

Rady Children's Hospital-San Diego

PGY1 Pediatric Pharmacy Practice Residency

PGY2 Pediatrics- Oncology Focus



About Rady Children's Hospital-San Diego

- 551-bed pediatric care facility providing the largest source of comprehensive pediatric medical services in San Diego, Southern Riverside and Imperial counties
- 6th largest children's hospital in the country
- Only hospital in the San Diego area dedicated exclusively to pediatric healthcare and is the region's only designated pediatric trauma center
- In June 2020, U.S. News & World Report ranked Rady Children's among the best children's hospitals in the nation in 10 pediatric specialties



Rady Children's Hospital History

- **August 19, 1954-** Rady Children's officially opened to receive its first 12 patients
- **1961:** Expansion to 90 Beds
- **1984:** Designation as San Diego's only Pediatric Trauma Center
- **1993:** Rose Pavilion addition: 220 Beds/ Emergency Care Center opens
- **2001:** Formal unification with UCSD
- **2010:** The new Acute Care Pavilion opens, making Rady Children's the largest pediatric hospital in California
- **2014:** Genomic Center established
- **2015:** For the fifth consecutive year, Rady Children's is ranked in all 10 specialties surveyed by U.S. News and World Report

Indicators of Excellence

- U.S. News and World Report
- Codman Award
- Genomics Institute- Guinness World Records Title
- “Green” Building
 - The Pavilion is 1st Leadership in Energy Efficiency Design (LEED)- certified acute-care hospital in CA



Acute Care Pavilion



Hospital Demographics

- 551 licensed bed Pediatric Health Care Center
- Affiliated with UCSD Schools of Medicine & Pharmacy
- Designated Pediatric Trauma Center
 - San Diego and Imperial County
- Level IV NICU—54 bed
- Level I PICU—24 bed
- ACU/CVICU- 30 bed
- Hematology/Oncology—Affiliated with St. Jude
- Children's Adolescent Psychiatry (CAPS)- 24 bed
- Medical Behavioral Unit- 12 bed
- Helen Bernardy Center (HBC)- 43 bed
 - Long term care



Hospital Demographics

- Medical/Surgical Unit- 30 bed
- Hematology/Oncology Unit- 38 bed
- Emergency Care Center- 95,985 visits/year
- Ambulatory Care
 - Severe Asthma, CF, Transplant, Ectopic Dermatitis
- RCHSD Satellites
 - Scripps La Jolla, Encinitas, Mercy, Grossmont, Palomar, Rancho Springs

Mission Statements

- **Hospital:** The mission of Rady Children's Hospital San Diego is to restore, sustain, and enhance the health and developmental potential of children through excellence in care, education, research, and advocacy
- **Pharmacy:** The mission of the RCHSD Pharmacy Department is to optimize our patient outcomes through the safe, effective, rational, and cost effective use of medications.



Pharmacy Managers



Ron D'Ulisse, Pharm.D.

- Background:
 - PharmD: USC
 - Residency: Cedar Sinai
- Positions: Rady Children's Pharmacy: Clinical Pharmacist & Pharmacist Manager, Preceptor Central Pharmacy



Steve Wenger, RPh

- Background:
 - BS Pharm: University of Iowa
 - Positions: RCHSD Pharmacy Assistant Director, Director, Outpatient Manager
- Rady Children's Hospital: Pharmacy Tech Manager



PGY1 Program Director

Gale Romanowski, Pharm.D., BCPPS

- Background:
 - Pharm D: University of Michigan
 - General Practice Residency: Duke University Medical Center
 - Positions:
 - Children's Hospital Los Angeles: PICU Pharmacist
 - Miller's Children's Hospital Long Beach: Clinical Pediatric Pharmacist
 - Rady Children's Hospital San Diego (26 years): NICU Specialist, RPD, Education Coordinator

PGY2 Program Director

Lawrence Alejandro, Pharm.D., BCPPS

- Background:
 - Pharm D: UCSD School of Pharmacy
 - Residency: RCHSD Pediatrics Pharmacy Residency
 - Positions at RCHSD:
 - Clinical Transplant Pharmacist
 - Epic Beacon Oncology Analyst



