



## Adam Frymoyer

Clinical Professor, Pediatrics - Neonatology

### CLINICAL OFFICE (PRIMARY)

- **Packard Intermediate Care Nursery**

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### Bio

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#### CLINICAL FOCUS

- Infant, Newborn
- Neonatal-Perinatal Medicine

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Neonatology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Medicine Children's Health Center for IBD and Celiac Disease

#### ADMINISTRATIVE APPOINTMENTS

- Committee Member, Pharmacy and Therapeutics Committee, Lucile Packard Children's Hospital Stanford, (2017- present)
- Faculty Mentor, Pediatric Coaching and Mentoring Program, Department of Pediatrics, Stanford University, (2022- present)

#### HONORS AND AWARDS

- Honor Roll for Teaching, Stanford Pediatric Residency Program (2022, 2023, 2024)
- Laura Bachrach Faculty Mentor Award (outstanding mentor for early career faculty), Department of Pediatrics, Stanford University (2020)
- Jennifer Daru Memorial Award (original contribution with most potential to impact clinical care), Hospital Pediatrics (2019)
- Early Career Investigator Highlight, Pediatric Research (2017)
- Presidential Trainee Award, American Society for Clinical Pharmacology and Therapeutics (2010)
- Cum Laude (M.D.), University of Pittsburgh (2004)
- Junior Elected Member, Alpha Omega Alpha Honor Medical Society (2003)
- Doris Duke Clinical Research Scholar, Doris Duke Charitable Foundation (2001-02)
- Honors (B.S.), Penn State University (1999)
- The President's Freshman Award, Penn State University (1996)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Data Interface and Opportunities Subcommittee (DIOC), California Perinatal Quality Care Collaborative (CPQCC) (2022 - present)
- Editorial Board Member, Clinical and Translational Science (2016 - present)
- Executive Committee, Section on Clinical Pharmacology & Therapeutics, AAP (2015 - 2021)
- Member, American Society for Clinical Pharmacology and Therapeutics (ASCPT) (2007 - 2021)
- Fellow, American Academy of Pediatrics (AAP) (2004 - present)

## PROFESSIONAL EDUCATION

- Fellowship, UCSF , General Pediatrics - Clinical Research (2012)
- Fellowship, UCSF , Clinical Pharmacology and Therapeutics (2010)
- Residency: UCSF Pediatric Residency (2007) CA
- Board Certification: Pediatrics, American Board of Pediatrics (2007)
- MD, University of Pittsburgh School of Medicine , Medicine (2004)

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Historically, children have represented an understudied, 'orphan' population in the field of therapeutics. Many medicines used in children have not been rigorously tested and lack the same level of evidence to help guide dosing as compared to adults. Yet, an in-depth understanding of a drug's clinical pharmacology is essential for its safe and effective use in children. Further, traditional "one-size fits all" approaches to pediatric therapeutics will continue to be inadequate due to the known heterogeneity in children resulting from ongoing growth and maturation. Individualized frameworks for dose decision-making during clinical care are imperative.

My clinical research program is focused on improving child health by promoting the safe and efficacious use of medications in children. It supports the advancement of pediatric therapeutics through the application of quantitative pharmacokinetic (PK) and pharmacodynamic (PD) frameworks to inform dose-decision. Translation of research findings back to clinical care is essential and facilitated through the development of clinical decision support dosing platforms integrated within the electronic health record (EHR), allowing real-time precision dosing at the point of care. My work further supports the clinical development of re-purposed and novel therapies in infants and children.

Learn about the Importance of Children in Clinical Studies - <https://www.nih.gov/health-information/nih-clinical-research-trials-you/parents-children>

### CLINICAL TRIALS

- Phase I Niclosamide (ANA001) in Pediatric & Young Adult Patients w/ Relapsed and Refractory AML, Recruiting
- PAANS, Not Recruiting

## Publications

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### PUBLICATIONS

- **Escalation of Care for Late Preterm Infants During the Birth Hospitalization.** *Hospital pediatrics*  
Joshi, N. S., Profit, J., Frymoyer, A., Flaherman, V. J., Gu, Y., Lee, H. C.  
2025
- **Implementing a Hearing-Targeted Congenital CMV Screening Program in a Low-Prevalence Region.** *Hospital pediatrics*  
Wang, N., Frymoyer, A., Walravens, C., Capasso, C., Gupta, A., Hudson, J., Pinsky, B. A., Srinivas, N. S.

