

AGENDA



APSA
American Pediatric
Surgical Association
Saving Lifetimes



**APSA-IPSO PROGRAM | MAY 15
ANNUAL MEETING | MAY 16-19**

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



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TUESDAY, MAY 14

General Sessions

8:00am - 5:00pm	Board Meeting (APSA Board of Governors)	Desert Suite 4-6
12:00pm - 6:00pm	Registration Desk Hours	East Registration Desk
12:00pm - 6:00pm	Speaker Ready Room	Desert Suite 5

WEDNESDAY, MAY 15

General Sessions

6:00am - 6:00pm	Lactation Room	See Registration Desk
6:00am - 6:00pm	Registration Desk Hours	East Registration Desk
6:00am - 6:00pm	Speaker Ready Room	Desert Suite 5

IPSO Oral Abstract Session I

7:45am - 9:15am

Moderators:

David Rodeberg, MD, University of Kentucky, Lexington, KY USA
Danielle Cameron, MD, MPH, Mass General for Children, Boston, MA USA

Chat Room Moderators:

Laura A. Boomer, MD, Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- By the end of the presentation attendees will be able to recognize that social isolation and food insecurity may be causative in modifying the tumor itself and thus lead to poor outcomes in neuroblastoma models.
- By the end of the presentation attendees will be able to articulate the potential for treatment of neuroblastoma tumor cells by targeted migration of stem cells to these tumors and not normal tissue.
- By the end of the presentation attendees will be able to describe that circulation neuroblastoma tumor cells appear to be genetically predisposed to survive and locally suppress the immune response.

IPSO 1

Training Autologous Tumor Specific T-cells for Effective Immunotherapy of Neuroblastoma

Sarah L. Wright, MD¹, Xiaofang Wu, PhD², Mousumi Basu², Mikael Petrosyan, MD³, Anthony Sandler, MD³

¹Walter Reed National Military Medical Center, Bethesda, MD, USA, ²Sheikh Zayed Institute for Pediatric Surgical Innovation, Children's National Medical Center, Washington, DC, USA, ³Children's National Medical Center, Washington, DC, USA

IPSO 2

Identifying Novel Genetic Markers in Pediatric Rhabdomyosarcoma

Sathyaprasad Burjonrappa, MD, MS, MBA, FRCS(Ed), FACS¹, **Joyce Xu²**, Theodore Wang³

¹Rutgers RWJMS Medical School, New Brunswick, NJ, USA, ²Rutgers Robert Wood Johnson Medical School, Holmdel, NJ, USA, ³Rutgers Robert Wood Johnson Medical School, Piscataway, NJ, USA

IPSO 3

Social Determinants of Health Impact Neuroblastoma Progression In-vivo

Keyonna Williams, MD¹, Sahiti Chukkapalli, MS², Kimber Converso-Baran, RDCS², Olivia Tussing², Kenneth Resnicow, PhD³, Erika A. Newman, MD⁴

¹C.S. Mott Childrens Hospital University of Michigan, Ann Arbor, MI, Ann Arbor, MI, USA, ²University of Michigan, Ann Arbor, MI, USA, ³University of Michigan, School of Public Health, Ann Arbor, MI, USA, ⁴C.S Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA

IPSO 4

A Comparison of in vivo Tumor-homing Abilities of Placental-derived and Bone Marrow-derived Mesenchymal Stromal Cells in High-risk Neuroblastoma

Kathleen E. Doyle, MD¹, Abd-elrahman S. Hassan, MD², Monica Rodriguez, BS³, Maria Sutter, BS⁴, Priyadarsini Kumar, PhD⁵, Erin G. Brown, MD⁵

¹UC Davis Medical Center, Sacramento, CA, USA, ²UC Davis Medical Center, sacramento, CA, USA, ³University of California Davis, ⁴University of California Davis Medical Center, Sacramento, CA, USA, ⁵University of California, Davis Medical Center, Sacramento, CA, USA

IPSO 5

Characterization of Neuroblastoma Circulating Tumor Cells Reveal Insights into Disease Progression and Immune Landscape

Keyonna Williams, MD¹, Sahiti Chukkapalli, MS², Shamileh Fouladdel, BS², Sunitha Nagrath, PhD², Erika A. Newman, MD³

¹C.S. Mott Childrens Hospital University of Michigan, Ann Arbor, MI, Ann Arbor, MI, USA, ²University of Michigan, Ann Arbor, MI, USA, ³C. S Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA

IPSO 7

Multioime Sequencing Reveals Common Transcriptional Circuitry and Gene Expression Patterns in High-risk Neuroblastoma Cells Regardless of Mycn Status

Richard A. Guyer, MD, PhD, Jessica Mueller, MD, Allan M. Goldstein, MD

Massachusetts General Hospital, Boston, MA, USA

IPSO 8

Novel Bioengineered Microrna Therapy for High-risk Neuroblastoma

Kathleen E. Doyle, MD¹, Maria Sutter, BS², Meijuan Tu, PhD³, Neelu Batra, PhD³, Priyadarsini Kumar, PhD⁴, Aiming Yu, PhD³, Erin G. Brown, MD⁴

¹UC Davis Medical Center, Sacramento, CA, USA, ²University of California Davis Medical Center, Sacramento, CA, USA, ³University of California Davis, Sacramento, CA, USA, ⁴University of California, Davis Medical Center, Sacramento, CA, USA

IPSO 9

Co-localization of Tumor Associated Macrophages and Regulatory T Cells Creates Immunoregulatory Niches in Human Hepatoblastoma

Mahati Kotamraju¹, Phoebe Miller, MD MS¹, Jarish Cohen, MD PhD¹, Soo-Jin Cho, MD, PhD², Amar Nijagal, MD³

¹University of CA, San Francisco, San Francisco, CA, USA, ²UCSF, San Francisco, CA, USA, ³UCSF Benioff Children's Hospital, San Francisco, CA, USA

IPSO 6

The Role of YAP-1 on Hepatoblastoma Vascular Invasion

Andy F. Espinoza, MD¹, Roma Patel², Kalyani Patel², Dolores Lopez-Terrada², Sarah Woodfield, PhD², Sanjeev Vasudevan, MD³

¹Michael E. DeBakey Department of Surgery - Baylor College of Medicine, Houston, TX, USA, ²Texas Children's Hospital, Houston, TX, USA, ³Texas Children's Hospital / Baylor College of Medicine, Houston, TX, USA

9:15am - 9:45am

Refreshment Break

Exhibit Hall - Grand Saguario Foyer

Beyond the Little Green Giant. Next Generation Fluorescence: Moving Beyond ICG

9:45am - 10:45am

Moderators:

Simone de C V Abib, MD, PhD, Federal University of São Paulo, Brazil
Shahab Shaffiey, MD, MSc, Nicklaus Children's Hospital, Miami, FL, USA

Chat Room Moderators:

Laura A. Boomer, MD
Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD
Nationwide Children's Hospital, The Ohio State University, College of Medicine, Columbus, OH

ADC and MIBG Imaging for Neuroblastoma Surgery

Dominique C. Simons, MSc
Princess Máxima Center for Pediatric Oncology, Utrecht, Netherlands

Labeled GD2

Marcus M. Malek, MD
UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA

Next Generation Fluorescence: Folate Receptor & Beyond

Timothy B. Lautz, MD
Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

Recent High Impact Publications in Oncology

10:45am - 11:30am

Moderators:

Kimberly Riehle, MD, University of Washington, Seattle, WA USA
Paul Losty, MD FRCS, University of Liverpool, UK, Liverpool, England, United Kingdom

Chat Room Moderators:

Laura A. Boomer, MD, Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

Reducing Unnecessary Oophorectomies for Benign Ovarian Neoplasms in Pediatric Patients Peter C. Minneci, MD, MHSc

Nemours Children's Hospital Delaware Valley, Wilmington, DE, USA

Cumulative Burden of Late, Major Surgical Intervention in Survivors of Childhood Christopher Weldon, MD PhD

Boston Children's Hospital/Harvard Medical School, Boston, MA, USA

The Results of Concentration of Care: Surgical Outcomes of Neuroblastoma in the Netherlands

Marc Wijnen, MD
Princess Maxima Center, Horst, N/A, Netherlands

IPSO Lunch/Quick Shots

11:30am - 12:45pm

Moderators:

Barrie S. Rich, MD, Cohen Children's Medical Center, New Hyde Park, NY USA
Elisabeth Wynne, MD, Dayton Children's Hospital, Dayton, OH USA

Chat Room Moderators:

Laura A. Boomer, MD, Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Identify active areas of ongoing international surgical oncology research.

IPSO QS 1

Improving the Patient and Family Experience in Pediatric Surgical Oncology - A Survey from the Pediatric Surgical Oncology Research Collaborative (PSORC) Family Advocacy Committee

Barrie S. Rich, MD¹, Janet Panoch, PhD², Kimberly Riehle, MD³, Reto M. Baertschiger, MD, PhD⁴, Kelly Trout, BSN, RN⁵, Richard D. Glick, MD¹, Dave R. Lal, MD⁶, Hau D. Le, MD⁷, Roshni Dasgupta, MD, MPH⁸, Peter Ehrlich, MD⁹

¹Cohen Children's Medical Center, New Hyde Park, NY, USA, ²Indiana University School of Medicine, Greencastle, IN, USA, ³University of Washington, Seattle, WA, USA, ⁴Geisel School of Medicine at Dartmouth, Dartmouth Hitchcock Medical Center, Lebanon, NH, USA, ⁵International WAGR Syndrome Association, IWSA, SAN ANTONIO, TX, USA, ⁶Children's Wisconsin, Milwaukee, WI, USA, ⁷University of Wisconsin School of Medicine and Public Health, Madison, WI, USA, ⁸Cincinnati Children's Medical Center, Cincinnati, OH, USA, ⁹C.S. Mott Children's Hospital, Ann Arbor, MI, USA

IPSO QS 2

Cisplatin Resistant High-risk Neuroblastoma Treated with Zika Viral Therapy Confers a Survival Advantage

Joseph Mazar, PhD¹, Emma Sutton, BS², Rosa Rosario², Jeanne K. Brooks, MS³, Matt Peloquin, MS⁴, Matt Longo, BS³, Tamarah J. Westmoreland, MD, PhD⁵

¹Nemours Children's Hospital, Orlando, FL, USA, ²Nemour's Children's Health, Orlando, FL, USA, ³Vaxxinity Inc, Merritt Island, FL, USA, ⁴Loyal, San Francisco, CA, USA, ⁵Nemours Children's Hospital, Orlando, FL, USA

IPSO QS 3

Characterizing Renal Sarcomas in Children in a Large North American Cohort – a Pediatric Surgical Oncology Research Collaborative Study

Catherine Beckhorn, B.A.¹, Nelly-Ange T. Kontchou, MD, MBA², Katlyn G. McKay, MD², Hernan Correa, MD², Joseph C. Fusco, MD², Harold J. Leraas, MD, MSPHS, MHS, MA³, Hannah Rinehardt, MD⁴, Joseph Brungardt, MD⁵, John Lundstedt, BS⁶, Jonathan Roach, MD⁷, David W. Hoyt, BS⁸, Timothy B. Lautz, MD⁹, Lindsay J. Talbot, MD¹⁰, Sara Mansfield, MD¹¹, Nelson Piche¹², Barrett Cromeens, DO, PhD¹³, Shannon L. Castle, MD¹⁴, Eugene S. Kim, MD¹⁵, Julia Debertin¹⁶, Joseph Murphy, MD¹⁷, Erika A. Newman, MD¹⁸, Peter Mattei, MD¹⁹, Dave R. Lal, MD²⁰, Bhargava Mullapudi, MD²¹, Joshua Short, MD, PhD²², Robin T. Petroze, MD, MPH²³, David H. Rothstein, MD, MS²⁴, Barrie S. Rich, MD²⁵, Brian Arrinza Coakley, MD, FACS, FAAP, Dipl ABOM²⁶, Danielle Cameron, MD, MPH²⁷, Mary T. Austin, MD, MPH²⁸, Christa Grant, MD, MPH²⁹, Elizabeth A. Fialkowski, MD, MA³⁰, Tamer M. Ahmed, MD³¹, Erin G. Brown, MD³², Hau D. Le, MD³³, Chloe Boehmer, BS, BA⁵, Roshni Dasgupta, MD, MPH³⁴, Marcus M. Malek, MD³⁵, Elisabeth (Lisa) Tracy, MD³, Bo Lovvorn, III, Doctor of Medicine³⁶

¹Duke University School of Medicine, Durham, NC, USA, ²Vanderbilt University Medical Center, Nashville, TN, USA, ³Duke University Medical Center, Durham, NC, USA, ⁴Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ⁵Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ⁶Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ⁷Children's Hospital Colorado, Denver, CO, USA, ⁸Primary Children's Hospital, University of Utah, Salt Lake City, UT, USA, ⁹Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ¹⁰St. Jude Children's Research Hospital, Memphis, TN, USA, ¹¹Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ¹²Division of Pediatric Surgery, Centre Hospitalier Universitaire Ste-Justine, Montreal, PQ, Canada, ¹³Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA, ¹⁴Valley Children's Hospital, Madera, CA, USA, ¹⁵Cedar - Sinai Medical Center, Los Angeles, CA, USA, ¹⁶Mayo Clinic, Rochester, MN, USA, ¹⁷Children's Health Children's Medical Center University of Texas Southwestern, Dallas, TX, USA, ¹⁸C. S Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA, ¹⁹Children's Hospital of Philadelphia, Philadelphia, PA, USA, ²⁰Children's Wisconsin, Milwaukee, WI, USA, ²¹University of Missouri-Kansas City School of Medicine, Kansas City, MO, USA, ²²Children's Minnesota, Minneapolis, MN, USA, ²³University of Michigan, Ann Arbor, MI, USA, ²⁴Division of Pediatric General and Thoracic Surgery, University of Washington, Seattle, WA, USA, ²⁵Cohen Children's Medical Center, New Hyde Park, NY, USA, ²⁶The Mount Sinai Health System, New York, NY, USA, ²⁷Mass General for Children, Boston, MA, USA, ²⁸McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA, ²⁹New York Medical College, Valhalla, NY, USA, ³⁰Department of Pediatric

Surgery, Oregon Health & Science University, Portland, OR, USA, ³¹Golisano Children's Hospital, Syracuse, NY, USA, ³²University of California, Davis Medical Center, Sacramento, CA, USA, ³³University of Wisconsin School of Medicine and Public Health, Madison, WI, USA, ³⁴Cincinnati Children's Medical Center, Cincinnati, OH, USA, ³⁵UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ³⁶Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN, USA

IPSO QS 4

Early Removal of Indwelling Urinary Catheters in Children Undergoing Abdominal Tumor Resection with Epidural Analgesia

Shachi Srivatsa, MD¹, Jennifer H. Aldrink, MD², Dana Michelle Schwartz, MD³, Grant J. Heydinger, MD⁴, Andrew M. Davidoff, MD⁵, Andrew J. Murphy⁵, Kyle Rove⁶, Sara Mansfield, MD⁷

¹Division of Pediatric Surgery, Department of Surgery, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ²The Ohio State University College of Medicine, Nationwide Children's Hospital, Columbus, OH, USA, ³Division of Pediatric Surgery, Department of Surgery, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ⁴Department of Anesthesiology and Pain Medicine, Nationwide Children's Hospital, Columbus, OH, USA, ⁵St. Jude Children's Research Hospital, Memphis, TN, USA, ⁶Children's Hospital Colorado, ⁷Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA

IPSO QS 5

Characterizing Congenital Mesoblastic Nephroma in Children – a Pediatric Surgical Oncology Research Collaborative Study

Harold J. Leraas, MD, MSPHS, MHS, MA¹, Catie Beckhorn, BS², Jonathan Roach, MD³, Julia Debertin⁴, David W. Hoyt, BS⁵, Timothy B. Lautz, MD⁶, Sara Mansfield, MD⁷, Lindsay J. Talbot, MD⁸, Nelson Piche⁹, Barrett Cromeens, DO, PhD¹⁰, Shannon L. Castle, MD¹¹, Eugene S. Kim, MD¹², Joseph Murphy, MD¹³, Erika A. Newman, MD¹⁴, Peter Mattei, MD¹⁵, Dave R. Lal, MD¹⁶, Bhargava Mullanpudi, MD¹⁷, Joshua Short, MD, PhD¹⁸, Robin T. Petroze, MD, MPH¹⁹, David H. Rothstein, MD, MS²⁰, Barrie S. Rich, MD²¹, Brian Arrinza Coakley, MD, FACS, FAAP, Dipl ABOM²², Danielle Cameron, MD, MPH²³, Mary T. Austin, MD, MPH²⁴, Christa Grant, MD, MPH²⁵, Elizabeth A. Fialkowski, MD, MA²⁶, Tamer M. Ahmed, MD²⁷, Erin G. Brown, MD²⁸, Hau D. Le, MD²⁹, Roshni Dasgupta, MD, MPH³⁰, Joseph Brungardt, MD³¹, John Lundstedt, BS³², Chloe Boehmer, BS, BA³¹, Marcus M. Malek, MD³³, Hannah Rinehardt, MD³⁴, Bo Lovvorn, III, Doctor of Medicine³⁵, Hernan Correa, MD³⁶, Katlyn G. McKay, MD³⁶, Nelly-Ange T. Kontchou, MD, MBA³⁶, Elisabeth (Lisa) Tracy, MD¹

¹Duke University Medical Center, Durham, NC, USA, ²Duke University School of Medicine, Durham, NC, USA, ³Children's Hospital Colorado, Denver, CO, USA, ⁴Mayo Clinic, Rochester, MN, USA, ⁵Primary Children's Hospital, University of Utah, Salt Lake City, UT, USA, ⁶Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁷Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ⁸St. Jude Children's Research Hospital, Memphis, TN, USA, ⁹Division of Pediatric Surgery, Centre Hospitalier Universitaire Ste-Justine, Montreal, PQ, Canada, ¹⁰Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA, ¹¹Valley Children's Hospital, Madera, CA, USA, ¹²Cedars - Sinai Medical Center, Los Angeles, CA, USA, ¹³Children's Health Children's Medical Center University of Texas Southwestern, Dallas, TX, USA, ¹⁴C. S Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA, ¹⁵Children's Hospital of Philadelphia, Philadelphia, PA, USA, ¹⁶Children's Wisconsin, Milwaukee, WI, USA, ¹⁷University of Missouri-Kansas City School of Medicine, Kansas City, MO, USA, ¹⁸Children's Minnesota, Minneapolis, MN, USA, ¹⁹University of Michigan, Ann Arbor, MI, USA, ²⁰Division of Pediatric General and Thoracic Surgery, University of Washington, Seattle, WA, USA, ²¹Cohen Children's Medical Center, New Hyde Park, NY, USA, ²²The Mount Sinai Health System, New York, NY, USA, ²³Mass General for Children, Boston, MA, USA, ²⁴McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA, ²⁵New York Medical College, Valhalla, NY, USA, ²⁶Department of Pediatric Surgery, Oregon Health & Science University, Portland, OR, USA, ²⁷Golisano Children's Hospital, Syracuse, NY, USA, ²⁸University of California, Davis Medical Center, Sacramento, CA, USA, ²⁹University of Wisconsin School of Medicine and Public Health, Madison, WI, USA, ³⁰Cincinnati Children's Medical Center, Cincinnati, OH, USA, ³¹Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ³²Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ³³UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ³⁴Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ³⁵Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN, USA,

³⁶Vanderbilt University Medical Center, Nashville, TN, USA

IPSO QS 6

Blood Transfusion During Surgical Resection of Hepatoblastoma Is Independently Associated with Poorer Overall Survival- a Pediatric Surgical Oncology Research Collaborative (PSORC) Study

Stephanie F. Polites, MD, MPH¹, Jennifer H. Aldrink, MD², Timothy B. Lautz, MD³, Mecklin V. Ragan, MD⁴, Audra J. Reiter, MD, MPH⁵, Stephanie Y. Chen, MD⁶, Eugene S. Kim, MD⁷, Hannah Rinehardt, MD⁸, Marcus M. Malek, MD⁹, Andrew M. Fleming, MD¹⁰, Andrew J. Murphy¹¹, Robert Vierkant, MS¹, Jonathan Roach, MD¹², Sridharan Radhakrishnan¹³, Scott S. Short, MD¹⁴, Nelson Piche¹⁵, Bo Lowvorn, III, Doctor of Medicine¹⁶, Elisabeth (Lisa) Tracy, MD¹⁷, Juan Favela, MD¹⁸, Hau D. Le, MD¹⁹, John P. Marquart, MD²⁰, Brian T. Craig, MD²¹, Dave R. Lal, MD²², Natasha Seemann, MD²³, Robin T. Petroze, MD, MPH²⁴, Barrie S. Rich, MD²⁵, Richard D. Glick, MD²⁵, Leigh Selesner, MD²⁶, Ashley Yoo, BS²⁶, Elizabeth A. Fialkowski, MD, MA²⁷, Erin G. Brown, MD²⁸, Chloe Boehmer, BS, BA²⁹, Roshni Dasgupta, MD, MPH³⁰, Max R. Langham, Jr., MD

¹Mayo Clinic, Rochester, MN, USA, ²The Ohio State University College of Medicine, Nationwide Children's Hospital, Columbus, OH, USA, ³Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁴Nationwide Children's Hospital, Columbus, OH, Corpus Christi, TX, USA, ⁵Division of Pediatric Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁶Cedars-Sinai Medical Center, Los Angeles, CA, USA, ⁷Cedars-Sinai Medical Center, Los Angeles, CA, USA, ⁸Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ⁹UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ¹⁰UTHSC Department of Surgery, Memphis, TN, USA, ¹¹St. Jude Children's Research Hospital, Memphis, TN, USA, ¹²Children's Hospital Colorado, Denver, CO, USA, ¹³University of Utah School of Medicine, Salt Lake City, UT, USA, ¹⁴Primary Children's Hospital / University of Utah, Salt Lake City, UT, USA, ¹⁵Division of Pediatric Surgery, Centre Hospitalier Universitaire Ste-Justine, Montreal, PQ, Canada, ¹⁶Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN, USA, ¹⁷Duke University Medical Center, Durham, NC, USA, ¹⁸University of Wisconsin, Madison, WI, USA, ¹⁹University of Wisconsin School of Medicine and Public Health, Madison, WI, USA, ²⁰Children's of Wisconsin, Milwaukee, WI, USA, ²¹Children's Hospital of Wisconsin Medical College of Wisconsin, Milwaukee, WI, USA, ²²Children's Wisconsin, Milwaukee, WI, USA, ²³Western University, London, ON, Canada, ²⁴University of Michigan, Ann Arbor, MI, USA, ²⁵Cohen Children's Medical Center, New Hyde Park, NY, USA, ²⁶Oregon Health & Sciences University, Portland, OR, USA, ²⁷Department of Pediatric Surgery, Oregon Health & Science University, Portland, OR, USA, ²⁸University of California, Davis Medical Center, Sacramento, CA, USA, ²⁹Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ³⁰Cincinnati Children's Medical Center, Cincinnati, OH, USA

IPSO QS 7

Textbook Outcome: A Novel Quality Measure for Surgical Management of Neuroblastoma with Image-defined Risk Factors

Tarek M. Zaghloul, MD, PhD¹, Luca Pio, MD², Suraj Sarvode Mothi¹, M. Beth McCarville¹, Aya G. Mostafa³, Samhita Swamy³, Hafeez Abdelhafeez, MD¹, Andrew M. Davidoff, MD¹

¹St. Jude Children's Research Hospital, Memphis, TN, USA, ²St. Jude Research Children's Hospital, Memphis, TN, USA, ³St. Jude Research Children's Hospital, Memphis, TN, USA

IPSO QS 8

Perioperative Antibiotic Use in Pediatric Solid Tumor Resection

Huma Faiz Halepota, MD¹, Suraj Sarvode Mothi², Tarek M. Zaghloul, MD, PhD², Matthew Joseph Lynn, MD¹, Emile Crouzen, MD³, Bhanumathi LAKSHMINARAYANAN, FRCS (Paeds Surg)³, Andrew J. Murphy²

¹St. Jude Children's Research Hospital, Memphis, TN, USA, ²St. Jude Children's Research Hospital, Memphis, TN, USA, ³Leeds General Infirmary, Leeds, England, United Kingdom

Great Debates

1:00pm - 2:00pm

Upfront vs Delayed Nephrectomy for Unilateral Renal Tumors in Children, the COG vs SIOP Approach

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Describe the preferred timing of nephrectomy based on COG vs. SIOP Renal Tumor Trials.
- Explain the indications for delayed nephrectomy on COG Renal Tumor Trials.
- Discuss the indications for upfront nephrectomy on SIOP Renal Tumor Trials.
- Understand the differences in the complication risk following upfront vs delayed nephrectomy.
- Understand the difference in the staging and indications for adjuvant radiation and chemotherapy between the two groups (COG and SIOP).

Moderator:

Nicholas Cost, MD, University of Colorado, Denver, CO USA

Chat Room Moderators:

Laura A. Boomer, MD, Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

Speakers:

Jennifer H. Aldrink, MD, The Ohio State University College of Medicine, Nationwide Children's Hospital, Columbus, OH, USA

Jan Godzinski, MD PhD. Dept. of Pediatric Surgery, Marciniak Hospital and Medical University, Wroclaw, Poland, Wroclaw, Dolnoslaskie, Poland

Does Gross Total Resection Impact Survival in High-Risk

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand pros and cons of attempting a gross total resection for high-risk neuroblastoma.

Moderator:

Erika A. Newman, MD, C. S Mott Children's Hospital, University of Michigan, Ann Arbor, MI USA

Chat Room Moderators:

Laura A. Boomer, MD, Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

Speakers:

Paul Losty, MD FRCS, University of Liverpool, UK, Liverpool, England, United Kingdom

Andrew M. Davidoff, MD, St. Jude Children's Research Hospital, Memphis, TN, USA

9:15am - 9:45am

Refreshment Break

Exhibit Hall - Grand Saguaro Foyer

IPSO Oral Abstract Session II

2:30pm - 4:00pm

Moderators:

Sara Mansfield, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH USA

Roshni Dasgupta, MD, MPH, Cincinnati Children's Medical Center, Cincinnati, OH USA

Chat Room Moderators:

Laura A. Boomer, MD, Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the differences between TI-RADS and the American Thyroid Association recommendations for fine needle aspiration biopsy for children with thyroid nodules.
 - Recognize the impact of enhanced recovery efforts on postoperative recovery for children with solid tumors.
 - Understand appropriate oncologic margins when performing wide local excision for children with cutaneous melanoma.
-

IPSO 10

Assessing the Diagnostic Accuracy of TI-RADS in Pediatric Thyroid Nodules: A Multi-institutional Review

Shachi Srivatsa, MD¹, Ameer Al-Hadidi, MD², Joseph R. Stanek³, Kyle Horvath⁴, Lauren N. Parsons, MD⁵, Claudia Martinez-Rios⁶, Amanda Hopp⁷, Samuel Engle, DO⁸, Matthew Plunk⁹, Gali Shapira-Zaltsberg¹⁰, Sapna Nagar¹¹, Sean E. Masters, MD¹², Sayf Al-Katib¹³, Rennard B. Tucker, MD¹⁴, Lamy Atweh, MD¹⁵, Summit Shah, MD¹⁵, Adam Bobbey, MD⁴, Robert Hoffman, MD⁴, Jennifer H. Aldrink, MD¹⁶

¹Division of Pediatric Surgery, Department of Surgery, Nationwide Childrens Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ²Nationwide Children's Hospital, Bloomfield Hills, MI, USA, ³Nationwide Children's Hospital Research Institute, Columbus, OH, USA, ⁴Nationwide Children's Hospital, ⁵Children's Wisconsin/Medical College of Wisconsin, Milwaukee, WI, USA, ⁶The Hospital for Sick Children, Toronto, ON, Canada, ⁷Children's Wisconsin/Medical College of Wisconsin, Wauwatosa, WI, USA, ⁸Medical College of Wisconsin, Wauwatosa, WI, USA, ⁹Department of Pediatric Radiology, Children's Wisconsin/Medical College of Wisconsin, Milwaukee, WI, USA, ¹⁰CHEO, Ottawa, ON, Canada, ¹¹William Beaumont University Hospital, Royal Oak, MI, USA, ¹²Department of General Surgery, Corewell Health East William Beaumont University Hospital, Royal Oak, MI, Royal Oak, MI, USA, ¹³Corewell Health, Royal Oak, MI, USA, ¹⁴William Beaumont University Hospital/Corewell Health East/Oakland Univ. William Beaumont School of Medicine, Royal Oak, MI, USA, ¹⁵Nationwide Children's Hospital, Columbus, OH, USA, ¹⁶The Ohio State University College of Medicine, Nationwide Children's Hospital, Columbus, OH, USA

IPSO 11

Intraoperative Molecular Imaging of Neuroblastoma with Dinutuximab-DTPA[In-111]-IR800

Lauren T. Rosenblum, MD, PhD¹, ReidAnn E. Sever, B.A.², Dominic Menendez³, Kayla Stanley⁴, W. Barry Edwards, PhD³, Gary Kohanbash, PhD², Marcus M. Malek, MD⁵

¹University of Pittsburgh Medical Center, Pittsburgh, PA, USA, ²University of Pittsburgh, Pittsburgh, PA, USA, ³University of Missouri, Columbia, MO, USA, ⁴University of Pittsburgh, ⁵UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA

IPSO 12

An Assessment of Narrative Operative Reports for Wilms Tumor Resection Using Consensus Component Criteria

Zach Morrison, MD¹, Niharika Rajesh², Andrew M. Davidoff, MD¹, Hafeez Abdelhafeez, MD¹

¹St. Jude Children's Research Hospital, Memphis, TN, USA, ²Royal College of Surgeons in Ireland, Canton, MI, USA

IPSO 13

Performance of a Novel Pediatric Extracranial Solid Tumor Fertility Loss Risk Assessment Tool on Identification of Children at High-risk for Treatment-related Fertility Loss

Kristine S. Corkum, MD¹, Anna Linton, PA-C², Anna Furniss, MS³, Nicholas Cost, MD⁴, Jonathan Roach, MD⁵

¹*Surgical Oncology Program - Children's Hospital Colorado, Department of Surgery - University of Colorado School of Medicine, Aurora, CO, USA*, ²*Surgical Oncology Program - Children's Hospital Colorado, Department of Pediatric Surgery - University of Colorado School of Medicine, Aurora, CO, USA*, ³*Adult and Child Center for Health Outcomes Research and Delivery Science - University of Colorado School of Medicine/Children's Hospital Colorado, Aurora, CO, USA*, ⁴*University of Colorado, De, CO, USA*, ⁵*Children's Hospital Colorado, Denver, CO, USA*

IPSO 14

Enhanced Recovery After Surgery for Pediatric Abdominal Tumor Resections Shortens Hospitalization and Decreases Opioid Use: a Prospective Multi-institutional Study

Sara Mansfield, MD¹, Meera Kotagal, MD, MPH², Stephen J. Hartman, MD², Andrew J. Murphy³, Andrew M. Davidoff, MD³, Brady Hogan⁴, Marc Mecoli, MD², Nicholas Cost, MD⁵, Kyle Rove⁶

¹*Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA*, ²*Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA*, ³*St. Jude Children's Research Hospital, Memphis, TN, USA*, ⁴*Children's Hospital Colorado, Aurora, CO, USA*, ⁵*University of Colorado, De, CO, USA*, ⁶*Children's Hospital Colorado*

IPSO 15

Postoperative Fever in Pediatric Oncology Patients Undergoing Solid Tumor Resection

John Lundstedt¹, Emily Vore, MD², Meera Kotagal, MD, MPH², Joseph Brungardt, MD², Todd M. Jenkins, PhD, MPH², Roshni Dasgupta, MD, MPH³

¹*Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA*, ²*Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA*, ³*Cincinnati Children's Medical Center, Cincinnati, OH, USA*

IPSO 16

Evaluation of Image-defined Risk Factor Assessment in Patients with Intermediate-risk Neuroblastoma: A Report from the Children's Oncology Group Study ANBL0531

Erin G. Brown, MD¹, Elijah S. Adkins, MD², Peter Mattei, MD³, Fredric A. Hoffer, MD⁴, Wendy B. London, PhD⁵, Arlene Naranjo, PhD⁶, Mary Schmidt, MD⁷, Michael D. Hogarty, MD⁸, Meredith Irwin⁹, Susan Cohn, MD¹⁰, Julie Park, MD¹¹, John M. Maris, MD¹², Rochelle Bagatell, MD³, Clare Twist, MD¹³, Jed Nuchtern, MD¹⁴, Andrew M. Davidoff, MD¹¹, Erika A. Newman, MD¹⁵, Dave R. Lal, MD¹⁶

¹*University of California, Davis Medical Center, Sacramento, CA, USA*, ²*Prisma Health, Columbia, SC, USA*, ³*Children's Hospital of Philadelphia, Philadelphia, PA, USA*, ⁴*University of Washington, Bainbridge Island, WA, USA*, ⁵*Dana-Farber Cancer Institute and Boston Children's Hospital, Boston, MA, USA*, ⁶*University of Florida Children's Oncology Group Statistics & Data Center, Gainesville, FL, USA*, ⁷*University of Illinois Cancer Center, Chicago, IL, USA*, ⁸*The Children's Hospital of Philadelphia/University of Pennsylvania SOM, Philadelphia, PA, USA*, ⁹*The Hospital for Sick Children, Chicago, IL, USA*, ¹⁰*University of Chicago, Chicago, IL, USA*, ¹¹*St. Jude Children's Research Hospital, Memphis, TN, USA*, ¹²*CHOP, Philadelphia, PA, USA*, ¹³*Roswell Park Comprehensive Cancer Center, Buffalo, NY, USA*, ¹⁴*Texas Children's Hospital, Houston, TX, USA*, ¹⁵*C. S Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA*, ¹⁶*Children's Wisconsin, Milwaukee, WI, USA*