Preceptors

- Paige Anderson, Pharm.D.
- Nona Chamankhah, Pharm.D.
- Jane Chan, Pharm.D.
- Tihua Chao, Pharm.D.
- Christine Chau, Pharm.D.
- Sarah Brown Cuevas, Pharm.D.
- Sean Daley, Pharm.D.
- Deb Determan, Pharm.D.
- Gloria Kim, Pharm.D.
- Anthony Lee, Pharm.D.
- Hoa Nguyen, Pharm.D.
- Rachel Stengone, Pharm.D.
- Elizabeth Vital, Pharm.D.
- Alyssa Wu, Pharm.D.



Current Residents

Sam Jalbert, Pharm.D.

PGY-1 Resident

PharmD: University of Rhode
Island

Emilie Chebat, Pharm.D.

PGY-2 Resident

PGY-1: UCSF
PharmD: University of Texas,
Austin

Halli Helgeson, Pharm.D.

PGY-1 Resident

PharmD: North Dakota
State University



Pharmacy Services

- Drug Procurement/Formulary Management
- Drug Information
- Investigational Drugs
- Medication Preparation/Distribution
 - Compounding
 - Unit Dose
 - Sterile IV Admixture
- Code Attendance
- In-services
- Pharmacokinetic Consults (TDMS)
- Adverse Drug Reaction Evaluation
- Transplant Services (Renal, Liver, Heart, Bone Marrow)
- Antimicrobial Stewardship
- Information Technology
- Trauma/ Rapid Response attendance
- Medication Safety
- Pharmacy & Therapeutics
- Outpatient/Homecare
- Pharmacy education (students, nurses, MDs, etc.)

RCHSD Program Specifics

- General Pediatric Pharmacy Practice Residency- PGY1
 - Established in 2000-2001
 - ASHP Accredited
- PGY2 Oncology
 - Established 2019
 - ASHP Accredited

Purpose of RCHSD Residency

- To build on Doctor of Pharmacy education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions
- At completion of residency residents will be eligible for board certification and postgraduate year two (PGY2) pharmacy residency training

Develop Proficiency

- Disease medication management
- MD order evaluation
- Distribution/Control of medications
- Medication Safety
- Code blue/rapid response
- Pharmacokinetic consults
- Drug information- MUEs, drug monographs
- Pharmacy and therapeutics - formulary management
- Education of healthcare professionals/patients
- Outpatient/Homecare
- Designing, conducting, publishing research
- Giving presentations
- Teaching at UCSD
- Adverse Drug Reaction Evaluation
- Precept students

Required Rotations- 35 weeks

- Medical/Surgical- 6 weeks
- Central Operations- longitudinal
- Administration- 3 weeks
- Neonatal Intensive Care- 6 weeks
- Pediatric Intensive Care- 6 weeks
- Cardiovascular Intensive Care- 6 weeks
- Hematology/Oncology- 4 weeks
- Infectious Diseases/Antimicrobial Stewardship-4 weeks
- Ambulatory-Severe Asthma, CF- longitudinal
- Other Longitudinal Rotations
 - Research
 - P&T/DUE
 - Teaching Certificate (through SDPRL)

Elective Rotations- 10 weeks

- Nephrology/Transplant
- Neurology/Adolescent Psychiatry (CAPS)
- Informatics
- Investigational Drugs
- Home Care
- UCSD rotations
- More time with required electives

Conference Attendance

- PGY1 Required:
 - ASHP Midyear, PPA
- PGY2 Required
 - ASHP, HOPA
 - Optional: COG

Evaluation and Feedback

- PharmAcademic
- Presentations Evaluations
- UCSD Course Evaluations
- Preceptor Self Evaluations

