

PGY2 Pediatric Pharmacy residency with added Critical Care PSP Designation Status

The resident is expected to complete the following list of activities within the residency year. Progress with completion of these activities is reviewed quarterly by the Program Director, and successful completion of all items is required before a residency certificate is awarded.

Credentials:
□Oklahoma Pharmacist License
☐ Oklahoma Pharmacist Preceptor License
☐ Basic Life Support Certification
☐ Complete PALS certification (if not already certified)
General Documentation:
☐ EPIC I-Vents, progress notes, and other notes focused in patient care activities (OU Health)
☐ Entering resident interest and self-evaluation
\square Residency training plan, quarterly updates, and quarterly self-evaluation
☐ PharmAcademic learning experience evaluations: Self-evaluation, preceptor evaluation, and learning experience evaluations for each rotation experience
☐ Resident Duty Hours Log (i.e., document in PharmAcademic)
 □ Residency Portfolio: The portfolio should include documentation of all patient care activities (e.g., de-identified progress notes, inservices), teaching activities (See Teaching section), and scholarship activities (e.g., research proposal, IRB approval letter) □ Achievement of PGY2 Pediatric Residency Goals: Eighty percent (80%) must be assessed as achieved for the residency. The remaining 20% must be assessed at a minimum of satisfactory progress (Appendix A) □ Summary Checklist (To be completed prior to final evaluation) □ Exit Survey
Required rotations: Successful completion of all rotation requirements and documentation Month Long Rotations:
☐ Orientation (if applicable)—1 month
☐ General Pediatrics I—1 month
☐ PICU—1 month
☐ Neonatal ICU—2 months (NICU 1 and NICU II)
☐ Pediatric Hematology/Oncology—1 month
☐ CICU—1 month
□ Research
☐ Clinical toxicology/poison control
☐ Critical Care Selective Rotations: Residents must complete 2 of the following rotations (1) PICU II, (2) CICU II (3) Emergency Medicine (OUMC), (4) NICU III
□ Electives— Residents must complete 1 additional elective including (1) Nephrology, (2) Stem cell transplant, (3) Infectious disease, (4) Hematology/oncology clinic, (5) Emergency Medicine (OCH) (only during 4 th quarter of the residency), (6) Cystic fibrosis clinic, (7) Other (May also elect to repeat one of the required or critical care selective rotations as above)
Longitudinal Rotations:
☐ Research Longitudinal Rotation (July-June)
☐ Longitudinal Teaching Rotation (July-June)
☐ Longitudinal Pharmacy Practice Management (July-June)
 □ Longitudinal Staffing Rotation (average of one weekend staffing shift every 3 weeks and one half-day per month in distribution side from July-June) □ Longitudinal Code Blue Rotation (July-June)

Practice Foundation
\square Completion of required pediatric disease topics from the PSP in critical care (Appendix B)
Practice Management and Staffing ☐ Attend P&T Committee meetings (when issue concerning pediatric is discussed/as assigned) and other OU Health Inc. committees related to improving medication efficacy and safety in children ☐ Participate in formulary management project with pediatric patients focused in pediatric/neonatal critical care ☐ Complete a pediatric-focused medication use evaluation focused in pediatric/neonatal critical care ☐ Complete Contemporary Pediatric Pharmacy Practice (CPPP) in-patient checklist [during longitudinal staffing rotation]
<u>Teaching</u> For teaching and precepting requirements please see <u>Appendix C</u>
Research ☐ Completion of one original research project in collaboration with Research Committee focused in pediatric/neonatal critical (See Resident Research Policy)
☐ Submission of research question/project proposal to OU Health Pharmacy Leadership and Residency Review Committee
☐ Completion of research curriculum (self-directed readings, OUHSC IRB training, and Resident Rounds research series)
☐ Presentation of research abstract for the PPA Annual Meeting and the Oklahoma Pharmacy Residency Research Conference
\square Presentation of research platform presentation at the PPA Annual Meeting and the Oklahoma Pharmacy Residency Research Conference
 □ Turn in complete manuscript in a format suitable for publication □ Presentation of research at the Department of Pediatrics Research Day (and/or alternative national meeting) □ Complete 2 reviews of manuscripts in the peer-review process of publication
□ Compile list of potential topics for review article/case report or etc. that could be submitted as a manuscript for publication that would contribute to the body of pediatric literature