IPSO 17

Outcome and Risk Factors for Patients with Perineal and Perianal Rhabdomyosarcoma- a Report from the Children's Oncology Group Soft Tissue Sarcoma Committee

Roshni Dasgupta, MD, MPH¹, Wei Xue², Andrea Hayes³, Suzanne L. Wolden, MD⁴, Torunn Yock⁵, Sheri Spunt⁶, Rajkumar Venkatramani⁷, **David Rodeberg, MD⁸**

¹*Cincinnati Children's Medical Center, Cincinnati, OH, USA*, ²*COG Data Center, Gainesville, FL, USA*, ³*Howard University, Washington DC, DC, USA*, ⁴*Memorial Sloan Kettering, New York, NY, USA*, ⁵*Massachusetts General Hospital Cancer Center, Boston, MA, USA*, ⁶*Lucile Packard Children's Hospital Stanford University, Palo Alto, CA, USA*, ⁷*Baylor College of Medicine/Dan L Duncan Comprehensive Cancer Center, Houston, TX, USA*, ⁸*University of Kentucky, Lexington, KY, USA*

IPSO 19

Performance of a Novel Pediatric Extracranial Solid Tumor Fertility Loss Risk Assessment Tool on The Impact of Surgical Margin in Wide Local Excision of Pediatric Melanoma – an Argument for a More Conservative Approach

Anthony V. Basta¹, Connor D. Fritz, MS¹, Neha Malik, MD¹, Lily Koscielniak, PA-C, Lauren Mayon, MS, PA-C2, Cynthia Herzog, MD¹, Mary T. Austin, MD, MPH³

¹MD Anderson Cancer Center, Houston, TX, USA, ²UT MD Anderson Cancer Center, Houston, TX, USA, ³McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA

IPSO 20

Racial and Ethnic Survival Disparities in Pediatric Oncology over Time: An Analysis of the SEER Registry

Nicole J. Kus, MD¹, Shalini Sahoo, PhD, MS¹, Theodore Laetsch, MD², Gregory Tiao, MD³, Minerva Mayorga-Carlin, MPH⁴, Yelena Yesha, PhD, M. Sc, B. Sc⁵, John Sorkin, MD¹, Brajesh Lal, MD¹, Brian Englum, MD, MHS⁶

¹University of Maryland Medical Center, Baltimore, MD, USA, ²Children's Hospital of Philadelphia, Philadelphia, PA, USA, ³Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ⁴University of Maryland Medical Center, Baltimore, MD, USA, ⁵University of Maryland, Baltimore, MD, USA, ⁶University of Maryland School of Medicine, Baltimore, MD, USA

Beyond the Cross-Sectional Scan, Next Generation Surgical Guidance

4:00pm - 5:00pm

Moderator:

Peter Ehrlich, MD, C.S. Mott Children's Hospital, Ann Arbor, MI USA
Mark L. Ryan, MD, MSPH, University of Texas Southwestern, Dallas, TX

Chat Room Moderators:

Laura A. Boomer, MD, Children's Hospital of Richmond at Virginia Commonwealth University, Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Value 3d imaging techniques in pediatric surgical oncology

Augmented Reality

Marc Wijnen, MD, Princess Maxima Center, Horst, N/A, Netherlands

Ready Surgeon One: Virtual and Mixed Reality in Pediatric Surgical Oncology

Daniel J. Robertson, MD, University of Illinois College of Medicine, Children's Hospital of Illinois, OSF Healthcare, Chicago, IL

3D Modeling

Joseph C. Fusco, MD, Vanderbilt University Medical Center, Nashville, TN, USA

Mistakes Made: Lessons Learned

5:00pm - 5:30pm

Moderators:

Alessandro Crocoli, MD, Bambino Gesù Children Hospital – IRCCS, Rome, Italy
Jennifer H. Aldrink, MD, The Ohio State University College of Medicine,
Nationwide Children’s Hospital, Columbus, OH

Chat Room Moderators:

Laura A. Boomer, MD, Childrens Hospital of Richmond at Virginia Commonwealth University,
Richmond, VA USA

Dana Michelle Schwartz, MD, Nationwide Children’s Hospital, The Ohio State University
College of Medicine, Columbus, OH

Speakers:

Simone de C V Abib, MD, PhD
Federal University of São Paulo, Pediatric Oncology Institute - GRAACC/UNIFESP,
São Paulo, Sao Paulo, Brazil

Robert C. Shamberger, MD
Boston Children's Hospital/Harvard Medical School, Wellesley, MA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the road to a career in pediatric surgical oncology.
- Recognize the challenges in a career in pediatric surgical oncology.
- Be aware of the various opportunities for involvement in pediatric surgical oncology nationally and internationally.
- Recognize that errors are inherent in the professional development of a physician. In pediatric surgical oncology, as well as in other fields, it is necessary to examine errors in order to comprehend their causes and then convert them into opportunities for learning and development.
- Embrace a constructive mindset towards mistakes, perceiving them not as obstacles but as a driving force for progress, even in a difficult setting like pediatric surgical oncology.

Augmented Reality

Marc Wijnen, MD, Princess Maxima Center, Horst, N/A, Netherlands

Ready Surgeon One: Virtual and Mixed Reality in Pediatric Surgical Oncology

Joshua Honeyman, MD, Memorial Sloan Kettering Cancer Center, New York, NY, USA

3D Modeling

Joseph C. Fusco, MD, Vanderbilt University Medical Center, Nashville, TN, USA

5:30pm - 6:00pm

IPSO Program Adjourns

6:00pm - 7:00pm

Program Committee Meeting

Pinnacle Peak 1

6:00am - 9:00pm

Program Directors Meeting

Grand Saguario East

6:30pm - 8:00pm

IPSO Reception - ticketed event

6:30pm - 10:00pm

Publications Committee Meeting

Desert Suite 4

IPSO Poster Hall

IPSO P 1

A Comparison of Recurrence Rates Between Pediatric Hepatocellular Neoplasm Not Otherwise Specified and Hepatoblastoma

Michael Fenlon, MD¹, Katherine Brandt, CRC², Caroline P. Lemoine, MD², Riccardo Superina, MD²

¹Lurie Children's Hospital of Chicago, Carlsbad, CA, USA, ²Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

IPSO P 2

Social Determinants of Health Influence Survival in Common Pediatric Solid Tumors

Colleen P. Nofi, DO, MBA, MSc¹, Bailey Roberts, MD², Meera Kotagal, MD, MPH³, Erin G. Brown, MD⁴,
Barrie S. Rich, MD⁵, Richard D. Glick, MD⁵

¹Cohen Children's Medical Center at Northwell Health, Manhasset, NY, USA, ²Cohen Children's Medical Center at Hofstra/Northwell, Long Island City, NY, USA, ³Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ⁴University of California, Davis Medical Center, Sacramento, CA, USA, ⁵Cohen Children's Medical Center, New Hyde Park, NY, USA

IPSO P 3

A Comparison of Commonly Utilized Diagnostic Biopsy Techniques for Pediatric Patients with Cancer: A Systematic Review by the APSA Cancer Committee

Martha E. Teke, MD1, Barrie S. Rich, MD2, Ashley Walther, MD3, Dana Michelle Schwartz, MD4, Lucas McDuffie, MD5, Jonathan Roach, MD6, David H. Rothstein, MD, MS7, Dave R. Lal, MD8, Elisabeth (Lisa) Tracy, MD9, Jennifer H. Aldrink, MD10, David Rodeberg, MD11, Gisela Butera¹², Erin G. Brown, MD13

¹UT Southwestern Medical Center, Dallas, TX, USA, ²Cohen Children's Medical Center, New Hyde Park, NY, USA, ³Children's Hospital Los Angeles, Long Beach, CA, USA, ⁴Division of Pediatric Surgery, Department of Surgery, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ⁵Oregon Health and Science University, Portland, OR, USA, ⁶Children's Hospital Colorado, Denver, CO, USA, ⁷Division of Pediatric General and Thoracic Surgery, University of Washington, Seattle, WA, USA, ⁸Children's Wisconsin, Milwaukee, WI, USA, ⁹Duke University Medical Center, Durham, NC, USA, ¹⁰The Ohio State University College of Medicine, Nationwide Children's Hospital, Columbus, OH, USA, ¹¹University of Kentucky, Lexington, KY, USA, ¹²National Institute of Health, Bethesda, MD, USA, ¹³University of California, Davis Medical Center, Sacramento, CA, USA

IPSO P 4

Pancreatic Involvement in Patients with Neuroblastoma: A Single-institution Retrospective Review

Andrew J. Chi, BA1, Khalid Elmalik, MD1, Enrico Danzer, MD1, William Hammond, MD1, Anita Price, MD1, Gerald Behr, MD1, Shakeel Modak, MD1, Joshua Honeyman, MD2, J. Ted Gerstle, MD3, Michael LaQuaglia, MD1

¹MSKCC, New York, NY, USA, ²Memorial Sloan Kettering Cancer Center, New York, NY, USA, ³Memorial Sloan Kettering Cancer Center

IPSO P 5

Survivorship After Childhood Urologic Cancer – What Is Causing Death and When?

Naveen Gupta, MPH1, Jonathan Walker, MD2, Kathleen Kieran, MD3, Will Cranford, MS4, Christopher McLouth, PhD4, Nicholas Cost, MD5, Amanda Saltzman, MD4

¹Georgetown University School of Medicine, Washington, DC, USA, ²Atrium Health, Levine Children's Urology Department, Charlotte, NC, USA, ³Seattle Children's Hospital, Seattle, WA, USA, ⁴University of Kentucky, Lexington, KY, USA, ⁵University of Colorado, De, CO, USA

IPSO P 6

A Single Institution Analysis of Surveillance Practice for Low Risk Neuroblastic Tumors

Shachi Srivatsa, MD1, Dana Michelle Schwartz, MD2, Sara Mansfield, MD3, Keri A. Streby, MD4, Nilay Shah, MD5, Mark Ranalli⁵, Kathleen Nicol⁶, Jennifer H. Aldrink, MD⁷

¹Division of Pediatric Surgery, Department of Surgery, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ²Division of Pediatric Surgery, Department of Surgery, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ³Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ⁴Nationwide Children's Hospital/The Ohio State University, Dublin, OH, USA, ⁵Division of Hematology/Oncology/BMT, Department of Pediatrics, Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ⁶Nationwide Children's Hospital, Columbus, OH, USA, ⁷The Ohio State University College of Medicine, Nationwide Children's Hospital, Columbus, OH, USA

IPSO P 7

Management and Outcomes of Hepatoblastoma in Patients with Trisomy 18: A Systematic Review and Pooled Analysis of 61 Patients

Ioannis A. Ziogas, MD, MPH1, Christos D. Kakos, MD, MSc2, Stamatios Kokkinakis, MD, MSc3, Jonathan L. Hills-Dunlap, MD, MPH4, Kristine S. Corkum, MD5, Shannon Nicole Acker, MD6, Jose Diaz-Miron, MD4, Bo Lovvorn, III, Doctor of Medicine⁷, Jonathan Roach, MD8, Ankush Gosain, MD, PhD, MBA⁴

¹University of Colorado, Aurora, CO, USA, ²Aristotle University of Thessaloniki School of Medicine, Thessaloniki, Thessaloniki, Greece, ³University of Crete School of Medicine, Heraklion, Iraklion, Greece, ⁴Children's Hospital Colorado, Aurora, CO, USA, ⁵Surgical Oncology Program - Children's Hospital Colorado, Department of Surgery - University of Colorado School of Medicine, Aurora, CO, USA, ⁶Children's Hospital Colorado, Englewood, CO, USA, ⁷Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN, USA, ⁸Children's Hospital Colorado, Denver, CO, USA

IPSO P 8

Central Hepatectomy for Pediatric Hepatoblastoma: A Case Series of Three Patients

Travis M. Sullivan, MD1, Daniel J. Scheese, MD, MBS2, Zachary Rollins, MD3, Amit Sharma3, Madhu Gowda, MD4, Francis Austin, MD4, Gregory Vorona, MD4, Steven C. Smith, MD3, Laura A. Boomer, MD4

1Department of Surgery, VCU Health, Richmond, VA, USA, 2Division of Pediatric Surgery, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, USA, Baltimore, MD, USA, 3Virginia Commonwealth University Health System, Richmond, VA, USA, 4Childrens Hospital of Richmond at Virginia Commonwealth University, Richmond, VA, USA

IPSO P 9

Prevalence, Characteristics and Management of Pancreatic Tumors Among Children with Tuberous Sclerosis Complex

Raissa Li, BS1, Emine Arcasoy, BS2, Jurriaan M. Peters, MD, PhD2, Peter E. Davis, MD2, Junne Kamihara, MD, PhD3, Sahin Mustafa, MD, PhD2, Brent Weil, MD

1Boston Children's Hospital, Lexington, MA, USA, 2Boston Children's Hospital, Boston, MA, USA, 3Dana-Farber Cancer Institute, Boston, MA, USA

IPSO P 10

Bridging the Gap: Comprehensive Childhood Cancer Patient Support Organizations Provide Significant Financial Relief to Families Pursuing Cancer Care

Harold J. Leraas, MD, MSPHS, MHS, MA1, Shannon Brown2, Catherine Beckhorn, B.A.3, Claire Washabaugh3, Julie Thamby3, Lars Wagner, MD4, Rachel Greenup, MD, MPH5, Laura Allen6, Elisabeth (Lisa) Tracy, MD1

1Duke University Medical Center, Durham, NC, USA, 2Childrens Cancer Partners of the Carolina, Spartanburg, SC, USA, 3Duke University School of Medicine, Durham, NC, USA, 4Duke Department of Pediatrics, Division of Hematology/Oncology, Durham, NC, USA, 5Yale University School of Medicine, New Haven, CT, USA, 6Children's Cancer Partners of the Carolinas, Spartanburg, SC, USA

IPSO P 11

Essential Knowledge and Skills for the Practice of Pediatric Surgical Oncology: A Modified Delphi Consensus Study by the Apsa Cancer Committee

Elisabeth (Lisa) Tracy, MD1, Abigail Engwall-Gill2, Erin G. Brown, MD3, Raphael Sun, MD4, Catherine Beckhorn, B.A.5, Ashley Walther, MD6, David H. Rothstein, MD, MS7, Dave R. Lal, MD8, Jonathan Roach, MD9, Nicholas Cost, MD10, Barrie S. Rich, MD11, Peter Ehrlich, MD12, Jennifer H. Aldrink, MD13, David Rodeberg, MD14

1Duke University Medical Center, Durham, NC, USA, 2Johns Hopkins University School of Medicine, Baltimore, MD, USA, 3University of California, Davis Medical Center, Sacramento, CA, USA, 4Oregon Health and Science University, Portland, OR, USA, 5Duke University School of Medicine, Durham, NC, USA, 6Children's Hospital Los Angeles, Long Beach, CA, USA, 7Division of Pediatric General and Thoracic Surgery, University of Washington, Seattle, WA, USA, 8Children's Wisconsin, Milwaukee, WI, USA, 9Children's Hospital Colorado, Denver, CO, USA, 10University of Colorado, De, CO, USA, 11Cohen Children's Medical Center, New Hyde Park, NY, USA, 12C.S. Mott Children's Hospital, Ann Arbor, MI, USA, 13The Ohio State University College of Medicine, Nationwide Children's Hospital, Columbus, OH, USA, 14University of Kentucky, Lexington, KY, USA

IPSO P 12

A Successful Whipple Procedure in a Pediatric Patient with Solid pseudo–Papillary Neoplasm of the Pancreas, the First Case Report from Africa

Workye Molla, Yoseph Bedore, Dagmawi Dagne

St. Peter Specialized Hospital., Addis Ababa, Adis Abeba, Ethiopia

THURSDAY, MAY 16

General Sessions

1:00am - 11:00am	Quiet Room	Desert Suite 7
6:00am - 7:30am	Continental Breakfast	Exhibit Hall - Grand Saguaro Foyer
6:00am - 6:00pm	Lactation Room	Desert Suite 7
6:00am - 6:00pm	Registration Desk Hours	East Registration Desk
6:00am - 6:00pm	Speaker Ready Room	Desert Suite 5
6:30am - 7:30am	Committee Meetings	
8:00am - 10:00am	Companion Hospitality Suite	Twenty 6 Lounge

APSA President's Welcome

7:30am - 8:00am	David M. Powell, MD, APSA President
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Plenary Session I

7:30am - 8:00am	<p>Moderators: Andreas H. Meier, MD Med, Golisano Children's Hospital, Syracuse, NY USA Shannon L. Castle, MD, Valley Children's Hospital, Madera, CA USA</p> <p>Chat Room Moderator: Brielle Ochoa, MD, Phoenix Children's Hospital, Phoenix, AZ USA</p> <p>LEARNING OBJECTIVES</p> <p>By the end of this presentation, attendees will be able to:</p> <ul style="list-style-type: none"> • Share the most important and recent updates from the wide field of pediatric surgery. • Understand how ERAS programs can decrease length of stay and opioid use in pediatric patients undergoing surgery for an abdominal tumor. • Recognize common late-onset morbidities after repairs of tracheoesophageal fistulas. • Appreciate what personal characteristics are associated with imposter phenomenon in pediatric surgeons. • Know how honey and acetic acid can and should be used in cases of button battery ingestions. • Be aware of the length of time it takes for sensory nerves to recover after cryoablation. • Recognize how racial disparities impact the workup and evaluation of patients with adrenal masses.
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APSA 1

Enhanced Recovery After Surgery for Pediatric Abdominal Tumor Resections Shortens Hospitalization and Decreases Opioid Use: A Prospective Multi-institutional Study

Sara Mansfield, MD¹, Meera Kotagal, MD, MPH², Stephen J. Hartman, MD², Andrew J. Murphy³, Andrew M. Davidoff, MD³, Brady Hogan⁴, Marc Mecoli, MD², Nicholas Cost, MD⁵, Kyle Rove⁶

¹Nationwide Children's Hospital, The Ohio State University College of Medicine, Columbus, OH, USA, ²Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ³St. Jude Children's Research Hospital, Memphis, TN, USA, ⁴Children's Hospital Colorado, Aurora, CO, USA, ⁵University of Colorado, De, CO, USA, ⁶Children's Hospital Colorado

APSA 2

A Decade in Review: Characteristics and Outcomes of Fetoscopic Endoluminal Tracheal Occlusion for Congenital Diaphragmatic Hernia at a Large Fetal Center

Sarah E. Peiffer, MD, MPH¹, Y. Deniz Sevilimis, BSA², Oluyinka O. Olutoye, MD, MPH¹, Michael Gyimah, MD¹, Timothy Lee, MD, MA³, Sundeep G. Keswani, MD⁴, Alice King, MD³

¹Baylor College of Medicine, Houston, TX, USA, ²Texas Children's Hospital & Baylor College of Medicine, Houston, TX, USA, ³Texas Children's Hospital, Houston, TX, USA, ⁴Baylor College of Medicine and Texas Children's Hospital, Bellaire, TX, USA

APSA 3

Assessment of Functional Muscle Regeneration of Transplanted Tissue Engineered Oesophagus in a Mini Pig Model

Natalie Durkin¹, Marco Pellegrini¹, Conor McCann¹, Kornilia Nikaki², Osvaldo Borrelli¹, Mariana Scuglia¹, Roberto Lutman¹, Giulia Patera¹, Daniele Di Biagio¹, Lucinda Tullie³, Koji Yamada¹, Simon Eaton⁴, **Paolo De Coppi, MD, PhD⁵**

¹University College London, London, England, United Kingdom, ²Great Ormond Street Hospital for Children, London, England, United Kingdom, ³The Francis Crick Institute, London, England, United Kingdom, ⁴Great Ormond Street Institute of Child Health, London, England, United Kingdom, ⁵Specialist Neonatal and Paediatric Surgery, UCL and Great Ormond Street Hospital for Children, London, England, United Kingdom

APSA 4

Multi-institutional Prospective Study Demonstrates Frequent Utilization of Gips Trephination with High Healing Rates Among Pediatric Patients with Pilonidal Disease

Stephen J. Hartman, MD¹, Amelia E. Gavulic, BS², Amelia Collings, MD³, Nelson Rosen, MD¹, Rebecca L. Brown, MD¹, K. Elizabeth Speck, MD, MS⁴, Cynthia D. Downard, MD, MMSc⁵, Matthew P. Landman, MD⁶, Patrick A. Dillon⁷, Julia E. Grabowski, MD⁸, Grace Z. Mak, MD⁹, Charles M. Leys, MD, MSCI¹⁰, Jason D. Fraser, MD¹¹, Dave R. Lal, MD¹², Beth A. Rymeski, DO¹

¹Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ²University of Cincinnati College of Medicine, Cincinnati, OH, USA, ³University of Louisville Department of Surgery, Louisville, KY, USA, ⁴University of Michigan, Ann Arbor, MI, USA, ⁵Hiram C. Polk, Jr, MD Department of Surgery, University of Louisville, Norton Children's Hospital, Louisville, KY, USA, ⁶Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA, ⁷St. Louis Children's Hospital, St. Louis, MO, USA, ⁸Division of Pediatric Surgery, Department of Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago Northwestern University Feinberg School of Medicine, Chicago, IL, USA, ⁹Comer Children's Hospital, University of Chicago, Chicago, IL, USA, ¹⁰Division of Pediatric Surgery, Department of Surgery, University of Wisconsin, Madison, WI, USA, ¹¹Children's Mercy Kansas City, Kansas City, MO, USA, ¹²Children's Wisconsin, Milwaukee, WI, USA

APSA 5

Association Between Palliative Care and High-intensity End-of-life Care in Pediatric ECMO Patients

Charesa J. Smith, MD, MS¹, Alison Lehane, MD², Mallory N. Perez, MD¹, Mehul V. Raval³

¹Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ²Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ³Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

APSA 6

A NSQIP–Pediatric Analysis of Patients Undergoing Laparoscopic Appendectomy Demonstrates Increasing Rates of Same-Day Discharge over Time with Decreased Readmission Rates

John M. Woodward, MD¹, Stephanie F. Brierley, MD², Hector Osei, MD³, Krystle Bittner, MPH⁴, Keihan Mostafavi, MD⁵, Phillip B. Ham, MD, MS⁶

¹University at Buffalo General Surgery, Sudbury, MA, USA, ²University at Buffalo, Buffalo, NY, USA, ³Pediatric Surgery / John R. Oshei Children's Hospital, Buffalo, NY, USA, ⁴Department of Surgery, State University of New York at Buffalo, Buffalo, NY, USA, ⁵Department of Surgery, John R Oshei Children's Hospital, University at Buffalo, Vaughan, ON, Canada, ⁶John R. Oshei Children's Hospital, Division of Pediatric Surgery, University at Buffalo, Buffalo, NY, USA

APSA 7

State Laws Protecting Child Access to Firearms Are Associated with Decreased Firearm Mortality

Bailey Roberts, MD¹, Emma Cornell, MPH², Colleen P. Nofi, DO, MBA, MSc³, Rafael A. Klein-Cloud, MD⁴, Chethan Sathya, MD MSc⁵

¹Cohen Children's Medical Center at Hofstra/Northwell, Long Island City, NY, USA, ²Northwell Health, Center for Gun Violence Prevention, New Hyde Park, NY, USA, ³Cohen Children's Medical Center at Northwell Health, Manhasset, NY, USA, ⁴Cohen Children's Medical Center, Northwell Health, Queens, NY, USA, ⁵Cohen Children's Medical Center at Hofstra Northwell, Roslyn, NY, USA

APSA 8

Mortality Following Complications After Surgery for Children in Africa: A Fourteen-day Multi-Center Prospective Observational Cohort Study (ASOS-PAEDS)

Muhammed Elhadi, MBBCh¹, Alexandra Torborg, FCA(SA)², Bruce M. Biccard, PhD³, On Behalf of the ASOS-PaedS Investigators, n/a³

¹University of Tripoli, Tripoli, Tripoli, Libya, ²Discipline of Anaesthesiology and Critical Care, Nelson R Mandela School of Medicine, University of KwaZulu-Natal, KwaZulu-Natal, KwaZulu-Natal, South Africa, ³Department of Anaesthesia and Perioperative Medicine, Groote Schuur Hospital, Faculty of Health Sciences, University of Cape Town, Cape Town, Western Cape, South Africa

APSA 9

Late-onset Aerodigestive Morbidities After Tracheoesophageal Fistula Repair

Dave Ebbott, BS¹, Fari Fall, MD, MA², Devon Pace, MD, MPH³, Loren Berman, MD, MHS⁴, Matthew Boelig, MD⁵

¹Nemours Children's Health-DE, Thomas Jefferson University, Philadelphia, PA, USA, ²Nemours Children's Health/Thomas Jefferson University Hospital, Philadelphia, PA, USA, ³Thomas Jefferson University Hospital, Philadelphia, PA, USA, ⁴Nemours Children's Hospital-Delaware, Wilmington, DE, USA, ⁵Nemours Children's Health, Wilmington, DE, USA

Keynote Address

Time - Time

Why I Got Political for Kids. And Why You Should Too.

Annie Andrews, MD
Their Future. Our Vote. & Their Future PAC, Mt. Pleasant, SC, USA

Chat Moderator:

Brielle Ochoa, MD, Phoenix Children's, Phoenix, AZ, USA

10:15am - 10:45am

Refreshment Break

Exhibit Hall - Grand Saguario Foyer

Scientific Session I - Advocacy

10:45am - 12:00pm

Moderators:

Suzanne Yoder, MD MPH, Locum Tenens, Shell Beach, CA USA
Chinwendu Onwubiko, MD, PhD, Children's of Alabama, University of Alabama at Birmingham, Birmingham, AL USA, Stanford University, Palo Alto, CA USA

Chat Room Moderator:

Marisa E. Schwab, MD

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Know how to increase the uptake of universal screening for firearm risks.
- Understand ways to decrease costs and environmental impacts of your operating room.
- Recognize patterns of firearm injuries and types of incidents
- Learn various ways to train people in how to prevent firearm injuries

APSA 29

Understanding Contextual Factors Influencing Firearm Deaths Occurring Among Children

Heather Hartman, MD¹, Laura Seewald², Eugenio Weigend Vargas³, Philip R. Stallworth, J.D.⁴, Peter Ehrlich, MD⁵, Cynthia Foster, PhD⁶, Douglas Wiebe², Patrick Carter, MD², Rebecca Sokol, PhD⁷, Jorge Portugal⁷

¹Institute for Firearm Injury Prevention & Department of Surgery, University of Michigan, Ann Arbor, MI, USA, ²University of Michigan, Ann Arbor, MI, USA, ³Institute for Firearm Injury Prevention, Round Rock, TX, USA, ⁴Michigan Institute for Firearm Injury Prevention, Ann Arbor, MI, USA, ⁵C.S. Mott Children's Hospital, Ann Arbor, MI, USA, ⁶The University of Michigan, Bloomfield Hills, MI, USA, ⁷University of Michigan Institute for Firearm Injury Prevention, Ann Arbor, MI, USA

APSA 30

Examining Preliminary Uptake of Universal Screening for Firearm Injury Risk Among Pediatric Trauma Patients

Emma Cornell, MPH¹, Christian McEvoy, MD, MPH², Bailey Roberts, MD³, Colleen P. Nofi, DO, MBA, MSc⁴, Laura Harrison, MPH⁵, Sandeep Kapoor, MD, MS-HPPL⁶, Chethan Sathya, MD MSc⁷

¹Northwell Health, Center for Gun Violence Prevention, New Hyde Park, NY, USA, ²Cohen Children's Medical Center - Northwell Health, New Hyde Park, NY, USA, ³Cohen Children's Medical Center at Hofstra/Northwell, Long Island City, NY, USA, ⁴Cohen Children's Medical Center at Northwell Health, Manhasset, NY, USA, ⁵Northwell Health, New Hyde Park, NY, USA, ⁶Northwell Health Emergency Medicine, New Hyde Park, NY, USA, ⁷Cohen Children's Medical Center at Hofstra Northwell, Roslyn, NY, USA

APSA 31

Profile of Mass Shootings from 2009-2021 and Their Impact on Children

Jonathan D. Strope¹, **Pamela Emengo, MD²**, Talha Rafeeqi, MBBS³, Nolan Martin, B.S.⁴, Ashley P. Stevenson, MA⁵, Yousof Fawzy⁶, Stephanie D. Chao, MD⁷

¹Stanford University School of Medicine, Palo Alto, CA, USA, ²Stanford, Palo Alto, CA, USA, ³Stanford University School of Medicine, Las Vegas, NV, USA, ⁴Eastern Virginia Medical School, Norfolk, VA, USA, ⁵Stanford University School of Medicine, CA, CA, USA, ⁶Stanford University School of Medicine, Stanford, CA, USA, ⁷Stanford University, Stanford, CA, USA

APSA 32

Youth Firearm Hunting Laws in the United States: An Opportunity for Standardization of Safety Training and Supervision Requirements

Shelbie Kirkendoll, DO, MS, MS¹, Lavanya Sambaraju, BS², Ben Davis, MD³, Katie W. Russell, MD⁴, Holly Michaels, MPH¹, Leah Tatebe, MD⁵, Brendan T. Campbell, MD MPH⁶

¹American College of Surgeons, Chicago, IL, USA, ²UConn School of Medicine, Farmington, CT, USA, ³University of Arkansas for Medical Sciences, Little Rock, AR, USA, ⁴Primary Children's Hospital, Salt Lake City, UT, USA, ⁵Northwestern University Feinberg School of Medicine, Chicago, IL, USA, ⁶American College of Surgeons, Committee on Trauma, Hartford, CT, USA

APSA 33

Less Is More: Optimizing Surgical Trays Reduce Cost and Environmental Impact

Alison Lehane, MD¹, Mallory N. Perez, MD², Charesa J. Smith, MD, MS², Delilah Muniz, RN, BSN³, Christine Pytle, APRN, CNS³, Mehul V. Raval⁴, Timothy B. Lautz, MD⁵

¹Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ²Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ³Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁴Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁵Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

APSA 34

From Trash to Treasure: Launching a Medical Device Reprocessing Program

Alison Lehane, MD¹, Katelyn Storton, BA, CMRP², Mallory N. Perez, MD³, Charesa J. Smith, MD, MS³, Gwyneth A. Sullivan, MD, MS⁴, Mehul V. Raval⁵

¹Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ²Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ³Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁴Division of Pediatric Surgery, Rush University Medical Center, Chicago, IL, USA, ⁵Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

APSA 35

There Is No Planet B: Operating Room Sustainability Pilot Project in Paediatric Surgery

Charmi Shah, BSc, MSc¹, Joshua Ramjist, MD², Annie Fecteau, MD²

¹University of Toronto, Toronto, ON, Canada, ²Hospital for Sick Children, Toronto, ON, Canada

APSA 36

Let's Talk About It: Firearm Injury Prevention Training for Medical Students

Claire Juhas, Rithika Reddy Proddutoor, Kelly Harrell, Lauran Barry, Katie Wiggins-Dohlvik, MD

University of Texas Health San Antonio, San Antonio, TX, USA

Scientific Session II - Basic Science

10:45am - 12:00pm

Moderators:

Reto M. Baertschiger, MD, PhD, Geisel School of Medicine at Dartmouth, Dartmouth Hitchcock Medical Center, Providence, RI USA

Jamie Robinson, MD, PhD, Vanderbilt University Medical Center, Nashville, TN USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the effects of probiotics in a murine model of necrotizing enterocolitis.
- Learn how IL-17A inhibitors can be used in the treatment of necrotizing enterocolitis.
- Recognize how adenosine can be used in necrotizing enterocolitis.

