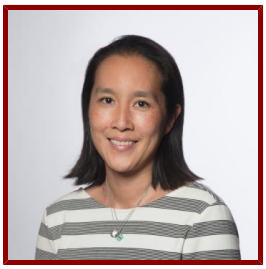
Stanford



Felice Su

Clinical Professor, Pediatrics - Critical Care

NIH Biosketch available Online Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Pediatric Intensive Care**

  725 Welch Rd 2 East

  PCU 420

  Palo Alto, CA 94304

  Tel (650) 497-8850 **Fax** (650) 736-9186

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Megan Tran - Senior Administrative Associate

  Email tranm@stanford.edu

  Tel 650-723-3820

Bio

CLINICAL FOCUS

- Pediatric Critical Care Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Critical Care
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Medical Director, Pediatric Intensive Care Unit, (2016- present)
- Program Director, Pediatric Critical Care Medicine Fellowship, (2016-2019)
- Research Director, Revive Initiative for Resuscitation Excellence, (2014- present)

PROFESSIONAL EDUCATION

- Fellowship: Childrens Hospital of Philadelphia Pediatric Critical Care Fellowship (2006) PA
- Board Certification: Pediatric Critical Care Medicine, American Board of Pediatrics (2006)
- Board Certification: Pediatrics, American Board of Pediatrics (2004)
- Fellowship, The Children’s Hospital of Philadelphia , Pediatric Critical Care Medicine (2006)
- Residency: UT Southwestern - Children's Medical Center of Dallas (2003) TX
- Medical Education: Northwestern University Feinberg School of Medicine (2000) IL

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My clinical pharmacology research is focused on investigating the impact of dynamic organ function on drug disposition and designing dosing strategies based on mathematical models that account for these changes in order to optimize safe medication administration in critically ill children.

Research through the REVIVE Initiative for Resuscitation Excellence investigates the quality of resuscitation during cardiopulmonary arrest. Areas of focus include early identification during the no-flow state prior to CPR initiation and quality of CPR simulation education.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Pediatric Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Optimizing Professional Practice Evaluation to Enable a Nonpunitive Learning Health System Approach to Peer Review.** *Pediatric quality & safety*
  Sandborg, C. I., Hartman, G. E., Su, F., Williams, G., Teufe, B., Wixson, N., Larson, D. B., Donnelly, L. F.
  2021; 6 (1): e375

- **PhewWe Got the Kid BackNow What?: Understanding Risk Factors Which Contribute to In-Hospital Pediatric Recurrent Cardiac Arrest.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
  Haileselassie, B., Su, F., Berg, M.
  2020; 21 (11): 1012–13

- **Burnout in Pediatric Critical Care Medicine Fellows.** *Critical care medicine*
  Suttle, M. L., Chase, M. A., Sasser, W. C., Moore-Clingenpeel, M., Maa, T., Werner, J. A., Bone, M. F., Boyer, D. L., Marcdante, K. J., Mason, K. E., McCabe, M. E., Mink, R. B., Su, et al
  2020

- **Pharmacokinetics of Dexmedetomidine in Infants and Children After Orthotopic Liver Transplantation** *ANESTHESIA AND ANALGESIA*
  Damian, M. A., Hammer, G. B., Elkomy, M. H., Frymoyer, A., Drover, D. R., Su, F.
  2020; 130 (1): 209–16

- **POST-CARDIAC ARREST CARE COMPLIANCE AND NEUROLOGIC OUTCOME IN PEDIATRIC RESUSCITATION COLLABORATIVE**
  Buysse, C., de Jonge, R., Hanna, R., Raymond, T., Niles, D., Su, F., Friess, S., de Caen, A., Nadkarni, V., Topjian, A.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Introduction of the EMR-integrated I-PASS ICU Handoff Tool.** *Pediatric quality & safety*
  Caruso, T. J., Su, F. n., Wang, E. n.
  2020; 5 (4): e334

- **Characteristics of Pediatric Extracorporeal Membrane Oxygenation Programs in the United States and Canada.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Troy, L. n., Su, F. n., Kilbaugh, T. n., Rasmussen, L. n., Kuo, T. n., Jett, E. n., Cornell, T. n., Berg, M. n., Haileselassie, B. n.
  2020

- **Assessing Competence in Central Venous Catheter Placement by Pediatric Critical Care Fellows: A National Survey Study** *CRITICAL CARE MEDICINE*
  Boyer, D. L., Zurca, A. D., Mason, K., Mink, R., Petrillo, T., Schuette, J., Tcharmtchi, M., Winkler, M., Fleming, G. M., Turner, D. A., Armijo-Garcia, V., Arteaga, G., Bone, et al
  2019; 47 (8): E654–E661