2025

- **Temperature Percentiles by Hour of Life in the Newborn Nursery.** *Pediatrics*  
Dang, R., Frymoyer, A., Patel, A. I., Weng, Y., Schroeder, A. R.  
2025
- **Burden of "Pokes" in Newborns With Hypoglycemia Who Require IV Dextrose.** *Hospital pediatrics*  
Frymoyer, A., Monasch, E. M., Yeh Lee, M., Maahs, D. M.  
2025
- **Implementation of the Vancomycin per Pharmacy Education Training (VIPER) program for pharmacists at a children's hospital.** *American journal of health-system pharmacy : AJHP : official journal of the American Society of Health-System Pharmacists*  
Bio, L., Gaskari, S., Schwenk, H. T., Moss, J., Frymoyer, A.  
2025
- **Randomised, placebo-controlled trial of oral hycemomone in adults with pulmonary hypertension.** *Thorax*  
Czepiel, K., Nagy, N., Panjalingam, T., Kalinowski, A., Frymoyer, A. R., Karmouty-Quintana, H., Gu, B., Hedlin, H., Kaber, G., Dobrota Lai, S., Rosser, J. I., Bollyky, P. L., de Jesus Perez, et al  
2025
- **Machine learning based clinical decision tool to predict acute kidney injury and survival in therapeutic hypothermia treated neonates.** *Scientific reports*  
Keles, E., Ali, S. Y., Wintermark, P., Annaert, P., Groenendaal, F., Şahin, S., Öncel, M. Y., Armangil, D., Koc, E., Battin, M. R., Gunn, A. J., Frymoyer, A., Chock, et al  
2025; 15 (1): 17278
- **Why is the rectal route for NSAIDs favorable for preventing post-ERCP pancreatitis?** *Pancreatology : official journal of the International Association of Pancreatology (IAP) ... [et al.]*  
Swaminathan, G., Lin, Y. C., Ni, J., Khalid, A., Tsai, C. Y., Ding, Y., Bo, N., Murayi, J. A., Jayaraman, T., Poropatich, R., Bottino, R., Papachristou, G. I., Sheth, et al  
2025
- **Establishing dosing parameters for the use of maternal hyperoxygenation to affect fetal cardiovascular physiology.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*  
Kapinski, M., Phillips, A. A., Tandel, M. D., Weng, Y., Thorson, K., Stauffer, K. J., Moon, S., Frymoyer, A., Winn, V. D., Tacy, T. A., Maskatia, S. A.  
2025
- **On target dosing: erythropoietin exposure in neonates with hypoxic-ischemic encephalopathy in the HEAL trial.** *Pediatric research*  
Frymoyer, A., Vasconcelos, A. G., Juul, S. E., Comstock, B. A., Heagerty, P. J., Wu, Y. W.  
2024
- **The contribution of neutrophils to bacteriophage clearance and pharmacokinetics in vivo.** *JCI insight*  
Echterhof, A., Dharmaraj, T., Khosravi, A., McBride, R., Miesel, L., Chia, J., Blankenberg, P. M., Lin, K., Shen, C., Lee, Y., Yeh, Y., Liao, W. T., Blankenberg, et al  
2024; 9 (20)
- **Infants Born at Late Preterm Gestation: Management During the Birth Hospitalization.** *The Journal of pediatrics*  
Joshi, N. S., Profit, J., Frymoyer, A., Flaherman, V. J., Gu, Y., Lee, H. C.  
2024: 114330
- **Management and Clinical Outcomes of Neonatal Hypothermia in the Newborn Nursery.** *Hospital pediatrics*  
Dang, R., Patel, A. I., Weng, Y., Schroeder, A. R., Aby, J., Frymoyer, A.  
2024
- **Minimum effective dose of clemastine in a mouse model of preterm white matter injury.** *Pediatric research*  
Odell, E. P., Jabassini, N., Schniedewind, B., Pease-Raissi, S. E., Frymoyer, A., Christians, U., Green, A. J., Chan, J. R., Ostrem, B. E.  
2024
- **Urine biomarkers of acute kidney injury and association with brain MRI abnormalities in neonatal hypoxic-ischemic encephalopathy.** *Journal of perinatology : official journal of the California Perinatal Association*  
Turner, M. J., Rumpel, J. A., Spray, B. J., Stence, N., Neuberger, I., Frymoyer, A., Chock, V. Y., Courtney, S., Gist, K.