APSA 55

GPR68 Activation Reduces Post-Operative Abdominal Adhesions in a Murine Pilot Study

Matthew Byrne, MD¹, Miranda Chacon, MD², Sarah E. Wayson, PhD¹, Korry T. Wirth, MD¹, Amy Lawrence, MD³, David Darcy, MD⁴, Derek Wakeman, MD⁵, Walter Pegoli, MD⁶, R. Matthew Kottmann, MD¹, Alayna Loiselle, PhD¹, Nicole A. Wilson, PhD, MD⁷

¹University of Rochester Medical Center, Rochester, NY, USA, ²University of Rochester Medical Center / Golisano Children's Hospital, Rochester, NY, USA, ³Children's Hospital of Orange County, Orange, CA 92868, CA, USA, ⁴Golisano Children's Hospital, University of Rochester Medical Center, Rochester, NY, USA, ⁵University of Rochester, Rochester, NY, USA, ⁶University of Rochester Department of Surgery, Rochester, NY, USA, ⁷University of Rochester / Golisano Children's Hospital, Rochester, NY, USA

APSA 56

Argon Inhalation: A Novel Treatment for Experimental Necrotizing Enterocolitis

Felicia A. Balsamo¹, Andrea Zito², Dorothy Lee, HBSc², George Biouss, MSc³, Carol Lee², Bo Li, PhD², Agostino Pierro, MD²

¹The Hospital for Sick Children, Woodbridge, ON, Canada, ²The Hospital for Sick Children, Toronto, ON, Canada, ³The Hospital for Sick Children, Markham, ON, Canada

APSA 57

Colonizing Mouse Intestine with a Multi-strain Probiotic Promotes Gastrointestinal Motility and Decreases Inflammation in NEC

Daphne Klerk, BS¹, Daniel J. Scheese, MD, MBS², Hannah Moore³, Cody Tragesser, MD¹, Zachariah Raouf, MD¹, Johannes Duess, MD, PhD³, Sierra Williams-McLeod, BS¹, Koichi Tsuboi, MD, PhD², Mahmoud El Baassiri, MD⁴, Hee-Seong Jang, PhD², Maame Sampah, MD, PhD⁵, William B. Fulton³, Menghan Wang⁶, Thomas Prindle³, Sanxia Wang³, Chhinder Sodhi, PhD¹, David Hackam, MD, PhD¹

¹Johns Hopkins University School of Medicine, Department of Pediatric Surgery, Baltimore, MD, USA, ²Division of Pediatric Surgery, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, USA, Baltimore, MD, USA, ³Johns Hopkins University School of Medicine, Baltimore, MD, USA, ⁴Division of Pediatric Surgery, The Johns Hopkins Medical Institutions, Baltimore, MD, USA, Baltimore, MD, USA, ⁵Johns Hopkins School of Medicine, Baltimore, MD, USA, ⁶Johns Hopkins University, Baltimore, MD, USA

APSA 58

Transamniotic Delivery of Coagulation Factor VIII mRNA: A Potential Novel Strategy for the Perinatal Management of Hemophilia A

Kamila Moskowitsova, MD¹, Emily Scire¹, Tanya T. Dang², Beatriz Bechara¹, Yash Shroff¹, Eva Zacharakis¹, Isabela Fitzgerald¹, Aaliyah Couto¹, David Zurakowski, MS, PhD³, Dario O. Fauza, MD, PhD⁴

¹Boston Children's Hospital, Harvard Medical School, Boston, MA, USA, ²Boston Children's Hospital, Boston, MA, USA, ³Boston Children's Hospital, Department of Anesthesia, Critical Care, and Pain Medicine Research, Boston, MA, USA, ⁴Boston Children's Hospital, Department of Surgery, Boston, MA, USA

APSA 59

Traumatic Brain Injury Induces Intestinal Dysfunction Due to Alterations in Neural, Endocrine and Immune Pathways

Mahmoud El Baassiri, MD¹, Daniel J. Scheese, MD, MBS², Johannes Duess, MD, PhD³, Zachariah Raouf, MD⁴, William B. Fulton³, Chhinder Sodhi, PhD⁴, David Hackam, MD, PhD⁴, Isam Nasr, MD⁵

¹Division of Pediatric Surgery, The Johns Hopkins Medical Institutions, Baltimore, MD, USA, Baltimore, MD, USA, ²Division of Pediatric Surgery, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, USA, Baltimore, MD, USA, ³Johns Hopkins University School of Medicine, Baltimore, MD, USA, ⁴Johns Hopkins University School of Medicine, Department of Pediatric Surgery, Baltimore, MD, USA, ⁵The Johns Hopkins Hospital, Baltimore, MD, USA

APSA 60

Transcriptomic Analysis of Inflamed Rat Fetal Gastroschisis Intestine Reveals Altered Homeostasis That Can Be Reversed by Stem Cell Extracellular Vesicle Administration

Lina Antounians, MSc¹, Elke Zani-Ruttenstock, MD², Lindsey Li³, Rebeca Figueira⁴, Fabian Doktor, MD¹, Kasra Khalaj¹, Augusto Zani, MD, PhD, FACS, FAAP⁵

¹The Hospital for Sick Children, Toronto, ON, Canada, ²Developmental and Stem Cell Biology, The Hospital for Sick Children, Toronto, ON, Canada, ³Developmental and Stem Cell Biology, The Hospital for Sick Children, Toronto, ON, Canada, ⁴The Hospital for Sick Children, ⁵The Hospital for Sick Children / University of Toronto, Toronto, ON, Canada

APSA 61

Exploring the Therapeutic Potential of IL-17A Inhibitors in Necrotizing Enterocolitis

Krishna Manohar, MD¹, Jasmine Lee¹, Sharon Joseph, MD, MS², Jianyun Liu¹, John Brokaw¹, William Shelley³, Troy Markel, MD³

¹Indiana University, Indianapolis, IN, USA, ²Indiana University, INDIANAPOLIS, IN, USA, ³Riley Hospital for Children at IU Health, Indiana University School of Medicine, Indianapolis, IN, USA

APSA 62

Adenosine Supplementation Protects the Intestinal Epithelium and Reduces Severity of Necrotizing Enterocolitis

Daniel J. Scheese, MD, MBS1, Carla M. Lopez, MD2, Johannes Duess, MD, PhD2, Koichi Tsuboi, MD, PhD1, Zachariah Raouf, MD3, Hannah Moore2, Daphne Klerk, BS3, Hee-Seong Jang, PhD1, Cody Tragesser, MD3, Mahmoud El Baassiri, MD4, William B. Fulton2, Thomas Prindle2, Menghan Wang5, Sanxia Wang2, Chhinder Sodhi, PhD3, David Hackam, MD, PhD3

1Division of Pediatric Surgery, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, USA, Baltimore, MD, USA, 2Johns Hopkins University School of Medicine, Baltimore, MD, USA, 3Johns Hopkins University School of Medicine, Department of Pediatric Surgery, Baltimore, MD, USA, 4Division of Pediatric Surgery, The Johns Hopkins Medical Institutions, Baltimore, MD, USA, Baltimore, MD, USA, 5Johns Hopkins University, Baltimore, MD, USA

APSA 63

The Enteric Neurotransmitter Neuromedin-U Reduces Inflammation in Hirschsprung-associated Enterocolitis Through Activation of Group 2 Innate Lymphoid Cells

Leah C. Ott, MD, Takahiro Ohkura, MD, PhD, Rhian Stavely, PhD, Kensuke Oishi, PhD, Christopher Han, BS, Abigail Leavitt, BS, Ryo Hotta, MD, PhD, Allan M. Goldstein, MD

Massachusetts General Hospital, Boston, MA, USA

Scientific Session III - Common Pediatric Surgery Issues #1

10:45am - 12:00pm

Moderators:

Carolyn Gosztyla, MD, FACS, Children's National Hospital, Washington D.C., USA
Sherif Emil, MD, CM, The Montreal Children's Hospital, McGill University Health Centre, Montreal, Quebec, Canada

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Learn best approaches to treating pilonidal disease.
- Understand the efficacy of repeat imaging in appendicitis transfers.
- Recognize what leads to delays in care in adnexal torsion.

APSA 37

Minimally Invasive Pilonidal Excision for the Treatment of Pilonidal Disease - A Multi-center Prospective Trial

James K. Moon, MD1, Arturo Aranda, MD2, Eunice Huang, MD, MS3, Tim Jancelewicz, MD, MA, MS4, Maria ValenciaBradd5, Samir Pandya5, Barrie S. Rich, MD6, Sohail R. Shah, MD, MSHA7, Bethany J. Slater, MD, MBA8, Christopher Turner9, Aaron M. Lipskar, MD10, Charlotte Kvasnovsky8

1Cohen Children's Medical Center, New York, NY, USA, 2Dayton Children's Hospital, Dayton, OH, USA, 3Department of Pediatric Surgery, Vanderbilt University Medical Center, Monroe Carell Jr. Children's Hospital, Nashville, TN, USA, 4Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN, USA, 5UT Southwestern Medical Center, Dallas, TX, USA, 6Cohen Children's Medical Center, New Hyde Park, NY, USA, 7Texas Children's Hospital, Houston, TX, USA, 8University of Chicago, Chicago, IL, USA, 9Maine Medical Center, Portland, ME, USA, 10Zucker School of Medicine at Hofstra/Northwell, Cohen Children's Medical Center at Northwell Health, New Hyde Park, NY, USA

APSA 38

Kicking the Can down the Road: Overnight Decision-making for Equivocal Appendicitis Often Involves Unnecessary Hospital Admissions

Steven T. Papastefan, MD¹, Sara Ungerleider, BA², Michela Carter, MD³, J. Benjamin Pitt, MD⁴, Kathryn L. McElhinney, MD⁵, Seth D. Goldstein, MD, MPhil⁴

¹Department of Surgery, Northwestern University Feinberg School of Medicine Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ²Northwestern University Feinberg School of Medicine, Chicago, IL, USA, ³Ann & Robert H. Lurie Children's Hospital of Chicago, Hartford, CT, USA, ⁴Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁵Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago; Department of Surgery, Division of Pediatric Surgery, Northwestern University Feinberg School of Medicine, Chicago IL, USA, Chicago, IL, USA

APSA 39

Integration of Care for Pediatric Patients with Gastrostomy Tubes

Andrew Mudreac, MD¹, Melissa Rose, MD², Stephen Oh, MD²

¹New York Presbyterian/Weill Cornell, Philadelphia, PA, USA, ²Weill Cornell Medicine, New York, NY, USA

APSA 40

Facilitating the Use of Same-day Discharge After Appendectomy in Children: Implementation of an Evidence-based Post-operative Pathway

Emmanuel L. Abebrese, MD¹, Radek Buss, MD², Kyle Van Arendonk, MD PhD³, Kathleen Leak⁴, David Gourlay, MD⁵

¹Children's Wisconsin, Wauwatosa, WI, USA, ²Johns Hopkins University, Baltimore, MD, USA, ³Nationwide Children's Hospital, Columbus, OH, USA, ⁴Children's Hospital of Wisconsin, Milwaukee, WI, USA, ⁵Children's Wisconsin, Medical College of Wisconsin, Milwaukee, WI, USA

APSA 41

A Retrospective Analysis of Perioperative Nausea and Emesis Based on Pre-operative NPO Time in Pediatric Patients with Appendicitis

Lindsey Caines¹, Owen Cordaro², Erin Hong¹, Michael LaRock¹, Krystle Bittner, MPH³, Hector Osei, MD⁴, John M. Woodward, MD⁵, Stacey Watt⁶, Phillip B. Ham, MD, MS⁷

¹Jacobs School of Medicine and Biomedical Sciences at the University at Buffalo, Buffalo, NY, USA, ²Jacobs School of Medicine and Biomedical Sciences, Buffalo, NY, USA, ³Department of Surgery, State University of New York at Buffalo, BUFFALO, NY, USA, ⁴Pediatric Surgery / John R. Oshei Children's Hospital, Buffalo, NY, USA, ⁵University at Buffalo General Surgery, Sudbury, MA, USA, ⁶John R. Oshei Children's Hospital, Buffalo, NY, USA, ⁷John R. Oshei Children's Hospital, Division of Pediatric Surgery, University at Buffalo, Buffalo, NY, USA

APSA 42

Pause the Repeat: Evaluating the Efficacy of Repeat Imaging in Transferred Pediatric Patients with Suspected Appendicitis

Monalisa Hassan, MD¹, Emily Byrd, MD, PhD¹, Jose A. Castillo, MD¹, Omar A. Ortuno, BA², Khadija Soufi, BA², Jonathan E. Kohler, MD³

¹UC Davis Medical Center, Sacramento, CA, USA, ²University of California, Davis, Sacramento, CA, USA, ³University of California - Davis, Sacramento, CA, USA

APSA 43

Reducing Blood Draws in Pediatric Patients with Solid Organ Injury Through Protocolized Transcutaneous Hemoglobin Monitoring

Arya Payan, MS, DO¹, Megan S. Coble², Benjamin S. Kowalske, n/a³, Nicole Mitchell⁴, James DeCou, Lindsey Jelsma, Emily T. Durkin, MD⁵

¹Ventura County Medical Center / Pediatrix, Oxnard, CA, USA, ²Michigan State College of Human Medicine, Kentwood, MI, USA, ³Michigan State University College of Human Medicine, Commerce Township, MI, USA, ⁴Corewell Health, Fort Wayne, IN, USA, ⁵Helen DeVos Children Hospital, Grand Rapids, MI, USA

APSA 44

Association of Prophylactic Antibiotic Use with Outcomes in Infants Undergoing Pyloromyotomy

Kerri A. McKie, MD MPH, Dionne Graham, PhD, Shawn J. Rangel, MD, MSCE

Boston Children's Hospital, Boston, MA, USA

APSA 45

Factors Associated with Delay to Care in Pediatric and Adolescent Adnexal Torsion: A Multi-institutional Review

Barrie S. Rich, MD¹, Bailey Roberts, MD², Colleen P. Nofi, DO, MBA, MSc³, Richard D. Glick, MD¹, Jason C. Fisher, MD⁴, EMILY T. DURKIN, MD⁵, Carlos R. Garcia Cabrera, B.S.⁶, Romeo C. Ignacio, MD⁷, Abigail Alexander, MD⁸, Scott S. Short, MD⁹, Derek Krinock, MD¹⁰, Lindsey L. Wolf, MD, MPH¹¹, Richard G. Weiss, MD¹², Emma E. Ryan, MD¹³, Daniel J. Robertson, MD¹⁴, Emmanuel L. Abebrese, MD¹⁵, Kyle Van Arendonk, MD PhD¹⁶, Rosa Hwang, BS¹⁷, Gary Nace, MD, FACS, FAAP¹⁸, Jane Cerise, PhD, MS¹⁹, David H. Rothstein, MD, MS²⁰

1Cohen Children's Medical Center, New Hyde Park, NY, USA, 2Cohen Children's Medical Center at Hofstra/Northwell, Long Island City, NY, USA, 3Cohen Children's Medical Center at Northwell Health, Manhasset, NY, USA, 4Hassenfeld Children's Hospital at NYU Langone, New York, NY, USA, 5Helen DeVos Children Hospital, Grand Rapids, MI, USA, 6UC San Diego School of Medicine, Rancho Cucamonga, CA, USA, 7Rady Children's Hospital San Diego, San Diego, CA, USA, 8University of Utah, Salt Lake City, UT, USA, 9Primary Children's Hospital / University of Utah, Salt Lake City, UT, USA, 10University of Arkansas for Medical Sciences, Little Rock, AR, USA, 11Arkansas Children's Hospital, Little Rock, AR, USA, 12Connecticut Children's Medical Center, Hartford, CT, USA, 13University of Illinois College of Medicine at Peoria, Peoria, IL, USA, 14Children's Hospital of Illinois, OSF Healthcare, Dunlap, IL, USA, 15Children's Wisconsin, Wauwatosa, WI, USA, 16Nationwide Children's Hospital, Columbus, OH, USA, 17Children's Hospital of Philadelphia, Philadelphia, PA, USA, 18Children's Hospital of Philadelphia, Philadelphia, PA, USA, 19Northwell Health Office of Academic Affairs, New Hyde Park, NY, USA, 20Division of Pediatric General and Thoracic Surgery, University of Washington, Seattle, WA, USA

Updates from the Children's Oncology Group

Jennifer H. Aldrink, MD¹, Nicholas Cost, MD², Timothy B. Lautz, MD³, Laura A. Boomer, MD⁴, Dana Michelle Schwartz, MD⁵

12:00pm - 1:30pm	Committee/SIG Cafe	<i>Grand Sonoran E-G</i>
12:00pm - 1:30pm	Fellows Lunch - Surviving Fellowship	<i>Grand Sonoran A</i>
12:00pm - 1:30pm	Lunch	<i>Exhibit Hall - Grand Saguario Foyer</i>
12:00pm - 1:30pm	Mercy Ships Reception	<i>Grand Sonoran D</i>
12:00pm - 12:30pm	New Member Rehearsal	<i>Grand Saguario North-South</i>
12:00pm - :30pm	Resident Speed Mentoring Lunch	<i>Grand Sonoran B</i>
12:00pm - 12:30pm	SOAPPS Lunch (Section on Affiliate Professionals in Pediatric Surgery)	<i>Grand Sonoran C</i>

TEC Talk 1

1:45pm - 2:00pm

Infant Perianal Disease

Introducer:

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

Chat Room Moderator:

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA USA

Speaker:

Shannon Nicole Acker, MD, Children's Hospital Colorado, Englewood, CO, USA.

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Define potential initial management options for perianal abscess in infants.
- Identify the expected rate of failure of initial operative and non-operative management approaches to infant perianal disease.
- Understand the expected time to complete resolution and resource utilization of perianal abscess in infants.
- Define the expected rate of development of fistula in and among infants with perianal abscess.

Systematic Review Tool Kit

2:00pm - 3:00pm

A Call to Action: Components of Transition of Pediatric Surgical Patients to Adult Surgical Care

Chat Room Moderator:

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA USA

Speaker:

Rebecca M. Rentea, MD, MS, MBA, Children's Mercy Kansas City, Kansas City, MO, USA
Afif N. Kulaylat, MD, MSc, Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA, USA
Shannon Nicole Acker, MD, Children's Hospital Colorado, Englewood, CO, USA
William T. Adamson, MD, Johns Hopkins All Children's Hospital, St Petersburg, FL, USA
Kathryn J. Rowland, MD MPH, University of Chicago, Chicago, IL, USA
Baddr Shakhshsheer, MD, Comer Children's Hospital, University of Chicago, Chicago, IL, USA
Brian C. Gulack, MD, MHS, Rush University Medical Center, Chicago, IL, USA
Henry L. Chang, MD, Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Identify the current landscape of transitional care programs within pediatric specialty care.
- Evaluate the outcomes and benefits associated with transitional care programs in
- Analyze the essential components necessary for building effective transitional care programs in pediatric surgery, including interdisciplinary collaboration, patient education, care coordination,

TEC Talk 2

3:00pm - 3:15pm

OR Sustainability

Introducer:

Steven L. Lee, MD, MBA, Seattle Children's Hospital and University of Washington School of Medicine, Seattle, WA, USA

Chat Room Moderator:

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA USA

Speaker:

Sarah Greenberg, MD MPH FACS FAAP, Seattle Children's Hospital, Seattle, WA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the intersection between children's surgery, climate change, and equity.
- Realize mitigation strategies to reduce the carbon footprint of surgical care delivery.

Case Roundups

3:15pm - 3:45pm

Speakers:

Katie W. Russell, MD, Primary Children's Hospital, Salt Lake City, UT, USA
 Carroll (Mac) M. Harmon, MD PhD, John R Oshei Children' s Hospital, Buffalo, NY, US
 Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Review hot topics of the day and provide different viewpoints from audience members on controversial topics.

3:45pm - 4:15pm

Refreshment Break

Exhibit Hall - Grand Saguario Foyer

Breakshops

4:15pm - 5:00pm

BENJY BROOKS COMMITTEE

Mental Illness and Substance Abuse: Practical Tools to Address a Growing Workforce Problem

Program Committee Liaison:

Kim G. Wallenstein, MD, PhD, SUNY Upstate Medical University, Syracuse, NY, USA

Moderator:

Jennifer Timmons, MD, Bronson Methodist Hospital, Western Michigan University School of Medicine

Speakers:

Cornelia Griggs, MD, Massachusetts General Brigham, Harvard Medical School, Boston, MA, USA
 Veronica F. Sullins, MD, UCLA Mattel Children's Hospital, Los Angeles, CA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Discuss the definition of burnout and how to address it with the hospital medical staff.
- Discuss concrete steps that need to be taken to address substance abuse.
- Discuss the career implications of addressing substance abuse and tools to help deal with the medical boards and regulatory bodies.

4:15pm - 5:00pm

CHILDHOOD OBESITY COMMITTEE

How Can I Best Use the New Anti-Obesity Medications in my Practice?

Program Committee Liaison:

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Moderators:

Kanika Bowen-Jallow, MD, MMS, FACS, FAAP, Cook Children's Medical Center - Prosper, Prosper, TX, USA

David A. Lanning, MD, PhD, Children's Hospital of Richmond at VCU, Richmond, VA, USA

Speakers:

James M. Healy, MD, MHS, Connecticut Children's, Hartford, CT, USA
 Matthew A. Hornick, MD, Yale School of Medicine, New Haven, CT, USA
 Janey S.A Pratt, MD, Stanford University School of Medicine, Palo Alto, CA, USA
 Jun Tashiro, MD, MPH, NYU Grossman School of Medicine, New York, NY, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Incorporate the new anti-obesity medicines into their pediatric surgical practices
- Demonstrate the variable impacts that anti-obesity medications have had on pediatric bariatric surgical practices.
- Describe the ways that anti-obesity medications can be utilized as a component of anti-obesity care within a framework of lifestyle modification, comprehensive medical and psychological care, and surgery.

4:15pm - 5:00pm

ETHICS COMMITTEE

An Ethical Analysis of the Delivery of Care to Immigrant Children

Program Committee Liaison:

Pavan Brahmamdam, MD, MS, Corewell Children's, OUWB School of Medicine, Royal Oak, MI USA

Speakers:

Mindy B. Statter, MD, MBE, Montefiore Medical Center, New York, NY, USA

Deborah S. Loeff, MD, University of Chicago Medicine, Chicago, IL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Discuss the challenges faced by pediatric surgeons in providing sustainable care to undocumented, uninsured immigrant children, including necessary workarounds, and the ethical impact of these challenges on our fiduciary relationship with our patients.

4:15pm - 5:00pm

HEALTH POLICY AND ADVOCACY COMMITTEE

Advocacy 301: Taking Your Advocacy Efforts to the Next Level - A Small Group Discussion with Dr. Annie Andrews and APSA Advocacy Leaders

Program Committee Liaison:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Speakers:

Annie Andrews, MD, Their Future. Our Vote. & Their Future PAC, Mt. Pleasant, SC, USA

Bindi Naik-Mathuria, MD, MPH, UTMB Galveston, John and Jennie Sealy Hospital, Houston, TX, USA

Patrick V. Bailey, MD MLS JD FACS, American College of Surgeons, Scottsdale, AZ, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Learn strategies for being an effective advocate at the local, state and national level.
- Understand the strengths of doing advocacy through organizations such as the AAP, APSA.
- Recognize bigger actions and steps that can be taken in Pediatric Surgery Advocacy.
- Network with other Pediatric Surgeons focused on advocacy.
- Be aware of the importance and effectiveness of PACs.

How to Operate with Less

Program Committee Liaison:

Gwyneth A. Sullivan, MD, MS, Rush University Medical Center, Chicago, IL USA

Speakers:

A. Alfred Chahine, MD, Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA

Olivia A. Keane, MD, Children's Healthcare of Atlanta, Los Angeles, CA, USA

Goeto Dantes, MD, Emory/Children's Healthcare of Atlanta, Chamblee, GA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the magnitude of the carbon footprint of the health care industry.
- Learn practical tips on how to decrease the individual surgeon's carbon footprint.
- Understand the basics of advocacy for sustainability in health care.

4:15pm - 5:00pm

PRACTICE COMMITTEE

Opening the Blackbox of Relative Value Units (or Why is There No Code for Laparoscopic Pyloromyotomy)

Program Committee Liaison:

Rony Marwan, MD, University of Missouri, Columbia, MO USA

Moderator:

Tony Escobar, MD, Mary Bridge Children's Hospital, Tacoma, Washington USA

Speakers:

Evan Kokoska, MD, Peyton Manning Children's Hospital, Zionsville, IN, USA

Michael J. Goretsky, MD, Children's Hospital of The King's Daughters, Norfolk, VA, USA

Richard G. Weiss, MD, Connecticut Children's Medical Center, Hartford, CT, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand how a procedure obtains a CPT code and relative value units.

4:15pm - 5:00pm

SOAPPS

Setting up for Success: Developing a Specialty Program

Program Committee Liaison:

Ashley H. Ebanks, MSN, University of Texas Health Sciences Center at Houston, Houston, TX, USA

Moderator:

Richele Koehler, MSPAS, DMSc, PA-C, Children's Hospital Colorado/University of Colorado School of Medicine, Aurora, CO USA

Speakers:

Anna Linton, PA-C, Surgical Oncology Program - Children's Hospital Colorado, Department of Pediatric Surgery - University of Colorado School of Medicine, Aurora, CO, USA,

Rachel Lockhart, CPNP, Children's hospital Colorado, Aurora, CO, USA

Ashley H. Ebanks, MSN, University of Texas Health Sciences Center at Houston, Houston, TX, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Develop a program proposal, secure appropriate resources and implement the program.

4:15pm - 5:00pm

SURGICAL CRITICAL CARE COMMITTEE

Pediatric Sepsis: Empowering Pediatric Surgeons in the PICU!

Program Committee Liaison:

Rachael Sundland, MD, Maimonides Medical Center, Brooklyn, NY USA

Speakers:

Allison F. Linden, MD, MPH, Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA

Ann Kulungowski, MD, Division of Pediatric Surgery, Department of Surgery University of Colorado School of Medicine Children's Hospital Colorado, Aurora, CO, USA

Jack P. Vernamonti, MD, Maine Medical Center, South Portland, ME, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Develop a foundational understanding of the identification and management of infants and children with sepsis.
- Gain understanding of a novel scoring system to improve the diagnosis of pediatric sepsis and septic shock and implement treatment strategies to improve outcomes for septic children.

Tracheopexy: Who, When, How, Where?

Program Committee Liaison:

Jamie Robinson, MD, PhD, Vanderbilt University Medical Center, Nashville, TN

Speakers:

Benjamin Zendejas, MD, MSc, Boston Children's Hospital, Boston, MA, USA

Shawn Izadi, MD, Boston Children's Hospital, Boston, MA, USA

Hester F. Shieh, MD, Johns Hopkins All Children's Hospital, Tampa, FL, USA

Farokh R. Demehri, MD, Vanderbilt University Medical Center, Brentwood, TN, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Analyze different patient populations, and clinical situations that may benefit from a Tracheopexy
- Summarize the preoperative evaluation, technical details and potential pitfalls of the different available Tracheopexy versions and adjuncts.
- Discuss potential mentoring/training models in order to safely and successfully implement Tracheopexy as a viable surgical option into your practice.

4:15pm - 5:00pm

APSA TRANSITION TO PRACTICE TASK FORCE

Creating Successful Transition to Practice from APSA Transition to Practice Task Force

Program Committee Liaison:

Melissa E. Danko, MD, Children's Healthcare of Atlanta/Emory University, Atlanta, GA USA

Moderators:

Grace Z. Mak, MD, Comer Children's Hospital, University of Chicago, Chicago, IL US

Badr Shakhsher, MD, Comer Children's Hospital, University of Chicago, Chicago, IL USA

Speakers:

Brian A. Jones, MD, The University of Chicago Medicine & Biological Sciences, Chicago, IL, USA,

Mary J. Edwards, MD, Albany Medical Center, Albany, NY, USA

Loren Berman, MD, MHS, Nemours Children's Hospital-Delaware, Wilmington, DE, USA

Pramod S. Puligandla, MD, MSc, Montreal Children's Hospital, Montreal, PQ, Canada

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Learn best practice recommendations for transition to practice for both institutions and faculty; learn about final products and resources created for transition to practice.

Updates on Ovaries and Fallopian Tubes for the Pediatric Surgeon

Moderator:

Julia E. Grabowski, MD, Ann & Robert H. Lurie Children's Hospital of Chicago Northwestern University Feinberg School of Medicine, Chicago, IL USA

Speakers:

Dana Elborn, MD, Northwestern University/Lurie Children's, Elmhurst, IL, USA

Melissa Parks, DO, MPH, Phoenix Children's, Phoenix, AZ, USA

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Determine the appropriate workup and management of ovarian cysts, solid masses, and fallopian tube pathology.
- Make evidence-based decisions on how and when to surgically intervene for tubal or ovarian pathology.
- Make evidence-based decisions on how to monitor tubal or ovarian pathology.
- Systemically approach the work up and treatment of hydrosalpinx

Breakshops

5:15pm - 6:00pm

Introduction to Coaching for Success

Program Committee Liaison:

Carolyn Gosztyla, MD, FACS, Children's National Hospital, Washington D.C., USA

Speakers:

Holly Neville, MD, Joe DiMaggio Children's Hospital, Hollywood, FL, USA

Eunice Huang, MD, MS, Department of Pediatric Surgery, Vanderbilt University Medical Center,

Monroe Carell Jr. Children's Hospital, Nashville, TN, USA

Azalia Avila, MD, Memorial Healthcare System, Hialeah, FL, USA

Monique Motta, MD, Memorial Healthcare System, Pembroke Pines, FL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- At the conclusion of the sessions, the participants will understand the principles of positive psychology and how use of these can improve well-being and reduce physician burnout.
 - Additionally, at the end of the session, participants will be able to summarize the concepts of coaching, including functioning as a coach or being coached.
 - The participants will distinguish between coaching, mentorship and peer support and how each of these can be used together as valuable modalities to achieve well-being.
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5:15pm - 6:00pm

DEI COMMITTEE

Both Sides of the Scalpel, Surgeon as a Patient: Disability, its Definition, and the Role of Innovation

Program Committee Liaison:

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Moderators:

Rony Marwan, MD, FACS, FAAP, University of Missouri, Columbia, MO USA

Fereshteh Salimi-Jazi, MD, University of Texas Medical Branch, Galveston, TX USA

Speakers:

Peter Poulos, MD, Stanford Medicine, San Carlos, CA, USA

Erin Garvey, MD, Phoenix Children's, Phoenix, AZ, USA

Trine L. Engebretsen, MD, University of Texas Medical Branch at Galveston, Texas City, TX, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Gain a comprehensive understanding of the definition of disability.
 - Appreciate the personal narratives and resilience of surgeons who have navigated and excelled in their careers despite physical challenges.
 - Be equipped to recognize the impact of innovation and personal stories in reshaping surgical practice, fostering a more empathetic and informed approach toward disability in the field.
-

5:15pm - 6:00pm

FETAL DIAGNOSIS AND TREATMENT COMMITTEE

Management Considerations for the Fetus and Neonate with Severe CDH

Program Committee Liaison:

Brian Arrinza Coakley, MD, FACS, FAAP, Dipl ABOM, The Mount Sinai Health System, New York, NY, USA

Moderator:

Darrell L. Cass, MD, Cleveland Clinic, Cleveland, OH USA

Speakers:

Timothy Lee, MD, MA, Texas Children's Hospital, Houston, TX, USA

Adesola Akinkuotu, MD, MPH, University of North Carolina-Chapel Hill, Chapel Hill, NC, USA

Inna Lobeck, MD, George B. University of Wisconsin - Madison, Madison, WI, USA

Panelists:

Mychaliska, MD, Section of Pediatric Surgery, Fetal Diagnosis and Treatment Center, University of Michigan Health System, Ann Arbor, MI, USA
Shaun M. Kunisaki, MD, MSc, Johns Hopkins Children's Center, Johns Hopkins School of Medicine, Baltimore, MD, USA,
Augusto Zani, MD, PhD, FACS, FAAP, The Hospital for Sick Children / University of Toronto, Toronto, ON, Canada
Holly Hedrick, Stanford University, Palo Alto, CA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Review current indications and outcomes from FETO.
- Discuss management approach to ECMO and surgical repair for the severe CDH infant.
- Consider management recommendations for severe pulmonary hypertension in the neonate with CDH.

5:15pm - 6:00pm

GLOBAL PEDIATRIC SURGERY COMMITTEE**Global Surgery Engagement Opportunity: APSA and ACS Partnerships for Pediatric Surgical Education****Program Committee Liaison:**

Erik N. Hansen, MD, MPH, Phoenix Children's Health, Phoenix, AZ USA

Moderators:

Robin T. Petroze, MD, MPH, University of Michigan, Ann Arbor, MI, USA
Allison F. Linden, MD, MPH, Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA

Speakers:

Heron D. Baumgarten, MD, MPH, University of Nevada, Reno, Reno, NV, USA
Wondmagegn Gizaw Woldesenbet, Pediatric surgeon, Hawassa university, Hawassa, YeDebub Biheroch Bihereboch na Hizboch, Ethiopia
Amon Ngongola, MD, University Teaching Hospital, Lusaka, Lusaka, Zambia

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Engage in new opportunities for global surgical engagement for members and describe the partnership between APSA and the American College of Surgeons.

5:15pm - 6:00pm

HEALTH POLICY AND ADVOCACY COMMITTEE**Amplifying Your Voice: APSA Workshop for Pediatric Surgeons on Writing Op-Eds****Program Committee Liaison:**

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Moderator:

Bindi Naik-Mathuria, MD, MPH, UTMB Galveston, John and Jennie Sealy Hospital, Houston, TX, USA

Speakers:

Heron D. Baumgarten, MD, MPH, University of Nevada, Reno, Reno, NV, USA
Wondmagegn Gizaw Woldesenbet, Pediatric surgeon, Hawassa university, Hawassa, YeDebub Biheroch Bihereboch na Hizboch, Ethiopia
Amon Ngongola, MD, University Teaching Hospital, Lusaka, Lusaka, Zambia

Panelists:

Chethan Sathya, MD MSc, Cohen Children's Medical Center at Hofstra Northwell, Roslyn, NY, USA
Cornelia Griggs, MD, Massachusetts General Brigham, Harvard Medical School, Boston, MA, USA
Sherif Emil, MD, CM, The Montreal Children's Hospital, McGill University Health Centre, Montreal, PQ, Canada
Amanpreet Brar, MD, University of Michigan, Ann Arbor, MI, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the impact of Op-Eds to shape public opinion and influence health policy, by making a clear argument and concluding with a powerful call to action.
- Apply best practices in science communication to write clear, engaging, and persuasive Op-Eds.
- Understand the importance of media engagement for pediatric surgeons and learn how to pitch an Op-ed to a media outlet.