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Appendix A: PGY2 Pediatric Pharmacy—ASHP Required Residency Goals

Eighty percent (80%) must be assessed as achieved for the residency. The remaining 20% must be assessed at a minimum of satisfactory progress

Educational Goals	Educational Objective(s)*
Competency Area R1: Patient Care	
R1.1 – In collaboration with the health care team, provide comprehensive medication management to pediatric patients	R1.1.1 – Interact effectively with health care teams to manage pediatric patients' medication therapy R1.1.2 - Interact effectively with pediatric patients, family members, and caregivers R1.1.3 - Collect information on which to base safe and effective medication therapy for
following a consistent patient care process	pediatric patients R1.1.4 - Analyze and assess information on which to base safe and effective medication
	therapy for pediatric patients R1.1.5 - Design and/or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for pediatric patients
	R1.1.6 - Ensure implementation of therapeutic regimens and monitoring plans (care plans) for pediatric patients by taking appropriate follow-up actions
	R1.1.7 – For pediatric patients, document direct patient care activities appropriately in the medical record or where appropriate R1.1.8 - Demonstrate responsibility to patients
R1.2 - Ensure continuity of care	R1.2.1 - Manage transitions of care effectively for pediatric patients
during patient transitions of pediatric patients between care settings	
R1.3 – Manage and facilitate delivery of medications to support	R1.3.1 - Prepare and dispense medications for pediatric patients following best practices and the organization's policies and procedures
safe and effective drug therapy for pediatric patients	R1.3.2 - Manage aspects of the medication-use process related to formulary management for pediatric patients
Compatancy Area DO: Advancing Bro	R1.3.3 – Facilitate aspects of the medication-use process for pediatric patients
Competency Area R2: Advancing Pra R2.1 - Demonstrate ability to	R2.1.1 - Prepare or revise a drug class review, monograph, treatment guideline, or protocol
manage formulary and medication- use processes for pediatric patients,	related to care of pediatric patients including proposals for medication-safety technology improvements
as applicable to the organization	R2.1.2 - Participate in a medication-use evaluation or quality improvement audit related to care for pediatric patients
	R2.1.3 – Participate in the review of medication event reporting and monitoring related to care for pediatric patients
	R2.1.4 – Identify opportunities for improvement of the medication-use system related to care for pediatric patients
R2.2 - Demonstrate ability to conduct a quality improvement or research project	R2.2.1 - Identify and/or demonstrate understanding of a specific project topic to improve care of pediatric patients or a topic for advancing the pharmacy profession or pediatric pharmacy R2.2.2 - Develop a plan or research protocol for a practice quality improvement or research project for the care of pediatric patients or a topic for advancing the pharmacy profession or pediatric pharmacy
	R2.2.3 – Collect and evaluate data for a practice quality improvement or research project for the care of pediatric patients or a topic for advancing the pharmacy profession or pediatric pharmacy
	R2.2.4 – Implement a quality improvement or research project to improve care of pediatric patients or for a topic for advancing the pharmacy profession or pediatric pharmacy R2.2.5 – Assess changes made to improve care of pediatric patients or for a topic for advancing the pharmacy profession or pediatric pharmacy
	R2.2.6 – Effectively develop and present, orally and in writing, a final project report suitable for publication related to care for pediatric patients or for a topic for advancing the pharmacy profession or pediatric pharmacy at a local, regional, or national conference