2024

- **Acute kidney injury in neonates with hypoxic ischemic encephalopathy based on serum creatinine decline compared to KDIGO criteria.** *Pediatric nephrology (Berlin, Germany)*  
Ahn, H. C., Frymoyer, A., Boothroyd, D. B., Bonifacio, S., Sutherland, S. M., Chock, V. Y.  
2024
- **Resource Utilization and Costs Associated with Approaches to Identify Infants with Early-Onset Sepsis.** *MDM policy & practice*  
Guan, G., Joshi, N. S., Frymoyer, A., Achepohl, G. D., Dang, R., Taylor, N. K., Salomon, J. A., Goldhaber-Fiebert, J. D., Owens, D. K.  
2024; 9 (1): 23814683231226129
- **A Population Model of Time-Dependent Changes in Serum Creatinine in (Near)term Neonates with Hypoxic-Ischemic Encephalopathy During and After Therapeutic Hypothermia.** *The AAPS journal*  
Krzyzanski, W., Wintermark, P., Annaert, P., Groenendaal, F., Şahin, S., Öncel, M. Y., Armangil, D., Koc, E., Battin, M. R., Gunn, A. J., Frymoyer, A., Chock, V. Y., Keles, et al  
2023; 26 (1): 4
- **Rectal administration of tacrolimus protects against post-ERCP pancreatitis in mice.** *Pancreatology : official journal of the International Association of Pancreatology (IAP) ... [et al.]*  
Lin, Y. C., Ni, J., Swaminathan, G., Khalid, A., Barakat, M. T., Frymoyer, A. R., Tsai, C. Y., Ding, Y., Murayi, J. A., Jayaraman, T., Poropatich, R., Bottino, R., Wen, et al  
2023
- **Incidence of Neonatal Hypothermia in the Newborn Nursery and Associated Factors.** *JAMA network open*  
Dang, R., Patel, A. I., Weng, Y., Schroeder, A. R., Lee, H. C., Aby, J., Frymoyer, A.  
2023; 6 (8): e2331011
- **Renal Oxygen Saturations and Acute Kidney Injury in the Preterm Infant with Patent Ductus Arteriosus.** *American journal of perinatology*  
Rose, L. A., Frymoyer, A., Bhombal, S., Chock, V. Y.  
2023
- **Impact of Model-Informed Precision Dosing on Achievement of Vancomycin Exposure Targets in Pediatric Patients with Cystic Fibrosis.** *Pharmacotherapy*  
Frymoyer, A., Schwenk, H. T., Brockmeyer, J. M., Bio, L.  
2023
- **Fewer glucose checks and decreased supplementation using dextrose gel for asymptomatic neonatal hypoglycemia.** *Journal of perinatology : official journal of the California Perinatal Association*  
Walravens, C., Gupta, A., Cohen, R. S., Kim, J. L., Frymoyer, A.  
2023
- **Renal oximetry for early acute kidney injury detection in neonates with hypoxic ischemic encephalopathy receiving therapeutic hypothermia.** *Pediatric nephrology (Berlin, Germany)*  
Rumpel, J. A., Spray, B. J., Frymoyer, A., Rogers, S., Cho, S., Ranabothu, S., Blaszak, R., Courtney, S. E., Chock, V. Y.  
2023
- **Evaluation of Neonatal and Paediatric Vancomycin Pharmacokinetic Models and the Impact of Maturation and Serum Creatinine Covariates in a Large Multicentre Data Set.** *Clinical pharmacokinetics*  
Hughes, J. H., Tong, D. M., Faldasz, J. D., Frymoyer, A., Keizer, R. J.  
2022
- **Rescaling Creatinine Centiles in Neonates Treated with Therapeutic Hypothermia for Neonatal Encephalopathy.** *Neonatology*  
Allegaert, K., Mekahli, D., Wintermark, P., Groenendaal, F., Borloo, N., Laenen, A., Annaert, P., Sahin, S., Oncel, M. Y., Chock, V. Y., Armangil, D., Koc, E., Battin, et al  
2022: 1-3
- **Serum Creatinine Patterns in Neonates Treated with Therapeutic Hypothermia for Neonatal Encephalopathy.** *Neonatology*  
Keles, E., Wintermark, P., Groenendaal, F., Borloo, N., Smits, A., Laenen, A., Mekahli, D., Annaert, P., Sahin, S., Oncel, M. Y., Chock, V., Armangil, D., Koc, et al  
2022: 1-9