5:15pm - 6:00pm

STUDENT AND RESIDENT SUBCOMMITTEE (Education Committee)

I Want to be a Pediatric Surgeon

Program Committee Liaison:

Gwyneth A. Sullivan, MD, MS, Division of Pediatric Surgery, Rush University Medical Center, Chicago, IL, USA

Moderators:

Jill S. Whitehouse, MD, Joe DiMaggio Children's Hospital, Hollywood, FL, USA

Sophia Schermerhorn, MPH MD, Naval Medical Center San Diego, San Diego CA, USA

Panelists:

Sanjay Krishnaswami, MD, Oregon Health and Science University, Portland, OR, USA

Casey M. Calkins, MD, The Medical College of Wisconsin, Milwaukee, WI, USA

Andreas H. Meier, MD MEd Dr med, Golisano Children's Hospital, Syracuse, NY, USA

Rebecca M. Rentea, MD, MS, MBA, Children's Mercy Kansas City, Kansas City, MO, USA

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA, USA

Brittany L. Johnson, MD, University of Michigan, Ann Arbor, MI, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Provide medical students and surgery residents interested in pediatric surgery valuable information and advice from a diverse panel of pediatric surgeons and current fellows.

5:15pm - 6:00pm

SOAPPS (Section on Affiliate Professionals in Pediatric Surgery)

Mastering Bowel Management for Optimal Patient Care

Program Committee Liaison:

Ashley H. Ebanks, MSN, University of Texas Health Sciences Center at Houston, Houston, TX, USA

Moderator:

Ariella Adelman, MSN, RN, CPNP-PC, CWON, Cedars-Sinai Medical Center, Los Angeles, CA, USA

Speakers:

Rachel Barton, DNP APRN CPNP, UT Physicians, Cypress, TX, USA

Monica Holder, BSN, RN III, CPN, Cincinnati Children's Hospital Colorectal Center, Cincinnati, OH, USA

Sarah Zobell, APRN, C-PNP, Primary Children's Hospital, Salt Lake City, UT, USA

Tara Goesch, DNP, APRN, Phoenix Children's Hospital, Gilbert, AZ, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Share bowel management treatment options to provide optimal outcomes.

5:15pm - 6:00pm

SURGICAL CRITICAL CARE COMMITTEE

Managing the Pediatric Open Abdomen: Updates for Modern Practice

Program Committee Liaison:

Jason S. Frischer, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Speakers:

Howard I. Pryor, MD, Texas Children's Hospital, Houston, TX, USA

Benjamin Carr, MD, Oregon Health and Science University, Portland, OR, USA

Nikhil R. Shah, MD, University of Michigan / CS Mott Children's Hospital, Galveston, TX, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

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5:15pm - 6:00pm

SURGICAL QUALITY AND SAFETY COMMITTEE

QI Projects Made Easy: A Fun-Filled Guide to the ACS Quality Framework

Program Committee Liaison:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Speakers:

Raquel Gonzalez, MD, MHCM, Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA

Kathryn J. Rowland, MD MPH, University of Chicago, Chicago, IL, USA

Monica E. Lopez, MD MS, Monroe Carell Jr Children's Hospital at Vanderbilt, Nashville, TN, USA

Kristen N. Kaiser, MD, Indiana University, Indianapolis, IN, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Learn to access and apply the newly released ACS Quality Framework Toolkit to facilitate QI efforts.

5:15pm - 6:00pm

TRAUMA COMMITTEE

Initial Management of Penetrating Injuries to the Torso

Program Committee Liaison:

Rachael Sundland, MD, Maimonides Medical Center, Brooklyn, NY, USA

Moderators:

Regan F. Williams, MD, MS, Le Bonheur Children's Hospital, Memphis, TN, USA

Michael Dingeldein, MD, Rainbow Babies & Children's Hospital, Cleveland, OH, USA

David M. Notrica, MD, Phoenix Children's Hospital, Phoenix, AZ, USA

Speakers:

Matthew P. Landman, MD, Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA

Katherine T. Flynn-O'Brien, MD, Medical College of Wisconsin, Milwaukee, WI, USA

Mark B. Slidell, MD MPH, The Johns Hopkins Children's Hospital, Baltimore, MD, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Recognize shock in pediatric patients, understand appropriate blood product use in children, and understand the steps of damage control resuscitation and the steps of emergent operative exposure.

5:15pm - 6:00pm

WELLNESS COMMITTEE

Peer Support Skills Practice

Program Committee Liaison:

Reto M. Baertschiger, MD, PhD, Geisel School of Medicine at Dartmouth, Dartmouth Hitchcock Medical Center, Lebanon, NH, USA

Panelists:

Lisa Van Houwelingen, MD, MPH, McMaster Children's Hospital, McMaster University, Dundas, ON, Canada

Reto M. Baertschiger, MD, PhD, Geisel School of Medicine at Dartmouth, Dartmouth Hitchcock Medical Center, Lebanon, NH, USA

Alexa Robbins, MD, Children's Hospital of Colorado, Aurora, CO, USA

Sarah K. Walker, MD, Division of Pediatric Surgery, Department of Surgery, Texas Tech University Health Sciences Center, El Paso, TX, USA

Loren Berman, MD, MHS, Nemours Children's Hospital-Delaware, Wilmington, DE, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Provide peer support to colleagues suffering after adverse events, from toxic work environments, or other stressors.

7:00pm - 9:00pm

Welcome Reception

Sunset Lawn

FRIDAY, MAY 17

General Sessions

1:00am - 11:00am	Quiet Room	<i>Desert Suite 7</i>
6:00am - 7:30am	APSA Foundation Board Meeting	<i>Desert Suite 4</i>
6:00am - 7:30am	Continental Breakfast	<i>Exhibit Hall - Grand Saguario Foyer</i>
6:00am - 6:00pm	Lactation Room	<i>Desert Suite 7</i>
6:00am - 6:00pm	Registration Desk Hours	<i>East Registration Desk</i>
6:00am - 6:00pm	Speaker Ready Room	<i>Desert Suite 5</i>
6:30am - 7:30am	Committee Meetings	
8:00am - 10:00am	Companion Hospitality Suite	<i>Twenty 6 Lounge</i>

Jay Grosfeld, MD Scholars

7:30am - 8:15am

Moderator:

Bo Lovvorn, III, MD, Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN USA

Chat Room Moderator:

Nicole J. Kus, MD, University of Maryland Medical Center, Baltimore, MD USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand immune phenotypes in the neuroblastoma tumor microenvironment of residual disease after surgery, as summarized from Dr. Brian Craig's research.
- Understand photodynamic therapy for perforated appendicitis, as summarized by Dr. Nicole Wilson from her research.
- Understand mitochondrial dysfunction in congenital diaphragmatic hernia-associated pulmonary hypertension, as summarized by Dr. Jason Robertson in his research.

2022 Scholar: Immune Phenotypes in The Neuroblastoma Tumor Microenvironment of Residual Disease After Surgery

Brian T. Craig, MD

Children's Hospital of Wisconsin Medical College of Wisconsin, Milwaukee, WI, USA

2023 Scholar: Mitochondrial Dysfunction in Congenital Diaphragmatic Hernia-Associated Pulmonary Hypertension

Jason O. Robertson, MD, M.S.

Cleveland Clinic Children's Hospital, Department of Pediatric Surgery, Cleveland, OH, USA

2023 Scholar: Photodynamic Therapy for Perforated Appendicitis

Nicole A. Wilson, PhD, MD

University of Rochester | Golisano Children's Hospital, Rochester, NY, USA

Plenary Session II

8:15am - 9:30am

Moderators:

Andrew Zigman, MD CM, NW Permanente, OHSU/ Doernbecher Children's Hospital, Portland, OR USA

Diana Diesen, MD, UT Southwestern, Dallas, TX USA

Chat Room Moderator:

Nicole J. Kus, MD, University of Maryland Medical Center, Baltimore, MD USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Share the most important and recent updates from the wide field of pediatric surgery.
- Understand how ERAS programs can decrease length of stay and opioid use in pediatric patients undergoing surgery for an abdominal tumor.
- Recognize common late-onset morbidities after repairs of tracheoesophageal fistulas.
- Appreciate what personal characteristics are associated with imposter phenomenon in pediatric surgeons.
- Know how honey and acetic acid can and should be used in cases of button battery ingestions.
- Be aware of the length of time it takes for sensory nerves to recover after cryoablation.
- Recognize how racial disparities impact the workup and evaluation of patients with adrenal masses.

APSA 10

Extracellular Crip Exacerbates Necrotizing Enterocolitis

Colleen P. Nofi, DO, MBA, MSc¹, Monowar Aziz, PhD², Jose M. Prince, MD³, Ping Wang, MD²

¹Cohen Children's Medical Center at Northwell Health, Manhasset, NY, USA, ²Center for Immunology and Inflammation, The Feinstein Institutes for Medical Research, Manhasset, NY, USA, ³Cohen Children's Medical Center, Zucker School of Medicine at Hofstra/Northwell, Queens, NY, USA

APSA 11

Reduction of Pediatric Gastrostomy Tube Healthcare Utilization and Socioeconomic Disparities: Longitudinal Benefits of Quality Improvement

Peter Juviler, MD¹, Anthony Loria, MD, MSc¹, Sarah Wegman, BA², Miranda Chacon, MD³, Luis I. Ruffolo, MD⁴, Mariah Erlick, MD¹, Marsha Pulhamus, CPNP, RN⁴, Theresa Foito, FNP-BC, RN⁴, Heather Martin, DNP, RN, PNP-BC⁴, Jan Schriefer, DrPH, MSN, MBA⁴, Benjamin D. Coffey, BA⁵, Elizabeth Levatino, BSN, RN¹, Sarah Verna, RDCS⁶, Paul Kupicha, NP⁶, Walter Pegoli, MD⁷, David Darcy, MD⁸, Marjorie J. Arca, MD⁶, Nicole A. Wilson, PhD, MD⁶, Derek Wakeman, MD¹

¹University of Rochester, Rochester, NY, USA, ²University of Rochester, ³University of Rochester Medical Center | Golisano Children's Hospital, Rochester, NY, USA, ⁴University of Rochester Medical Center, Rochester, NY, USA, ⁵SUNY Upstate Medical University, Rochester, NY, USA, ⁶University of Rochester | Golisano Children's Hospital, Rochester, NY, USA, ⁷University of Rochester Department of Surgery, Rochester, NY, USA, ⁸Golisano Children's Hospital, University of Rochester Medical Center, Rochester, NY, USA

APSA 12

Screening Ultrasound for Deep Vein Thrombosis Detection in High-risk Pediatric Trauma: A Report from the Midwest Pediatric Surgery Consortium (MWPC) NO CLOT Study

Amanda Witte, MD¹, Kyle Van Arendonk, MD PhD², Carisa Bergner, Martin Bantchev, Richard A. Falcone, MD, MPH³, Suzanne Moody⁴, Heather Hartman, MD⁵, Emily E. Evans, MS⁶, Rajan K. Thakkar², Kelli N. Patterson, DO, MPH, MS⁷, Peter C. Minneci, MD, MHSc⁸, Grace Z. Mak, MD⁹, Mark B. Slidell, MD MPH¹⁰, MacKenton Johnson, Matthew P. Landman, MD¹¹, Troy Markel, MD¹², Charles M. Leys, MD, MSc¹³, Linda Cherney-Stafford, MS¹⁴, Jessica Draper, DNP¹⁵, David S. Foley, MD¹⁶, Cynthia D. Downard, MD, MMSc¹⁷, Tracy Skaggs, Dave R. Lal, MD¹⁸, Peter Ehrlich, MD¹⁹, David Gourlay, MD²⁰

¹Division of Pediatric Surgery, Department of Surgery, Medical College of Wisconsin, Milwaukee, WI, USA, ²Nationwide Children's Hospital, Columbus, OH, USA, ³Cincinnati Children's, Cincinnati, OH, USA, ⁴Cincinnati Children's Hospital Medical Center, ⁵Institute for Firearm Injury Prevention & Department of Surgery, University of Michigan, Ann Arbor, MI, USA, ⁶C.S. Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA, ⁷Nationwide Children's Hospital; Ohio State University, Columbus, OH, USA, ⁸Nemours Children's Hospital Delaware Valley, Wilmington, DE, USA, ⁹Comer Children's Hospital, University of Chicago, Chicago, IL, USA, ¹⁰The Johns Hopkins Children's Hospital, Baltimore, MD, USA, ¹¹Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA, ¹²Riley Hospital for Children at IU Health, Indiana University School of Medicine, Indianapolis, IN, USA, ¹³Division of Pediatric Surgery, Department of Surgery, University of Wisconsin, Madison, WI, USA, ¹⁴University of Wisconsin School of Medicine & Public Health, Division of Pediatric Surgery, Madison, WI, USA, ¹⁵American Family Children's Hospital, University of Wisconsin Health, Madison, WI, USA, ¹⁶Norton Children's Hospital, University of Louisville, Louisville, KY, USA, ¹⁷Hiram C. Polk, Jr, MD Department of Surgery, University of Louisville, Norton Children's Hospital, Louisville, KY, USA, ¹⁸Children's Wisconsin, Milwaukee, WI, USA, ¹⁹C.S. Mott Children's Hospital, Ann Arbor, MI, USA, ²⁰Children's Wisconsin, Medical College of Wisconsin, Milwaukee, WI, USA

APSA 13

Personal Characteristics Are Associated with Imposter Phenomenon Amongst Pediatric Surgeons

Chelsea Marin, MD¹, Pamela M. Choi, MD², Matthew Byrne, MD¹, Katherine T. Flynn-O'Brien, MD³, Jessica A. Zagory, MD⁴, Marion C. W Henry, MD, MPH⁵, Nicole A. Wilson, PhD, MD⁶

¹University of Rochester Medical Center, Rochester, NY, USA, ²Naval Medical Center San Diego, San Diego, CA, USA, ³Medical College of Wisconsin, Milwaukee, WI, USA, ⁴Louisiana State University Health, New Orleans, LA, USA, ⁵University of Chicago, Chicago, IL, USA, ⁶University of Rochester | Golisano Children's Hospital, Rochester, NY, USA

APSA 14

Sensory Recovery Following Intercostal Nerve Cryoablation for the Nuss Procedure

John W. DiFiore, MD¹, Jason O. Robertson, MD, M.S.², Wai Sung, MD³

¹Cleveland Clinic Childrens Hospital, Chagrin Falls, OH, USA, ²Cleveland Clinic Children's Hospital, Department of Pediatric Surgery, Cleveland, OH, USA, ³Cleveland Clinic Childrens Hospital, Cleveland, OH, USA

APSA 15

The Effect of Race on Evaluation and Treatment of Adnexal Masses in Pediatric Patients

Taylor King, MD¹, Kamaria Dansby, B.S.², Molly Lavaud³, Zhulin He⁴, Valerie Dutreuil, MPH⁵, Nancy Sökkary, MD⁶, Allison F. Linden, MD, MPH⁶

¹Emory University, ATLANTA, GA, USA, ²Emory University School of Medicine, DECATUR, GA, USA, ³Emory University School of Medicine, Decatur, GA, USA, ⁴Emory University, Atlanta, GA, USA, ⁵Pediatric Biostatistics Core, Department of Pediatrics, Emory University, Atlanta, GA, USA, ⁶Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA

APSA 16

Current State of Splenectomy in Hemodynamically Unstable Pediatric Blunt Splenic Injury

R Scott Eldredge, MD¹, David M. Notrica, MD¹, Todd Nickoles, MBA, BSN, RN, CPN, TCRN², Brielle Ochoa, MD², Jae-O Bae, MD¹, Ramin Jamshidi, MD², Jamie Harris, MD², Katie W. Russell, MD³, Mark S. Molitor, MD¹, Dorothy Rowe, MD², Erin Garvey, MD², Patrick E. McGovern, MD⁴, Kathleen van Leeuwen, MD¹, Daniel J. Ostlie, MD¹, Justin Lee, MD⁵, Benjamin Padilla, MD⁶

¹Phoenix Children's Hospital, Phoenix, AZ, USA, ²Phoenix Children's, Phoenix, AZ, USA, ³Primary Children's Hospital, Salt Lake City, UT, USA, ⁴University of Arizona College of Medicine - Phoenix/Phoenix Children's Hospital, Phoenix, AZ, USA, ⁵Phoenix Children's Hospital, Phoenix, AZ, USA, ⁶Phoenix Children's Hospital, San Francisco, CA, USA

APSA 17

A Comparative Analysis of "Surgery First" vs. "Endoscopy First" for Pediatric Choledocholithiasis Presenting at the End of the Week: A Multicenter Study

Jessica L. Rauh, MD, MS¹, Garrett Reid², Goeto Dantes, MD³, Matthew T. Santore, MD⁴, Marshall Wallace, MD⁵, Irving J. Zamora, MD, MPH⁶, Kylie Callier⁷, Bethany J. Slater, MD, MBA⁷, Derek Krinock, MD⁸, Sabina Siddiqui, MD⁹, Robert Vandewalle, MD/M.B.A.⁸, Amanda Witte, MD¹⁰, Katherine T. Flynn-O'Brien, MD¹¹, Utsav M. Patwardhan, MD¹², Romeo C. Ignacio, Jr., MD¹³, J. Leslie Knod, MD¹⁴, Katerina Dukleska, MD¹⁵, Michael H. Livingston, MD, MSc, FRCSC¹⁶, Stefan Scholz, MD¹⁷, Maggie E. Bosley, MD¹⁸, Lucas Neff, MD¹⁹, Hanna Alemayehu, MD²⁰

¹Wake Forest, Winston Salem, NC, USA, ²Wake Forest School of Medicine, Winston Salem, NC, USA, ³Emory/Childrens Healthcare of Atlanta, Chamblee, GA, USA, ⁴Emory University, Atlanta, GA, USA, ⁵University of Utah, Holladay, UT, USA, ⁶Vanderbilt University Medical Center, Nashville, TN, USA, ⁷University of Chicago, Chicago, IL, USA, ⁸University of Arkansas for Medical Sciences, Little Rock, AR, USA, ⁹Arkansas Children's Hospital, Springdale, AR, USA, ¹⁰Division of Pediatric Surgery, Department of Surgery, Medical College of Wisconsin, Milwaukee, WI, USA, ¹¹Medical College of Wisconsin, Milwaukee, WI, USA, ¹²Rady Children's Hospital San Diego, San Diego, CA, USA, ¹³Rady Children's Hospital San Diego, University of California San Diego School of Medicine, San Diego, CA, USA, ¹⁴UT Southwestern Medical Center, Children's Health Dallas, ¹⁵Connecticut Children's Medical Center, Hartford, CT, USA, ¹⁶Division of Pediatric Surgery, McMaster University, Hamilton, ON, Canada, ¹⁷UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ¹⁸Wake Forest, Winston Salem, NC, USA, ¹⁹Wake Forest School of Medicine- Atrium Health Wake Forest Baptist, Winston-Salem, NC, USA, ²⁰Emory University School of Medicine, Atlanta, GA, USA

APSA 18

A Novel High-fidelity in-vitro Model of Esophageal Button Battery Ingestion Demonstrates Benefits of Honey and Acetic Acid

Charlotte Reich¹, Nomin Krespach¹, Karina Khakim¹, Andreas Lindner¹, Oliver J. Muensterer, MD, PHD², **Danielle S. Wendling-Keim, MD³**, Charlotte Reich¹

¹Dr. von Hauner Childrens' Hospital, LMU Munich University, Munich, Bayern, Germany, ²Department of pediatric surgery Dr. von Haunersches Kinderspital Munich, Munich, Bayern, Germany, ³Dr. von Hauner Childrens' Hospital, LMU University Hospital, LMU Munich, Munich, Bayern, Germany

9:30am - 9:45am **New Member Induction**

Grand Saguaro North-South

9:45am - 10:15am **Refreshment Break**

Exhibit Hall - Grand Saguaro Foyer

Scientific Session IV - Common Pediatric Surgery Issues #2

10:15am - 11:30am

Moderators:

Jason O. Robertson, MD, M.S., Cleveland Clinic Children's Hospital, Department of Pediatric Surgery, Cleveland, OH USA
Melissa E. Danko, MD, Children's Healthcare of Atlanta/Emory University, Atlanta, GA USA

Chat Room Moderator:

Brittany L. Johnson, MD, University of Michigan, Ann Arbor, MI USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the use of ERAS protocols in sleeve gastrectomies.
- Recognize outcomes in post Malone care.
- Be aware of how pain impacts quality of life in pilonidal disease.

APSA 46

Assessing Concordance of Pre-operative Percutaneous Core and Intra-operative Wedge Liver Biopsies in Biliary Atresia: Are Both Valuable?

Nicholas Schmoke, MD1, Christopher Neme, MD2, Yeu Sanz Wu, MD2, Stephen Lagana, MD2, Helen Remotti, MD2, Mercedes Martinez, MD2, Robert A. Cowles, MD3, Angela Kadenhe-Chiweshe, MD4, Vincent P. Duron, MD5, Steven Stylianios, MD6

1Columbia University, New York, NY, USA, 2Columbia University Vagelos College of Physicians and Surgeons / New York-Presbyterian Morgan Stanley Children's Hospital, New York, NY, New York, NY, USA, 3Yale School of Medicine, Department of Pediatric Surgery, New Haven, CT, USA, 4Weill Cornell School of Medicine, New York, NY, New York, NY, USA, 5CUMC, New York, NY, USA, 6Morgan Stanley Children's Hospital, Columbia University, New York, NY, USA

APSA 47

Utilization of Enhanced Recovery After Surgery (ERAS) Protocol in Pediatric Laparoscopic Sleeve Gastrectomy

Fari Fall, MD, MA1, Devon Pace, MD, MPH2, Julia Brothers, DO3, Manish Purohit, MD3, Kesavan Sadacharam, MD3, Connie Lin, MD3, Kirk Reichard, MD, MBA4, Loren Berman, MD, MHS5, Robert S. Lang, MD3

1Nemours Children's Health/Thomas Jefferson University Hospital, Philadelphia, PA, USA, 2Thomas Jefferson University Hospital, Philadelphia, PA, USA, 3Nemours Children's Health, Wilmington, DE, USA, 4Nemours Children's Health, Wilmington, DE, USA, 5Nemours Children's Hospital-Delaware, Wilmington, DE, USA

APSA 48

Remote Ischemic Conditioning Decreases the Incidence and Severity of Necrotizing Enterocolitis - Validation in a Large Animal Model

Jason Xia, M.D.1, Rahul Gadde, MD MRCS(Eng)1, Angela Saulsbery, MA1, Tyler Kyhl, BS1, Alicia Menchaca, MD1, Candace Style, MD1, **Sophia G. Hameedi, MD1**, Lourenço Sbragia Neto, MD, PhD1, Oluyinka Olutoye, MD, PhD2

1Center for Regenerative Medicine/Nationwide Children's Hospital, Columbus, OH, USA, 2Nationwide Children's Hospital; The Ohio State University, Columbus, OH, USA

APSA 49

Vascular Access for Renal Replacement Therapy in the Infant, a Single Center Experience

Samantha M. Koenig, MD1, Wendelyn M. Oslock, MD, MBA2, Kara C. Short1, Jessica Potts3, David Askenazi, MD, MSPH3, Chinwendu Onwubiko, MD, PhD4, Robert T. Russell, MD, MPH5, Vincent Mortellaro, MD3

1Children's of Alabama, Birmingham, AL, USA, 2University of Alabama Birmingham, Birmingham, AL, USA, 3University of Alabama at Birmingham, Birmingham, AL, USA, 4Children's of Alabama, University of Alabama at Birmingham, Birmingham, AL, USA, 5University of Alabama at Birmingham and Children's of Alabama, Birmingham, AL, USA

Scientific Session VI - Quality and Stewardship

10:15am - 11:30am

Moderators:

Afif N. Kulaylat, MD, MSc, Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA USA
Matthew T. Santore, MD, Emory University, Atlanta, GA USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the cost analysis of early versus late inguinal hernia repairs.
 - Learn ways to reach goal feeds faster after placement of a gastrostomy tube.
 - Recognize ways to improve antibiotic stewardship in treating appendicitis.
-

APSA 20

Heeding the Black Box: Leveraging National Surgical Quality Improvement Project-Pediatric for Hospital-level Assessment of Opioid Prescribing

Mallory N. Perez, MD¹, Lynn Huang, MS², Willemijn L.A. Schafer, PhD², Alison Lehane, MD³, Charesa J. Smith, MD, MS¹, Sarah Kennedy, RN, MSN, MS⁴, Charles J. Aprahamian, MD⁵, Srikumar Pillai, MD⁶, Bethany J. Slater, MD, MBA⁷, Mehul V. Raval⁸

¹Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ²Center for Health Services and Outcomes Research, Institute of Public Health and Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL, USA, ³Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁴Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁵Division of Pediatric Surgery, Department of Surgery, OSF Healthcare, Peoria, IL, USA, ⁶Rush University Medical Center, Chicago, IL, USA, ⁷University of Chicago, Chicago, IL, USA, ⁸Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

APSA 22

To Delay or Not Delay: Cost Analysis of Early vs Delayed Outpatient Repair of Inguinal Hernias in Premature Infants

Gwyneth A. Sullivan, MD, MS¹, Ethan M. Ritz², Brian Englum, MD, MHS³, John Sincavage⁴, Jacky Kwong⁴, Mary Beth Madonna, MD⁵, Srikumar Pillai, MD⁴, Nathaniel Koo, MD⁴, Ami Shah, MD⁵, Brian C. Gulack, MD, MHS⁴

¹Division of Pediatric Surgery, Rush University Medical Center, Chicago, IL, USA, ²Rush Research Informatics Core, Rush University Medical Center, Chicago, IL, USA, ³University of Maryland School of Medicine, Baltimore, MD, USA, ⁴Rush University Medical Center, Chicago, IL, USA, ⁵Division of Pediatric Surgery, Department of Surgery, Rush University Medical Center, Chicago, IL, USA

APSA 23

Less Is More: Improving Antibiotic Stewardship with Shortened Courses for Pediatric Appendicitis

Benjamin Thomae, MS⁴¹, Mehul V. Raval², Gwyneth A. Sullivan, MD, MS³, Elizabeth Fisher⁴, Maxwell Wilberding¹, Alison Lehane, MD⁵, Audra J. Reiter, MD, MPH⁶

¹Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, Chicago, IL, USA, ²Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ³Division of Pediatric Surgery, Rush University Medical Center, Chicago, IL, USA, ⁴Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, Chicago, IL, USA, ⁵Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁶Division of Pediatric Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA

APSA 50

Effectiveness of Intraoperative Nerve Monitoring in Reducing Rates of Recurrent Laryngeal Nerve Injury in Aerodigestive & Cardiovascular Pediatric Surgery

Shawn Izadi, MD¹, Megan Z. Chiu, MD², Donna C. Koo, MD³, Jay Meisner⁴, Somala Mohammed, MD, Farokh R. Demehri, MD¹, Sukgi Choi, MD⁵, Steven J. Staffa, MS¹, Benjamin Zendejas, MD, MSc¹

¹Boston Children's Hospital, Boston, MA, USA, ²Boston Children's Hospital, Brookline, MA, USA, ³Northwell Health – NS/LIJ, Jamaica Plain, MA, USA, ⁴Boston Children's Hospital, La Jolla, CA, USA, ⁵Esophageal and Airway Treatment Center, Boston Children's Hospital

APSA 51

What Happens Post-Malone? An Investigation of Long-term Postoperative Management of Antegrade Continence Enemas

Ellen M. Encisco, MD¹, Ramiro Garza², Neil L. McNinch, MS, RN, PSTAT³, Carolyn Davis, MSN, APRN-CNP⁴, Nelson Rosen, MD⁵, Beth A. Rymeski, DO⁵, Jason S. Frischer, MD⁵, Aaron P. Garrison, MD⁵, Justin T. Huntington⁴

¹Mayo Clinic, Rochester, MN, USA, ²University of Akron, North Canton, OH, USA, ³Rebecca D. Considine Research Institute, Akron Children's Hospital, Akron, OH, USA, ⁴Akron Children's Hospital, Akron, OH, USA, ⁵Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

APSA 52

Utilizing an Antegrade Continence Enema Program to Transition a Patient to Voluntary Bowel Movements

Thomas O. Xu, MD¹, Rachel E. Hanke, MD², Teresa Russell, MS¹, Laura Tiusaba, MD¹, Shimon E. Jacobs, MD, MPH¹, Christina P. Ho, MD¹, Briony K. Varda, MD, MPH¹, Erin Teeple, MD¹, Andrea T. Badiillo, MD¹, Marc A. Levitt, MD¹, Christina Feng, MD¹

¹Children's National Hospital, Washington, DC, USA, ²Children's National Hospital, Alexandria, VA, USA

APSA 53

Outpatient Opioid Monitoring and Reclamation Program Following the Minimally Invasive Repair of Pectus Excavatum

R Scott Eldredge, MD¹, Brielle Ochoa, MD², Emalee M. Orcutt, BS², Melissa Nguyen², Kristin Mihalcin¹, Lisa E. McMahon, MD¹, Jae-O Bae, MD¹, Justin Lee, MD³, David M. Notrica, MD¹, Benjamin Padilla, MD⁴

¹Phoenix Children's Hospital, Phoenix, AZ, USA, ²Phoenix Children's, Phoenix, AZ, USA, ³Phoenix Children's Hospital, Phoenix, AZ, USA, ⁴Phoenix Children's Hospital, San Francisco, CA, USA

APSA 54

Effect of Pain on Quality of Life in Children and Adolescents with Pilonidal Disease

Amelia E. Gavulic, BS¹, Stephen J. Hartman, MD², Amelia Collings, MD³, Nelson Rosen, MD², Rebeccah L. Brown, MD², Alejandra M. Casar Berazaluze, MD⁴, K. Elizabeth Speck, MD, MS⁵, Cynthia D. Downard, MD, MMS⁶, Matthew P. Landman, MD⁷, Patrick A. Dillon⁸, Julia E. Grabowski, MD⁹, Grace Z. Mak, MD¹⁰, Charles M. Leys, MD, MSc¹¹, Jason D. Fraser, MD¹², Dave R. Lal, MD¹³, Beth A. Rymeski, DO²

¹University of Cincinnati College of Medicine, Cincinnati, OH, USA, ²Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ³University of Louisville Department of Surgery, Louisville, KY, USA, ⁴Cincinnati Children's Hospital Medical Center, University of Texas Health Science Center at San Antonio, Cincinnati, OH, USA, ⁵University of Michigan, Ann Arbor, MI, USA, ⁶Hiram C. Polk, Jr, MD Department of Surgery, University of Louisville, Norton Children's Hospital, Louisville, KY, USA, ⁷Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA, ⁸St. Louis Children's Hospital, St. Louis, MO, USA, ⁹Division of Pediatric Surgery, Department of Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago Northwestern University Feinberg School of Medicine, Chicago, IL, USA, ¹⁰Comer Children's Hospital, University of Chicago, Chicago, IL, USA, ¹¹Division of Pediatric Surgery, Department of Surgery, University of Wisconsin, Madison, WI, USA, ¹²Children's Mercy Kansas City, Kansas City, MO, USA, ¹³Children's Wisconsin, Milwaukee, WI, USA

Scientific Session V - Fetal

10:15am - 11:30am

Moderators:

Rony Marwan, MD, FACS, FAAP, University of Missouri, Columbia, MO USA
Erin E. Perrone, MD, University of Michigan, Ann Arbor, MI USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand a new method for perinatal vaccination.
- Be aware of the role of Treprostinil in the fetal treatment of CDH.
- Learn a novel treatment of meningocele.