- **Antimicrobial Disposition During Pediatric Continuous Renal Replacement Therapy Using an Ex Vivo Model.** *Critical care medicine*
  Purohit, P. J., Elkomy, M. H., Frymoyer, A., Sutherland, S. M., Drover, D. R., Hammer, G. B., Su, F.
  2019

- **Code Team Structure and Training in the Pediatric Resuscitation Quality International Collaborative.** *Pediatric emergency care*
  Pfeiffer, S., Lauridsen, K. G., Wenger, J., Hunt, E. A., Haskell, S., Atkins, D. L., Duval-Arnould, J. M., Knight, L. J., Cheng, A., Gilfoyle, E., Su, F., Balikai, S., Skellett, et al

2019

- **Healthcare Provider Perceptions of Cardiopulmonary Resuscitation Quality During Simulation Training.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
  Troy, L. n., Knight, L. n., Olson, M. n., Chen, M. n., Gonzales, R. n., Berg, M. n., Su, F. n.
  2019

- **INFRASTRUCTURE AND PRACTICE CHARACTERISTICS OF PEDIATRIC ECMO PROGRAMS ACROSS NORTH AMERICA**
  Troy, L., Su, F., Berg, M., Rasmussen, L., Kuo, T., Jett, E., Jacobs, K., Haileselassie, B.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **LEVERAGING AGGREGATE DATA AT THE POINT OF CARE REDUCES VARIATION FOR PEDIATRIC NEUROSURGERY PATIENTS**
  Steffen, K., Su, F., Algaze, C., Duethman, L., Jacobs, K., Casazza, M., Chantra, J., Loh, L., Shin, A., Grant, G.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **The Prognostic Value of Quantitative Diffusion-Weighted MRI after Pediatric Cardiopulmonary Arrest.** *Resuscitation*
  Yacoub, M., Birchansky, B., Mlynash, M., Berg, M., Knight, L., Hirsch, K. G., Su, F., Revive Initiative at Stanford Childrens Health
  2018

- **Pharmacokinetics of Dexmedetomidine in Infants and Children After Orthotopic Liver Transplantation.** *Anesthesia and analgesia*
  Damian, M. A., Hammer, G. B., Elkomy, M. H., Frymoyer, A., Drover, D. R., Su, F.
  2018

- **Variability in the time to initiation of CPR in continuously monitored pediatric ICUs.** *Resuscitation*
  Olson, M., Helfenbein, E., Su, L., Berg, M., Knight, L., Troy, L., Sacks, L., Sakai, D., Su, F., Revive Initiative at Stanford Childrens Health
  2018; 127: 95–99

- **Characterization of Pediatric In-Hospital Cardiopulmonary Resuscitation Quality Metrics Across an International Resuscitation Collaborative** *PEDIATRIC CRITICAL CARE MEDICINE*
  Niles, D. E., Duval-Arnould, J., Skellett, S., Knight, L., Su, F., Raymond, T. T., Sweberg, T., Sen, A. I., Atkins, D. L., Friess, S. H., de Caen, A. R., Kurosawa, H., Sutton, et al
  2018; 19 (5): 421–32

- **ASSOCIATION OF 2015 AHA CPR QUALITY METRICS AND 24-HOUR SURVIVAL ACROSS 10 CRITICAL CARE SITES**
  Hunt, E., Raymond, T., Gilfoyle, E., Duval-Arnould, J., Niles, D., Sweberg, T., Wolfe, H., Jani, P., Martin, D., Tegtmeyer, K., Nett, S., Sen, A., Roberts, et al
  LIPPINCOTT WILLIAMS & WILKINS.2018: 25

- **Diagnostic Bedside Ultrasound Program Development in Pediatric Critical Care Medicine: Results of a National Survey.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
  Conlon, T. W., Kantor, D. B., Su, E. R., Basu, S. n., Boyer, D. L., Haileselassie, B. n., Petersen, T. L., Su, F. n., Nishisaki, A. n.
  2018

- **CPR COACH ROLE IMPROVES DEPTH, RATE, AND RETURN OF SPONTANEOUS CIRCULATION**
  Pfeiffer, S., Duval-Arnould, J., Wenger, J., Lauridsen, K., Hunt, E., Haskell, S., Atkins, D., Knight, L., Cheng, A., Gilfoyle, E., Su, F., Balikai, S., Skellett, et al
  LIPPINCOTT WILLIAMS & WILKINS.2018: 155

- **QUANTITATIVE DIFFUSION-WEIGHTED MRI PREDICTS OUTCOMES IN SURVIVORS OF PEDIATRIC CARDIAC ARREST**
  Yacoub, M., Birchansky, B., Mlynash, M., Berg, M., Knight, L., Hirsch, K., Su, F.
  LIPPINCOTT WILLIAMS & WILKINS.2018: 149

