

# Stanford

---



## Tim Tirrell

Clinical Assistant Professor, Surgery - Pediatric Surgery

### CONTACT INFORMATION

- **Administrative Support**

Ivonne Navarrete

**Email** inavarrete@stanfordchildrens.org

### Bio

---

### ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Surgery - Pediatric Surgery
- Member, Maternal & Child Health Research Institute (MCHRI)

### Publications

---

### PUBLICATIONS

- **Patch Repair Versus Flap Repair for Congenital Diaphragmatic Hernia: A Systematic Review and Meta-Analysis.** *Journal of pediatric surgery*  
Fatimi, A. S., Salman, R., Manal, H., Anns, K. M., Thobani, H., Ehsan, A. N., Rao, A. G., Tahan, D., Tirrell, T. F., Islam, S., Khan, F. A.  
2026: 162919
- **Assessing the Value of Overnight Admission After Pediatric Laparoscopic Cholecystectomy: A Nationwide Propensity-Matched Analysis.** *Journal of pediatric surgery*  
Javid, A., Minhas, A., Thobani, H., McRae, J., Mladenov, G., Ehsan, A. N., Gundershausen, M., Tahan, D., Tagge, E. P., Tirrell, T., Radulescu, A., Khan, F. A.  
2025: 162870
- **Outcomes of Sutureless versus Sutured Closure for Gastroschisis: A Systematic Review and Meta-Analysis.** *Journal of pediatric surgery*  
Rao, A. G., Awan, A. R., Ayazuddin, M., Thobani, H., Ehsan, A. N., Fatimi, A. S., Minhas, A., Javid, A., Tirrell, T. F., Sylvester, K. G., Islam, S., Khan, F. A.  
2025: 162867
- **Outcomes of Pouch Creation in 2-Stage Versus 3-Stage Procedures for Pediatric Ulcerative Colitis: A Propensity Score Matched Comparative Analysis.** *Inflammatory bowel diseases*  
Thobani, H., Ehsan, A. N., Moturu, A., Nepomuceno, H. M., Taufiq, M., Zahid, N., Tirrell, T. F., Sylvester, K. G., Islam, S., Khan, F. A.  
2025
- **Antibiotic Prophylaxis for Gastrointestinal Surgery Among Neonates and Very Young Infants: National Patterns, Outcomes, and Opportunities for Precision Stewardship.** *The Journal of pediatrics*  
Thobani, H., Mathew, R., Ehsan, A. N., Moturu, A., Khan, M. O., Bio, L., Sankar, M., Tirrell, T. F., Shah, A. A., Thorson, C. M., Raymond, S. L., Islam, S., Sylvester, et al  
2025: 114839
- **Outcomes of a Second Run of Extracorporeal Membrane Oxygenation in Neonates: A Propensity Score Matched Analysis of a Nationwide Registry.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Thobani, H., Khan, M. O., Tirrell, T. F., Khan, F. A., Islam, S.