- **Oral hycromone decreases hyaluronan in human study participants.** *The Journal of clinical investigation*  
Rosser, J. I., Nagy, N., Goel, R., Kaber, G., Demirdjian, S., Saxena, J., Bollyky, J. B., Frymoyer, A. R., Pacheco-Navarro, A. E., Burgener, E. B., Rajadas, J., Wang, Z., Arbach, et al  
2022; 132 (9)
- **Epidemiology and trends in neonatal early onset sepsis in California, 2010-2017.** *Journal of perinatology : official journal of the California Perinatal Association*  
Joshi, N. S., Huynh, K., Lu, T., Lee, H. C., Frymoyer, A.  
2022
- **A Clinical Monitoring Approach for Early Onset Sepsis: A Community Hospital Experience.** *Hospital pediatrics*  
Bain, L., Sivakumar, D., McCallie, K., Balasundaram, M., Frymoyer, A.  
1800
- **Standardized Evaluation of Cord Gases in Neonates at Risk for Hypoxic Ischemic Encephalopathy.** *Hospital pediatrics*  
Blecharczyk, E., Lee, L., Birnie, K., Gupta, A., Davis, A., Van Meurs, K., Bonifacio, S., Frymoyer, A.  
2021
- **The Term Newborn: Early-Onset Sepsis.** *Clinics in perinatology*  
Puopolo, K. M., Mukhopadhyay, S., Frymoyer, A., Benitz, W. E.  
2021; 48 (3): 471-484
- **A Population Physiologically-Based Pharmacokinetic Model to Characterize Antibody Disposition in Pediatrics and Evaluation of the Model using Infliximab.** *British journal of clinical pharmacology*  
Chang, H. P., Shakhnovich, V., Frymoyer, A., Funk, R. S., Becker, M. L., Park, K. T., Shah, D. K.  
2021
- **Management of comfort and sedation in neonates with neonatal encephalopathy treated with therapeutic hypothermia.** *Seminars in fetal & neonatal medicine*  
McPherson, C., Frymoyer, A., Ortinou, C. M., Miller, S. P., Groenendaal, F., Newborn Brain Society Guidelines and Publications Committee  
2021: 101264
- **Morphine and fentanyl exposure during therapeutic hypothermia does not impair neurodevelopment.** *EClinicalMedicine*  
Gundersen, J. K., Chakkarapani, E., Jary, S., Menassa, D. A., Scull-Brown, E., Frymoyer, A., Walløe, L., Thoresen, M.  
2021; 36: 100892
- **Morphine and fentanyl exposure during therapeutic hypothermia does not impair neurodevelopment** *ECLINICALMEDICINE*  
Gundersen, J. K., Chakkarapani, E., Jary, S., Menassa, D. A., Scull-Brown, E., Frymoyer, A., Walloe, L., Thoresen, M.  
2021; 36
- **Urine Biomarkers for the Assessment of Acute Kidney Injury in Neonates with Hypoxic Ischemic Encephalopathy Receiving Therapeutic Hypothermia.** *The Journal of pediatrics*  
Rumpel, J., Spray, B. J., Chock, V. Y., Kirkley, M. J., Slagle, C. L., Frymoyer, A., Cho, S. H., Gist, K. M., Blaszkak, R., Poindexter, B., Courtney, S. E.  
2021
- **Ampicillin Pharmacokinetics in Peripartum and Laboring Women.** *American journal of perinatology*  
Judy, A. E., Frymoyer, A., Ansari, J., Drover, D. R., Carvalho, B.  
2021
- **Theophylline dosing and pharmacokinetics for renal protection in neonates with hypoxic-ischemic encephalopathy undergoing therapeutic hypothermia.** *Pediatric research*  
Frymoyer, A., Van Meurs, K. P., Drover, D. R., Klawitter, J., Christians, U., Chock, V. Y.  
2020
- **Area Under the Curve Achievement of Once Daily Tobramycin in Children with Cystic Fibrosis during Clinical Care.** *Pediatric pulmonology*  
Brockmeyer, J. M., Wise, R. T., Burgener, E. B., Milla, C., Frymoyer, A.  
2020
- **Aminophylline for renal protection in neonatal hypoxic-ischemic encephalopathy in the era of therapeutic hypothermia.** *Pediatric research*  
Chock, V. Y., Cho, S., Frymoyer, A.

