

CONTENTS

FEATURED ARTICLES

- Prognostic Profiling of Children with Serious Post-Operative Complications: A Novel Probability Model for Failure to Rescue 207
Christian Mpody, Jordan Arends, Jennifer H. Aldrink, Oluyinka O. Olutoye, Joseph D. Tobias, and Olubukola O. Nafiu
- Commentary Regarding Prognostic Profiling of Children with Serious Postoperative Complications: A Novel Probability Model for Failure to Rescue 213
Max R. Langham
- Evolving Applications of Fluorescence Guided Surgery in Pediatric Surgical Oncology: A Practical Guide for Surgeons 215
Seth D. Goldstein, Todd E. Heaton, Alexander Bondoc, Roshni Dasgupta, Abdelhafeez Abdelhafeez, Andrew M. Davidoff, and Timothy B. Lautz
- Commentary Regarding Evolving Applications of Fluorescence Guided Surgery in Pediatric Surgical Oncology: A Practical Guide for Surgeons 224
Peter Mattei

THORACIC CONDITIONS

- The Prevalence of Hearing Loss in Children with Congenital Diaphragmatic Hernia: A Longitudinal Population-Based Study 226
Abdullah Alenazi, Gabrielle Derraugh, Mathew Levesque, Melanie I. Morris, Anna C. Shawyer, Suyin A. Lum Min, and Richard Keijzer
- Validating 3D Indexes in the Non-Surgical Pectus Excavatum Patient 230
Sara Fuentes, José María Pradillos-Serna, Mario Berlioz, Francisco Damián-Salamanca, Teresa Lorenzo, and Erick Ardela-Díaz
- Accuracy of Contrast Swallow Study in Assessment of Caustic Esophageal Stricture Length in Children: Agreement Study 235
Khaled M. El-Asmar, Allam Elsayed Allam, and Ayman M. Allam
- Quality of Life after Esophageal Replacement in Children 239
Gabriele Gallo, E.S. van Tuyll van Serooskerken, S.H.A.J. Tytgat, D.C. van der Zee, C.M.G. Keyzer-Dekker, S. Zwaveling, J.B.F. Hulscher, H. Groen, and M.Y.A. Lindeboom

COLORECTAL CONDITIONS

- Early Ileal Pouch Anal Anastomosis for Ulcerative Colitis in Children: Similar Outcome to Delayed Pouch Construction Despite Higher Comorbidity 245
Liese C.C. Pruitt, Brian T. Bucher, Chelsea McCarty Allen, and Scott S. Short
- Pan-Enteric Neuropathy and Dysmotility are Present in a Mouse Model of Short-Segment Hirschsprung Disease and May Contribute to Post-Pullthrough Morbidity 250
Sukhada Bhawe, Emily Arciero, Corey Baker, Wing Lam Ho, Richard A. Guyer, Ryo Hotta, and Allan M. Goldstein
- Reaching Adulthood with Hirschsprung's Disease: Patient Experiences and Recommendations for Transitional Care 257
Anders T Hoel, Louise Tofft, Kristin Bjørnland, Helene Gjone, Catherine J Teig, Tom Øresland, Pernilla Stenström, and Marit H Andersen

Rectourethral and Rectovesical Fistula as Serious and Rare Complications after Hirschsprung Disease Operation: Experience in Seven Patients	263
<i>Chunhui Peng, Sarah Siyin Tan, Wenbo Pang, Zengmeng Wang, Dongyang Wu, Kai Wang, and Yajun Chen</i>	
Quantifying the Effect of Resident Education on Outcomes in Pediatric Appendicitis	269
<i>Brittany L. Johnson, Geran W. Barton, Huirong Zhu, Charlene Barclay, Monica E. Lopez, and Mark V. Mazziotti</i>	

ONCOLOGY

Lymphadenopathy in Children: A Streamlined Approach for the Surgeon — A Report from the APSA Cancer Committee	274
<i>Christa N Grant, Jennifer Aldrink, Timothy B Lautz, Elisabeth T Tracy, Daniel S. Rhee, Reto M. Baertschiger, Roshni Dasgupta, Peter F. Ehrlich, and David A. Rodeberg</i>	
Current Surgical Management of Children with Osteosarcoma and Pulmonary Metastatic Disease: A Survey of the American Pediatric Surgical Association	282
<i>Timothy B. Lautz, Mark D. Krailo, Ruxu Han, Todd E. Heaton, Roshni Dasgupta, and John Doski</i>	
Upregulation of Human Endogenous Retrovirus-K (HML-2) MRNAs in Hepatoblastoma: Identification of Potential New Immunotherapeutic Targets and Biomarkers	286
<i>David F Grabski, Aakrosh Ratan, Laurie R Gray, Stefan Bekiranov, David Rekosh, Marie-Louise Hammarskjold, and Sara K Rasmussen</i>	

