houston (UTHealth), ²McGovern Medical School at the University of Texas at Houston (UTHealth), Houston, TX, USA, ³McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA

1:15PM - 1:35PM

Top Educational Content Talk 2: Intestinal Failure – Improved Prognosis with Dedicated Intestinal Rehabilitation Programs

Hannah Piper, MD

BC Children's Hospital, Vancouver, British Columbia, Canada

Moderator

Patrick J. Javid, MD

Seattle Children's Hospital and University of Washington School of Medicine, Seattle, Washington

Live Discussion

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Appreciate the improved outcomes for children with intestinal failure managed with multidisciplinary care
- Understand the importance of accurate anatomic documentation in predicting prognosis

FRIDAY, MAY 21

1:40PM - 2:00PM

Top Educational Content Talk 3: Family-Centered Care

Maria Cho, JD, MA

Inside Out Medicine, Seattle, Washington

Chat Moderator

Loren Berman, MD

Nemours | Alfred I. duPont Hospital for Children, Wilmington, Delaware

Live Discussion

Learning Objective:

At the conclusion of this session, attendees will be able to:

- Understand the how to integrate equitable Family-centered care in their practice with respect to parent responsibilities

2:05PM - 2:45PM

Presidential Address

Introduction

Robert S. Sawin, MD

Seattle Children's Hospital, Seattle, Washington

A Surgeon's Purpose

John H.T Waldhausen, MD

Seattle Children's Hospital, Washington

Learning Objective:

At the conclusion of this session, attendees will be able to:

- Use art and literature to allow listeners to have a better understanding how we can empathize and care for our patients and families when they are confronting illness in a child.

2:50PM - 3:35PM

Presidential Symposium - Are We Training Too Many (Traditional) Pediatric Surgeons?

Moderators

Samuel M. Alaish, MD, Johns Hopkins University School of Medicine, Baltimore, Maryland

Abigail Martin, MD, MA, Nemours A.I. duPont Hospital for Children and Sidney Kimmel Medical College of Thomas Jefferson University, Wilmington, Delaware

Pro Side

Mary Brandt, MD, Tulane University School of Medicine, New Orleans, Louisiana

Robert L. Ricca, MD, University of South Carolina, Greenville, Greenville, South Carolina

Con Side

Edward M. Barksdale, Jr., MD, UH Rainbow Babies and Children's Hospital, CWRU School of Medicine, Cleveland, Ohio

Douglas C. Barnhart, MD, University of Utah, Salt Lake City, Utah

Live Rebuttal

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Have a deeper understanding of the problem and possible solutions of access to pediatric surgeons in this country.
- Be familiar with the data regarding the degree to which adult surgeons provide pediatric surgical care in this country.
- Learn the effects that increasing the number of pediatric surgery fellowships has had on objectives 1 and 2.

SATURDAY, MAY 22

All times are Eastern USA

HOSTS OF THE DAY: Timothy Lee, MD, Nathan Novotny, MD, Erin Rowell, MD

10:00AM - 10:15AM **APSA Time-out**
Live Chat

10:15AM - 11:00AM **Business Meeting**

- Bylaws amendments
- Treasurer's report
- Foundation report
- Transition of leadership

Live Chat

11:00AM - 11:45AM **Town Hall**

- Added proficiencies of surgeons and care levels
- Membership for allied healthcare and advanced practice professionals

Live Chat

11:45AM - 1:00PM **Plenary Session 2**

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Discuss the current level of evidence supporting current approaches to common pediatric surgical clinical problems.
- Explain the basic science foundations of pediatric surgical diseases.
- Identify and discuss the challenges facing pediatric surgical patients, their families and surgical providers as the result of information technology, socioeconomic pressures, insurance regulations and governmental policies.