APSA 117

3-port Fetoscopic Meningomyelocele Repair

Krysta M. Sutyak, DO¹, Ramesha Papanna, MD MPH², Stephen Fletcher, DO¹, Eric Bergh, MD¹, Mary T. Austin, MD, MPH³, KuoJen Tsao, MD³

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

APSA 118

Bioengineered Hydrogel with Placental Mesenchymal Stem Cell Derived Extracellular Vesicles Rescue Ambulation in an Ovine Myelomeningocele Model

Zoe M. Saenz, MD¹, Dake Hao, PhD², Christopher D. Pivetti, MS³, Kathleen E. Doyle, MD¹, Monalisa Hassan, MD¹, Juan Lopez, BS², Emma Loll, BS², Priyadarsini Kumar, PhD³, Diana Farmer, MD⁴, Aijun Wang, PhD³

¹UC Davis Medical Center, Sacramento, CA, USA, ²UC Davis, Center for Surgical Bionengineering, Sacramento, CA, USA, ³University of California, Davis Medical Center, Sacramento, CA, USA, ⁴UC Davis, Carmichael, CA, USA

APSA 119

In-vivo and Ex-vivo Targeting of the Fetal Pulmonary System Facilitates Organ-specific Optimization of Therapeutic Vectors

Sourav K. Bose, MD MBA MSc¹, Rohan Palanki², Brandon White³, William H. Peranteau, MD⁴

¹Brigham and Women's Hospital, Brookline, MA, USA, ²CHOP, Philadelphia, PA, USA, ³Center for Fetal Research, Children's Hospital of Philadelphia, ⁴Children's Hospital of Philadelphia, Philadelphia, PA, USA

APSA 120

Maternal Treprostinil and Fetal Tracheal Occlusion Have Synergistic Effects on Lung Development in the Rabbit Model of Congenital Diaphragmatic Hernia

Felix Rafael De Bie, MD, PhD, MBE¹, Yannick Regin², Marianna Scuglia², Tomohiro Arai², Antoine Dubois², Ewout Muyllle², Laura Colman², David Basurto², Marnel Greyling², Karel Allegaert², Francesca Russo², Jan Deprest²

¹Duke University Health Systems, Durham, NC, USA, ²KU Leuven, Leuven, Vlaams-Brabant, Belgium

APSA 121

Perinatal Vaccination by Transamniotic Fetal Mrna Delivery: Immunization Against Human Cytomegalovirus in a Rodent Model

Kamila Moskowitsova, MD¹, Abbie Naus¹, Savas Tsikis¹, Tanya T. Dang², Shuqi Lin¹, David Zurakowski, MS PhD³, Dario O. Fauza, MD, PhD⁴

¹Boston Children's Hospital, Harvard Medical School, Boston, MA, USA, ²Boston Children's Hospital, Boston, MA, USA, ³Boston Children's Hospital, Department of Anesthesia, Critical Care, and Pain Medicine Research, Boston, MA, USA, ⁴Boston Children's Hospital, Department of Surgery, Boston, MA, USA

APSA 122

In Utero Intra-amniotic Delivery of Lipid Nanoparticles for Delivery of mRNA Therapies

William R. Johnston, MD¹, Marco Carpenter¹, John S. Riley, MD MS¹, Valerie L. Luks², Ana-Maria Dumitru, MD, PhD¹, Nicole J. Kus, MD³, Cara L. Berkowitz, MD⁴, Rohan Palanki⁵, Mohamad Gabriel Alameh⁶, William H. Peranteau, MD¹

¹Children's Hospital of Philadelphia, Philadelphia, PA, USA, ²University of Pennsylvania Health System, Philadelphia, PA, USA, ³University of Maryland Medical Center, Baltimore, MD, USA, ⁴Children's Hospital of Philadelphia, ⁵CHOP, Philadelphia, PA, USA, ⁶University of Pennsylvania, Philadelphia, PA, USA

APSA 123

Pulmonary Hypoplasia Secondary to Oligohydramnios: New Insights into Pathophysiology and Potential Stem Cell-based Therapy

Fabian Doktor, MD¹, Lina Antounians, MSc¹, Rebeca Figueira², Mikal Obed, MD¹, Kasra Khalaj¹, Augusto Zani, MD, PhD, FACS, FAAP³

¹The Hospital for Sick Children, Toronto, ON, Canada, ²The Hospital for Sick Children, ³The Hospital for Sick Children / University of Toronto, Toronto, ON, Canada

APSA 124

Repurposing an Endogenous mRNA Packaging Protein from the Maternal-fetal Interface for in Utero Gene Therapy

Steven T. Papastefan, MD¹, Hee K. Kang, PhD², Catherine Redden³, Lucas Turner³, Morgan M. Langereis, MSc², Katherine Ott, MD⁴, Masato Ohtsuka, PhD⁵, Amir Alhajjat³, Channabasavaiah B. Gurumurthy, PhD⁶, Aimen Shaaban³

¹Department of Surgery, Northwestern University Feinberg School of Medicine Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ²Ann and Robert H. Lurie Children's Hospital, Chicago, IL, USA, ³Center for Fetal Cellular and Molecular Therapy, Ann and Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁴Center for Fetal Cellular and Molecular Therapy, Ann and Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁵Tokai University, Shibuya City, Tokyo, Japan, ⁶University of Nebraska Medical Center, Omaha, NE, USA

APSA 125

Single Cell-guided Prenatal Derivation of Primary Fetal Epithelial Organoids from Human Amniotic and Tracheal Fluids for Congenital Disease Modelling and Therapies

Mattia FM Gerli, PhD¹, Giuseppe Calá¹, max Beesley, PhD¹, Beatrice Sina, MEng¹, Lucinda Tullie², Kylin Yunyan Sun¹, Francesco Panariello, PhD³, Federica Michielin⁴, Joseph davidson¹, Francesca Russo⁵, Brendan Jones¹, Dani Do Hyang Lee¹, savvas savvidis¹, Theodoros Xenakis¹, Ian Simcock¹, Anna Straatman-Iwanowska⁶, Anna David¹, Christopher O'Challaghan¹, Alessandro Olivo¹, Simon Eaton⁷, Stavros Loukogeorgakis¹, Davide Cacchiarelli, PhD³, Jan Deprest⁵, Vivian Li, PhD², Giovanni G. Giobbe, Doctorate¹, **Paolo De Coppi, MD, PhD⁸**

¹University College London, London, England, United Kingdom, ²The Francis Crick Institute, London, England, United Kingdom, ³Telethon institute for genomics and medicine, Pozzuoli, Campania, Italy, ⁴Great Ormond Street Institute of Child Health, University College London, London, England, United Kingdom, ⁵KU Leuven, Leuven, Vlaams-Brabant, Belgium, ⁶University of Leicester, Leicester, England, United Kingdom, ⁷Great Ormond Street Institute of Child Health, London, England, United Kingdom, ⁸Specialist Neonatal and Paediatric Surgery, UCL and Great Ormond Street Hospital for Children, London, England, United Kingdom

Scientific Session VI - Quality and Stewardship

10:15am - 11:30am

Moderators:

Afif N. Kulaylat, MD, MSc, Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA USA
Matthew T. Santore, MD, Emory University, Atlanta, GA USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the cost analysis of early versus late inguinal hernia repairs.
- Learn ways to reach goal feeds faster after placement of a gastrostomy tube.
- Recognize ways to improve antibiotic stewardship in treating appendicitis.

APSA 20

Heeding the Black Box: Leveraging National Surgical Quality Improvement Project-Pediatric for Hospital-level Assessment of Opioid Prescribing

Mallory N. Perez, MD¹, Lynn Huang, MS², Willemijn L.A. Schafer, PhD², Alison Lehane, MD³, Charesa J. Smith, MD, MS¹, Sarah Kennedy, RN, MSN, MS⁴, Charles J. Aprahamian, MD⁵, Srikumar Pillai, MD⁶, Bethany J. Slater, MD, MBA⁷, Mehul V. Raval⁸

¹Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ²Center for Health Services and Outcomes Research, Institute of Public Health and Medicine, Northwestern University Feinberg School of Medicine, Chicago, IL, USA, ³Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁴Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁵Division of Pediatric Surgery, Department of Surgery, OSF Healthcare, Peoria, IL, USA, ⁶Rush University Medical Center, Chicago, IL, USA, ⁷University of Chicago, Chicago, IL, USA, ⁸Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

APSA 23

Less Is More: Improving Antibiotic Stewardship with Shortened Courses for Pediatric Appendicitis

Benjamin Thomae, MS⁴, Mehul V. Raval², Gwyneth A. Sullivan, MD, MS³, Elizabeth Fisher⁴, Maxwell Wilberding¹, Alison Lehane, MD⁵, Audra J. Reiter, MD, MPH⁶

¹Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, Chicago, IL, USA, ²Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ³Division of Pediatric Surgery, Rush University Medical Center, Chicago, IL, USA, ⁴Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, Chicago, IL, USA, ⁵Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁶Division of Pediatric Surgery, Northwestern University

APSA 24

The Development of a Multidisciplinary Gastrostomy Tube Perioperative Care Bundle in the Neonatal Intensive Care Unit Decreases Operative Enteral Access Complications

Michelle P. Hojnicky, DO¹, Raquel Gonzalez, MD, MHCM¹, Fauzia M Shakeel, MD, CPHQ²

¹Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA, ²Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA

APSA 25

Improving Time to Goal Feeding and Discharge After Surgical Gastrostomy Tube Placement in Children

Monica Milovancev, MSN¹, Anuradha Patel², Melissa Matthews, MSN³, Jocelyn Gmerek, MSN³, Kelsie Townsend, MSN³, Anne Ramsey, MSN³, Laura Pickel, PAC³, Eunice Huang, MD, MS⁴

¹Monroe Carell Junior Children's Hospital at Vanderbilt, Nolensville, TN, USA, ²Monroe Carell Junior Children Hospital at Vanderbilt, Nashville, TN, USA, ³Monroe Carell Junior Children Hospital at Vanderbilt, Nashville, TN, USA, ⁴Department of Pediatric Surgery, Vanderbilt University Medical Center, Monroe Carell Jr. Children's Hospital, Nashville, TN, USA

APSA 26

Iterative Quality Improvement in Opioid Stewardship Improves Care and Pain Control in Pectus Excavatum Surgery

Krysta M. Sutyak, DO¹, Isabella Anderson, BS¹, Neil G. Jayarajan, BS², Yasmine L. Young, MS, BSA¹, Nutan B. Hebballi, BDS, MPH³, Elenir Avritscher⁴, Ranu R. Jain, MD⁵, KuoJen Tsao, MD⁶

¹University of Texas Health Science Center at Houston, Houston, TX, USA, ²University of Texas Health Science Center at Houston, Colleyville, TX, USA, ³McGovern Medical School at the University of Texas at Houston (UTHealth), Houston, TX, USA, ⁴McGovern Medical School at The University of Texas at Houston (UTHealth), Houston, TX, USA, ⁵UT Health McGovern Medical School, Houston, TX, USA, ⁶McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA

APSA 27

Implementation of a Neonatal Surgical Feeding Advancement Clinical Care Guideline

Charesa J. Smith, MD, MS¹, Steven T. Papastefan, MD², Stephanie Jones, MS, RN, RNC-NIC, CBC³, Naomi Sullivan, MEd, MS, MBA, RN⁴, Jennifer Bathgate, MPH, RD, CSP, LDN³, Tonia Branche, MD, MPH³, Jillian Hanger, MSN, APRN, NPP-BC³, Meहुल V. Raval⁵, Linda Zekas, MSN, APRN-NP, CWON³, Abigail Jones, MA, CCC-SLP, IBCLC³, Daniel Robinson, MD, MSC³, Gustave Falciglia, MD, MSCI, MSHQPS³, Amir Alhajjat⁶

¹Division of Pediatric Surgery, Department of Surgery, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ²Department of Surgery, Northwestern University Feinberg School of Medicine Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ³Division of Neonatology, Department of Pediatrics, Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁴Center for Quality and Safety, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁵Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁶Center for Fetal Cellular and Molecular Therapy, Ann and Robert H. Lurie Children's Hospital

APSA 28

A Utilization-based Approach to Reduce Operating Room Cost and Improve Efficiency for Pediatric Inguinal Hernia Repairs

Lekha Devara, MD¹, Brittany Levy, MD², Lauren Henley³, Danielle S. Walsh, MD⁴, Julia Hay, PharmD², Sarah A. Helmy⁵, Andrew M. Harris, MD²

¹University of Kentucky Department of Surgery, Louisville, KY, USA, ²University of Kentucky, Lexington, KY, USA, ³University of Kentucky, Nicholasville, KY, USA, ⁴UNIVERSITY OF KENTUCKY, Greenville, NC, USA, ⁵UK HealthCare, Louisville, KY, USA

APSA 21

Increasing Caudal Block Utilization to Promote Opioid Stewardship in the NICU Population

Fari Fall, MD, MA¹, Devon Pace, MD, MPH², Kesavan Sadacharam, MD³, Lynn Fuchs, MD³, Robert S. Lang, MD³, Jeanette Koran, BSRN³, Shannon Chan, PharmD³, Judith Guidash, BSN, RN, CPHQ³, Garima Midha, MBA, CPHQ³, Loren Berman, MD, MHS⁴

¹Nemours Children's Health/Thomas Jefferson University Hospital, Philadelphia, PA, USA, ²Thomas Jefferson University Hospital, Philadelphia, PA, USA, ³Nemours Children's Health, Wilmington, DE, USA, ⁴Nemours Children's Hospital-Delaware, Wilmington, DE, USA

11:30am - 12:00pm

Lunch Pick-up

Exhibit Hall - Grand Saguaro Foyer

Business Meeting and Town Hall

12:00pm - 1:30pm

APSAlutely Everything You Need to Know!

Chat Room Moderator:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Business Meeting

David M. Powell, MD, APSA President
Stanford University
Breckenridge, CO, USA

Town Hall

What is and How do We Value a Pediatric Surgeon?

Thomas F. Tracy, Jr., MD MBA, APSA President-Elect
Newport, RI, USA

EPAs are Coming, Are You Ready?

1:45pm - 2:30pm

Program Committee Liaison:

Jason S. Frischer, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Moderator:

Samantha Ahle, MD, MHS, The Warren Alpert Medical School Brown University, Providence, RI, USA

Chat Room Monitor:

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Speakers:

Minna M. Wieck, MD, UC Davis Children's Hospital, Sacramento, CA, USA
Pramod S. Puligandla, MD, MSc, Montreal Children's Hospital, Montreal, PQ, Canada
Raquel Gonzalez, MD, MHCM, Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA
Steven L. Lee, MD, MBA, Seattle Children's Hospital and University of Washington School of Medicine, Seattle, WA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Define Entrustable Professional Activity (EPA)
- Describe the general surgery EPA requirements set forth by the ABS and how they are to be implemented.
- Utilize the EPA framework to provide formative feedback to trainees.

Imaging Updates in Trauma

1:45pm - 2:30pm

Program Committee Liaison:

Shannon L. Castle, MD, Valley Children's Hospital, Madera, CA, USA

Moderators:

Regan F. Williams, MD, MS, Le Bonheur Children's Hospital, Memphis, TN, USA
Michael Dingeldein, MD, Rainbow Babies & Children's Hospital, Cleveland, OH, USA

Chat Room Monitor:

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Speakers:

Shannon L. Castle, MD, Valley Children's Hospital, Madera, CA, USA
John M. Draus, MD, Wolfson Children's Hospital, Jacksonville, FL, USA
Shawn D. Larson, MD, University of Florida College of Medicine, Gainesville, FL, USA
Katie W. Russell, MD, Primary Children's Hospital, Salt Lake City, UT, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Review the use of fast MR for head and cervical spine injuries in children.
- Describe the appropriate use of MR in physical child abuse work up utilizing a pro versus con debate.
- Implement the most recent protocols for the evaluation of cervical spine injuries.

Locum Tenens: The Benefits and Challenges for Hospitals, Pediatric Surgeons, and Their Patients. *Presented by the Ethics, Quality, Practice, Wellness and Workforce Committees*

1:45pm - 2:30pm

Program Committee Liaison:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Session Organizer:

Abigail E. Martin, MD MA FAAP, Kentucky Children's Hospital, University of Kentucky, Lexington, KY, USA

Moderator:

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Speakers:

Adi Fahy, MD PhD, Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA, USA

Sarah K. Walker, MD, Division of Pediatric Surgery, Department of Surgery, Texas Tech University Health Sciences Center, El Paso, TX, USA

Panelists:

Afif N. Kulaylat, MD, MSc, Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA, USA

Marcene McVay-Gillam, MD FACS FAAP, University of Arkansas for Medical Sciences, Springdale, AR, USA

Anthony DeRoss, MD, Cleveland Clinic, Cleveland, OH, USA

Erica M. Carlisle, MD, University of Iowa Stead Family Children's Hospital, Iowa City, IA, USA

Sabina Siddiqui, MD, Arkansas Children's Hospital, Springdale, AR, USA

Suzanne Yoder, MD MPH, Locum Tenens, Shell Beach, CA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Apply ethical concepts to determine which types of hospital environments and/or surgical procedures are appropriate to be covered by locum tenens surgeons.
- Describe how locum tenens surgeons can affect quality of care, both positively and negatively.
- Create acceptable standards for participants' home institutions regarding Pediatric Surgery locum tenens coverage.

Breakshops

2:45pm - 3:30pm

SURGICAL CRITICAL CARE COMMITTEE

Vascular Access in Neonates and Infants: Techniques You Know and Those You Want to Know

Chat Room Monitor:

Melissa E. Danko, MD, Children's Healthcare of Atlanta/Emory University, Atlanta, GA, USA

Speakers:

Arul Thirumoorthi, MD, University of Michigan, C.S. Mott Children's Hospital, Ann Arbor, MI, USA

Natalie A. Drucker, MD, MS, McGovern Medical School at The University of Texas Health Science Center at Houston, Houston, TX, USA

Julie Monteagudo, MD, Hasbro Children's Hospital/Brown University, Providence, RI, USA

2:45pm - 3:30pm

DEI COMMITTEE

From Insight to Impact: Practical Approaches to Improving Equity in Pediatric Surgical Care

Program Committee Liaisons:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Charesa J. Smith, 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, IL, USA

Moderators:

Muriel A. Cleary, MD MHS, University of Massachusetts Medical School, Department of General Surgery, Division of Pediatric Surgery, Worcester, MA, USA

Kevin T. Mutore, MD, UT-Southwestern, Dallas, TX, USA

Speakers:

Erika A. Newman, MD, C. S Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA

Ian E. Brown, MD, PhD, University of California Davis Health, Sacramento, CA, USA

Jose Diaz-Miron, MD, Children's Hospital Colorado, Aurora, CO, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Describe successful real-world examples of equity-focused initiatives in pediatric surgery, including the development of a health equity consult service, creation of a language concordant care model, and implementation of programs that reduce disparities in trauma care.

2:45pm - 3:30pm

NEW TECHNOLOGY COMMITTEE

Non-Operative Approaches to the Treatment of Pectus Excavatum: It's Not Just About the Bell

Program Committee Liaison:

Tim Jancelewicz, MD, MA, MS, Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN, USA

Speakers:

Brian C. Gulack, MD, MHS, Rush University Medical Center, Chicago, IL, USA

Sunghoon Kim, MD, UCSF Benioff Children's Hospital Oakland, Oakland, CA, USA

Seth D. Goldstein, MD, MPhil, Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

Kristen N. Kaiser, MD, Indiana University, Indianapolis, IN, USA

Elisabeth Wynne, MD, Dayton Children's Hospital, Dayton, OH, USA

Mary Froehlich, MD, Kirk Kerkorian School of Medicine at UNLV, Las Vegas, NV, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Discuss options for alternative treatments of Pectus Excavatum

2:45pm - 3:30pm

DIGITAL HEALTH SUBCOMMITTEE (Education Committee)

Creative Solutions to Overcome Barriers to Post-pandemic Telehealth Use

Program Committee Liaison:

Jason S. Frischer, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Moderators:

Rachel E. Hanke, MD, Children's National Hospital, Alexandria, VA, USA

Doug Miniati, MD, Kaiser Permanente Roseville, Roseville, CA, USA

Panelists:

Christina Feng, MD, Children's National Hospital, Washington, DC, USA

Kenneth Gow, MD, MHA, Stony Brook University, Stony Brook, NY, USA

Sundeeep G. Keswani, MD, Baylor College of Medicine and Texas Children's Hospital, Bellaire, TX, USA

Mark B. Slidell, MD MPH, The Johns Hopkins Children's Hospital, Baltimore, MD, USA

Russell K. Woo, MD, University of Hawaii, John A. Burns School of Medicine, Honolulu, HI, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Discuss common barriers to the continued use of telehealth within the pediatric surgery community.
- Describe effective strategies to overcome common barriers to the continued use of telehealth within the pediatric surgery community.
- Identify additional barriers and potential solutions to continued surgeon use of telehealth within the pediatric surgery community.

2:45pm - 3:30pm

COLLABORATION BETWEEN THE ETHICS AND THE WELLNESS COMMITTEES Supporting Each Other as We Care for Increasing Numbers of Children with Penetrating Traumatic Injuries

Program Committee Liaison:

Erica M. Carlisle, MD, University of Iowa Stead Family Children's Hospital, Iowa City, IA, USA

Speakers:

Regan F. Williams, MD, MS, Le Bonheur Children's Hospital, Memphis, TN, USA

Lisa Van Houwelingen, MD, MPH, McMaster Children's Hospital, McMaster University, Dundas, ON, Canada

Veronica F. Sullins, MD, UCLA Mattel Children's Hospital, Los Angeles, CA, USA

Bellal Joseph, MD, FACS, University of Arizona, Tucson, AZ, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Discuss ways in which a pediatric surgeon can better support themselves and their colleagues as we care for pediatric trauma patients with penetrating injuries.

Lefties and Righties Can Play Well in the OR Sandbox and Other Tales of Teaching Technical Skills

Program Committee Liaison:

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Moderator:

A. Alfred Chahine, MD, Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA

Speakers:

Robert Vandewalle, MD, MBA, University of Arkansas for Medical Sciences, Little Rock, AR, USA

Derek Krinock, MD, Arkansas Children's Hospital, Little Rock, AR, USA

Martha-Conley Ingram, MD, MPH, Arkansas Children's Hospital, Little Rock, AR, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Learn practical tips on how to teach in the operating room.
- Recognize how to approach and assist trainees based upon hand dominance in the operating room.
- Recognize how to approach and assist trainees based upon hand dominance outside the operating room.

2:45pm - 3:30pm

RESEARCH SUBCOMMITTEE, EDUCATION COMMITTEE Effective Design and Implementation of Surgical Education Research

Program Committee Liaison:

Afif N. Kulaylat, MD, MSc, Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA, USA

Speakers:

Benjamin Zendejas, MD, MSc, Boston Children's Hospital, Boston, MA, USA

Michael Kochis, MD, EdM, Massachusetts General Hospital, Boston, MA, USA

Andreas H. Meier, MD MEd Dr med, Golisano Children's Hospital, Syracuse, NY, USA

Rebecca Moreci, MD, MS, University of Michigan, New Orleans, LA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Contrast education scholarship from other forms of medical research with a focus on methodology and analysis

2:45pm - 3:30pm

SOAPPS (Section on Affiliate Professionals in Pediatric Surgery) Navigating the APP Career Ladder

Program Committee Liaison:

Ashley H. Ebanks, MSN, University of Texas Health Sciences Center at Houston, Houston, TX, USA

Navigating the APP Career Ladder

Rebecca John, RN, MSN, CPNP, Children's Hospital of Orange County, Orange, CA, USA

Physician Assistant Pediatric Surgery Residency

Ty Reutebuch, Physician Assistant, Nemours Childrens Hospital - Florida, Orlando, FL, USA

Lead APP

Richele Koehler, MSPAS, DMSc, PA-C, Children's Hospital Colorado/University of Colorado School of Medicine, Aurora, CO, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Implement actionable steps to empower participants in their professional growth.

2:45pm - 3:30pm

SURGICAL CRITICAL CARE COMMITTEE Effective Design and Implementation of Surgical Education Research

Program Committee Liaison:

Shannon L. Castle, MD, Valley Children's Hospital, Madera, CA, USA

Speakers:

Mark L. Ryan, MD, MSPH, FACS, University of Texas Southwestern, Dallas, TX, USA

Adam M. Vogel, MD, Texas Children's Hospital, Houston, TX, USA

Justin Sobrino, MD, Children's Healthcare of Atlanta / Emory University, Atlanta, GA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Gain knowledge in the fundamental aspects of critical care billing as a pediatric surgeon, and the clinical and documentation elements required to do so.
- Understand the rules and requirements to bill critical care codes for trauma and ICU patients.

2:45pm - 3:30pm

SURGICAL QUALITY AND SAFETY COMMITTEE I'd Love to Participate in Local Quality Initiatives, but I Can't Get the Ball Rolling!

Program Committee Liaison:

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA USA

Moderator:

Raquel Gonzalez, MD, MHCM, Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA

Speakers:

Matthew T. Santore, MD, Emory University, Atlanta, GA, USA

Monica E. Lopez, MD MS, Monroe Carell Jr Children's Hospital at Vanderbilt, Nashville, TN, USA

Ruth Lewit, MD, MPH, Augusta University, Medical College of Georgia, Augusta, GA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Based on feedback from the APSA QSC 2023 breakout session, discuss implementation barriers that pediatric surgeons interested in quality improvement initiatives identify at their local institutions.
- Describe strategies to overcome these common barriers.
- List opportunities where the APSA QSC can serve as a liaison and resource to assist with overcoming challenges.

2:45pm - 3:30pm

TRAUMA COMMITTEE

Disaster Management and the Pediatric

Program Committee Liaison:

Reto M. Baertschiger, MD, PhD, Geisel School of Medicine at Dartmouth, Dartmouth Hitchcock Medical Center, Lebanon, NH, USA

Speakers:

Michael Dingeldein, MD, Rainbow Babies & Children's Hospital, Cleveland, OH, USA

Kim G. Wallenstein, MD, PhD, SUNY Upstate Medical University, Syracuse, NY, USA

Howard I. Pryor, MD, Texas Children's Hospital, Houston, TX, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Discuss unique personnel, equipment, and consumable needs required to provide pediatric surgical care in a disaster response.

Breakshops

4:00pm - 4:45pm

DEI COMMITTEE

No Two Paths Are the Same: A Discussion on the Importance of Pathway Development in Pediatric Surgery

Chat Monitor, Program Committee Liaison:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Speakers:

Erika A. Newman, MD, C.S. Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA

Sean E. McLean, MD, University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Loren Berman, MD, MHS, Nemours Children's Hospital-Delaware, Wilmington, DE, USA

Marjorie J. Arca, MD, University of Rochester I Golisano Children's Hospital, Rochester, NY, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Define pathway development and why it is imperative to diversifying pediatric surgery.
- Describe strategies for supporting and mentoring diverse trainees along their path to pediatric surgery.
- Discuss candidate selection and minimizing biases in candidate selection for residency, fellowship, and faculty academic promotion.

4:00pm - 4:45pm

COLLABORATION BETWEEN THE EDUCATION AND NEW TECHNOLOGY COMMITTEES

Evaluating Feasibility and Developing Team Proficiency in Pediatric Robotic Surgery: Should You and How Do You Do It?

Program Committee Liaison:

Cristine S. Velazco, MD, MS, Arnold Palmer Hospital for Children, Orlando Health, Orlando, FL, USA

Speakers:

Clint D. Cappiello, MD FACS FAAP, Johns Hopkins Children's Center, BALTIMORE, MD, USA

Brian C. Gulack, MD, MHS, Rush University Medical Center, Chicago, IL, USA

Karen A. Diefenbach, MD, Nationwide Children's Hospital, Dublin, OH, USA

Lauren Gillory, MD, University of Texas Southwestern Medical Center, Dallas, TX, USA

Matias Bruzoni, MD, Texas Children's Hospital, Austin, TX, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Accurately Describe the Advantages and Disadvantages of Robotic Surgery in Pediatrics Within Their Practice.
- Develop a framework to build a program for skill acquisition and maintenance incorporating robotic surgeons, trainees and allied health professionals.
- Determine how simulation may be helpful in advancing team proficiency and individual skills

4:00pm - 4:45pm

SURGICAL CRITICAL CARE COMMITTEE

Controversies in ECMO Candidacy; ECMO Emergencies - We've Got This! You Want Me to do What? An Approach to Performing Invasive Procedures on ECMO

Program Committee Liaison:

Melissa E. Danko, MD, Children's Healthcare of Atlanta/Emory University, Atlanta, GA, USA

Moderator:

Julie Monteagudo, MD, Hasbro Children's Hospital/Brown University, Providence, RI, USA

Speakers:

Patrick E. McGovern, MD, University of Arizona College of Medicine - Phoenix/Phoenix Children's Hospital, Phoenix, AZ, USA

Allison F. Linden, MD, MPH, Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA

Keith Thatch, MD, John Hopkins All Children's Hospital, Tampa General Hospital, St. Petersburg, FL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Develop a framework for discussing ECMO candidacy in “controversial” patient populations, articulate a comprehensive approach (management strategy) for performing invasive procedures in patients receiving extracorporeal life support, recognize and manage catastrophic emergencies that may occur during extracorporeal life support.

4:00pm - 4:45pm

CHOLEDOCHOLITHIASIS SPECIAL INTEREST GROUP

A Simplified Technique Workshop for TLCBDE – a Surgery First Approach to Cholelithiasis

Program Committee Liaison:

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA USA

Moderator:

Jessica L. Rauh, MD, MS, Wake Forest, Winston Salem, NC, USA

Speakers:

Lucas Neff, MD, Wake Forest School of Medicine- Atrium Health Wake Forest Baptist, Winston-Salem, NC, USA

Romeo C. Ignacio, MD, Rady Children's Hospital San Diego, San Diego, CA, USA

Stefan Scholz, MD, UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA

Katerina Dukleska, MD, Connecticut Children's Medical Center, Hartford, CT, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- To emphasize a surgery first approach to choledocholithiasis and use a hands-on approach to teaching a straight-forward technique for transcystic laparoscopic common bile duct exploration.
- Describe various techniques for LCBDE.
- Understand common pitfalls of LCBDE.

4:00pm - 4:45pm

CRITICAL INCIDENT STRESS DEBRIEF

Project Funded by the APSA Foundation 2023 Education Grant

Program Committee Liaison:

Rachael Sundland, MD, Maimonides Medical Center, Brooklyn, NY, USA

Speaker:

Kathleen van Leeuwen, MD, Phoenix Children's Hospital, Phoenix, AZ, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Teach a practical and viable framework for debriefing after critical incidents.

4:00pm - 4:45pm

GLOBAL PEDIATRIC SURGERY COMMITTEE

Developing Global Surgery Rotations for Pediatric Surgery Fellows

Program Committee Liaison:

Sherif Emil, MD, CM, The Montreal Children's Hospital, McGill University Health Centre, Montreal, PQ, Canada

Moderator:

Robin T. Petroze, MD, MPH, University of Michigan, Ann Arbor, MI, USA

Speakers:

Sherif Emil, MD, CM, The Montreal Children's Hospital, McGill University Health Centre, Montreal, PQ, Canada

George F. F. Ngock, MBBS, Mbingo Baptist Hospital, Mbingo, Nord-Ouest, Cameroon

Benedict C. Nwomeh, MD, MPH, Nationwide Children's Hospital, Columbus, OH, USA

Lindsey L. Wolf, MD, MPH, Arkansas Children's Hospital, Little Rock, AR, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- This session will explore learning objectives, logistics, and coordination of global surgery fellow rotations.

4:00pm - 4:45pm

HEALTH POLICY AND ADVOCACY COMMITTEE

The Impact of Health Policy Change on Moral Distress in Pediatric Surgeons

Program Committee Liaison:

Erica M. Carlisle, MD, University of Iowa Stead Family Children's Hospital, Iowa City, IA, USA

Moderator:

Baddr Shakhsher, MD, Comer Children's Hospital, University of Chicago, Chicago, IL, USA

Session Organizer:

Sindhu V. Mannava, MD, Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA

Speakers:

Erin E. Perrone, MD, University of Michigan, Ann Arbor, MI, USA

Wolfgang STEHR, MD, MBA, Presbyterian Health System, Bernalillo, NM, USA

Mary L. Brandt, MD, MDiv, Baylor College of Medicine, Houston, TX, USA

Mindy B. Statter, MD, MBE, Montefiore Medical Center, New York, NY, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Identify challenges in selected difficult case scenarios that pediatric surgeons may face including abortion access, immigration, gender affirming care, and structural racism.
- Explore strategies on how to show courage in the face of inequity including engaging in authentic discussion and navigating conflicting peer viewpoints.
- Identify a stepwise approach to combat moral distress.

Intraoperative Recurrent Laryngeal Nerve (RLN) Monitoring in Children: A Practical Approach to Implement RLN monitoring into Everyday Practice

Program Committee Liaison:

Jamie Robinson, MD, PhD, Vanderbilt University Medical Center, Brentwood, TN, USA

Speakers:

Benjamin Zendejas, MD, MSc, Boston Children's Hospital, Boston, MA, USA

Hester F. Shieh, MD, Johns Hopkins All Children's Hospital, Tampa, FL, USA

Shawn Izadi, MD, Boston Children's Hospital, Boston, MA, USA

Farokh R. Demehri, MD, Boston Children's Hospital, Boston, MA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Contrast the different options that exist for intraoperative nerve monitoring (IONM) and learn how to modify/adapt commercially available IONM technology to be able to perform IONM in children of all ages.

4:00pm - 4:45pm

NEW TECHNOLOGY COMMITTEE

ChatGPT for the Pediatric Surgeon: The Fundamental Skills

Program Committee Liaison:

Kim G. Wallenstein, MD, PhD, SUNY Upstate Medical University, Syracuse, NY USA

Speakers:

Anthony Tsai, MD, Penn State Milton Hershey Children's Hospital, Hershey, PA, USA

Seth D. Goldstein, MD, MPhil, Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

Stewart R. Carter, MD, University of Louisville / Norton Children's Hospital, Louisville, KY, USA

Daniel J. Robertson, MD, Children's Hospital of Illinois, OSF Healthcare, Dunlap, IL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Master Fundamental ChatGPT Skills for Medical Professionals: Acquire the ability to effectively interact with ChatGPT to enhance decision making, streamlining patient care, access up-to-date information, and improve efficiency.