Appendix A Continued

Educational Outcome Educational Goal(s)*			
Competency Area R3: Leadership and	d Management		
R3.1 - Demonstrate leadership skills for self-development in the provision of care for pediatric patients	R3.1.1 - Demonstrate personal, interpersonal, and teamwork skills critical for effective leadership in the provision of care for pediatric patients R3.1.2 - Apply a process of on-going self-evaluation and personal performance improvement		
R3.2 - Demonstrate management skills in the provision of care for pediatric patients	in the provision of care for pediatric patients R3.2.1 – Contribute to pediatric pharmacy department management R3.2.2 – Contribute the pediatric pharmacist's perspective to technology and automation systems decisions R3.2.3 - Manages one's own practice effectively		
Competency Area R4: Teaching, Edu	cation, and Dissemination of Knowledge		
R4.1 – Provide effective medication and practice-related education to pediatric patients, caregivers, health care professionals, students, and the public (individuals and groups)	R4.1.1 – Establish oneself as an organizational expert for pediatric pharmacy-related information and resources R4.1.2 – Ensure appropriate pediatric pharmacy resources are available R4.1.3 – Design effective educational activities related to the care of pediatric patients R4.1.4 – Use effective presentation and teaching skills to deliver education related to pediatric pharmacy R4.1.5 – Use effective written communication to disseminate knowledge related to pediatric pharmacy R4.1.6 – Appropriately assess effectiveness of education related to pediatric pharmacy R4.1.7 – Provides effective patient and caregiver education		
R4.2 - Effectively employs appropriate preceptor roles when engaged in teaching students, pharmacy technicians, or fellow health care professionals about the care of pediatric patients	R4.2.1 - When engaged in teaching about the care of pediatric patients, select a preceptor role that meets learners' educational needs R4.2.2 - Effectively employ preceptor roles, as appropriate, when instructing, modeling, coaching, or facilitating skills related to care of pediatric patients		
Competency Area R5: Management of	of Medical Emergencies		
R5.1 – Demonstrate understanding of the management of pediatric medical emergencies	R5.1.1 – Demonstrate understanding of the management of pediatric medical emergencies according to the organization's policies and procedures		
Competency Area E1: Academia			
E1.1 – Demonstrate understanding of key elements of the academic environment and faculty roles within it	E1.1.1 – Demonstrates understanding of key elements of the academic environment and faculty roles within it		
E1.2 – Exercise case-based and other teaching skills essential to pharmacy faculty	E1.2.1 – Develop and deliver cases for workshops and exercises for laboratory experiences E1.2.2 – Compare and contrast methods to prevent and respond to academic and profession dishonesty and adhere to copyright issues		
E1.3 – Develops and practices a philosophy of teaching	E1.3.1 - Develop or update a teaching philosophy statement E1.3.2 - Prepare a practice-based teaching activity E1.3.3 - Deliver a practice-based educational activity, including didactic or experiential teaching, or facilitation E1.3.4 - Effectively document one's teaching philosophy, skills, and experiences in a teaching portfolio		
Competency Area E4: Added Skills fo			
E4.1 – Contribute to the presentation and publication of pediatric pharmacy research	E4.1.1 – Design an effective poster for the presentation of a specific topic E4.1.2 – Exercise skill in responding to questions occurring during the presentation of a poster E4.1.3 – Submit completed project for publication E4.1.4 – Contribute to the peer review of a pediatric pharmacy professional's article submitted for publication or presentation		

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Appendix B: PGY2 Pediatric Specialty Pathway--Critical Care

The resident will demonstrate an understanding of the mechanism of action, pharmacokinetics, pharmacodynamics, pharmacogenomics, pharmacoeconomics, usual regimen (dose, schedule, form, route, and method of administration), indications, contraindications, interactions, adverse reactions, and therapeutics of medications and non-traditional therapies, where relevant, that are applicable to the diseases and conditions listed below.

"Required patient experience" identify those disorders/topic areas where the resident must have direct patient care experience. Topics in the "Required case-based or topic discussion" column indicate areas where the resident must have EITHER direct patient care experience OR demonstrate knowledge through a case-based or topic discussion. Topics in the "Elective patient experience and/or case-based or topic discussion" column are suggested for discussion, but can be considered optional. Programs should track progress on the topic areas throughout the residency year.