Moderators

Biren P. Modi, MD, MPH, Boston Children's Hospital and Harvard Medical School, Boston, Massachusetts
David J. Hackam, MD, PhD, Johns Hopkins Children's Center, Baltimore, Maryland
Barrie S. Rich, MD, Cohen Children's Medical Center, New Hyde Park, New York

Discussants

Christa N. Grant, MD, Penn State Children's Hospital, Pennsylvania
Steven Stylianos, MD, Morgan Stanley Children's Hospital, Columbia University, New York, New York
Isam W. Nasr, MD, Johns Hopkins, Baltimore, Maryland
Erin E. Perrone, MD, University of Michigan, Ann Arbor, Michigan
Bindi Naik-Mathuria, MD, MPHc, Texas Children's Hospital, Houston, Texas
Allison L. Speer, MD, McGovern Medical School at UTHealth, Houston, Texas
Tim Jancelewicz, MD, MA, MS, Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, Tennessee
Alejandro V. Garcia, MD, Johns Hopkins University, Baltimore, Maryland
Yue-Yung Hu, MD, MPH, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois

SATURDAY, MAY 22

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OUTCOMES FOLLOWING IMPLEMENTATION OF A LEVEL 1 NEURO TRAUMA ACTIVATION

Kelli Patterson, DO, MS¹, Andrew B. Nordin, MD², Amanda Onwuka³, Kyle Horvath⁴, Eric Sribnick⁴, Rajan K. Thakkar³

¹Nationwide Children's Hospital; Ohio State University, Columbus, OH, USA, ²University at Buffalo, Buffalo, NY, USA, ³Nationwide Children's Hospital, Columbus, OH, USA, ⁴Nationwide Children's Hospital

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BLUNT CEREBROVASCULAR INJURY IN CHILDREN: A PROSPECTIVE OBSERVATIONAL STUDY

Ruth A. Lewit, MD, MPH¹, Lois W. Sayrs, PhD², Sandra Grimes³, Trey Eubanks⁴, Adam C. Alder, MD, MSCS⁵, Jeremy Johnson⁶, Karla Lawson⁷, Samara Lewis⁸, Robert Maxson⁹, Jessica Naiditch¹⁰, David M. Notrica, MD², Carol Rangel⁹, Cynthia Greenwell¹¹, Krista Stephenson¹²

¹Le Bonheur Children's Hospital, University of Tennessee Health Sciences Center, Memphis, TN, USA, ²Phoenix Children's Hospital, Phoenix, AZ, USA, ³Le Bonheur Children's Hospital, ⁴Le Bonheur Children's Hospital, University of Tennessee Health Sciences Center, ⁵UTSW, Dallas, TX, USA, ⁶University of Oklahoma Health Science Center, Oklahoma City, OK, USA, ⁷University of Texas at Austin, ⁸Oklahoma University Health Science Center, Department of Surgery, Division of Pediatric Surgery, ⁹Arkansas Children's Hospital, ¹⁰Dell Children's Hospital, ¹¹UTSW, ¹²Arkansas Children's Hospital

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TREATMENT AND OUTCOMES OF CONGENITAL OVARIAN CYSTS - A STUDY BY THE CANADIAN CONSORTIUM FOR RESEARCH IN PEDIATRIC SURGERY (CANCORPS)

Nadia Safa, MD, CM¹, Natalie Yanchar², Pramod S. Puligandla, MD, MSc¹, Maida Sewitch³, Robert Baird, MSc, MDCM⁴, Mona Beaunoyer⁵, Niamh Campbell⁶, Rati Chadha⁷, Christopher Griffiths⁸, Sarah Jones⁹, Manvinder Kaur¹⁰, Annie Le-Nguyen⁵, Ahmed Nasr¹⁰, Nelson Piché⁵, Hannah Piper, MD⁴, Pascale Prasil¹¹, Rodrigo LP Romao, MD MSc⁶, Lisa VanHouwelingen⁸, Paul Wales¹², Elena Guadagno, MS¹, Sherif Emil, MD, CM¹ for the Canadian Consortium for Research in Pediatric Surgery (CanCORPS)