4:00pm - 4:45pm

SOAPPS (Section on Affiliate Professionals in Pediatric Surgery)

Wounds That Make You Want to Weep: Stump the Experts with your Wound Care Challenges

Program Committee Liaison:

Ashley H. Ebanks, MSN, University of Texas Health Sciences Center at Houston, Houston, TX, USA

Moderator:

Ariella Adelman, MSN, RN, CPNP-PC, CWON, Cedars-Sinai Medical Center, Los Angeles, CA, USA

Session Organizer:

Sindhu V. Mannava, MD, Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA

Speakers:

Thian Nguyen, MSPAS, PA-C, McGovern Medical School at The University of Texas Health Science Center at Houston, Houston, TX, USA

Cindy McManaway, MSN, RN, FNP-BC, Nationwide Children's Hospital, Newark, OH, USA

Candy Fradette, MSN, FNP-C, RN, WCC, Phoenix Children's Hospital, Gilbert, AZ, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Comprehensive exploration of wound care practices. Share insights and techniques to provide optimal wound care to our pediatric patients.

4:00pm - 4:45pm

WORKFORCE COMMITTEE

Are we ready for Acute Care Pediatric Surgery?

Program Committee Liaison:

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA

Moderator:

Cynthia D. Downard, MD, MMSc, Hiram C. Polk, Jr, MD Department of Surgery, University of Louisville, Norton Children's Hospital, Louisville, KY, USA

Session Organizer:

Abigail E. Martin, MD MA FAAP, Kentucky Children's Hospital, University of Kentucky, Lexington, KY, USA

Speakers:

Brad Feltis, MD PhD, ETSU, Jonesborough, TN, USA

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

Steven L. Lee, MD, MBA, Seattle Children's Hospital and University of Washington School of Medicine, Seattle, WA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Explore the idea of training surgeons to care for children and adolescents with basic general pediatric surgical disease, similar to the idea of Acute Care Surgery in adult medicine.

Quickshot Session I - Clinical Pediatric Surgery

5:00pm - 5:45pm

Moderators:

Erica M. Carlisle, MD, University of Iowa Stead Family Children's Hospital, Iowa City, IA USA
Nicole J. Kus, MD, University of Maryland Medical Center, Baltimore, MD USA

Chat Room Monitor:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Learn how to improve care in pectus patients.
 - Understand how the method of a transumbilical appendectomy can decrease costs and climate impacts.
 - Recognize different quality improvement methods in the care of appendicitis.
-

APSA QS 1

Impact of Cumulative Opioid Exposure in the First Year of Life on Neurodevelopment Among High-Risk Infants

Olivia A. Keane, MD1, Shadassa Ourshalimian, MPH2, Cameron Kaplan, PhD2, Ashwini Lakshmanan, MD, MPH3, Susan Hintz, MD2, Henry Lee, MD2, Madeleine Ing, BA4, Eugene S. Kim, MD5, Nam X. Nguyen, MD6, Christine Mirzaian, MD2, Douglas Vanderbilt, MD2, Lorraine I. Kelley-Quon, MD, MSHS7

1Children's Healthcare of Atlanta, Los Angeles, CA, USA, 2Children's Hospital Los Angeles, Los Angeles, CA, USA, 3Kaiser Permanente, Los Angeles, CA, USA, 4University of Southern California School of Medicine, Los Angeles, CA, USA, 5Cedars-Sinai Medical Center, Los Angeles, CA, USA, 6Children's Hospital Los Angeles, 7Children's Hospital Los Angeles/University of Southern California, Los Angeles, CA, USA

APSA QS 2

Fertility Preservation Choices in Transgender and Nonbinary Adolescents and Young Adults

Kathryn L. McElhinney, MD1, Christopher McCauley, MD2, Raina V. Voss, MD3, Diane Chen, PhD4, Emilie K. Johnson, MD, MPH, FACS, FAAP5, Monica M. Laronda, PhD6, Erin E. Rowell, MD7

1Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago; Department of Surgery, Division of Pediatric Surgery, Northwestern University Feinberg School of Medicine, Chicago IL, USA, Chicago, IL, USA, 2Department of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, 3Potocsnak Family Division of Adolescent and Young Adult Medicine, Ann & Robert H. Lurie Children's Hospital of Chicago, Department of Pediatrics, Northwestern University Feinberg School of Medicine, Chicago, IL, USA, 4Potocsnak Family Division of Adolescent and Young Adult Medicine, Pritzker Department of Psychiatry and Behavioral Health, Ann & Robert H. Lurie Children's Hospital of Chicago; Department of Pediatrics, Department of Psychiatry and Behavioral Science Northwestern University Feinberg School of Medicine, Chicago, IL, USA, 5Division of Urology, Ann & Robert H. Lurie Children's Hospital of Chicago, Department of Urology, Northwestern University Feinberg School of Medicine, Chicago, IL, USA, 6Department of Pediatrics, Division of Endocrinology and Department of Surgery, Division of Pediatric Surgery, Feinberg School of Medicine, Northwestern University, Stanley Manne Children's Research Institute, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, 7Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

APSA QS 3

Surgical Treatment of Ovarian Torsion in Pediatric and Adolescent Patients: Does Education Change Practices

Emily Vore, MD1, Todd M. Jenkins, PhD, MPH1, Roshni Dasgupta, MD, MPH2

1Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, 2Cincinnati Children's Medical Center, Cincinnati, OH, USA

APSA QS 4

A Prospective Evaluation of a Non-Operative Treatment Bundle for Gastrocutaneous Fistulae in Children

Robert Baird, MSc, MDCM1, Amanda Phares, MD2, Christine Adamson2, Sherif Emil, MD, CM3, Nadia Safa, MD, CM4, Nelson Piché, MD, MSc5, Merieme Habti6

¹British Columbia Children's Hospital, University of British Columbia, Vancouver, BC, Canada, ²BC Children's Hospital / University of British Columbia, Vancouver, BC, Canada, ³The Montreal Children's Hospital, McGill University Health Centre, Montreal, PQ, Canada, ⁴McGill University Faculty of Medicine, Montreal, PQ, Canada, ⁵Hôpital Sainte-Justine, Montréal, PQ, Canada, ⁶Centre Hospitalier Universitaire Sainte-Justine, Montreal, PQ, Canada

APSA QS 5

Postoperative Outcomes in Trisomy 21 Infants Undergoing Esophageal Atresia Repair: A National Propensity Score Matching Study

Charbel Chidiac, MD¹, Daniel S. Rhee, MD, MPH¹, Shaun M. Kunisaki, MD, MSc²

¹The Johns Hopkins Hospital, Baltimore, MD, USA, ²Johns Hopkins Children's Center, Johns Hopkins School of Medicine, Baltimore, MD, USA

APSA QS 6

Intercostal Cryoablation in Minimally Invasive Repair of Pectus Excavatum: National Temporal Trends and Predictors of Utilization

Alyssa M. Green, MD¹, Gabriel J. Ramos Gonzalez, MD², JoAnn C. DeRosa³, Nicole M. Chandler, MD³, Christopher W. Snyder, MD³

¹Johns Hopkins All Children's Hospital, St Petersburg, FL, USA, ²Division of Pediatric Surgery, Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA, ³Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA

APSA QS

An Analysis of Early Patient-driven Return to Activity After Nuss Repair of Pectus Excavatum

Seth A. Saylor, MD, MS¹, Meredith Elman, MD², Pablo Aguayo, MD³, Jason D. Fraser, MD³, Charles L. Snyder, MD³, David Juang⁴, Tolu Oyetunji, MD, MPH³, Shawn D. St. Peter, MD³

¹Children's Mercy Hospital, Kansas City, MO, Overland Park, KS, USA, ²Children's Mercy Hospital, Kansas City, MO, Kansas City, MO, USA, ³Children's Mercy Kansas City, Kansas City, MO, USA, ⁴Children's Mercy Kansas City, Kansas City, MO, USA

APSA QS 8

Optimized Outcomes Following Surgical Correction of Pectus Excavatum Based on Medial Clavicle Epiphyseal Ossification and White Light Scanning

Michela Carter, MD¹, J. Benjamin Pitt, MD², Suhail Zeineddin, MD³, Alison Lehane, MD⁴, Amparo Perez, MA², Fizan Abdullah, MD, PhD⁵, Brian C. Gulack, MD, MHS⁶, Seth D. Goldstein, MD, MPhil²

¹Ann & Robert H. Lurie Children's Hospital of Chicago, Hartford, CT, USA, ²Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ³Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁴Northwestern University Feinberg School of Medicine, Ann & Robert H. Lurie Children's Hospital, Chicago, IL, USA, ⁵Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁶Rush University Medical Center, Chicago, IL, USA

APSA QS 9

Delayed Cholecystectomy for Complicated Biliary Disease in the Pediatric Sickle Cell Population Is Safe

Michele Young, Master of Medical Sciences, Bachelor of Science¹, Margaret Kennedy, MD², Tamarah J. Westmoreland, MD, PhD³, Adela Casas-Melley¹, Teerin Meckmongkol, MD/PhD⁴

¹Nemours Children's Health Florida, Orlando, FL, USA, ²University of Central Florida College of Medicine, Atlanta, GA, USA, ³Nemours Children's Hospital, Orlando, FL, USA, ⁴Nemours Children's Health Florida, Windermere, FL, USA

APSA QS 10

Prevalence and Predictors of Gallbladder Disease in Pediatric Intestinal Failure

Emily Nes, MD¹, Priyanka V. Chugh, MD, MS², Gregory Keefe, MD³, Steven J. Staffa, MS¹, Pamela N. Scalise, MD¹, Donna C. Koo, MD⁴, Gillian R. Goddard, MD¹, Katherine Culbreath, MD¹, Julia Arsenault⁵, Hajar Fennich, BSc⁶, Christopher Duggan, MD MPH⁷, Biren P. Modi, MD, MPH⁸, Tom Jaksic, MD, PhD¹

¹Boston Children's Hospital, Boston, MA, USA, ²Boston Children's Hospital, Boston, MA, USA, ³Boston Children's Hospital, Department of Surgery and Center for Advanced Intestinal Rehabilitation, Boston, MA, USA, ⁴Northwell Health – NS/LIJ, Jamaica Plain, MA, USA, ⁵Bowdoin College, Boston, MA, USA, ⁶VU School of Medical Sciences, Noord-Holland, Netherlands, ⁷Center for Advanced Intestinal Rehabilitation and Department of Gastroenterology, Hepatology and Nutrition, Boston Children's Hospital and Harvard Medical School, Boston, MA, USA, ⁸Boston Children's Hospital and Harvard Medical School, Boston, MA, USA

APSA QS 11

Specialized Tissue Processing Methods for Prepubertal Ovaries Following Oophorectomy for Fertility Preservation

Christopher McCauley, MD¹, Elizabeth Tsui², Kathryn L. McElhinney, MD³, Tara R. Kennedy⁴, Erin E. Rowell, MD⁵, Monica M. Laronda, PhD⁶

¹Department of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ²Department of Pediatrics, Feinberg School of Medicine, Northwestern University, Chicago, IL, USA, ³Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago; Department of Surgery, Division of Pediatric Surgery, Northwestern University Feinberg School of Medicine, Chicago IL, USA, Chicago, IL, USA, ⁴Division of Pediatric Surgery, Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, Chicago, IL, USA, ⁵Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ⁶Department of Pediatrics, Division of Endocrinology and Department of Surgery, Division of Pediatric Surgery, Feinberg School of Medicine, Northwestern University, Stanley Manne Children's Research Institute, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

APSA QS 12

Oral Delivery of CNP-miR146a Reduces TNF in a Murine Model of Inflammatory Bowel Disease

Anisha Apte, MD¹, Pujarini Dutta Dey, PhD², Monica Midura-Kiela, MSc², Stacy Skopp, MSc¹, Pawel Kiela, DVM, PhD², Fayez Ghishan, MD², Carlos Zgheib, PhD, MSc¹, Kenneth W. Liechty, MD³

¹Laboratory for Fetal and Regenerative Biology, Department of Surgery, University of Arizona Tucson College of Medicine, Banner Children's at Diamond Children's Medical Center, Tucson, AZ, USA, ²Steele Memorial Children's Research Center, University of Arizona College of Medicine, Department of Pediatrics, Tucson, AZ, USA, ³University of Arizona Tucson College of Medicine, Tucson, AZ, USA

APSA QS 13

Association of Necrotizing Enterocolitis and Ventriculoperitoneal Shunt Failure in Neonates: A Nationwide Analysis

Carlos T. Huerta, MD¹, Joshua Parreco, MD², Chad M. Thorson, MD, MSPH³, Juan E. Sola, MD⁴, Toba Niazi, MD⁵, Eduardo A. Perez, MD⁴

¹University of Miami Department of Surgery, Miami, FL, USA, ²Memorial Regional Hospital, Miami, FL, USA, ³DeWitt Daughtry Family Department of Surgery, Division of Pediatric Surgery, University of Miami Miller School of Medicine, Miami, FL, USA, ⁴DeWitt Daughtry Family Department of Surgery, Division of Pediatric Surgery, University of Miami Miller School of Medicine, USA, ⁵University of Miami Department of Neurological Surgery, Miami, FL, USA

APSA QS 14

Comparison of Climate Impact, Clinical Outcome, and Cost-efficiency of Pediatric Trans-umbilical Laparoscopic Assisted Appendectomy versus Standard 3-port Laparoscopic Appendectomy

Colleen M. Fitzpatrick, MD, MPA¹, Christoph Meinrenken, PhD², William B. Eimicke, PhD³

¹Northwell Health Cohen Children's Medical Center, NEW HYDE PARK, NY, USA, ²Columbia University School of Professional Studies, New York, NY, USA, ³Columbia University School of International and Public Affairs, New York, NY, USA

Quickshot Session II - Basic Science and History

5:00pm - 5:45pm

Moderators:

Stefan Scholz, MD, UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA USA
Pamela M. Choi, MD, Naval Medical Center San Diego, San Diego, CA USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand important historical aspects of pediatric surgery.
- Learn how synthetic grafts can be used in short bowel syndrome.
- Understand new strategies for quantifying liver fibrosis.
- Know how different irrigation solutions impact outcomes in appendicitis.

APSA QS 15

To Cut or Not to Cut: History of Nonoperative Management of the Appendix in Pediatric Surgery Procedures

Sophia Schermerhorn, MPH MD1, Joseph Lee, MD1, Utsav M. Patwardhan, MD2, Gerald Gollin, MD3, Timothy J. Fairbanks2, Hari Thangarajah, MD2, Pamela M. Choi, MD1, Romeo C. Ignacio, MD2

¹Naval Medical Center San Diego, San Diego, CA, USA, ²Rady Children's Hospital San Diego, San Diego, CA, USA, ³University of California San Diego, San Diego, CA, USA

APSA QS 16

Patching the Hole in the History of Congenital Diaphragmatic Hernia

Nicole Cimbak, MD, Farokh R. Demehri, MD

Boston Children's Hospital, Boston, MA, USA

APSA QS 17

Short Bowel, Long History: The History of Bowel Lengthening Surgery

Alyssa Joachim, MD1, Simone Hyman, MD2, Utsav M. Patwardhan, MD3, Karen M. Kling, M.D.3, Timothy J. Fairbanks3, Benjamin Keller, MD3, Romeo C. Ignacio, MD3

¹University of California - San Diego, San Diego, CA, USA, ²UCSD, San Diego, CA, USA, ³Rady Children's Hospital San Diego, San Diego, CA, USA

APSA QS 18

Tracing the Timeline: A Historical Perspective of the Treatment of Intussusception

Simone Hyman, MD1, Stephen W. Bickler2, Karen M. Kling, M.D.2

¹UCSD, San Diego, CA, USA, ²Rady Children's Hospital San Diego, San Diego, CA, USA

APSA QS 19

Unearthing Historical Milestones: Pioneers and Contributions to Necrotizing Enterocolitis

Joseph Lee, MD1, Sophia Schermerhorn, MPH MD1, Utsav M. Patwardhan, MD2, Simone Hyman, MD3, Karen M. Kling, M.D.2, Stephen W. Bickler2, Donald J. Lucas, MD, MPH1, Pamela M. Choi, MD1, Romeo C. Ignacio, MD2

¹Naval Medical Center San Diego, San Diego, CA, USA, ²Rady Children's Hospital San Diego, San Diego, CA, USA, ³UCSD, San Diego, CA, USA

APSA QS 20

Surgical Management of Gastroschisis: Then and Now

Cody Dalton, MD1, Katherine B. Snyder, MD2, Grant H. Gershner, MD1, Catherine J. Hunter, MD1

¹The University of Oklahoma, Oklahoma City, OK, USA, ²University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA

APSA QS 21

Utilization of Va And Vv Ecmo in Pediatric Surgery Through History

Katherine B. Snyder, MD1, Cody Dalton, MD2, Grant H. Gershner, MD2, Catherine J. Hunter, MD2

¹University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA, ²The University of Oklahoma, Oklahoma City, OK, USA

APSA QS 22

From Womb to World: Tracing the Evolution of Fetal Surgery

Shawn Izadi, MD, Alireza Shamshirsaz, MD, Terry L. Buchmiller, MD, Benjamin Zendejas, MD, MSc
Boston Children's Hospital, Boston, MA, USA

APSA QS 23

Chemical Pancreatectomy Increases Beta-cell Volume and Islet Vasculature

Alexander M. Kreger, MD1, Ranjeet S. Kalsi, BS, DO2, Shiho Yoshida, MD1, Mohamed Saleh, MD1, George Gittes, MD1
¹Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ²UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA

APSA QS 24

Evaluation of Irrigation Solutions on Intra-abdominal Abscess and Adhesion Formation in a Perforated Appendicitis Murine Model

Derek Krinock, MD1, Krista Stephenson, MD1, David Irby², Lindsey L. Wolf, MD, MPH³, Chary Akmyradov, PhD³, Marie Burdine, PhD⁴, Melanie Barker, MSc⁵, Zachary J. Waldrip, PhD⁶, Melvin S. Dassinger, MD³, Deidre Wyrick, MD⁷
¹University of Arkansas for Medical Sciences, Little Rock, AR, USA, ²Arkansas Children's Hospital Department of Pediatric Surgery, Little Rock, AR, USA, ³Arkansas Children's Hospital, Little Rock, AR, USA, ⁴University of Arkansas for Medical Sciences, Little Rock, AR, USA, ⁵University of Arkansas for Medical Sciences, Geneva, NE, USA, ⁶Arkansas Children's Research Institute, Little Rock, AR, USA, ⁷Arkansas Children's Hospital/University of Arkansas for Medical Sciences, Little Rock, AR, USA

APSA QS 25

The Enteric Glial Cells That Persist in Hirschsprung Disease Are Minimally Neurogenic

Jessica Mueller, MD, Rhian Stavely, PhD, Christopher Han, BS, Abigail Leavitt, BS, Richard A. Guyer, MD, PhD, Ryo Hotta, MD, PhD, Allan M. Goldstein, MD
Massachusetts General Hospital, Boston, MA, USA

APSA QS 26

Automated Quantification of Liver Fibrosis at Diagnosis in Biliary Atresia Patients Using a Collagen Matrix Ultrastructure Analysis

Norah E. Liang, MD1, Jason L. Guo, PhD², Michelle Griffin, MD, PhD², Jennifer B. Parker², Gillian Fell, Khristian Bower-Rowe, Benjamin Pham², Amrita Narang, MD³, James C.Y. Dunn, MD, PhD⁴, Serena Y. Tan, MD², Jeong S. Hyun, MD⁵, Michael Longaker⁶
¹Massachusetts General Hospital, Palo Alto, CA, USA, ²Stanford University, Stanford, CA, USA, ³Stanford University, Palo Alto, CA, USA, ⁴Stanford University School of Medicine, Stanford, CA, USA, ⁵Stanford University, Stanford, CA, USA, ⁶Hagey Laboratory for Pediatric Regenerative Medicine, Stanford University School of Medicine, Stanford, CA, USA

APSA QS 21

Utilization of Va And Vv Ecmo in Pediatric Surgery Through History

Katherine B. Snyder, MD1, Cody Dalton, MD2, Grant H. Gershner, MD2, Catherine J. Hunter, MD2
¹University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA, ²The University of Oklahoma, Oklahoma City, OK, USA

APSA QS 28

Development of a Synthetic Intestinal Graft with Mechanically Driven Peristalsis for the Treatment of Short Bowel Syndrome

Cody Tragesser, MD1, Daniel J. Scheese, MD, MBS², Mariana Smith, B.Eng³, Adam May, BS³, Carla M. Lopez, MD⁴, Maame Sampah, MD, PhD⁵, Axel Krieger, PhD³, Chhinder Sodhi, PhD¹, David Hackam, MD, PhD¹
¹Johns Hopkins University School of Medicine, Department of Pediatric Surgery, Baltimore, MD, USA, ²Division of Pediatric Surgery, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, USA, Baltimore, MD, USA, ³Johns Hopkins University, Department of Mechanical Engineering, Baltimore, MD, USA, ⁴Johns Hopkins University School of Medicine, Baltimore, MD, USA, ⁵Johns Hopkins School of Medicine, Baltimore, MD, USA

Quickshot Session III - Trauma and Neonatal

5:00pm - 5:45pm

Program Committee Liaison:

Jason S. Frischer, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Moderators:

Pavan Brahmamdam, MD, MS, Corewell Children's, OUWB School of Medicine, Royal Oak, MI USA

Marisa E. Schwab, MD, Stanford University, Palo Alto, CA USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Recognize the role of CRRT in ECLS cases.
- Understand various infectious sources in ECLS.
- Learn how to distinguish SIP and NEC by clinical factors.
- Know how social determinants of health can impact various trauma outcomes such as after firearm injuries or bicycle injuries.

APSA QS 29

Long Term Clinical Outcomes for Patients with Small Intestinal Hirschsprung Disease

Haley B. Etskovitz, DO, MBS1, Priyanka V. Chugh, MD, MS2, Emily Nes, MD3, Hajar Fennich, BSc4, Mian Arsam Haroon, MBBS3, Leah Froehle, MPH3, Belinda H. Dickie, MD, PhD3, Biren P. Modi, MD, MPH5, Prathima Nandivada, MD3, Tom Jaksic, MD, PhD3

¹Boston Children's Hospital, Boston, MA, Boston, MA, USA, ²Boston Children's Hospital, Boston, MA, USA, ³Boston Children's Hospital, Boston, MA, USA, ⁴VU School of Medical Sciences, Noord-Holland, Netherlands, ⁵Boston Children's Hospital and Harvard Medical School, Boston, MA, USA

APSA QS 30

Use of Endoscopic Retrograde Cholangiopancreatography in the Diagnosis and Management of Pediatric Pancreatic Injury

R Scott Eldredge, MD1, David M. Notrica, MD1, Mittun Patel2, Brielle Ochoa, MD3, Mark McOmber, MD3

¹Phoenix Children's Hospital, Phoenix, AZ, USA, ²Phoenix Children, Phoenix, AZ, USA, ³Phoenix Children's, Phoenix, AZ, USA

APSA QS 31

Staged vs Non-staged Pelvic Osteotomies in the Modern Treatment of Cloacal Exstrophy: Bridging the Gap

Ahmad Haffar, MD1, Alexander M. Hirsch, MD, MS2, Chad Crigger3, Victoria Maxon1, Nora M. Haney, MD/ MBA3, Isam Nasr, MD4, Paul Sponseller5, John P. Gearhart2

¹Johns Hopkins/ Brady Urological Institute, Baltimore, MD, USA, ²Johns Hopkins School of Medicine, Baltimore, MD, USA, ³James Buchanan Brady Urological Institutions, Johns Hopkins Hospital, Johns Hopkins Medical Institutions, Charlotte Bloomberg Children's Hospital, Baltimore, MD, USA, Baltimore, MD, USA, ⁴The Johns Hopkins Hospital, Baltimore, MD, USA, ⁵Johns Hopkins Medical Institutes, Baltimore, MD, USA

APSA QS 32

A Frostbite Treatment Guideline for Pediatric Patients

Jennifer M. Schuh, MD1, Emmanuel L. Abebrese, MD2, Zach Morrison, MD3, Jose H. Salazar, MD, PhD1

¹Children's Wisconsin, Milwaukee, WI, USA, ²Children's Wisconsin, Wauwatosa, WI, USA, ³St. Jude Children's Research Hospital, Memphis, TN, USA

APSA QS 33

National Practice Patterns of Same-day Discharge for Pediatric Laparoscopic Cholecystectomy Utilizing NSQIP Pediatric Registries

John M. Woodward, MD1, Stephanie F. Brierley, MD2, Hector Osei, MD3, Krystle Bittner, MPH4, Keihan Mostafavi, MD5, Phillip B. Ham, MD, MS6

¹University at Buffalo General Surgery, Sudbury, MA, USA, ²University at Buffalo, Buffalo, NY, USA, ³Pediatric Surgery / John R. Oshei Children's Hospital, Buffalo, NY, USA, ⁴Department of Surgery, State University of New York at Buffalo, BUFFALO, NY, USA, ⁵Department of Surgery, John R. Oshei Children's Hospital, University at Buffalo, Vaughan, ON, Canada, ⁶John R. Oshei Children's Hospital, Division of Pediatric Surgery, University at Buffalo, Buffalo, NY, USA

APSA QS 34

Neighborhood-based Social Determinants of Health Are Associated with Decreased Helmet Use in Young Children

Caroline Stephens, MD MPH¹, Alexandra Highet, MD², Ava Yap, MD, MHS³, Christopher R. Newton, MD⁴, Willieford Moses, MD^{2,3,5} *UCSF Center of Health Equity in Surgery and Anesthesia, San Francisco, CA, USA, 2University of California - San Francisco, San Francisco, CA, USA, 3Department of Surgery, University of California San Francisco, San Francisco, CA, San Francisco, CA, USA, 4UCSF Benioff Children's Hospital Oakland, Oakland, CA, USA*

APSA QS 35

Utility of Renal Replacement Therapy in Infants with Congenital Diaphragmatic Hernia Treated with Extracorporeal Life Support

Daniel B. Gehle, MD¹, Nicolle Burgwardt, MD², Pilar Anton-Martin, MD PhD³, Hitesh S. Sandhu, MD², Yigit Guner, MD, MS⁴, Tim Jancelewicz, MD, MA, MS⁵

¹University of Tennessee Health Sciences Center, Memphis, TN, USA, 2University of Tennessee Health Science Center, Memphis, TN, USA, 3Children's Hospital of Philadelphia, Philadelphia, PA, USA, 4Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, 5Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN, USA

APSA QS 36

Outcomes of a Hybrid Model for Repair of Infants with Congenital Diaphragmatic Hernia Requiring Extracorporeal Life Support

Nikhil R. Shah, MD¹, Dimitra Lotakis, MD², Keerthi Burgi, BS³, Meghan A. Arnold, MD², Ronald B. Hirschl, MD², Samir K. Gadepalli, MSc, MD, MBA², George B. Mychaliska, MD⁴, Erin E. Perrone, MD²

¹University of Michigan / CS Mott Children's Hospital, Galveston, TX, USA, 2University of Michigan, Ann Arbor, MI, USA, 3University of Michigan Medical School, Ann Arbor, MI, USA, 4Section of Pediatric Surgery, Fetal Diagnosis and Treatment Center, University of Michigan Health System, Ann Arbor, MI, USA

APSA QS 37

Prenatal Diagnosis in the Extrophy-epispadias Complex: Spectrum of Success

Daniel B. Gehle, MD¹, Nicolle Burgwardt, MD², Pilar Anton-Martin, MD PhD³, Hitesh S. Sandhu, MD², Yigit Guner, MD, MS⁴, Tim Jancelewicz, MD, MA, MS⁵

¹Johns Hopkins School of Medicine, Baltimore, MD, USA, 2Johns Hopkins/ Brady Urological Institute, Baltimore, MD, USA, 3Johns Hopkins University, Baltimore, MD, USA, 4James Buchanan Brady Urological Institutions, Johns Hopkins Hospital, Johns Hopkins Medical Institutions, Charlotte Bloomberg Children's Hospital, Baltimore, MD, USA, Baltimore, MD, USA, 5The Johns Hopkins Medical Institutions, Baltimore, MD, USA, Baltimore, MD, USA

APSA QS 38

Maternal Consumption of High Fat Diet Impairs Susceptibility to Neonatal Sepsis and Impairs Intestinal Goblet Cell Differentiation in Utero

Koichi Tsuboi, MD, PhD¹, Maame Sampah, MD, PhD², Johannes Duess, MD, PhD³, Daniel J. Scheese, MD, MBS¹, Zachariah Raouf, MD⁴, Cody Tragesser, MD⁴, Mahmoud El Baassiri, MD⁵, Daphne Klerk, BS⁴, Sierra Williams-McLeod, BS⁴, Hannah Moore³, Hee-Seong Jang, PhD¹, Menghan Wang⁶, Sanxia Wang³, William B. Fulton³, Chhinder Sodhi, PhD⁴, David Hackam, MD, PhD⁴

¹Division of Pediatric Surgery, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD, USA, Baltimore, MD, USA, 2Johns Hopkins School of Medicine, Baltimore, MD, USA, 3Johns Hopkins University School of Medicine, Baltimore, MD, USA, 4Johns Hopkins University School of Medicine, Department of Pediatric Surgery, Baltimore, MD, USA, 5Division of Pediatric Surgery, The Johns Hopkins Medical Institutions, Baltimore, MD, USA, Baltimore, MD, USA, 6Johns Hopkins University, Baltimore, MD, USA

APSA QS 39

Intestinal Fatty Acid Binding Protein and Lipopolysaccharide Binding Protein as Dual Biomarkers to Define Disease Severity in Necrotizing Enterocolitis

Sophia G. Hameedi, MD¹, Rahul Gadde, MD MRCS(Eng)¹, Jason Xia, M.D.¹, Angela Saulsbery, M.A.¹, Lourenço Sbragia Neto, M.D., Ph.D.¹, Amadeo Zanotti, M.D.², Oluyinka Olutoye, MD, PhD³

¹Center for Regenerative Medicine/Nationwide Children's Hospital, Columbus, OH, USA, 2La Costa Medical Center, Asunción, Asuncion, Paraguay, 3Nationwide Children's Hospital; The Ohio State University, Columbus, OH, USA

APSA QS 40

Impact of Infectious Source on Pediatric ECMO Outcomes in Sepsis

Tiffany Zens, MD1, Brian Lara2, Brielle Ochoa, MD3, Melinda Gregory4, Mark S. Molitor, MD4

¹Phoenix Children's Hospital, Ann Arbor, MI, USA, ²University of Michigan, Ann Arbor, MI, USA, ³Phoenix Children's, Phoenix, AZ, USA, ⁴Phoenix Children's Hospital, Phoenix, AZ, USA

APSA QS 41

Hyperinflammatory State Seen in Active Necrotizing Enterocolitis Remains Even Post Recovery

Katherine B. Snyder, MD1, Chase Calkins, BS2, Cody Dalton, MD2, Grant H. Gershner, MD2, Camille Schlegel1, Catherine J. Hunter, MD2

¹University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA, ²The University of Oklahoma, Oklahoma City, OK, USA

APSA QS 42

Clinical Predictors of Spontaneous Intestinal Perforation vs Necrotizing Enterocolitis in Extremely and Very Low Birth Weight Neonates

Goeto Dantes, MD1, Olivia A. Keane, MD2, Louis Do, BS3, Savanah Rumbika4, Nathaniel Ellis, BS5, Valerie Dutreuil, MPH6, Zhulin He7, Amina M. Bhatia, MD, MS8

¹Emory/Childrens Healthcare of Atlanta, Chamblee, GA, USA, ²Children's Healthcare of Atlanta, Los Angeles, CA, USA, ³Emory University School of Medicine, Suwanee, GA, USA, ⁴Emory University School of Medicine, Atlanta, GA, USA, ⁵Childrens Healthcare of Atlanta, Atlanta, GA, USA, ⁶Pediatric Biostatistics Core, Department of Pediatrics, Emory University, Atlanta, GA, USA, ⁷Emory University, Atlanta, GA, USA, ⁸Children's Healthcare of Atlanta, Atlanta, GA, USA

APSA QS 43

Investigating the Optimal Timing for Resection of Congenital Pulmonary Airway Malformations, a NSQIP Study

Ahmed S. Samra, PhD1, Chris B. Agala2, Amy Marzinsky, BSN3, Adesola Akinkuotu, MD, MPH4, Michael R. Phillips, MD5, Sean E. McLean, MD5

¹The University of North Carolina at Chapel Hill, Raleigh, NC, USA, ²UNC Chapel Hill School of Medicine Surgery Dept., Chapel Hill, NC, NC, USA, ³University of North Carolina- Chapel Hill, Chapel Hill, NC, USA, ⁴University of North Carolina-Chapel Hill, Chapel Hill, NC, USA, ⁵University of North Carolina at Chapel Hill, Chapel Hill, NC, USA

Case Roundups

6:00pm - 6:30pm

Speakers:

Katie W. Russell, MD, Primary Children's Hospital, Salt Lake City, UT, USA
 Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA
 Carroll (Mac) M. Harmon, MD PhD, John R. Oshei Children's Hospital, Buffalo, NY, US

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Review hot topics of the day and provide different viewpoints from audience members on controversial topics.