TRAUMA

Pediatric Cervical Spine Injury in the United States: Defining the Burden of Injury, Need for Operative Intervention, and Disparities in Imaging Across Trauma Centers	293
<i>Woihwan Kim, Nicholas Ahn, Ashar Ata, Matthew A. Adamo, Pouya Entezami, and Mary Edwards</i>	
Evaluation of an Evidence-Based Guideline to Reduce CT Use in the Assessment of Blunt Pediatric Abdominal Trauma	297
<i>Michaela Gaffley, Lucas P. Neff, Leah M. Sieren, Kristen A. Zeller, Thomas Pranikoff, Tammy Rush, and John K. Petty</i>	
Risks of Venous Thrombosis and Bleeding in Critically Ill Adolescents after Trauma or Major Surgery	302
<i>Sheila J. Hanson, Arash Mahajerin, John K. Petty, Veronika Shabanova, and E. Vincent S. Faustino</i>	

OTHER CONDITIONS

Neurodevelopmental and Growth Outcomes of Extremely Preterm Infants with Necrotizing Enterocolitis or Spontaneous Intestinal Perforation	309
<i>Carlos Zozaya, Jyotsna Shah, Agostino Pierro, Augusto Zani, Anne Synnes, Shoo Lee, Prakesh S Shah, and on behalf of the Canadian Neonatal Network (CNN) and the Canadian Neonatal Follow-Up Network (CNFUN) Investigators</i>	
Totally Implantable Venous Access Ports: A Prospective Randomized Study Comparing Subclavian and Internal Jugular Vein Punctures in Children	317
<i>Liling Han, Jun Zhang, Xiaobing Deng, XiangRu Kong, Chao Yang, Liang Peng, Chunyan Kou, Ke Zou, LinYa Lv, ChangChun Li, Shan Wang, and GuangHui Wei</i>	
Adnexal Torsion with Paraovarian Cysts in Pediatric and Adolescent Populations: A Retrospective Study	324
<i>Tamar Tzur, Noam Smorgick, Nataly Sharon, Marina Pekar-Zlotin, Ron Maymon, and Yaakov Melcer</i>	

UROLOGY

Early Nephrectomy in Neonates with Symptomatic Autosomal Recessive Polycystic Kidney Disease	328
<i>Richard E Overman, Cory N Criss, Zubin J Modi, and Samir K Gadepalli</i>	

Management of Lower Urinary Tract Fibroepithelial Polyps in Children	332
<i>Sybille Rousseau, Matthieu Peycelon, Céline Grosos, Valeska Bidault, Anna Poupalou, Garance Martin, Éric Dobremez, Luke Harper, Claire Raquillet, Alexis Arnaud, Emmanuel Sapin, Aurélien Scalabre, Philippe Buisson, Guillaume Levard, Isabelle Pommepuy, Maguelonne Pons, Laurent Fourcade, and Quentin Ballouhey</i>	

LABORATORY INVESTIGATIONS

A Piglet Model of Iatrogenic Rectosigmoid Hypoganglionosis Reveals the Impact of the Enteric Nervous System on Gut Barrier Function and Microbiota Postnatal Development	337
<i>Alexis Pierre Arnaud, Juliette Hascoet, Pauline Berneau, Francis LeGouevrec, Julien Georges, Gwenaelle Randuineau, Michèle Formal, Sébastien Henno, and Gaelle Boudry</i>	
Intestinal Adaptation Following Spring Insertion into a Roux Limb in Mice	346
<i>Katherine I. Portelli, Jun-Beom Park, Jordan S. Taylor, Anne-Laure Thomas, Matthias Stelzner, Martin G. Martin, and James C.Y. Dunn</i>	
Deletion of Interleukin Enhancer Binding Factor 2 (ILF2) Resulted in Defective Biliary Development and Bile Flow Blockage	352
<i>Yim Cheung, Zhongluan Wu, Maria-Mercedes Garcia-Barcelo, Paul Kwong Hang Tam, Alvin Chung Hang Ma, and Vincent Chi Hang Lui</i>	
Does Open Ovarian Biopsy in Prepubertal Age Affect Ovarian Reserve in a Rat Model?	360
<i>Justyna Łuczak, Maciej Bałaj, Rafał Ciaputa, Adam Szymerowski, and Marcin Nowak</i>	