2020

- **Repurposing Drugs for Acute Myeloid Leukemia: A Worthy Cause or a Futile Pursuit?** *Cancers*  
Wojcicki, A. V., Kadapakkam, M., Frymoyer, A., Lacayo, N., Chae, H., Sakamoto, K. M.  
2020; 12 (2)
- **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
- **Model-Informed Precision Dosing of Vancomycin in Hospitalized Children: Implementation and Adoption at an Academic Children's Hospital.** *Frontiers in pharmacology*  
Frymoyer, A. n., Schwenk, H. T., Zom, Y. n., Bio, L. n., Moss, J. D., Chasmawala, B. n., Faulkenberry, J. n., Goswami, S. n., Keizer, R. J., Ghaskari, S. n.  
2020; 11: 551
- **Sustainability of a Clinical Examination-Based Approach for Ascertainment of Early Onset Sepsis in Late Preterm and Term Neonates.** *The Journal of pediatrics*  
Frymoyer, A. n., Joshi, N. S., Allan, J. M., Cohen, R. S., Aby, J. L., Kim, J. L., Benitz, W. E., Gupta, A. n.  
2020
- **Serial clinical observation for management of newborns at risk of early-onset sepsis.** *Current opinion in pediatrics*  
Berardi, A., Bedetti, L., Spada, C., Lucaccioni, L., Frymoyer, A.  
2019
- **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
- **Individualized Empiric Vancomycin Dosing in Neonates Using a Model-Based Approach** *JOURNAL OF THE PEDIATRIC INFECTIOUS DISEASES SOCIETY*  
Frymoyer, A., Stockmann, C., Hersh, A. L., Goswami, S., Keizer, R. J.  
2019; 8 (2): 97–104
- **4-Methylumbelliferyl glucuronide contributes to hyaluronan synthesis inhibition** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
Nagy, N., Gurevich, I., Kuipers, H. F., Ruppert, S. M., Marshall, P. L., Xie, B. J., Sun, W., Malkovskiy, A. V., Rajadas, J., Grandoch, M., Fischer, J. W., Frymoyer, A. R., Kaber, et al  
2019; 294 (19): 7864–77
- **Management of Chorioamnionitis-Exposed Infants in the Newborn Nursery Using a Clinical Examination-Based Approach.** *Hospital pediatrics*  
Joshi, N. S., Gupta, A., Allan, J. M., Cohen, R. S., Aby, J. L., Kim, J. L., Benitz, W. E., Frymoyer, A.  
2019
- **An Evaluation of Vancomycin Area Under the Curve Estimation Methods for Children Treated for Acute Pulmonary Exacerbations of Cystic Fibrosis Due to Methicillin-Resistant Staphylococcus aureus** *JOURNAL OF CLINICAL PHARMACOLOGY*  
Stockmann, C., Olson, J., Rashid, J., Lubsch, L., Young, D. C., Hersh, A. L., Frymoyer, A., Ampofo, K., Liu, X., Wang, Y., Sherwin, C. M. T., Zobell, J. T.  
2019; 59 (2): 198–205
- **Model-Informed Precision Dosing at the Bedside: Scientific Challenges and Opportunities** *CPT-PHARMACOMETRICS & SYSTEMS PHARMACOLOGY*  
Keizer, R. J., ter Heine, R., Frymoyer, A., Lesko, L. J., Mangat, R., Goswami, S.  
2018; 7 (12): 785–87
- **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
- **Renal Saturation and Acute Kidney Injury in Neonates with Hypoxic Ischemic Encephalopathy Undergoing Therapeutic Hypothermia** *JOURNAL OF PEDIATRICS*  
Chock, V. Y., Frymoyer, A., Yeh, C. G., Van Meurs, K. P.