¹Harvey E. Beardmore Division of Pediatric Surgery; The Montreal Children's Hospital; McGill University Health Centre, ²Division of Pediatric Surgery; Alberta Children's Hospital; University of Calgary, ³Department of Clinical Epidemiology, Centre for Outcomes Research and Evaluation, Research Institute of the McGill University Health Centre, ⁴Division of Pediatric Surgery; Children's Hospital of British Columbia; University of British Columbia, ⁵Division of Pediatric Surgery; Centre Hospitalier Universitaire Sainte-Justine; Université de Montreal, ⁶Division of Pediatric Surgery; IWK Health Sciences Centre; Dalhousie University, ⁷Division of Maternal Fetal Medicine; University of Calgary, ⁸Division of Pediatric Surgery; McMaster Children's Hospital; McMaster University, ⁹Division of Pediatric Surgery; Children's Hospital London Health Sciences Centre; Western University, ¹⁰Division of Pediatric Surgery; Children's Hospital of Eastern Ontario; University of Ottawa, ¹¹Division of Pediatric Surgery; Centre Hospitalier de l'Université Laval, ¹²Division of Pediatric General and Thoracic Surgery; The Hospital for Sick Children; University of Toronto

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GLIA CELL-DERIVED NEUROTROPHIC FACTOR ENHANCED ENTERIC PROGENITOR MIGRATION IN AN EMBRYONIC GUT EXPLANT MODEL OF HIRSCHSPRUNG'S DISEASE

Dorothy Lee, BSc¹, Bo Li, PhD¹, Atsuyuki Yamataka, MD PhD², Agostino Pierro, MD¹

¹The Hospital for Sick Children, Toronto, ON, Canada, ²Department of Pediatric General and Urogenital Surgery, Juntendo University School of Medicine, Tokyo, Japan

SATURDAY, MAY 22

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PRENATAL IMAGING MEASUREMENTS CORRELATE WITH EARLY POST-NATAL PULMONARY HYPERTENSION AND CARDIAC DYSFUNCTION IN CONGENITAL DIAPHRAGMATIC HERNIA

Vikas S. Gupta, MD¹, Matthew T. Harting, MD, MS, FAAP, FACS², Erin E. Perrone, MD³, Neil Patel⁴, Yigit Guner, MD, MS⁵, Tim Jancelewicz, MD, MA, MS⁶, Ashley Ebanks⁷, Anthony Johnson, MD⁸, KuoJen Tsao, MD⁹, Kevin P. Lally, MD, MS²

¹McGovern Medical School at UTHealth, Dallas, TX, USA, ²McGovern Medical School at UTHealth, Houston, TX, USA, ³University of Michigan, Ann Arbor, MI, USA, ⁴Royal Hospital for Children Glasgow, Department of Neonatology, ⁵Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, ⁶Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN, USA, ⁷University of Texas Health Sciences Center at Houston, ⁸McGovern Medical School at UTHealth, ⁹McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA

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RISK-ADJUSTED STANDARDIZED MORTALITY RATIOS AMONG NEONATES WITH CONGENITAL DIAPHRAGMATIC HERNIA ON EXTRACORPOREAL LIFE SUPPORT. STUDY BY ELSO CDH INTEREST GROUP

Yigit Guner, MD, MS¹, Matthew T. Harting, MD, MS, FAAP, FACS², Tim Jancelewicz, MD, MA, MS³, Peter T. Yu, MD, MPH⁴, Danh Nguyen⁵

¹Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, ²McGovern Medical School at UTHealth, Houston, TX, USA, ³Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN, USA, ⁴Children's Hospital of Orange County and University of California - Irvine, Newport Beach, CA, USA, ⁵University of California Irvine

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SURVIVAL EFFECT OF COMPLETE SURGICAL RESECTION OF THE PRIMARY TUMOUR IN PATIENTS WITH METASTATIC, HIGH-RISK NEUROBLASTOMA IN A LARGE CANADIAN COHORT