Residency Requirements

Completion of all learning experiences
Completion of Staffing assignments
Completion of Pharmacist Competencys
Completion of all learning experience evaluations (self, preceptor, Learning Experience)
Presentation or Project (includes Pharmacotherapy, at least 1 P&T monograph)to staff, inservices) for each >=4 week rotation (except Central/Administration). At least 6 TOTAL
Completion of employee orientation, health care provider CPR (if needed), PALS
Active participant/mentor in Pharmacy Student education program, meeting at least once a week. Review and critique student journal club and final presentations.
ADR work-ups, primary responsibility. Train and evaluate students in evaluating ADR program. Run program without student assistance
Completion of residency project and presentation at Western States. Study to be written in a manuscript form and submitted to appropriate journal. <i>(if not completed give RPD plan)</i>
Completion of a minimum of one Drug Utilization Evaluation (DUE).
Attendance and participation at CSHP Seminar conference for residency recruitment.
Attendance at teaching and grand rounds as permitted during rotations. <i>Attendance is required during Medical/Surgical rotation. During other rotations attendance will be based upon topics and rotation needs.*</i>
Pharmacokinetic evaluations on patients in current rotation and on weekend as needed.
Participation in Teaching Certificate Program
Community Service Project: _____
Participation in Outpatient Clinics (Asthma, Neuro, etc.) Clinic.
Complete End of Year Self Assessment and discuss with RPD
Evaluations for RPD and overall Program evaluation must be competed and submitted to Chief of Pharmacy (if not, give plan)

Resident Publications

- **MJ Lin**, MR Paul, and DJ Kuo Severe Neuropathic Pain With Concomitant Administration of Vincristine and Posaconazole. JPPT:2018, 23 (5):417-420.
- **AW Lee**, GL Romanowski, J Proudfoot, D Kuo. Effect of Vitamin D Supplementation on Delayed Hyperphosphatemia in Pediatric Acute Lymphoblastic Leukemia Patients During Induction Chemotherapy. JPPT. 2017; 22(2): 102-105.
- **GJ. Kim**, E Capparelli, G Romanowski, JA. Proudfoot, AH. Tremoulet, Development of Tolerance to Chronic Intermittent Furosemide Therapy in Pediatric Patients. JPPT 2017; 22(6):394-39
- **T Chao**, JC Perry, GL Romanowski, AH Tremoulet, EV Capparelli. Optimizing Pediatric Esmolol Dosing Using Computerized Practitioner Order Entry. JPPT. October-December 2014, Vol. 9(4), pp. 302-309
- Le J, Bradley JS, Murray W, Romanowski GL, Tran TT, Nguyen N, Cho S, **Natale S**, Bui I, Tran TM, Capparelli EV. Improved vancomycin dosing in children using area under the curve exposure. *Pediatr Infect Dis J.* 2013 Apr;32(4):e155-63
- AH Tremoulet, **P Pancoast**, A Franco, M Bujold, C Shimizu, Y Onouchi, A Tamamoto, G Erdem, D Dodd, JC Burns, Calcineurin Inhibitor Treatment of Intravenous Immunoglobulin-Resistant J *Pediatr* 2012
- **Lee J**, Capparelli E, Bradley J. Once daily dosing of amoxicillin. *Pharmacotherapy: The Journal of Human Pharmacology and Drug Therapy* Volume 25, Issue 12P2, 2005.
- Pending Publications: E Nguyen, S Tran, R Muus,

Past Resident Positions

- Pediatric Pharmacists- RCHSD, Stanford, Cedars-Sinai, UCSD, Utah, Oakland, UCSF, Loma Linda
- Oncology Pharmacists- UCSF, CHLA
- Pediatric Cardiac/Transplant Pharmacist- St. Louis Children's Hospital
- Neurology Pharmacist- Boston Children's Hospital
- Medical Liaison- Amgen, Switzerland
- Cardinal (Alaris)- Clinical consultant
- HIV clinic- San Francisco
- Antimicrobial Stewardship/ID Pharmacist- RCHSD, Alameda County Hospital, UCSF
- PGY2- UCSD, Loma Linda













Questions?