System	Topics	Encounter Type	Date	Resident Initials	Preceptor Initials
	Arrhythmias				
	Congenital Heart Disease				
	Heart Failure				
	Hypertension				
	Patent Ductus Arteriosus				
Cardiovascular	Post-op Cardiac Surgical Management				
	Pulmonary Hypertension				
	Kawasaki Disease				
	Ventricular Assist Devices				
	Advanced Arrhythmias				
	Vasoplegic Shock				
	Acute Respiratory Distress				
	Acid-Base Disturbances				
	ECMO				
	Fluid and Electrolyte Disorders				
	Hyperglycemia of Critical Illness				
	Neuromuscular Blockade				
	Pediatric Advanced Life Support (PALS)				
	PK/PD Alterations in Critical Illness				
	Rapid Sequence Intubation				
	Sedation and Analgesia				
Critical Care	Cardiogenic Shock				
	Septic Shock				
	Sleep Management in Critical Illness				
	Status Asthmaticus				
	Status Epilepticus				
	Trauma				
	Traumatic Brain Injury				
	Neonatal Opioid Withdrawal Syndrome (NOWS)				
	latrogenic Withdrawal Syndrome (IWS)				
	Burns Madically Induced Cores (TRI or Status Failantings)				
	Medically Induced Coma (TBI or Status Epilepticus)				
0.1411.0	Near Drowning				
Critical Care	Toxicologic Emergencies				
	Organ Donor Management				
	Palliative Care				
	Adrenocortical Insufficiency				
	Diabetes Insipidus				
	Diabetes Mellitus (T1DM and T2DM)				
Endocrine and	Diabetic Ketoacidosis				
Metabolic	Pituitary Disorders				
	Syndrome of Inappropriate Antidiuretic Hormone				
	Growth Hormone Deficiency				
	Thyroid Disease				
	Metabolic Disorders				
	Constipation				
	Diarrhea				
	GERD				
	Nausea and Vomiting				
	Ulcers				
	Abdominal Compartment Syndrome				
GI and Hepatology	Acute Pancreatitis				
	Appendicitis				
	Cholestatic Jaundice				
	Hemorrhage				
	Hepatic Dose Adjustment				
	Hepatitis				

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	Inflammatory Bowel Syndrome		
	Liver Failure		
	Short Bowel Syndrome		
	Venocclusive Management		
General Pediatrics	Dehydration		
	Enteral Nutrition		
	Immunizations Finish		
	Maintenance Fluids Pain Management		
	Parenteral Nutrition (Neonates, Infants, Children)		
General Pediatrics	Developmental Pharmacokinetics		
	Infant Formulas		
	Nutritional Supplements		
	Oral Rehydration		
	Pharmacogenomics		
	Anemia		
	Anticoagulation		
	Disseminated Intravascular Coagulopathy		
	Anemia of Critical Illness Hemophagitic Lymphohistiocytosis		
	Hemophilia		
	Idiopathic Thrombocytopenic Purpura		
Hematology	Methemoglobinemia		
	Sickle Cell Disease		
	Acute Chest Syndrome		
	Blood Loss and Blood Component Replacement		
	Drug-Induced Thrombocytopenia		
	Exchange Transfusion		
	Splenic Sequestration		
	Antimicrobial Stewardship		
	Antibiotic Prophylaxis Catheter-Related Infection		
	C. Diff Associated Diarrhea		
	Fever		
Infectious Disease	Fungal Infections		
	Meningitis		
	Osteomyelitis		
	Pneumonia		
	Sepsis		
	Shunt Infections		
	Surgical Site Infections		
	Urinary Tract Infections Viral Encephalitis		
	Acquired Immune Deficiency Syndrome/HIV		
	Cellulitis		
	Complicated Intra-Abdominal Infections		
	Conjunctivitis		
	Croup		
Infectious Disease	Endocarditis		
miecaldas Disease	Epiglottitis		
	Impetigo		
	Otitis Media		
	Parasitic Infection Septic Arthritis		
	Sexually Transmitted Diseases		
	Strep Throat		
	Tuberculosis		
	Wound Infections		
	Pandemic Diseases		
	Apnea With Bradycardia		
	Bronchopulmonary Dysplasia (BPD)		
	Hyperbilirubinemia		
	Hypoglycemia		
	Intraventricular Hemorrhage		
Neonatology	Necrotizing Enterocolitis (NEC) Neonatal Abstinence Syndrome (NAS)		
	Neonatal Resuscitation		
	Neonatal Seizures		
	Neonatal Sepsis		
	Nutrition		
	Persistent Pulmonary Hypertension		