GLOBAL SURGERY PAPERS

Nutritional Status and Outcome of Surgery: A Prospective Observational Cohort Study of Children at a Tertiary Surgical Hospital in Harare, Zimbabwe	368
<i>Emil Bergkvist, Taurai Zimunhu, Chenesa Mbanje, Lars Hagander, and G I Muguti</i>	
Gastric Pull-Up by the Retrosternal Route for Esophageal Replacement: Feasibility in a Limited-Resource Scenario	374
<i>Samir Kant Acharya, Nidhi Sugandhi, Amit Kumar Jadhav, Deepak Bagga, Narinder Tekchandani, Anjana Sreedharan, Saurav Srivastav, Goutam Chakraborty, and Prabudh Goel</i>	

PAPERS PRESENTED AT THE WESTERN PEDIATRIC TRAUMA CONFERENCE

GUEST EDITOR: STEVEN MOULTON MD

CHILDREN'S HOSPITAL COLORADO, AURORA, CO

Decision-Making in Pediatric Blunt Solid Organ Injury: A Deep Learning Approach to Predict Massive Transfusion, Need for Operative Management, and Mortality Risk	379
<i>Niti Shahi, Ashwani K. Shahi, Ryan Phillips, Gabrielle Shirek, Denis Bensard, and Steven L. Moulton</i>	
Pediatric Trauma Telemedicine in a Rural State: Lessons Learned from a 1-Year Experience	385
<i>Mark A. Taylor, Miguel L. Knochel, Spencer J. Proctor, Douglas L. Brockmeyer, Lisa A. Runyon, Stephen J. Fenton, and Katie W. Russell</i>	
Evaluating Abusive Head Trauma in Children <5 Years Old: Risk Factors and the Importance of the Social History	390
<i>David M Notrica, Lisa Kirsch, Shivani Misra, Cara Kelly, Jodie Greenberg, J Bryce Ortiz, Rachel K Rowe, Jonathan Lifshitz, P David Adelson, Rachael L Stottlemire, Aaron Cohen, and Lois W Sayrs</i>	
Meaningful Viscoelastic Abnormalities in Abusive and Non-Abusive Pediatric Trauma	397
<i>Ryan Phillips, Niti Shahi, Gabrielle Shirek, Jenny Stevens, Maxene Meier, John Recicar, Daniel M. Lindberg, John Kim, and Steven Moulton</i>	
Elevated Pediatric Age-Adjusted Shock-Index (SIPA) in Blunt Solid Organ Injuries	401
<i>Ryan Phillips, Maxene Meier, Niti Shahi, Shannon Acker, Marina Reppucci, Gabrielle Shirek, John Recicar, Steven Moulton, and Denis Bensard</i>	

(Continued)

Dynamic Trend or Static Variable: Shock Index Pediatric-Adjusted (SIPA) in Warzone Trauma	405
<i>Christopher W. Marenco, Daniel T. Lammers, Woo S. Do, Kaitlin R. Morte, John D. Horton, Matthew J. Ecker</i>	

OPERATIVE TECHNIQUE

Primary Gastrojejunostomy Tube Placement Using Laparoscopy with Endoscopic Assistance: A Novel Technique	412
<i>Claire Gerall, Ali-Andre Mencin, Jennifer DeFazio, Cornelia Griggs, Sandra Kabagambe, and Vincent Duron</i>	
Massive, Benign, Cystic Ovarian Tumors: A Technical Modification for Minimally Invasive Resection	417
<i>Hemal Kodikara, Craig A McBride, and Dylan Wanaguru</i>	
Laparoscopic Resection of Liver Tumors in Children	420
<i>Maciej Murawski, Marcin Łosin, Andrzej Gołębiowski, Katarzyna Sinacka, Irena Zabolska, Ewa Iżycka-Świeszewska, and Piotr Czauderna</i>	

PEDIATRIC SURGICAL IMAGE

Enema-Induced Spastic Left Colon Syndrome: An Unintended Consequence of Chronic Enema Use	424
<i>Alberto Peña, Luis De La Torre, Jaime Belkind-Gerson, Mark Lovell, Jill Ketzer, John Bealer, and Andrea Bischoff</i>	

HISTORICAL VIGNETTE

The History of Surgery in Disorders of Sexual Development	429
<i>Cenk Buyukunal, Kristen A. Zeller, Senol Emre, and Don K. Nakayama</i>	

LETTER TO THE EDITOR

Laparoscopic-Guided Regional Blocks for Pain Management in Pediatric Laparoscopy	434
<i>Hytham K.S. Hamid</i>	

LETTER TO THE EDITOR

Unilateral or Bilateral Early Nephrectomy in Infants with Autosomal Recessive Polycystic Kidney Disease? Weighing Risks and Benefits	435
<i>Enrico Vidal, Mattia Parolin, and Piergiorgio Gamba</i>	
Announcements of Future Meetings	437