Natashia Seemann, MD MSc FRCSC¹, Craig Erker², Meredith Irwin³, Steven Lopushinsky⁴, Ketan Kulkarni², Conrad Fernandez², Rodrigo LP Romao, MD MSc⁵

¹Children's Hospital of Western Ontario, London, ON, Canada, ²IWK Health Centre, ³The Hospital for Sick Children, ⁴Alberta Children's Hospital, ⁵IWK Health, Dalhousie University, Halifax, NS, Canada

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DEVELOPMENT OF AN ACADEMIC RVU (ARVU) SYSTEM TO PROMOTE PEDIATRIC SURGICAL ACADEMIC PRODUCTIVITY

Gail E. Besner, MD¹, Nicole Brigstock²

¹Nationwide Childrens Hospital, Columbus, OH, USA, ²Child USA

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COMPASSION FATIGUE, BURNOUT, AND COMPASSION SATISFACTION IN PEDIATRIC SURGEONS IN THE U.S.

Alex J. Sarosi, BA¹, Kurt F. Heiss, MD², Brian Arrinza Coakley, MD³, Loren Berman, MD⁴, Kristy Rialon, MD⁵, Claudia Mueller, MD⁶, Mary Brandt, MD⁷, Andrea Weintraub, MD⁸

¹Icahn School of Medicine at Mount Sinai, ²Emory University, CHOA, GA, USA, ³The Mount Sinai Health System, New York, NY, USA, ⁴Nemours I Alfred I. duPont Hospital for Children, Wilmington, DE, USA, ⁵Baylor College of Medicine, Houston, TX, USA, ⁶Stanford University Medical Center, ⁷Tulane University School of Medicine, ⁸Mount Sinai Hospital

SATURDAY, MAY 22

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CLINICAL REGRESSION OF INGUINAL HERNIAS IN PREMATURE INFANTS WITHOUT SURGICAL REPAIR

Mark Fleming, II, MD¹, David Grabski, MD², Emmanuel L. Abebrese, MD², Daniel Levin, MD², Sara K. Rasmussen, MD PhD², Eugene D. McGahren, MD², Jeffrey Gander, MD³

¹University of Virginia Health, Charlottesville, VA, USA, ²University of Virginia, Charlottesville, VA, USA, ³University of Virginia Children's Hospital, Charlottesville, VA, USA

1:30PM - 1:50PM

Top Educational Content Talk 4: Trauma – Changing Guidelines for Fluid Resuscitation in Pediatric Trauma

Robert T. Russell, MD, MPH

University of Alabama at Birmingham and Children's of Alabama, Birmingham, Alabama

Live Discussion

Adam M. Vogel, MD

Texas Children's Hospital, Houston, Texas

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Understand the disadvantages of repeated administration of crystalloid boluses in resuscitation of a pediatric trauma patient in hemorrhagic shock
- At the conclusion of the session, attendees will understand the ATLS recommendation to transition to O negative blood after one crystalloid bolus in resuscitation of pediatric trauma patient in hemorrhagic shock

1:55PM - 2:15PM

Top Educational Content Talk 5: Cancer as a Chronic Disease – Long Term Follow-up and Morbidities

Christopher Weldon, MD PhD

Boston Children's Hospital/Harvard Medical School, Boston, Massachusetts

Live Discussion

Brent Weil, MD

Boston Children's Hospital, Boston, Massachusetts

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Understand how molecular genetics can help with the diagnosis and treatment of Thyroid Cancer
- Understand the clinical implications of anaplastic bilateral Wilms Tumor
- Understand the molecular basics of Neuroblastoma