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	Respiratory Distress Syndrome		
Neonatology	Drugs in Pregnancy and Lactation		
	Hypoxic Ischemic Encephalopathy (HIE)		
	Initial Fluid Management/Requirements in Neonates		
	Ophthalmia Neonatorum		
	Retinopathy of Prematurity (ROP)		
	Hyperinsulinemia		
	Newborn Screening		
	Newborn Screening		
	Osteopenia of Prematurity and Rickets		
	Dialysis (CRRT /HD/PD)		
	Drug Dosing in Dialysis (CRRT/HD/PD)		
	Renal Dose Adjustment		
	Renal Failure and Acute Kidney Injury		
Nephrology	Drug-Induced Kidney Diseases		
rtopo.ogy	Contrast-Induced Nephropathy		
	Hemolytic Uremic Syndrome		
	Interstitial Nephritis		
	Renal Tubular Acidosis		
	Rhabdomyolysis		
	Critical Illness polyneuropathy		
	Delirium		
	Targeted Temp Management/Induced Hypothermia		
	Attention Deficit Disorder		
	Autism		
	Bipolar Disorder		
	Depression		
Neurology and	EEG or Bispectral Monitoring		
Psychiatry	Enuresis		
	Epilepsy		
	Febrile Seizures		
	Headache		
	Infantile Spasm		
	Ketogenic Diets		
	Spinal Cord Injury		
	Subarachnoid/Intracerebral Hemorrhage		
	Ventriculostomies		
Neurology and	Non-Infectious Encephalitis (NMDA)		
Psychiatry	Medicinal Marijuana		
	Paroxysmal Sympathetic Hyperactivity (PSH)		
	Diabetes		
	Intrauterine Infections		
	Pre-eclampsia/Eclampsia		
	Premature Labor		
Obstetrics	Premature Rupture of Membranes		
	Prenatal Care/Nutrition		
	Maternal Fetal Medicine		
	TORCH Screening		
	CNS Malignancies		
	Ewing Sarcoma Febrile Neutropenia		
	Hodgkin's Disease		
	Leukemia (ALL, AML)		
	Lymphoma		
Oncology	Oncologic Emergencies		
3,	Osteosarcoma		
	Retinoblastoma		
	Rhabdomyosarcoma		
	Tumor Lysis Syndrome		
	Wilm's Tumor		
	CAR-T Receptor Therapy Associated Cytokine Storm		
Pulmonary	Pheochromocytoma		
	Asthma		
	Bronchiolitis		
	Non-Invasive Mechanical Ventilation		
	Respiratory Syncytial Virus (RSV)		
	Tracheitis		
	Ventilators		
	Cystic Fibrosis and Associated Complications		
Pulmonary	Obstructive Sleep Apnea		
Pullionary	Pneumothorax and Hemothorax		
	Acute Pulmonary Embolism (PE)		
	Acute Pulmonary Embolism (PE)		

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	Diffuse Alveolar Hemorrhage		
	Interstitial Arthritis		
Rheumatology and	Juvenile Rheumatoid Arthritis		
Immunology	Lupus		
	Multisystem Inflammatory Disease (MISC)		
	Immunocompromised Host		
	Acute Rejection in Solid Organ Transplantation		
	Bone Marrow Transplant		
	Graft vs. Host Disease		
Transplant	Heart Transplant		
Transplant	Kidney Transplant		
	Liver Transplant		
	Lung Transplant		
	Post-Transplant Lymphoproliferative Disease (PTLD)		
	Small Bowel Transplant		
Medication	Alternate routes for enteral administration (e.g., J-tube, G-tube)		
Administration	Communication skills with pediatric patients and their families		
Considerations	Medication adherence		
	Extravasation management		
	Intravascular devices (e.g., arterial line, umbilical artery		
	catheter, intrajugular line, peripherally inserted central catheter)		
	Aerosolized medications		
Medication safety	KIDs List		
	IV smart pump technology		
	ASHP-PPA guidelines for providing pediatric pharmacy		
	services		
	NCPDP recommendations and guidance for standardizing the		
	dosing designations on prescription labels of oral liquid		
	medications		