6:30pm - 8:00pm

JPS Reception - by invitation

Desert Suite 6

6:30pm - 8:00pm

Student/Resident/Fellow Reception

Wildflower Terrace

SATURDAY, MAY 18

General Sessions

1:00am - 11:00am	Quiet Room	<i>Desert Suite 7</i>
6:00am - 7:30am	Continental Breakfast	<i>Exhibit Hall - Grand Saguaro Foyer</i>
6:00am - 6:00pm	Lactation Room	<i>Desert Suite 7</i>
6:00am - 6:00pm	Registration Desk Hours	<i>East Registration Desk</i>
6:00am - 6:00pm	Speaker Ready Room	<i>Desert Suite 5</i>
6:30am - 7:30am	Committee Meetings	
8:00am - 10:00am	Companion Hospitality Suite	<i>Twenty 6 Lounge</i>

TEC Talk 3

7:30am - 7:45am

Fluid Overload: is Crystalloid the Devil? (yes)

Introducer:

Pramod S. Puligandla, MD, MSc, Montreal Children's Hospital, Montreal, PQ, Canada

Chat Room Moderator:

Chinwendu Onwubiko, MD, PhD, Children's of Alabama, University of Alabama at Birmingham, Birmingham, AL USA

Speaker:

Adam M. Vogel, MD, Texas Children's Hospital, Houston, TX, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Define postoperative fluid overload, describe its deleterious effects on surgical outcomes, and advocate for optimal fluid management strategies in perioperative patients.

Systematic Review Tool Kit

7:45am - 8:15am

Interval Appendectomy

Chat Room Moderator:

Chinwendu Onwubiko, MD, PhD, Children's of Alabama, University of Alabama at Birmingham, Birmingham, AL, USA

Speakers:

Daniel G. Solomon, MD, Yale School of Medicine, Department of Pediatric Surgery, New Haven, CT, USA
Mark Kashtan, MD, MPH, Loma Linda University Children's Hospital, Loma Linda, CA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Describe optimal timing and patient selection criteria for interval appendectomy.
- Identify metrics that can be used for quality improvement of an interval appendectomy pathway.
- Locate APSA quality and safety toolkit resources available for quality improvement efforts focused on interval appendectomy.

TEC Talk 4

8:15am - 8:30am

Testicular Torsion: Time is Tissue

Introducer:

Brian Arrinza Coakley, MD, FACS, FAAP, Dipl ABOM, The Mount Sinai Health System, New York, NY, USA

Chat Room Moderator:

Chinwendu Onwubiko, MD, PhD, Children's of Alabama, University of Alabama at Birmingham, Birmingham, AL, USA

Speaker:

Benjamin Abelson, MD, Phoenix Children's, Phoenix, AZ, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Identify process changes that can allow hospitals to more efficiently diagnose and manage patients with testicular torsion.
- Recognize the importance of patient education and early presentation to the hospital for acute scrotal pain.

Members' Address

8:30am - 9:30am

The Authenticity of the Hand

Chat Room Moderator:

Chinwendu Onwubiko, MD, PhD, Children's of Alabama, University of Alabama at Birmingham, Birmingham, AL, USA

Speaker:

David Powell, MD, APSA President
Stanford University, Breckenridge, CO, USA

Introduction:

Wolfgang Stehr, MD, MBA, Presbyterian Health System, Bernalillo, NM, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand that being authentic is not enough.
- Be able to demonstrate curiosity when teaching learners and leading groups.
- Recognize the value of a community of practice.

9:30am - 10:00am

Refreshment Break

Exhibit Hall - Grand Saguaro Foyer

Presidential Symposium: AI Applications in Medical Education

10:00am - 11:00am

Chat Room Moderator:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Introduction:

Eunice Huang, MD, MS
Department of Pediatric Surgery, Vanderbilt University Medical Center, Monroe Carell Jr. Children's Hospital, Nashville, TN, USA

Intro to AI:

Jamie Robinson, MD, PhD
Vanderbilt University Medical Center, Brentwood, TN, USA

Generative AI in Medical Education:

Michael A. Gisondi, MD
Stanford University, Palo Alto, CA, USA

AI for Lifelong Surgical Learning:

Gretchen Purcell Jackson, MD PhD
Intuitive Surgical / Vanderbilt University Medical Center, Nashville, TN, USA

JEDI and AI in Education:

Sonoo T. Israni, MBA
Stanford University School of Medicine, PRESENCE Center, Stanford, CA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Define artificial intelligence, generative AI, and describe a few useful functionalities that generative AI affords the medical community.
- Discuss some uses of generative AI in undergraduate medical education.
- Understand how generative AI is currently being used for surgical education.
- Be cognizant of how to maintain justice, equity, diversity, and inclusion as we use generative AI for education.

Scientific Session VII - Trauma

11:15am - 12:30am

Program Committee Liaison:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Moderators:

Kim G. Wallenstein, MD, PhD, SUNY Upstate Medical University, Syracuse, NY USA

Michael Dingeldein, MD, Rainbow Babies & Children's Hospital, Cleveland, OH USA

Chat Room Moderator:

Suhail Zeineddin, MD, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the outcomes difference between intracranial pressure monitoring with or without ventriculostomy.
 - Describe the workup and management of blunt pediatric trauma patients with pneumomediastinum.
 - Understand the importance of tourniquet application as a lifesaving intervention to control hemorrhage.
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APSA 108

Enhancing Pediatric Traumatic Brain Injury Outcomes: Evaluating the Benefits of Ventriculostomy Compared to Intracranial Pressure Monitoring Alone

Utsav M. Patwardhan, MD¹, Richard Y. Calvo, PhD, MPH², Laurinda Jackson, MD MPH², Casey Erwin, MD², Benjamin Havko, DO², Andrea Krzyzaniak, MA², Michael Sise, MD², Vishal Bansal, MD², Benjamin Keller, MD¹, Vijay Ravindra, MD¹, Hari Thangarajah, MD¹, Romeo C. Ignacio, MD¹

¹Rady Children's Hospital San Diego, San Diego, CA, USA, ²Scripps Mercy Hospital, San Diego, CA, USA

APSA 109

A Statewide Retrospective Analysis of Rural versus Urban Pediatric Trauma Recidivism

Matthew D. Price, MD MPH¹, Katherine M. McDermott, MD², Charbel Chidiac, MD², Paul Phan, BS³, Mark B. Slidell, MD MPH⁴, Isam Nasr, MD²

¹The Johns Hopkins University School of Medicine, Department of Surgery, Baltimore, MD, USA, ²The Johns Hopkins Hospital, Baltimore, MD, USA, ³The Johns Hopkins School of Medicine, Baltimore, MD, USA, ⁴The Johns Hopkins Children's Hospital, Baltimore, MD, USA

APSA 110

Variable Impact of the APSA Solid Organ Injury Guidelines: Declining Splenectomy Rates in Pediatric Centers Countered by Rising Splenectomy Rates in Adult Trauma Centers and Injured Adolescents

Charbel Chidiac, MD¹, Mahmoud El Baassiri, MD², Matthew D. Price, MD MPH³, Daniel S. Rhee, MD, MPH¹, Shaun M. Kunisaki, MD, MSc⁴, Isam Nasr, MD¹, Mark B. Slidell, MD MPH⁵

¹The Johns Hopkins Hospital, Baltimore, MD, USA, ²Division of Pediatric Surgery, The Johns Hopkins Medical Institutions, Baltimore, MD, USA, Baltimore, MD, USA, ³The Johns Hopkins University School of Medicine, Department of Surgery, Baltimore, MD, USA, ⁴Johns Hopkins Children's Center, Johns Hopkins School of Medicine, Baltimore, MD, USA, ⁵The Johns Hopkins Children's Hospital, Baltimore, MD, USA

APSA 111

High Volume, Pediatric Trauma Centers are Associated with Improved Mortality in Severe Pediatric TBI

Andreina Giron, MD¹, John Schomberg, PhD, MPH¹, Amy Lawrence, MD², Laura F. Goodman, MD, MPH³, Peter T. Yu, MD, MPH³, Yigit Guner, MD, MS⁴, Alice M. Martino, MD⁵, Danh Nguyen, PhD⁶, Jeffry Nahmias, MD MPH⁷, Brian Hanak, MD⁸, Joffre Olaya, MD⁹

¹Children's Hospital of Orange County, Orange, CA, USA, ²Children's Hospital of Orange County, Orange, CA 92868, CA, USA, ³Children's Hospital of Orange County and University of California - Irvine, Orange, CA, USA, ⁴Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, ⁵Department of Surgery, University of California Irvine Medical Center, Orange, CA, USA, ⁶University of California Irvine, ⁷University of California Irvine, Orange, CA, USA, ⁸Children's Hospital Orange County, ⁹Children's Hospital of Orange County

APSA 112

Workup and Management of Pneumomediastinum in Isolated Blunt Pediatric Trauma

Heather Hartman, MD¹, Danielle Dougherty², Mary E. Fallat, MD³, Kyle Van Arendonk, MD PhD⁴, Dave R. Lal, MD⁵, Peter C. Minneci, MD, MHSc⁶, Stewart R. Carter, MD⁷, Beth A. Rymeski, DO⁸, Yujin Park, MD, MS⁹, John P. Marquart, MD¹⁰, Matthew P. Landman, MD¹¹, Tiffany N. Wright, MD³, Seth D. Goldstein, MD, MPhil¹², Ronald B. Hirschl, MD¹³, Jason D. Fraser, MD¹⁴, Troy Markel, MD¹⁵, K. Elizabeth Speck, MD, MS¹³

¹Institute for Firearm Injury Prevention & Department of Surgery, University of Michigan, Ann Arbor, MI, USA, ²Connecticut Children's Hospital, West Hartford, CT, USA, ³Division of Pediatric Surgery, Hiram C. Polk, Jr., M.D. Department of Surgery, University of Louisville, Louisville, KY, USA, ⁴Nationwide Children's Hospital, Columbus, OH, USA, ⁵Children's Wisconsin, Milwaukee, WI, USA, ⁶Nemours Children's Hospital Delaware Valley, Wilmington, DE, USA, ⁷University of Louisville / Norton Children's Hospital, Louisville, KY, USA, ⁸Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, ⁹Indiana University School of Medicine, Indianapolis, IN, USA, ¹⁰Children's Wisconsin, Milwaukee, WI, USA, ¹¹Division of Pediatric Surgery, Department of Surgery, Indiana University School of Medicine, Indianapolis, IN, USA, ¹²Division of Pediatric Surgery, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ¹³University of Michigan, Ann Arbor, MI, USA, ¹⁴Children's Mercy Kansas City, Kansas City, MO, USA, ¹⁵Riley Hospital for Children at IU Health, Indiana University School of Medicine, Indianapolis, IN, USA

APSA 113

Does Time to Operating Room Affect Outcomes After Pediatric Blunt Hollow Viscus Injury? A TQIP Analysis

William R. Johnston, MD¹, Allison Mak, MD¹, Rosa Hwang, BS¹, Gary Nace, MD, FACS, FAAP², Michael Nance, MD¹

¹Children's Hospital of Philadelphia, Philadelphia, PA, USA, ²Children's Hospital of Philadelphia, Philadelphia, PA, USA

APSA 114

Low Risk of Clinically Important Traumatic Brain Injury in Children Who Tumble Downstairs

Donna C. Koo, MD¹, Jennifer Xie, MD², Mitchell R. Price, MD³, Samuel Z. Soffer, MD⁴, Lawrence Bodenstein, MD⁵

¹Northwell Health – NS/LIJ, Jamaica Plain, MA, USA, ²Northwell Health – NS/LIJ, Queens, NY, USA, ³Northwell Health – Staten Island University Hospital, New York, NY, USA, ⁴Cohen Children's Medical Center at Hofstra/Northwell, New Hyde Park, NY, USA, ⁵Northwell Health – SIUH, CCMC, New Hyde Park, NY, USA

APSA 115

Unnecessary Scans Lead to Unnecessary Re-scans: An Analysis of 464 Children with Mild Head Injury in a Tertiary Referral System

Rachel Rivero, MD¹, Isabelle L. Curran, MD¹, Madeleine Carroll, MD¹, Zane Hellmann, MD², Daniel G. Solomon, MD³, Emily R. Christison-Lagay, MD³

¹Yale New Haven Health, Department of Surgery, New Haven, CT, USA, ²Yale School of Medicine, New Haven, CT, USA, ³Yale School of Medicine, Department of Pediatric Surgery, New Haven, CT, USA

APSA 116

Pre-hospital Tourniquet Usage in Adolescent and Pediatric Traumatic Hemorrhage: A National Study

Andreina Giron, MD¹, John Schomberg, PhD, MPH¹, Sigrid Burruss², Thomas K. Duncan, DO³, Sara Edwards, MD⁴, Makenzie Ferguson⁵, Jeffry Nahmias, MD MHPE⁶, Yigit Guner, MD, MS⁷, Laura F. Goodman, MD, MPH⁸, **Alice M. Martino, MD**⁹

¹Children's Hospital of Orange County, Orange, CA, USA, ²Loma Linda University, Loma Linda, CA, USA, ³Ventura County Medical Center, Ventura, CA, USA, ⁴Riverside University Health, San Diego, CA, USA, ⁵Children's Hospital of California, Orange, CA, USA, ⁶University of California Irvine, Orange, CA, USA, ⁷Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, ⁸Children's Hospital of Orange County and University of California - Irvine, Orange, CA, USA, ⁹Department of Surgery, University of California Irvine Medical Center, Orange, CA, USA

Scientific Session VIII - CDH/ECMO

11:15am - 12:30pm

Program Committee Liaison:

Jason S. Frischer, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Moderators:

Tim Jancelewicz, MD, MA, MS, Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN USA

Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand how the diagnosis of congenital heart disease affects the outcomes of patients with congenital diaphragmatic hernia.
- Describe the long-term outcomes in congenital diaphragmatic patients that underwent muscle flap repair while on ECMO.
- Describe the mediastinal shift index and how it is a better predictor of survival compared to observed to expected lung heart ratio.

APSA 99

Impact of a Congenital Heart Disease Diagnosis on Congenital Diaphragmatic Hernia Outcomes

Kylie I. Holden, MD MS¹, Ashley H. Ebanks, MSN², Rebecca Stark³, Yigit Guner, MD, MS⁴, Terry L. Buchmiller, MD⁵, Tim Jancelewicz, MD, MA, MS⁶, Amir M. Khan, MD⁷, Anthony Johnson, MD⁸, Kevin P. Lally, MD, MS⁹, Damien J. LaPar, MD⁷, Matthew T. Harting, MD, MS, FAAP, FACS⁹

¹McGovern Medical School, University of Texas, Houston, Houston, TX, USA, ²University of Texas Health Sciences Center at Houston, Houston, TX, USA, ³Seattle Children's Hospital, ⁴Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, ⁵Boston Children's Hospital, Boston, MA, USA, ⁶Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN, USA, ⁷McGovern Medical School at the University of Texas Health Science Center Houston, Houston, TX, USA, ⁸McGovern Medical School at UTHealth, ⁹McGovern Medical School at UTHealth, Houston, TX, USA

APSA 100

Impact of a Center's Total Neonatal Extracorporeal Life Support Volume on Mortality and Its Relationship with Congenital Diaphragmatic Hernia

Yigit Guner, MD, MS¹, Danh Nguyen, PhD², Matthew T. Harting, MD, MS, FAAP, FACS³, Tim Jancelewicz, MD, MA, MS⁴, Matteo Di Nardo, MD⁵, John Schomberg, PhD, MPH⁶, Andreina Giron, MD⁶, Amy Lawrence, MD⁷, Laura F. Goodman, MD, MPH⁸, Peter T. Yu, MD, MPH⁸

¹Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, ²University of California Irvine, ³McGovern Medical School at UTHealth, Houston, TX, USA, ⁴Le Bonheur Children's Hospital, University of Tennessee Health Science Center, Memphis, TN, USA, ⁵Pediatric Intensive Care Unit, Bambino Gesù Children's Hospital, Rome, Lazio, Italy, ⁶Children's Hospital of Orange County, Orange, CA, USA, ⁷Children's Hospital of Orange County, Orange, CA 92868, CA, USA, ⁸Children's Hospital of Orange County and University of California - Irvine, Orange, CA, USA

APSA 101

Clinical Care Trajectory Assessment of Children with Congenital Diaphragmatic Hernia and Neurodevelopmental Impairment

Alexandra Dimmer, MD, MSc¹, Gabriel Altit, MD¹, Sabrina Beauseigle, RN, BScn¹, Louise Koclas, MD¹, Katryn Paquette, MD¹, Ana Sant'Ana, MD¹, Adam Shapiro, MD¹, Dan Poenaru, MD, Ph.D², Pramod S. Puligandla, MD, MSc³

¹The Montreal Children's Hospital - McGill University Health Centre, Montreal, PQ, Canada, ²Harvey E. Beardmore Division of Pediatric Surgery, Montreal Children's Hospital, Montreal, PQ, Canada, ³Montreal Children's Hospital, Montreal, PQ, Canada

APSA 102

Long-term Outcomes Following On-ECMO Muscle Flap Repair for Congenital Diaphragmatic Hernia

Alyssa E. Vaughn, MD¹, Bailey D. Lyttle, MD², Caroline Credille, MSN, PNP-AC³, Amanda E. Louiselle, MD⁴, John Kinsella, MD³, Jason Gien, MD³, S Christopher Derderian, MD¹, Kenneth W. Liechty, MD⁵

¹Children's Hospital Colorado, Denver, CO, USA, ²University of Colorado, Aurora, CO, USA, ³Children's Hospital Colorado, Aurora, CO, USA, ⁴Laboratory for Fetal and Regenerative Biology/Department of Surgery/University of Colorado Denver School of Medicine and Children's Hospital Colorado, Aurora, CO, USA, ⁵University of Arizona Tucson College of Medicine, Tucson, AZ, USA

APSA 103

A Porcine Model to Evaluate Cerebrovascular Autoregulation During Pumpless Arterio-venous ECMO and Venous-arterial ECMO Support

Alicia L. Eubanks, MD MS¹, Tiffany Ko, PhD², Jeffrey Dicker, MS³, Rachel Conan³, Gabriela Daszewska, MS³, Mia Kwechin³, Samantha A. Tilden³, Rodrigo Forti, PhD², Wesley Baker, PhD², Todd Kilbaugh, MD³, Emily Partridge, MD, PhD³

¹University of Virginia, Charlottesville, VA, USA, ²University of Pennsylvania, Philadelphia, PA, USA, ³Children's Hospital of Philadelphia, Philadelphia, PA, USA

APSA 104

Mediastinal Shift Index: Validation of a Postnatal Measurement of Mediastinal Movement That Predicts Survival in Neonates with Congenital Diaphragmatic Hernia on Extracorporeal Membrane Oxygenation

Nicole Cimbak, MD, M Alejandra Bedoya, MD, Steven J. Staffa, MS, John Priest, BSRT, RRT-NPS, Belinda H. Dickie, MD, PhD, Jill Zalieckas, MD, Farokh R. Demehri, MD

Boston Children's Hospital, Boston, MA, USA

APSA 105

Yes-associated Protein Pathway Signaling in a Novel Ex Vivo Fetal Lung Model of Congenital Diaphragmatic Hernia

Anne Sescleifer, MD¹, Annalise Penikis², Kyra Halbert-Elliott, BS³, Shelby Sferra, MD, MPH², Juan C. Biancotti, PhD¹, Shaun M. Kunisaki, MD, MSc⁴

¹Johns Hopkins University, Baltimore, MD, USA, ²Johns Hopkins University School of Medicine, Baltimore, MD, USA, ³Johns Hopkins Hospital, Baltimore, MD, USA, ⁴Johns Hopkins Children's Center, Johns Hopkins School of Medicine, Baltimore, MD, USA

APSA 106

Procedural Burden Experienced by Infants Who Died in Neonatal Intensive Care Units

Kristine S. Corkum, MD¹, S Christopher Derderian, MD², Caroline Credille, MSN, PNP-AC³, Alexa Robbins, MD⁴, Jonathan L. Hills-Dunlap, MD, MPH³, Jonathan Roach, MD²

¹Surgical Oncology Program - Children's Hospital Colorado, Department of Surgery - University of Colorado School of Medicine, Aurora, CO, USA, ²Children's Hospital Colorado, Denver, CO, USA, ³Children's Hospital Colorado, Aurora, CO, USA, ⁴Children's Hospital of Colorado, Aurora, CO, USA

APSA 107

Moving from "What" to "Why": Devising a Purpose-based Framework to Discuss Surgical Intervention in Seriously Ill Children

Danielle I. Ellis, MD, MTS¹, Li Chen, MS², Madeline Avery, MPH³, Samara Gordon-Wexler, BS³, Tommy Kim, BS¹, Amy Kaplan, BS¹, Emanuele Mazzola, PhD², Cassandra M. Kelleher, MD⁴, Joanne Wolfe, MD, MPH⁵

¹Department of Surgery, Massachusetts General Hospital, Boston, MA, USA, ²Dana Farber Cancer Institute, Boston, MA, USA, ³Pediatric Palliative Care Research, Massachusetts General Hospital, Boston, MA, USA, ⁴MassGeneral Hospital for Children, Boston, MA, USA, ⁵Massachusetts General Hospital for Children, Boston, MA, USA

Scientific Session IX - Practice and Innovation

11:15am - 12:30pm

Moderators:

Melissa E. Danko, MD, Children's Healthcare of Atlanta/Emory University, Atlanta, GA USA
Stewart R. Carter, MD, University of Louisville / Norton Children's Hospital, Louisville, KY USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand how mechanical force delivered during epithelial regeneration affects intestinal stem cell renewal and differentiation.
- Describe the clinical application for a novel device used in neonatal esophageal stricture.
- Understand the impact of Locums Tenens on the delivery of pediatric surgical care.

APSA 90

Intestinal Stem Cell Renewal and Differentiation in Response to Mechanical Force During Epithelial Regeneration

Siavash Shariatzadeh, MD, MPH, MBA¹, Martin Martin², James C.Y. Dunn, MD, PhD³

¹Stanford, Palo Alto, CA, USA, ²UCLA, Los Angeles, CA, USA, ³Stanford University School of Medicine, Stanford, CA, USA

APSA 91

Tapering Membrane Reduction Tracheobronchoplasty for Wide Posterior Membrane in Tracheobronchomalacia

Charles J. Smithers, MD¹, Hester F. Shieh, MD², Shawn Izadi, MD³, Farokh R. Demehri, MD³, Somala Mohammed, MD, Rusty Jennings, MD³, Philippe Monnier, MD⁴, Benjamin Zendejas, MD, MSc³

¹Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA, ²Johns Hopkins All Children's Hospital, Tampa, FL, USA, ³Boston Children's Hospital, Boston, MA, USA, ⁴Lausanne University Hospital, St. Petersburg, FL, USA

APSA 92

In Vitro and In Vivo Testing of a Novel 4-in-1 Device Used in a Pre-clinical Model of Neonatal Esophageal Stricture

Elizabeth J. Hughes, MD¹, Joanne Walker, MS², Heather Wanczyk, MS³, Liisa Kuhn, PhD⁴, Christine Finck, MD⁵

¹University of Connecticut School of Medicine/ Connecticut Children's Medical Center, Bloomfield, CT, USA, ²University of Connecticut Health Center, Burlington, CT, USA, ³University of Connecticut School of Medicine, Farmington, CT, USA, ⁴University of Connecticut Health Center, Department of Biomedical Engineering, Farmington, CT, USA, ⁵Connecticut Children's, Hartford, CT, USA

APSA 93

Internal Prototype Verification of a Novel Endoscopic Treatment for Short Bowel Syndrome

Matthew W. Ralls, MD¹, Jonathan Luntz, PhD², Jeffrey Plott, PhD³, Marie Cornell⁴, Thomas Marten⁴, Diann Brei, PhD⁴

¹Nationwide Children's, Dexter Michigan, MI, USA, ²University of Michigan, Ann Arbor, Michigan, MI, USA, ³University of Michigan, Ann Arbor, MI, USA, ⁴University of Michigan, Ann Arbor, MI, USA

APSA 94

Telemedicine Practice Patterns and Limitations for Pediatric Surgeons Post-pandemic: What Have We Learned?

Rachel E. Hanke, MD¹, Thomas O. Xu, MD², Jennifer Leslie Knod, MD³, Stefan Scholz, MD⁴, Afif N. Kulaylat, MD, MSc⁵, Cornelia Griggs, MD⁶, Jennifer DeFazio, MD⁷, Yesenia Suarez, MD⁸, Shaun M. Kunisaki, MD, MSc⁹, Mark B. Slidell, MD MPH¹⁰, Hanna Alemayehu, MD¹¹, Matthew T. Santore, MD¹², Myron Allukian, MD¹³, Bo Lovvorn, III, Doctor of Medicine¹⁴, Melissa E. Danko, MD¹⁵, Nicole M. Chandler, MD¹⁶, Aaron M. Lipskar, MD¹⁷, Sean E. McLean, MD¹⁸, Matthew A. Hornick, MD¹⁹, Shawn J. Rangel, MD, MSCE²⁰, Robert T. Russell, MD, MPH²¹, Elisabeth (Lisa) Tracy, MD²², Robin T

¹Children's National Hospital, Alexandria, VA, USA, ²Children's National Hospital, Washington, DC, USA, ³Connecticut Children's Medical Center, Hartford, CT, USA, ⁴UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ⁵Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA, USA, ⁶Massachusetts General Brigham, Harvard Medical School, Boston, MA, USA, ⁷New York Presbyterian Morgan Stanley Children's Hospital, Columbia University Vagelos College of Physicians and Surgeons, New York, NY, USA, ⁸Columbia University Irving Medical Center, New York, NY, USA, ⁹Johns Hopkins Children's Center, Johns Hopkins School of Medicine, Baltimore, MD, USA, ¹⁰The Johns Hopkins Children's Hospital, Baltimore, MD, USA, ¹¹Emory University School of Medicine, Atlanta, GA, USA, ¹²Emory University, Atlanta, GA, USA, ¹³Children's Hospital of Philadelphia, Philadelphia, PA, USA, ¹⁴Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN, USA, ¹⁵Children's Healthcare of Atlanta/Emory University, Atlanta, GA, USA, ¹⁶Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA, ¹⁷Zucker School of Medicine at Hofstra/Northwell, Cohen Children's Medical Center at Northwell Health, New Hyde Park, NY, USA, ¹⁸University of North Carolina at Chapel Hill, Chapel Hill, NC, USA, ¹⁹Yale School of Medicine, New Haven, CT, USA, ²⁰Boston Children's Hospital, Boston, MA, USA, ²¹University of Alabama at Birmingham and Children's of Alabama, Birmingham, AL, USA, ²²Duke University Medical Center, Durham, NC, USA, ²³University of Michigan, Ann Arbor, MI, USA, ²⁴Connecticut Children's, Hartford, CT, USA

APSA 95

NIH Funding for the Pediatric Surgeon-Scientist: An Analysis of Current Trends

Colton D. Wayne, MD¹, Zachary Dumbauld, BS², Ethan Mills, BS³, Diana Farmer, MD⁴, Gail E. Besner, MD⁵

¹Nationwide Children's Hospital; Baylor University Medical Center, Columbus, OH, USA, ²Nationwide Children's Hospital, Ohio State University, Columbus, OH, Columbus, OH, USA, ³The Ohio State University College of Medicine, ⁴UC Davis, Carmichael, CA, USA, ⁵Nationwide Children's Hospital, Columbus, OH, USA

APSA 96

Impact of Locum Tenens Providers on Delivery of Pediatric Surgical Care

Lindsey L. Wolf, MD, MPH¹, Jason C. Fisher, MD², David E. Skarda³, Scott S. Short, MD⁴, Romeo C. Ignacio, Jr., MD⁵, Hau D. Le, MD⁶, Kyle Van Arendonk, MD PhD⁷, Kenneth Gow, MD, MHA⁸, Richard D. Glick, MD⁹, Yigit Guner, MD, MS¹⁰, Hira Ahmad, MD¹¹, Melissa E. Danko, MD¹², Cynthia D. Downard, MD, MMSc¹³, Mehul V. Raval¹⁴, Daniel J. Robertson, MD¹⁵, Richard G. Weiss, MD¹⁶, Barrie S. Rich, MD⁹

¹Arkansas Children's Hospital, Little Rock, AR, USA, ²Hassenfeld Children's Hospital at NYU Langone, New York, NY, USA, ³University of Utah, Salt Lake City, UT, USA, ⁴Primary Children's Hospital / University of Utah, Salt Lake City, UT, USA, ⁵Rady Children's Hospital San Diego, University of California San Diego School of Medicine, San Diego, CA, USA, ⁶University of Wisconsin School of Medicine and Public Health, Madison, WI, USA, ⁷Nationwide Children's Hospital, Columbus, OH, USA, ⁸Stony Brook University, Stony Brook, NY, USA, ⁹Cohen Children's Medical Center, New Hyde Park, NY, USA, ¹⁰Children's Hospital of Orange County and University of California Irvine, Orange, CA, USA, ¹¹Seattle Children's Hospital, Seattle, WA, USA, ¹²Children's Healthcare of Atlanta/Emory University, Atlanta, GA, USA, ¹³Hiram C. Polk, Jr, MD Department of Surgery, University of Louisville, Norton Children's Hospital, Louisville, KY, USA, ¹⁴Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA, ¹⁵Children's Hospital of Illinois, OSF Healthcare, Dunlap, IL, USA, ¹⁶Connecticut Children's Medical Center, Hartford, CT, USA

APSA 97

Impact of the FDA Pediatric Device Consortia Program: A 15-year Single Program Experience

Thomas A. Sorrentino, MD¹, Caressa Chen, MD², Tejas S. Sathe, MD¹, Vinith Johnson, BS¹, Usha Thekkedath, MD¹, James Wall, MD³, Shuvo Roy, PhD¹, Michael Harrison⁴, Hanmin Lee, MD¹

¹University of California, San Francisco, San Francisco, CA, USA, ²Loyola University Chicago, Maywood, IL, USA, ³Stanford University, Stanford, CA, USA, ⁴UCSF

12:30pm - 2:00pm Lunch

Exhibit Hall - Grand Saguaro Foyer

Benjy Luncheon and Program

12:30pm - 2:00pm

Moderators:

Melissa E. Danko, MD, Children's Healthcare of Atlanta/Emory University, Atlanta, GA USA
Stewart R. Carter, MD, University of Louisville / Norton Children's Hospital, Louisville, KY USA

Scientific Session X - Global and Disparities

2:00pm - 3:15pm

Program Committee Liaison:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Moderators:

Sanjay Krishnaswami, MD, Doernbecher Childrens Hospital. Helen B Tracy Professor of Surgery and Pediatrics Oregon Health and Science University, Portland, OR USA
Adi Fahy, MD PhD, Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA USA

Chat Room Monitor:

Kathryn L. McElhinney, MD, Ann & Robert H. Lurie Children's Hospital of Chicago; Department of Surgery, Division of Pediatric Surgery, Northwestern University Feinberg School of Medicine, Chicago IL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Describe the neighborhood disadvantage and its association with decreased healthcare access in pediatric patients with appendicitis.
- Understand that the child opportunity index influences post-operative resource utilization following surgical treatment of refractory GERD.
- Understand that neighborhood opportunity level affects pediatric trauma mortality.