SATURDAY, MAY 22

2:20PM - 3:05PM

Variation in Care - Adolescent Inguinal Hernia

Benjamin Zendejas, MD, MSc, Boston Children's Hospital, Boston, Massachusetts
Michael H. Livingston, MD, MSc, University of Rochester, Rochester, New York
Justin Wagner, MD, Rush University Medical Center, Chicago, Illinois
Brian Gulack, MD, MHS, Rush University Medical Center, Chicago, Illinois
Jill S. Whitehouse, MD, Joe DiMaggio Children's Hospital, Hollywood, Florida

Panelists

Terry L. Buchmiller, MD, Boston Children's Hospital, Boston, Massachusetts
Todd A. Ponsky, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio
Ian MacQueen, MD, David Geffen School of Medicine at UCLA, Los Angeles, California
Andrew Griffiths, MD, Bassett Medical Center, Cooperstown, New York
David Chen, MD

Live Discussion

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Review operative techniques for adolescents with inguinal hernias and discuss best available evidence
- Discuss approach to recurrent inguinal hernia in adolescents who previously underwent "high ligation alone"
- Review best available evidence for management of "sports hernias" in adolescents and young adults

3:10PM - 3:55PM

Systematic Reviews/Quality Toolkit: Inflammatory Bowel Disease/ Enhanced Recovery

Systematic Review of Ulcerative Colitis in Children and Adolescents

Rebecca M. Rentea, MD, Children's Mercy Kansas City, Kansas City, Missouri
Alana Beres, MD, University of Texas Southwestern, Children's Medical Center, Dallas, Texas

Elizabeth J. Renaud, MD, Hasbro Children's Hospital and Alpert Medical School of Brown University, Department of Pediatric Surgery, Providence, Rhode Island
Robert L. Ricca, MD, University of South Carolina, Greenville, Greenville, South Carolina

Enhanced Recovery in Pediatric GI Surgery

Mehul V. Raval, MD, MS, Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois

APSA QSC Toolkit: Enhanced Recovery After GI Surgery

Michael R. Phillips, MD, The University of North Carolina, Chapel Hill, North Carolina

Live Discussion

Learning Objectives:

At the conclusion of this session, attendees will be able to:

- Understand the current evidence for the surgical treatment of inflammatory bowel disease
- Access the toolkit in order to implement enhanced recovery after surgery into their practice

3:55PM

President's Closing Remarks

Thank You

SUPPORTING INSTITUTIONS

- Akron Children's Hospital
- Beaumont Children's Hospital
- Boston Children's Hospital
- Children's Hospital Colorado
- Children's Hospital of Wisconsin
- Connecticut Children's
- C.S. Mott Children's Hospital/Michigan Medicine
- Dayton Children's Hospital
- Geisinger
- Golisano Children's Hospital/University of Rochester Medical Center
- Harvey E. Beardmore Division of Pediatric Surgery; The Montreal Children's Hospital; McGill University
- Joe DiMaggio Children's Hospital
- Loma Linda University Children's Hospital
- Mary Bridge Children's Hospital
- Mayo Clinic Pediatric Surgery
- Nationwide Children's Hospital
- Nemours Children's Health
- Ochsner Hospital for Children
- Penn State Children's Hospital
- Phoenix Children's Hospital
- Rady Children's Hospital of San Diego
- Sanford Children's Specialty Clinic
- Seattle Children's Hospital
- Shriners Hospitals for Children-Northern California
- St. Louis Children's Hospital
- Stanford Children's Health/Lucile Packard Children's Hospital Stanford
- University of Maryland Children's Hospital



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FUTURE MEETINGS



APSA 2022

Save the Date

APSA 2022 Annual Meeting

May 12-15, 2022

Marriott Marquis San Diego Marina
San Diego, California USA

Abstract submission dates for the 2022 APSA meeting

- Submission opens August 20, 2021
- Submission deadline October 11, 2021

APSA 2023 Annual Meeting

May 14-17, 2023

Hyatt Regency Grand Cypress
Orlando, Florida, USA

APSA 2024 Annual Meeting

Dates TBD

JW Marriott Phoenix Desert Ridge Resort & Spa
Phoenix, Arizona USA