- **Optimization of Maternal Magnesium Sulfate Administration for Fetal Neuroprotection: Application of a Prospectively Constructed Pharmacokinetic Model to the BEAM Cohort.** *Journal of clinical pharmacology*
  Brookfield, K. F., Elkomy, M., Su, F., Drover, D. R., Carvalho, B.
  2017

- **Subglottic Stenosis Following Cardiac Surgery With Cardiopulmonary Bypass in Infants and Children.** *Pediatric critical care medicine*
  Kruse, K. E., Purohit, P. J., Cadman, C. R., Su, F., Aghaeepour, N., Hammer, G. B.
  2017; 18 (5): 429-433

- **Decreased Morphine Clearance in Neonates With Hypoxic Ischemic Encephalopathy Receiving Hypothermia** *JOURNAL OF CLINICAL PHARMACOLOGY*
  Frymoyer, A., Bonifacio, S. L., Drover, D. R., Su, F., Wustoff, C. J., Van Meurs, K. P.
  2017; 57 (1): 64-76
- **Theophylline Population Pharmacokinetics and Dosing in Children Following Congenital Heart Surgery With Cardiopulmonary Bypass.** *Journal of clinical pharmacology*
  Frymoyer, A., Su, F., Grimm, P. C., Sutherland, S. M., Axelrod, D. M.
  2016; 56 (9): 1084-1093
- **Pharmacokinetics and placental transfer of magnesium sulfate in pregnant women** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
  Brookfield, K. F., Su, F., Elkomy, M. H., Drover, D. R., Lyell, D. J., Carvalho, B.
  2016; 214 (6)
- **Pharmacokinetics of Morphine and Its Metabolites in Infants and Young Children After Congenital Heart Surgery** *AAPS JOURNAL*
  Elkomy, M. H., Drover, D. R., Glotzbach, K. L., Galinkin, J. L., Frymoyer, A., Su, F., Hammer, G. B.
  2016; 18 (1): 124-133
- **Pharmacokinetics of Morphine and Its Metabolites in Infants and Young Children After Congenital Heart Surgery.** *The AAPS journal*
  Elkomy, M. H., Drover, D. R., Glotzbach, K. L., Galinkin, J. L., Frymoyer, A., Su, F., Hammer, G. B.
  2016; 18 (1): 124-33
- **Population pharmacokinetics of etomidate in neonates and infants with congenital heart disease** *BIOPHARMACEUTICS & DRUG DISPOSITION*
  Su, F., El-Komy, M. H., Hammer, G. B., Frymoyer, A., Cohane, C. A., Drover, D. R.
  2015; 36 (2): 104-114
- **Association between Vancomycin Trough Concentration and Area under the Concentration-Time Curve in Neonates** *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*
  Frymoyer, A., Hersh, A. L., El-Komy, M. H., Gaskari, S., Su, F., Drover, D. R., Van Meurs, K.
  2014; 58 (11): 6454-6461
- **Association between vancomycin trough concentration and area under the concentration-time curve in neonates.** *Antimicrobial agents and chemotherapy*
  Frymoyer, A., Hersh, A. L., El-Komy, M. H., Gaskari, S., Su, F., Drover, D. R., Van Meurs, K.
  2014; 58 (11): 6454-6461
- **A Dose-Response Study of Dexmedetomidine Administered as the Primary Sedative in Infants Following Open Heart Surgery** *PEDIATRIC CRITICAL CARE MEDICINE*
  Su, F., Nicolson, S. C., Zuppa, A. F.
  2013; 14 (5): 499-507
- **Dexmedetomidine: pediatric pharmacology, clinical uses and safety** *EXPERT OPINION ON DRUG SAFETY*
  Su, F., Hammer, G. B.
  2011; 10 (1): 55-66
- **Population Pharmacokinetics of Dexmedetomidine in Infants After Open Heart Surgery** *ANESTHESIA AND ANALGESIA*
  Su, F., Nicolson, S. C., Gastonguay, M. R., Barrett, J. S., Adamson, P. C., Kang, D. S., Godinez, R. I., Zuppa, A. F.
  2010; 110 (5): 1383-1392
- **Sensitive and specific liquid chromatography-tandem mass spectrometric method for the quantitation of dexmedetomidine in pediatric plasma** *JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES*
  Lee, J. I., Su, F., Shi, H., Zuppa, A. F.
  2007; 852 (1-2): 195-201
- **Untying the Gordian knot** *ANESTHESIA AND ANALGESIA*
  Su, F., Zuppa, A. F., Adamson, P. C.
  2007; 104 (4): 993-993