2025

- **Antibiotic Stewardship in Pediatric Complicated Appendicitis: Assessing the Role of Oral Antibiotics after Discharge.** *Journal of pediatric surgery*  
Thobani, H., Nepomuceno, H. M., Schwab, M. E., Emengo, P. O., Khan, R., Raymond, S. L., Shah, A. A., Mathew, R., Tirrell, T. F., Islam, S., Sylvester, K. G., Khan, F. A.  
2025: 162594
- **Water Soluble Contrast Administration in the Management of Pediatric Adhesive Small Bowel Obstruction: A Systematic Review and Meta-Analysis.** *Journal of pediatric surgery*  
Thobani, H., Khan, M. O., Minhas, A., Fatimi, A. S., Khan, R., Tirrell, T. F., Sylvester, K. G., Islam, S., Khan, F. A.  
2025: 162465
- **Early Versus Late Inguinal Hernia Repair in Preterm Neonates: An Updated Systematic Review and Meta-Analysis with Trial Sequential Analysis.** *Journal of pediatric surgery*  
Khan, M. O., Fatimi, A. S., Thobani, H., Ehsan, A. N., Saqib, S., Tahan, D., Tirrell, T. F., Sylvester, K. G., Islam, S., Khan, F. A.  
2025: 162463
- **Technical Considerations in Primary Repair of a Congenital Prostatic Rectourethral Fistula in an Adult-Sized Patient.** *European journal of pediatric surgery reports*  
Tirrell, T. F., Demehri, F. R., Nandivada, P., McNamara, E. R., Dickie, B. H.  
2022; 10 (1): e20-e24
- **Hindgut Duplication in an Infant with Omphalocele-Exstrophy-Imperforate Anus-Spinal Defects (OEIS) Complex.** *European journal of pediatric surgery reports*  
Tirrell, T. F., Demehri, F. R., Lillehei, C. W., Borer, J. G., Warf, B. C., Dickie, B. H.  
2022; 10 (1): e45-e48
- **Contrast enhanced colostography: New applications in preoperative evaluation of anorectal malformations** *JOURNAL OF PEDIATRIC SURGERY*  
Tirrell, T. F., Demehri, F. R., McNamara, E. R., Paltiel, H. J., Barnewolt, C. E., Padua, H. M., Chow, J. S., Dickie, B. H.  
2021; 56 (1): 192-195
- **Safety of delayed surgical repair of omphalocele-exstrophy-imperforate anus-spinal defects (OEIS) complex in infants with significant comorbidities** *PEDIATRIC SURGERY INTERNATIONAL*  
Tirrell, T. F., Demehri, F. R., Henry, O. S., Cullen, L., Lillehei, C. W., Warf, B. C., Gates, R. L., Borer, J. G., Dickie, B. H.  
2021; 37 (1): 93-99
- **A New Approach to Cloaca: Laparoscopic Separation of the Urogenital Sinus** *JOURNAL OF LAPAROENDOSCOPIC & ADVANCED SURGICAL TECHNIQUES*  
Demehri, F. R., Tirrell, T. F., Shaul, D. B., Sydorak, R. M., Zhong, W., McNamara, E. R., Borer, J. G., Dickie, B. H.  
2020; 30 (12): 1257-1262
- **Reoperative surgery in anorectal malformation patients** *TRANSLATIONAL GASTROENTEROLOGY AND HEPATOLOGY*  
Tirrell, T. F., McNamara, E. R., Dickie, B. H.  
2021; 6: 43
- **Measure twice and cut once: Comparing endoscopy and 3D cloacagram for the common channel and urethral measurements in patients with cloacal malformations** *JOURNAL OF PEDIATRIC SURGERY*  
Halleran, D. R., Smith, C. A., Fuller, M. K., Durhm, M. M., Dickie, B., Avansino, J. R., Tirrell, T. F., Vandewalle, R., Reeder, R., Drake, K. R., Bates, D., Rollins, M. D., Levitt, et al  
2020; 55 (2): 257-260
- **Analysis of hierarchical biomechanical data structures using mixed-effects models** *JOURNAL OF BIOMECHANICS*  
Tirrell, T. F., Rademaker, A. W., Lieber, R. L.  
2018; 69: 34-39
- **Lymph node assessment and survival: we still have work to do** *JOURNAL OF THORACIC DISEASE*  
Tirrell, T., Onaitis, M.  
2018; 10 (1): 15-16

- **The mechanical strength of side-to-side tendon repair with mismatched tendon size and shape** *JOURNAL OF HAND SURGERY-EUROPEAN VOLUME*  
Friden, J., Tirrell, T. F., Bhola, S., Lieber, R. L.  
2015; 40 (3): 239-245
- **Functional Consequence of Distal Brachioradialis Tendon Release: A Biomechanical Study** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*  
Tirrell, T. F., Franko, O. I., Bhola, S., Hentzen, E. R., Abrams, R. A., Lieber, R. L.  
2013; 38A (5): 920-926
- **Mobile Tablet Use among Academic Physicians and Trainees** *JOURNAL OF MEDICAL SYSTEMS*  
Sclafani, J., Tirrell, T. F., Franko, O. I.  
2013; 37 (1): 9903
- **Smartphone App Use Among Medical Providers in ACGME Training Programs** *JOURNAL OF MEDICAL SYSTEMS*  
Franko, O. I., Tirrell, T. F.  
2012; 36 (5): 3135-3139
- **Human skeletal muscle biochemical diversity** *JOURNAL OF EXPERIMENTAL BIOLOGY*  
Tirrell, T. F., Cook, M. S., Carr, J., Lin, E., Ward, S. R., Lieber, R. L.  
2012; 215 (15): 2551-2559
- **Moment arms of the human digital flexors** *JOURNAL OF BIOMECHANICS*  
Franko, O. I., Winters, T. M., Tirrell, T. F., Hentzen, E. R., Lieber, R. L.  
2011; 44 (10): 1987-1990
- **Resonance Raman Studies of the (His)(Cys)<sub>3</sub> 2Fe-2S Cluster of MitoNEET: Comparison to the (Cys)<sub>4</sub> Mutant and Implications of the Effects of pH on the Labile Metal Center** *BIOCHEMISTRY*  
Tirrell, T. F., Paddock, M. L., Conlan, A. R., Smoll, E. J., Nechushtai, R., Jennings, P. A., Kim, J. E.  
2009; 48 (22): 4747-4752
- **Cyclometalated iridium(III)-sensitized titanium dioxide solar cells** *PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES*  
Mayo, E. I., Kilsa, K., Tirrell, T., Djurovich, P. I., Tamayo, A., Thompson, M. E., Lewis, N. S., Gray, H. B.  
2006; 5 (10): 871-873