2018; 200: 232-+

- **A safety, tolerability, and pharmacokinetic analysis of two phase I studies of multitargeted small molecule tyrosine kinase inhibitor XL647 with an intermittent and continuous dosing schedule in patients with advanced solid malignancies** *CANCER CHEMOTHERAPY AND PHARMACOLOGY*  
Das, M., Padda, S. K., Frymoyer, A., Molina, J., Adjei, A., Lensing, J. L., Miles, D., Sikic, B. I., Wakelee, H. A.  
2018; 82 (3): 541–50
- **Renal Saturation and Acute Kidney Injury in Neonates with Hypoxic Ischemic Encephalopathy Undergoing Therapeutic Hypothermia.** *The Journal of pediatrics*  
Chock, V. Y., Frymoyer, A., Yeh, C. G., Van Meurs, K. P.  
2018
- **Clinical Monitoring of Well-Appearing Infants Born to Mothers With Chorioamnionitis** *PEDIATRICS*  
Joshi, N. S., Gupta, A., Allan, J. M., Cohen, R. S., Aby, J. L., Weldon, B., Kim, J. L., Benitz, W. E., Frymoyer, A.  
2018; 141 (4)
- **A Mobile Infliximab Dosing Calculator for Therapy Optimization in Inflammatory Bowel Disease.** *Inflammatory bowel diseases*  
Piester, T. n., Frymoyer, A. n., Christofferson, M. n., Yu, H. n., Bass, D. n., Park, K. T.  
2018; 24 (2): 227–34
- **Individualized Empiric Vancomycin Dosing in Neonates Using a Model-Based Approach.** *Journal of the Pediatric Infectious Diseases Society*  
Frymoyer, A., Stockmann, C., Hersh, A. L., Goswami, S., Keizer, R. J.  
2017
- **Application of Population Pharmacokinetic Modeling for Individualized Infliximab Dosing Strategies in Crohn Disease** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*  
Frymoyer, A., Hoekman, D. R., Piester, T. L., de Meij, T. G., Hummel, T. Z., Benninga, M. A., Kindermann, A., Park, K. T.  
2017; 65 (6): 639–45
- **Early career investigator highlight.** *Pediatric research*  
Frymoyer, A.  
2017; 81 (6): 850-?
- **Application of Population Pharmacokinetic Modeling for Individualized Infliximab Dosing Strategies in Crohn's Disease.** *Journal of pediatric gastroenterology and nutrition*  
Frymoyer, A., Hoekman, D. R., Piester, T. L., de Meij, T. G., Hummel, T. Z., Benninga, M. A., Kindermann, A., Park, K. T.  
2017
- **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
- **The pharmacokinetics and dosing of oral 4-methylumbelliferone for inhibition of hyaluronan synthesis in mice.** *Clinical and experimental immunology*  
Kuipers, H. F., Nagy, N., Ruppert, S. M., Sunkari, V. G., Marshall, P. L., Gebe, J. A., Ishak, H. D., Keswani, S. G., Bollyky, J., Frymoyer, A. R., Wight, T. N., Steinman, L., Bollyky, et al  
2016; 185 (3): 372-381
- **Infliximab Dosing Strategies and Predicted Trough Exposure in Children With Crohn Disease** *JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION*  
Frymoyer, A., Piester, T. L., Park, K. T.  
2016; 62: 723-727
- **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

- **Dovitinib and erlotinib in patients with metastatic non-small cell lung cancer: A drug-drug interaction** *LUNG CANCER*  
Das, M., Padda, S. K., Frymoyer, A., Zhou, L., Riess, J. W., Neal, J. W., Wakelee, H. A.  
2015; 89 (3): 280-286
- **Dovitinib and erlotinib in patients with metastatic non-small cell lung cancer: A drug-drug interaction.** *Lung cancer (Amsterdam, Netherlands)*  
Das, M., Padda, S. K., Frymoyer, A., Zhou, L., Riess, J. W., Neal, J. W., Wakelee, H. A.  
2015; 89 (3): 280-6
- **Pharmacokinetics, Pharmacodynamics, and Safety of Lisinopril in Pediatric Kidney Transplant Patients: Implications for Starting Dose Selection** *CLINICAL PHARMACOLOGY & THERAPEUTICS*  
Trachtman, H., Frymoyer, A., Lewandowski, A., Greenbaum, L. A., Feig, D. I., Gipson, D. S., Warady, B. A., Goebel, J. W., Schwartz, G. J., Lewis, K., Anand, R., Patel, U. D.  
2015; 98 (1): 25-33
- **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
- **4-methylumbelliferone treatment and hyaluronan inhibition as a therapeutic strategy in inflammation, autoimmunity, and cancer.** *Frontiers in immunology*  
Nagy, N., Kuipers, H. F., Frymoyer, A. R., Ishak, H. D., Bollyky, J. B., Wight, T. N., Bollyky, P. L.  
2015; 6: 123-?
- **Predictive Performance of a Vancomycin Population Pharmacokinetic Model in Neonates.** *Infectious diseases and therapy*  
Stockmann, C. n., Hersh, A. L., Roberts, J. K., Bhongsatiern, J. n., Korgenski, E. K., Spigarelli, M. G., Sherwin, C. M., Frymoyer, A. n.  
2015
- **THE PHARMACOKINETICS OF ETOMIDATE IN NEONATES AND INFANTS WITH CONGENITAL HEART DISEASE**  
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