APSA 64

Developing a Low-cost Neonatal Gastric Suction Device for Low-resource Settings

Mary Seifu Tirfie¹, Pavithr Goli¹, Ajay Kumar¹, Summer Shabana¹, Anna Saucedo¹, Anna Tutuianu¹, Jamine Nejad, PhD², Sabia Abidi¹, Angeilca Floren, MD³, Bindi Naik-Mathuria, MD, MPH⁴

¹Rice University, Houston, TX, USA, ²Rice University, Rice 360 Program, Houston, TX, USA, ³Dominican Foundation for Mothers and Infants (DOFMI), Miami, FL, USA, ⁴UTMB Galveston, John and Jennie Sealy Hospital, HOUSTON, TX, USA

APSA 65

Standardization of Clinical Care in Sub-Saharan Africa; A Case for Hypospadias Surgery

Mehret Desalegn Enaro, MD, MCS¹, John-Kennedy Muma Nyagetuba^{2,3}

¹AIC Kijabe Hospital, Bethany kids, Kijabe, Central, Kenya, ²A.I.C Kijabe Hospital/BethanyKids

APSA 66

Addressing the Problem of Pediatric Central-line Associated Blood Stream Infections at a Rural Referral Hospital in a Low-middle Income Country

Muse Frenh Anito, Medical doctor¹, Britney Grayson², Alexander Mina³, Moses Odhiambo⁴

¹Bethany kids Kijabe hospital, Nairobi, Nairobi Area, Kenya, ²Indiana university, Indianapolis, IN, USA, ³Vanderbilt university hospital, Nashville, TN, USA, ⁴Kijabe mission hospital, Nairobi, Nairobi Area, Kenya

APSA 67

Outcomes of Ambulatory Pediatric Surgical Care Provision in Kakuma Refugee Camp During a Measles Outbreak

Neema Kaseje, MD, MPH¹, Ida Randa², Khalid Hassan³, Brendan Etenya², Janet Ouko⁴, Patrick Ogoti⁵, Kefa Ojwando Otieno² ¹Surgical Systems Research Group, Kisumu, Nyanza, Kenya, ²IRC Hospital Kakuma Refugee Camp, Kakuma, Rift Valley, Kenya, ³Turkana Ministry of Health, Lodwar, Rift Valley, Kenya, ⁴SSRG, Kisumu, Nyanza, Kenya, ⁵UNHCR, Kakuma, Rift Valley, Kenya

¹UCSF Center of Health Equity in Surgery and Anesthesia, San Francisco, CA, USA, ²University of California San Francisco, San Francisco, CA, USA, ³Seattle Children's Hospital, Seattle, WA, USA, ⁴Department of Surgery, University of California San Francisco, San Francisco, CA, San Francisco, CA, USA, ⁵University of Rochester | Golisano Children's Hospital, Rochester, NY, USA, ⁶University of California – San Francisco, San Francisco, CA, USA, ⁷University of Rochester, Rochester, NY, USA, ⁸Nemours Children's Hospital-Delaware, Wilmington, DE, USA, ⁹Emory University/Children's Healthcare of Atlanta, Atlanta, GA, USA, ¹⁰University of California - Davis, Sacramento, CA, USA, ¹¹McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA, ¹²Washington University, St. Louis Children's Hospital, St. Louis, MO, USA

APSA 69

Pediatric Trauma Mortality Differs by Neighborhood Opportunity Level

MaKayla L. O'Guinn, DO¹, Anna Ginther², Shadassa Ourshalimian, MPH², Ryan Spurrier, MD², Pradip Chaudhari, MD²

¹Children's Hospital Los Angeles, North Hollywood, CA, USA, ²Children's Hospital Los Angeles, Los Angeles, CA, USA

APSA 70

The Child Opportunity Index in Gastroesophageal Reflux Disease Management: Analysis of Socioeconomic Status in Anti-reflux Surgical Procedures

Tania Gennell, MD¹, Peter Calvaresi², Chunhui Wang, MD MPH³, Paul Kurlansky⁴, Myron Allukian, MD⁵, Shaun M. Kunisaki, MD, MSc⁶, Cornelia Griggs, MD⁷, Jennifer Leslie Knod, MD⁸, Alya Barq, MD⁹, Mary Camacho¹⁰, Ashley Carducci¹¹, Goeto Dantes, MD¹², Isabel DeLaura¹³, Alicia C. Greene, DO¹⁴, Kyra Halbert-Elliott, BS¹⁵, Katherine He, MD, MS¹⁶, Rosa Hwang, BS⁵, Samantha M. Koenig, MD¹⁷, Afif N. Kulaylat, MD, MSc¹⁸, Robin T. Petroze, MD, MPH¹⁹, Shawn J. Rangel, MD, MSCE¹⁶, Robert T. Russell, MD, MPH²⁰, Matthew T. Santore, MD²¹, Elisabeth (Lisa) Tracy, MD¹³, Jennifer DeFazio, MD²²

¹NYU Langone Health - Long Island, New York, NY, USA, ²Columbia University Vagelos College of Physicians and Surgeons, New York, NY, USA, ³Columbia University, Closter, NJ, USA, ⁴Columbia University, New York, NY, USA, ⁵Children's Hospital of Philadelphia, Philadelphia, PA, USA, ⁶Johns Hopkins Children's Center, Johns Hopkins School of Medicine, Baltimore, MD, USA, ⁷Massachusetts General Brigham, Harvard Medical School, Boston, MA, USA, ⁸Connecticut Children's Medical Center, Hartford, CT, USA, ⁹University of Florida, Gainesville, FL, USA, ¹⁰Emory, Atlanta, GA, USA, ¹¹Connecticut Children's Hospital, Hartford, CT, USA, ¹²Emory/Children's Healthcare of Atlanta, Chamblee, GA, USA, ¹³Duke University Medical Center, Durham, NC, USA, ¹⁴Penn State Hershey Medical Center, Harrisburg, PA, USA, ¹⁵Johns Hopkins Hospital, Baltimore, MD, USA, ¹⁶Boston Children's Hospital, Boston, MA, USA, ¹⁷Children's of Alabama, Birmingham, AL, USA, ¹⁸Division of Pediatric Surgery, Penn State Children's Hospital, Hershey, PA, USA, ¹⁹University of Michigan, Ann Arbor, MI, USA, ²⁰University of Alabama at Birmingham and Children's of Alabama, Birmingham, AL, USA, ²¹Emory University, Atlanta, GA, USA, ²²New York Presbyterian Morgan Stanley Children's Hospital, Columbia University Vagelos College of Physicians and Surgeons, New York, NY, USA

APSA 71

Patient Factors Associated with Access to Outpatient Pediatric General Surgical Care in a Rural State

Derek Krinock, MD¹, Esmā Birisci, PhD², Deidre Wyrick, MD³, Robert Maxson, MD⁴, Melvin S. Dassinger, MD⁵, Lindsey L. Wolf, MD, MPH⁵

¹University of Arkansas for Medical Sciences, Little Rock, AR, USA, ²Bursa Uludag University, Bursa, Bursa, Turkey, ³Arkansas Children's Hospital/University of Arkansas for Medical Sciences, Little Rock, AR, USA, ⁴Arkansas Children's Hospital, Arkansas Children's Hospital, Little Rock, AR, USA

APSA 71 B

Racial and Ethnic Disparities in Pediatric Firearm Deaths Persist in 2022

Rafael A. Klein-Cloud, MD¹, Bailey Roberts, MD², Emma Cornell, MPH³, Colleen P. Nofi, DO, MBA, MSc⁴, Chethan Sathya, MD MSc⁵

¹Cohen Children's Medical Center, Northwell Health, Queens, NY, USA, ²Cohen Children's Medical Center at Hofstra/Northwell, Long Island City, NY, USA, ³Northwell Health, Center for Gun Violence Prevention, New Hyde Park, NY, USA, ⁴Cohen Children's Medical Center at Northwell Health, Manhasset, NY, USA, ⁵Cohen Children's Medical Center at Hofstra Northwell, Roslyn, NY, USA

Scientific Session XI - Colorectal

2:00pm - 3:15pm

Program Committee Liaison:

Jason S. Frischer, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

Moderators:

Irene Isabel P. Lim-Beutel, MD, MPH, Children's Mercy Hospital Kansas City, Kansas City, MO USA

Cristine S. Velazco, MD, MS, Arnold Palmer Hospital for Children, Orlando Health, Orlando, FL USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Describe the difference between 2 stage and 3 stage colectomy and pouch creation and the outcome differences associated with each technique.
- Understand the timing of Botox injection during initial pullthrough for Hirschsprung disease and how it affects rates of enterocolitis.
- Understand the economic impact associated with different daily bowel management regimens.

APSA 72

2-Stage versus 3-Stage Colectomy and Pouch Creation for Ulcerative Colitis in Children: A Propensity Score Matched Analysis of NSQIP-Pediatric Outcomes

Humza Thobani, MBBS¹, **Helene Nepomuceno, MD²**, Saleem Islam, MBBS, MPH³, Faraz Ali Khan, MD⁴

¹Aga Khan University, Karachi, Sindh, Pakistan, ²Stanford University, Palo Alto, CA, USA, ³The Aga Khan University, Karachi, Sindh, Pakistan, ⁴Stanford Center for Academic Medicine, Palo Alto, CA, USA

APSA 73

Ganglionic Intestine in Hirschsprung's Disease Is Stiff and Fibrotic

Chioma Moneme, MD, MBA¹, Britney Hsu², Saad Malik³, Ana Maria Zaska⁴, Hui Li, PhD⁵, Swathi Balaji, PhD⁵, Sundeep G. Keswani, MD⁶, Lily Cheng⁷

¹University of Virginia, CHARLOTTESVILLE, VA, USA, ²Texan Children's Hospital, Houston, TX, USA, ³Baylor College of Medicine, Houston, TX, USA, ⁴University of Texas Health Sciences Center, Houston, TX, USA, ⁵Baylor College of Medicine/Texas Children's Hospital, Houston, TX, USA, ⁶Baylor College of Medicine and Texas Children's Hospital, Bellaire, TX, USA, ⁷University of Virginia, Charlottesville, VA, USA

APSA 74

Risk Factors for Recurrence of Crohn's Disease after Ileocecal Resection and Management Strategies

William R. Johnston, MD¹, Rosa Hwang, BS¹, Valerie L. Luks², Peter Mattei, MD¹

¹Children's Hospital of Philadelphia, Philadelphia, PA, USA, ²University of Pennsylvania Health System, Philadelphia, PA, USA

APSA 75

Expression of Epithelial Tight Junction Proteins and Leukotriene B4 Receptor 2 in Normoganglionic Hirschsprung Disease Colon. Implications for Post Pull-through Enterocolitis

Kumpei abe, n/a¹, Masahiro Takeda, mstakeda@juntendo.ac.jp², Soichi Shibuya³, Takanori Ochi, MD, PhD⁴, Rumi Arii³, Yuta Yazaki⁵, Go Miyano, MD⁶, Hiroyuki Koga, M.D., Ph.D.⁴, Masahiko Urao⁷, Tadaharu Okazaki⁸, Geoffrey J. Lane, M.D., Ph.D.⁴, Atsuyuki Yamataka, MD PhD⁹, **Kazuto Suda, MD**, PhD⁴

¹Department of Pediatric General and Urogenital Surgery, Juntendo University School of Medicine, Koshigaya-shi, Saitama, Japan, ²Department of Pediatric General & Urogenital Surgery, Juntendo University School of Medicine, Tokyo, Japan, ³Department of Pediatric General and Urogenital Surgery, Juntendo University School of Medicine, Bunkyo-ku, Tokyo, Japan, ⁴Department of Pediatric General and Urogenital Surgery, Juntendo University School of Medicine, Tokyo, Tokyo, Japan, ⁵Hospital for Sick Children, University of Toronto, Toronto, ON, Canada, ⁶Juntendo University School of Medicine, Bunkyo-ku, Tokyo, Japan, ⁷Department of Pediatric Surgery, Juntendo University Nerima Hospital, Nerima-ku, Tokyo, Japan, ⁸Department of Pediatric Surgery, Juntendo University Urayasu Hospital, Urayasu-shi, Chiba, Japan, ⁹Department of Pediatric General and Urogenital Surgery, Juntendo University School of Medicine, Tokyo, Japan

APSA 76

A Review of the Economic Impact of Daily Bowel Management Regimens

Vatche J. Melkonian, DO¹, Luis de La Torre, MD², Jill Ketzer³, Victor Rodriguez¹, Hannah Martin¹, Lauren Schneider¹, Anne Merritt¹, Alberto Pena¹, Andrea Bischoff, MD², Maura Wickham⁴

¹Childrens Colorado / International Center for Colorectal and Urogenital Care, Aurora, CO, USA, ²International Center for Colorectal and Urogenital Care, Children's Hospital Colorado, Aurora, CO, USA, ³Childrens Colorado / International Center for Colorectal and Urogenital Care, aurora, CO, USA, ⁴Childrens Colorado / International Center for Colorectal and Urogenital Care

APSA 77

Upfront Botox Injections and Their Impact on Hirschsprung-associated Enterocolitis Incidences

Ellen M. Encisco, MD¹, Irene Isabel P. Lim-Beutel, MD, MPH², Cristine S. Velazco, MD, MS³, Nelson Rosen, MD⁴, Aaron P. Garrison, MD⁴, Beth A. Rymeski, DO⁴, Jason S. Frischer, MD⁴

¹Mayo Clinic, Rochester, MN, USA, ²Children's Mercy Hospital Kansas City, Kansas City, MO, USA, ³Arnold Palmer Hospital for Children, Orlando Health, Orlando, FL, USA, ⁴Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

APSA 78

Histopathological Findings After Transanal Proximal Rectosigmoid Resection for Severe Chronic Idiopathic Constipation in Children with Mega-Rectosigmoid

Lea A. Wehrli, MD¹, Stefan Scholz, MD², Cláudia Salgado, MD³, Luis de La Torre, MD⁴

¹WVU Children's Hospital, Morgantown, WV, USA, ²UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ³Division of Pediatric Pathology / UPMC Children's Hospital of Pittsburgh, Pittsburgh, PA, USA, ⁴International Center for Colorectal and Urogenital Care, Children's Hospital Colorado, Aurora, CO, USA

APSA 79

Urological Outcomes in Adult Females Born with Anorectal Malformation or Hirschsprung Disease

Lea A. Wehrli, MD¹, Elisha McGuire, APP, MSN, RN, CPNP-AC², Emily H. Cooper, Jared M. Rieck, Kelly Harris, MD³, Dan Wood, MBBS, PhD⁴, Duncan T. Wilcox, MD⁴, Jill Ketzer⁵, Luis de La Torre, MD⁶, Alberto Peña, MD³, Andrea Bischoff, MD⁶

¹WVU Children's Hospital, Morgantown, WV, USA, ²International Center for Colorectal and Urogenital Care, Children's Hospital Colorado, Aurora, CO, USA, ³International Center for Colorectal and Urogenital Care, Aurora, CO, USA, ⁴Children's Hospital Colorado, Aurora, CO, USA, ⁵Childrens Colorado / International Center for Colorectal and Urogenital Care, aurora, CO, USA, ⁶International Center for Colorectal and Urogenital Care, Children's Hospital Colorado, Aurora, CO, USA

APSA 80

Decisions in Diversion: Ostomy vs. Primary Anastomosis for Colonic Atresia

Utsav M. Patwardhan, MD¹, Dylan Griffiths, MD², Gerald Gollin, MD³

¹Rady Children's Hospital San Diego, San Diego, CA, USA, ²Naval Medical Center San Diego, San Diego, CA, USA, ³University of California San Diego, San Diego, CA, USA

Scientific Session XII - Education

2:00pm - 3:15pm

Moderators:

Pamela M. Choi, MD, Naval Medical Center San Diego, San Diego, CA USA
Benjamin Zendejas, MD, MSc, Boston Children's Hospital, Boston, MA USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Describe the use of virtual reality in the training for pediatric trauma.
- Describe the impact of pediatric ambulatory surgical centers on general surgery resident education.
- Describe the impact of longitudinal coaching on well-being and burnout in pediatric surgery trainees.

APSA 81

Validation of an Anorectal Malformation Trainer - Can a High-fidelity Model Simulate Real Life?

Claire A. Ostertag-Hill, MD¹, Prathima Nandivada, MD¹, Aaron P. Garrison, MD², Richard J. Wood, MD³, Michael G. Silver¹, Gregory Loan¹, Stephen F. Wilson¹, Belinda H. Dickie, MD, PhD¹

¹*Boston Children's Hospital, Boston, MA, USA, 2Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA, 3Center for Colorectal and Pelvic Reconstruction, Columbus, OH, USA*

APSA 82

Improving Diversity, Equity, and Inclusion in Pediatric Surgery: An Innovative Mentorship Program

Amelia E. Gavulic, BS¹, Insiyah Campwala, MD², Natalie Moreno, MD³, Grace M. Mallampalli, BSN⁴, Yousef Ibrahim, MD⁵, Anthony Stallion, MD⁶, Sabina Siddiqui, MD⁷, Marjorie J. Arca, MD⁸, Samir K. Gadepalli, MSc, MD, MBA⁵, Erika A. Newman, MD⁹

¹*University of Cincinnati College of Medicine, Cincinnati, OH, USA, 2University of Pittsburgh, Pittsburgh, PA, USA, 3University of Pennsylvania, Philadelphia, PA, USA, 4The Ohio State University, Columbus, OH, USA, 5University of Michigan, Ann Arbor, MI, USA, 6Beaumont Children's Hospital, Royal Oak, MI, USA, 7Arkansas Children's Hospital, Springdale, AR, USA, 8University of Rochester | Golisano Children's Hospital, Rochester, NY, USA, 9C. S Mott Children's Hospital, University of Michigan, Ann Arbor, MI, USA*

APSA 83

Virtual Reality for Pediatric Trauma Training - A Face and Content Validation Study

Fabio Botelho, MD MSc¹, Said Ashkar, B.Sc², Shreenik Kundu, MD, MSc³, TJ Matthews, n/a⁴, Elena Guadagno, MS⁵, Dan Poenaru, MD, Ph.D⁶, Jason M. Harley, PhD⁷

¹*Montreal Children's Hospital, Montreal, PQ, Canada, 2University of Ottawa, Montréal, PQ, Canada, 3McGill University, Montreal, PQ, Canada, 4i3 Simulations, Luton, England, United Kingdom, 5The Montreal Children's Hospital, Montreal, PQ, Canada, 6Harvey E. Beardmore Division of Pediatric Surgery, Montreal Children's Hospital, Montreal, PQ, Canada, 7Department of Surgery, McGill University, Canada*

APSA 84

The Impact of Longitudinal Coaching on Well-being and Burnout in Pediatric Surgery Trainees: 2021-2023 Cohort

Eunice Huang, MD, MS¹, **Azalia Avila, MD²**, Rebecca A. Saberi, MD³, Kerri Palamara, MD⁴, Danielle Katz, MPH⁵, Heidi Chen, PhD⁶, Holly Neville, MD⁷

¹*Department of Pediatric Surgery, Vanderbilt University Medical Center, Monroe Carell Jr. Children's Hospital, Nashville, TN, USA, 2Memorial Healthcare System, Hialeah, FL, USA, 3DeWitt Daughtry Family Department of Surgery, Division of Pediatric Surgery, University of Miami Miller School of Medicine, Miami, FL, USA, 4Massachusetts General Hospital, Department of Medicine, Boston, MA, USA, 5Memorial Healthcare system, Hollywood, FL, USA, 6Vanderbilt University Medical Center, Department Of Biostatistics, Nashville, TN, USA, 7Joe DiMaggio Children's Hospital, Hollywood, FL, USA*

APSA 85

Determinants of Academic Success in Pediatric Surgeon-Scientists

Oluyinka O. Olutoye, MD, MPH¹, Michael Gyimah, MD¹, Taylor Lee², Anjali Degala², Ekene Onwuka, MD, MS³, Kristy Rialon, MD¹, Alice King, MD², Sundeep G. Keswani, MD⁴, Lily Cheng⁵

¹*Baylor College of Medicine, Houston, TX, USA, 2Texas Children's Hospital, Houston, TX, USA, 3Texas Children's Hospital & Baylor College of Medicine, Houston, TX, USA, 4Baylor College of Medicine and Texas Children's Hospital, Bellaire, TX, USA, 5University of Virginia, Charlottesville, VA, USA*

APSA 86

Readiness of Graduating General Surgery Residents to Perform Common Pediatric Surgery Procedures

Rebecca Moreci, MD, MS¹, Alyssa A. Pradarelli, MD², Kayla Marcotte², Chia Chye Yee, PhD², Andrew Krumm, PhD², Brian C. George, MD², Benjamin Zendejas, MD, MSc³

¹*University of Michigan, New Orleans, LA, USA, 2University of Michigan, Ann Arbor, MI, USA, 3Boston Children's Hospital, Boston, MA, USA*

APSA 87

The Influence of a Pediatric Surgery Resident Orientation Program on Documentation of Appropriate Specific Acute Appendicitis Billing Codes and Hospital Reimbursement

Owen Cordaro¹, Cortnie Vaughn, MD², Hector Osei, MD³, Miranda Georger, MBA⁴, Joseph C. L'Huillier, MD⁵, John M. Woodward, MD⁶, Krystle Bittner, MPH⁷, Carroll (Mac) M. Harmon, MD PhD⁸, Kaveh Vali⁹, Phillip B. Ham, MD, MS¹⁰

¹Jacobs School of Medicine and Biomedical Sciences, Buffalo, NY, USA, ²University at Buffalo, Buffalo, NY, USA, ³Pediatric Surgery / John R. Oshei Children's Hospital, Buffalo, NY, USA, ⁴Department of Finance, John R. Oshei Children's Hospital, Buffalo, NY, USA, ⁵Division of Pediatric Surgery, John R. Oshei Children's Hospital, Buffalo, NY, USA, ⁶University at Buffalo General Surgery, Sudbury, MA, USA, ⁷Department of Surgery, State University of New York at Buffalo, BUFFALO, NY, USA, ⁸John R Oshei Children's Hospital, Buffalo, NY, USA, ⁹University of Buffalo Kaleida health Oshei Children's hospital, ¹⁰John R. Oshei Children's Hospital, Division of Pediatric Surgery, University at Buffalo, Buffalo, NY, USA

APSA 88

Gather (GENERATE and Teach Health Equity Routinely): Changing Surgeon Dei Behaviors Through a Novel Qi Framework

Nicole Chicoine, DO¹, Sahar N. Rooholamini, MD, MPH¹, Joel S. Tieder, MD, MPH¹, Erin Sullivan, MPH¹, Shaquita Bell, MD¹, Tywan Price¹, Sarah Greenberg, MD MPH FACS FAAP²

¹Seattle Childrens Hospital, Seattle, WA, USA, ²Seattle Children's Hospital, Seattle, WA, USA

APSA 89

Impact of a Pediatric Ambulatory Surgical Center on Surgery Resident Education

Parker T. Evans, MD¹, Sameer Sundrani², Christina Bailey, MD, MSCI¹, Jamie Robinson, MD, PhD³, Jeffrey S. Upperman, MD⁴, Bo Lowvorn, III, Doctor of Medicine⁵

¹Vanderbilt University Medical Center, Nashville, TN, USA, ²Vanderbilt University School of Medicine, Nashville, TN, USA, ³Vanderbilt University Medical Center, Brentwood, TN, USA, ⁴Monroe Carell Jr. Children's Hospital at Vanderbilt, ⁵Monroe Carell Jr. Children's Hospital at Vanderbilt, Nashville, TN, USA

Variations in Care

3:15pm - 3:45pm

Inguinal Hernias in Premature Infants

Chat Room Moderator:

Suhail Zeineddin, MD, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL USA

Panelists:

Eunice Huang, MD, MS, Department of Pediatric Surgery, Vanderbilt University Medical Center, Monroe Carell Jr. Children's Hospital, Nashville, TN, USA

Gerald Gollin, MD, University of California San Diego, San Diego, CA, USA

Martin L. Blakely, MD, MS, MMHC, University of Texas Health - Houston, Nashville, TN, USA

Mark A. Fleming, MD, MS, UVA Health, Charlottesville, VA, USA

Kevin Ellsworth, MD, Phoenix Children's Hospital, Phoenix, Arizona USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Discuss the risks and benefits of early versus late inguinal hernia repair in premature infants.
- Review the current literature informing this treatment choice.
- Discuss data from a recently completed randomized trial comparing early versus late IH repair in premature infants.
- Understand what infants may benefit the most from delayed inguinal hernia repair.

Case Roundups

3:15pm - 3:45pm

Chat Room Moderator:

Kathryn L. McElhinney, MD, Ann & Robert H. Lurie Children's Hospital of Chicago; Department of Surgery, Division of Pediatric Surgery, Northwestern University Feinberg School of Medicine, Chicago IL, USA

Speakers:

Katie W. Russell, MD, Primary Children's Hospital, Salt Lake City, UT, USA,
Meghan A. Arnold, MD, University of Michigan, Ann Arbor, MI, USA
Carroll (Mac) M. Harmon, MD PhD, John R Oshei Children' s Hospital, Buffalo, NY, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Review hot topics of the day and provide different viewpoints from audience members on controversial topics.

4:15pm - 4:45pm

Refreshment Break

Exhibit Hall - Grand Saguario Foyer

Virtual Reality and 3D Modeling in Pediatric Surgery

4:45pm - 5:30pm

Program Committee Liaisons:

Jason S. Frischer, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA
Jason O. Robertson, MD, M.S.
Cleveland Clinic Children's Hospital, Department of Pediatric Surgery, Cleveland, OH, USA

Chat Room Monitor:

Rachael Sundland, MD, Maimonides Medical Center, Brooklyn, NY, USA

Moderator:

Daniel J. Robertson, MD, Children's Hospital of Illinois, OSF Healthcare, Dunlap, IL, USA

Speakers:

Mary T. Austin, MD, MPH, McGovern Medical School at the University of Texas Health Science Center at Houston, Houston, TX, USA
Mark L. Ryan, MD, MSPH, FACS, University of Texas Southwestern, Dallas, TX, USA
Andrew P. Bain, MD, UT Southwestern Medical Center, Dallas, TX, USA
Andrew M. Davidoff, MD, St. Jude Children's Research Hospital, Memphis, TN, USA
Chris Goode, HMBA, St. Jude Children's Research Hospital, Lake Cormorant, MS, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the process of generating 3D Virtual Reality Models including patient selection, image acquisition, quality control, content optimization, and clinical impact.
- Learn about the technologies required to generate/use these models at your institution.
- Identify areas of clinical impact for these technologies including complex oncology cases and complex reconstructions among others.
- Understand the difference between 3D renderings and specific immersive applications including Virtual Reality.

Palliative Care Tools for Difficult Discussions with Children and Families for Daily Pediatric Surgical Practice

4:45pm - 5:30pm

Program Committee Liaison:

Charesa J. Smith, 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, IL, USA

Moderators:

Lisa Van Houwelingen, MD, MPH, McMaster Children's Hospital, McMaster University, Dundas, ON, Canada
Reto M. Baertschiger, MD, PhD, Geisel School of Medicine at Dartmouth, Dartmouth Hitchcock Medical Center, Lebanon, NH, USA

Speakers:

Amy S. Porter, MD PhD, Harvard Medical School, Massachusetts General Hospital, Boston, MA, USA
Alexa Robbins, MD, Children's Hospital of Colorado, Aurora, CO, USA
Sarah Halix, MD, Massachusetts General Hospital, Boston, MA, USA
Danielle Cameron, MD, MPH, Mass General for Children, Boston, MA, USA
Hau D. Le, MD, University of Wisconsin School of Medicine and Public Health, Madison, WI, USA
Ryan M. Antiel, MD, MS, Duke University Medical Center, Durham, NC, USA

LEARNING OBJECTIVES**By the end of this presentation, attendees will be able to:**

- Learn about palliative care guidelines in pediatric surgical practice.
- Identify opportunities in pediatric surgical care for palliative care involvement – case base studies.
- Learn how to cope and allow self-care in difficult patient situations involving end of life counseling for patients – surgeons' perspective.

Best Care for the Rural Child

4:45pm - 5:30pm

Program Committee Liaison:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Moderators:

Laura F. Goodman, MD, MPH, Children's Hospital of Orange County and University of California – Irvine, Irvine, CA, USA

Jonathan E. Kohler, MD, University of California – Davis, Davis, CA, USA

Panelists:

Nicholas Hamilton, MD, Community Medical Center, Missoula, MT, USA

Annie Zeug, MD, Surgical Associates of Neenah / Thedacare, Greenville, WI, USA

Margaret Gallagher, MD, Blanchfield Army Community Hospital and Vanderbilt Children's Hospital, Nashville, TN, USA

LEARNING OBJECTIVES**By the end of this presentation, attendees will be able to:**

- Understand the unique challenges and opportunities in rural pediatric surgery.
- Identify key strategies for promoting high-quality pediatric surgical care in rural settings.
- Discuss strategies for building sustainable pediatric surgical programs within rural healthcare systems

6:00pm - 10:00pm

President's Banquet, Live Auction, Awards

SUNDAY, MAY 19

General Sessions

1:00am - 11:00am	Quiet Room	<i>Desert Suite 7</i>
6:00am - 8:00am	Continental Breakfast	<i>Exhibit Hall - Grand Saguaro Foyer</i>
6:00am - 3:00pm	Lactation Room	<i>Desert Suite 7</i>
6:00am - 3:00pm	Registration Desk Hours	<i>East Registration Desk</i>
6:00am - 12:00pm	Speaker Ready Room	<i>Desert Suite 5</i>
6:30am - 7:30am	Fun Run/Walk	<i>Mapped Route on Property</i>
6:30am - 7:30am	Training to Combat Ergonomic Injury	<i>Hotel Gym</i>
6:30am - 7:30am	Yoga on Lawn	<i>Tierra Madra Lawn</i>

Spiritual Session

8:00am - 8:45am **Recognize the power inherent in one's Faith history and feel empowered to call on that power to support them in their work/duties as a pediatric surgeon, teacher and guide.**

Chat Room Monitor:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Moderators:

Laura F. Goodman, MD, MPH, Children's Hospital of Orange County and University of California – Irvine, Irvine, CA, USA

Jonathan E. Kohler, MD, University of California – Davis, Davis, CA, USA

Panelists:

Mary L. Brandt, MD, MDiv, Baylor College of Medicine, Houston, TX, USA

Charles E. Bagwell, MD, Virginia Commonwealth University, Midlothian, VA, USA

Kurt F. Heiss, MD, Emory University, CHOA, Stone Mountain, GA, USA

Fizan Abdullah, MD, PhD, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

Sabina Siddiqui, MD, Arkansas Children's Hospital, Springdale, AR, USA

Sanjeev Vasudevan, MD, Texas Children's Hospital / Baylor College of Medicine, Houston, TX, USA

Samuel Z. Soffer, MD, Cohen Children's Medical Center at Hofstra/Northwell, New Hyde Park, NY, USA

Wellness Program. Revisioning the Pediatric Surgeon Lifestyle: Live Long and Prosper!

9:00am - 12:00pm

9:00am - 9:45am **Session Introduction and Breakshop Sneak Peek**

Chat Room Monitor:

Marion C. W. Henry, MD, MPH, University of Chicago, Chicago, IL, USA

Moderator:

Terry L. Buchmiller, MD, Boston Children's Hospital, Boston, MA, USA

Session Introduction:

David Powell, MD, Stanford University, Breckenridge, CO, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Choose 3 of 6 diverse wellness topics for participation in small group sessions.

Avoiding a Toxic Work Environment

Session repeats three times:

9:45am - 10:15am

10:20am - 10:50am

10:55am - 11:25am

Speakers:

Kurt F. Heiss, MD, Emory University, CHOA, Atlanta, GA, USA

Helena M. Crowley, MD PhD, University of Maryland Children's Hospital, Baltimore, MD, USA

Robert S. Sawin, MD, Seattle Children's Hospital, Seattle, WA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Identify the “Toxic Five.”
 - Describe the negative impact of a toxic work environment on patients, staff, and organizations.
 - Utilize three techniques to navigate a respectful and constructive response to mitigate the impact of a toxic experience.
-

Creating an Ergonomic OR Environment

Session repeats three times:

9:45am - 10:15am
10:20am - 10:50am
10:55am - 11:25am

Speakers:

Hau D. Le, MD, University of Wisconsin School of Medicine and Public Health, Madison, WI USA
Iljana M. Gaffar, MD, Northwell Health - NYC H+H/Kings County, New York, NY USA
Shawn Izadi, MD, Boston Children's Hospital, Boston, MA USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Understand the tools to optimize ergonomics before, during, and after OR.
 - Demonstrate optimal OR ergonomic practices.
-

How to Be a Supportive Colleague for the Lactating Surgeon

Session repeats three times:

9:45am - 10:15am
10:20am - 10:50am
10:55am - 11:25am

Speakers:

Brenna S. Fullerton, MD, Boston Children's Hospital, Boston, MA, USA
Cristine S. Velazco, MD, MS, Arnold Palmer Hospital for Children, Orlando Health, Orlando, FL, USA
Julie Monteagudo, MD, Hasbro Children's Hospital/Brown University, Providence, RI, USA
Kathryn A. Winn, MD, IBCLC, Winnie Palmer Hospital, Pediatrix, Windermere, FL, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Provide information and practical guidance, for individuals who continue breastfeeding while they return to work, and for their colleagues who wish to be supportive.
-

“I Shouldn’t Come to Work Today”

Session repeats three times:

9:45am - 10:15am
10:20am - 10:50am
10:55am - 11:25am

Speakers:

Terry L. Buchmiller, MD, Boston Children's Hospital, Boston, MA, USA
Mary L. Brandt, MD, MDiv, Baylor College of Medicine, Houston, TX, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Define strategies to allow surgeon flexibility in taking time away for unforeseen personal needs while maintaining excellence in patient care.
-

Onboarding Families to the Life of Pediatric Surgeons

Session repeats three times:

9:45am - 10:15am

10:20am - 10:50am

10:55am - 11:25am

Speakers:

Yue-Yung Hu, MD, MPH, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

Michael B. Ishitani, MD, Mayo Clinic, Rochester, MN, USA

Lauren DeCaporale-Ryan, PhD, University of Rochester Medical Center, Rochester, NY, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Help systems, leaders, and personal networks understand facets of work & life for a new pediatric surgeon, including financial, educational, medical, emotional, social/community, and emergency factors.
- Outline opportunities for practice partners and hospital administration to provide support for a new pediatric surgeon and their family.
- Review knowledge/skills/resources for surgeons' families on how to recognize and respond to common stressors that new pediatric surgeons face.

Revisoning our Work Week

Session repeats three times:

9:45am - 10:15am

10:20am - 10:50am

10:55am - 11:25am

Speakers:

Steven Stylianos, MD, Morgan Stanley Children's Hospital, Columbia University, New York, NY, USA

Bharath Nath, MD PhD, Inova Children's Hospital, Fairfax, VA, USA

LEARNING OBJECTIVES

By the end of this presentation, attendees will be able to:

- Gain insight into a practice model felt to improve physician autonomy and work life balance.

11:30am - 12:00pm

Visioning the Well-adjusted Pediatric Surgeon

Moderators:

Terry L. Buchmiller, MD, Boston Children's Hospital, Boston, MA, USA

Loren Berman, MD, MHS, Nemours Children's Hospital-Delaware, Wilmington, DE, USA