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Appendix C: PGY2 Longitudinal Teaching/Precepting Experience

Advanced Teaching and Precepting Skills for Residents (Certificate)

Required Teaching Areas	^a Required (R) CAGOs Assessed ^b [Elective CA options]	^c Options to meet Required Areas
Didactic lectures	R4.1.1, R4.1.2, R4.1.3, R4.1.4 (Oncology R4.1.2 to R4.1.5; Pediatrics R4.1.3 to R4.1.6) ^b [Elective CA E1]	Select 1 of the following options: Deliver 2 formal original lectures in OUCOP (elective or required curriculum) Deliver 1 formal original lecture in OUCOP (elective or required curriculum) and 1 original lecture to interprofessional learners (CE level presentation with mentor feedback on slides, assessment questions, presentation style).
Small group facilitation	R4.1.2, (<u>Oncology R4.1.3;</u> <u>Pediatrics R4.1.4</u>) R4.2.2 ^b [<i>Elective CA E1</i>]	Select 1 of the following options: • Facilitate 2 small group sessions (Module 1; 3 hours/session) • Facilitate 2 topic discussions or 2 patient discussions with APPE students or PGY1 residents * all options assessed via checklist/rubric to provide formal feedback to resident
Clinical skill evaluation (grading and feedback)	R4.1.4 (Oncology R4.1.5; Pediatrics R4.1.6) b[Elective CA E1]	Select 1 of the following options: 2 lab sessions in Pharmacy Practice VI focused on counseling Preceptor at 2 interprofessional clinics for IPPE/APPE students Preceptor at 2 health-fairs/co-curricular activities for IPPE or interprofessional students Evaluate and provide feedback to APPE student or PGY1 resident during 2 medication history or patient counseling sessions *all options assessed via checklist/rubric to provide formal feedback to resident
Seminar Course evaluator	R4.1.4 (<u>Oncology R4.1.5;</u> <u>Pediatrics R4.1.6</u>)	Grader for 1 session of the Seminar Course (resident will be assigned topics in practice area and paired with a faculty mentor)
Primary preceptor	R4.2.1, R4.2.2	Preceptor for at least one P4 APPE student during one-month rotation
Teaching retreat	R4.1.1, R4.1.2, R4.1.3, R4.1.4 (Oncology R4.1.2 to R4.1.5; Pediatrics R4.1.3 to R4.1.6) ^b [Elective CA E1]	 Attendance and participation at OUCOP Teaching Retreat in July/August of each academic year Submission of requested teaching materials for review
Teaching sessions during Resident Rounds series	R4.1 (Oncology R4.2, Pediatrics R4.3)	Attendance and participation at all teaching/precepting related sessions during resident rounds
^d Completion or refinement of teaching/precepting philosophy	^b [Elective CA E1]	Submit teaching/precepting philosophy November 1 for feedback prior to midyear interviews; complete revised philosophy by June 1 of each academic year (emphasis can be on precepting philosophy if not pursuing an academic position).
dCompletion of teaching portfolio	^b [Elective CA E1]	Completes teaching portfolio by June 1 of each academic year

CAGOs, competency areas, goals and objectives; CA, competency area; OUCOP, OU College of Pharmacy

^aCAGOs required for PGY2 programs and formally assessed for longitudinal teaching/precepting experiences through PharmAcademic

^bElective competency area for selection of goals/objectives to add specificity or meet career interests and provide targeted feedback (optional, provided all teaching/precepting requirement areas met and assessed through required CAGOs)

^cdesignated options/activities to meet minimum requirements in the teaching areas

teaching areas that can be achieved by Residency Program Director through the residency requirements checklist instead of assessment through PharmAcademic