

Example Activities for the Required Competency Areas, Goals, and Objectives for Postgraduate Year One (PGY2) Cardiology Pharmacy Residency Programs

The example activities below are intended as a guide to help preceptors generate ideas for activities. Activities for each Objective must reflect activities that residents will be performing specific to each learning experience.

Each Objective must have **at least one** activity that facilitates the Objective's achievement.

Learning activities should include:

1. Start activity statement with an action verb that aligns with the Blooms Taxonomy level (e.g., collect).
2. Followed by a subject/object (e.g., patient information).
3. Followed by what the resident must do to achieve the associated objective for the specific practice area or learning environment (e.g., to enter patient information into EMR).

Competency Area R1: Patient Care		
Goal R1.1: Provide advanced patient care services in the practice area, following JCPP Pharmacists' Patient Care Process.		
Obj. #	Objective	Example Activities –Examples listed are intended to generate ideas when creating appropriate activities. Ensure activities are tailored to the practice site / learning environment.
R1.1.1	(Analyzing) Collect relevant comprehensive information (subjective and objective) for advanced patient care in the practice area.	- Collect pertinent information on each assigned patient from available resources (e.g., medical record, patient's nurse, caregiver, and/or patient) and securely record data. - Maintain up-to-date patient profiles consisting of relevant medical and surgical histories, physical exam findings, symptom assessment, problem list, prior and current medications, allergies, diet, laboratory and diagnostic results, and other pertinent patient data. - Perform an accurate medication history, including medication lists, changes, and adverse reactions while also incorporating patient lifestyle habits, preferences and beliefs, health and functional goals, and socioeconomic factors that affect access to medications and other aspects of care. - Identify and order appropriate laboratory tests and/or therapeutic drug monitoring parameters necessary to evaluate medication efficacy and safety. - Analyze laboratory values, medication administration, and other pertinent data prior to adjusting medications in pharmacy-managed protocols.
R1.1.2	(Evaluating) Assess clinical information collected and analyze its impact on the patient's overall health goals and any existing unmet needs within the practice area.	- Evaluate the appropriateness of current cardiovascular pharmacotherapy regimens by reviewing clinical data (e.g., labs, imaging, hemodynamics) and ensuring alignment with patient-specific health goals and guideline-directed therapy. - Assess and prioritize unresolved medication-related problems or gaps in care based on their impact on cardiovascular outcomes and patient-centered goals. - Synthesize cardiovascular therapeutic recommendations during interdisciplinary interactions by weighing risks, benefits, and competing comorbidities using current evidence-based literature and patient-specific factors.

R1.1.3	(Creating) Formulate a comprehensive patient-centered care plan, focused on medication optimization for advanced patient care in the practice area.	• Develop comprehensive, patient-centered care plans that integrate patient specific factors and preferences, comorbid conditions, and guideline-directed medical therapy options, to optimize cardiovascular outcomes. • Create stepwise titration and monitoring plans tailored to cardiovascular disease state progression and transitions of care. • Formulate revised treatment plan based on evolving clinical scenarios.
R1.1.4	(Applying) Facilitate the implementation of the comprehensive patient-centered care plan, incorporating relevant clinical optimization and/or operational processes for advanced patient care in the practice area.	• Execute comprehensive medication plans by initiating, adjusting, or discontinuing cardiovascular therapies in accordance with institutional protocols, clinical guidelines, and patient-specific factors. • Apply evidence-based interventions to address clinical needs and improve patient outcomes. • Utilize established monitoring parameters such as labs, vitals, and patient symptoms to implement follow-up plans and adjust therapy in a timely manner.
R1.1.5	(Creating) Follow-up: Monitor the progress of the comprehensive patient-centered care plan, focused on medication optimization and modify to achieve advanced patient care outcomes.	• Develop and implement follow-up strategies that include clinical data to proactively optimize cardiovascular pharmacotherapy. • Create a structured approach to assessing therapeutic efficacy and safety, incorporating patient-specific goals and evolving patient clinical status. • Design patient care plans that link ongoing monitoring with actionable interventions to achieve and sustain clinical goals.
R1.1.6	(Evaluating) Facilitate medication management continuity of care throughout care transitions.	• Evaluate admission and discharge medication lists to identify discrepancies, omissions, or duplications and resolve errors. • Evaluate discharge medication and monitoring plans for alignment with guidelines, patient-specific factors, and documented clinical goals to optimize cardiovascular outcomes. • Assess high-risk medication issues such as cost, adherence concerns, or drug interactions, that may compromise continuity of care.
R1.1.7	(Analyzing) Recognize and respond appropriately to urgent or emergent patient care situations in the practice area.	• Determine appropriate pharmacotherapy for patients experiencing acute cardiovascular emergencies and tailor therapies based on response and clinical evolution. • Analyze patient-specific clinical factors such as vitals, labs, and hemodynamics to determine potential etiologies for acute patient instability. • Examine active medication regimens and recent changes to identify drug-induced or drug-interaction related causes of acute events. • Scrutinize the appropriate utilization of cardiac medications when involved in medical emergency response.

Goal R1.2: Provide advanced patient-centered care through interacting and facilitating effective communication with patients, caregivers, and stakeholders in the practice area.		
Obj. #	Objective	Example Activities
R1.2.1	(Analyzing) Collaborate and communicate with healthcare team members to achieve patient care outcomes in the advanced practice area.	- Proactively examine medication-related issues for patients with cardiovascular disease, communicating concerns and recommendations to members of the patient care team. - Analyze and communicate evidence-based treatment for cardiac disease states in concert with the cardiology treatment team. - Demonstrates ability to intervene using supportive evidence for treatment recommendations. - Actively participate in daily patient care rounds by effectively communicating to the team relevant drug related problems and recommendations to resolve them. - Provide accurate and timely responses to drug information questions, as needed, asked by healthcare professionals. - Communicate to team members patient assessments based on review of patient information. - Demonstrate ability to communicate effectively utilizing different platforms and methodologies (both verbally and electronically). - Prioritize drug information questions from the healthcare team providing a response in a timely manner.
R1.2.2	(Applying) Interact effectively with patients and caregivers to achieve patient care outcomes in the advanced practice area.	- Provide medication education to patients, their families, and/or caregivers via in-person counseling or home visits, MTM telephonic outreach to patients, integrated healthcare, etc. - Assess patients' and/or caregivers' understanding of medication therapy and address educational needs and concerns through counseling. - Provide education for patients using visual learning resources when possible (e.g., handouts, videos, devices, etc.). - Utilize motivational interviewing techniques to establish trust and engagement with patients and caregivers.
R1.2.3	(Applying) Document patient care activities in the medical record, or where appropriate in the advanced practice area.	- Document assessment and plan for pharmacist-managed therapies (e.g., anticoagulation, antiarrhythmics, antimicrobials, etc.) in the medical record according to institutional policies. - Document relevant patient interactions in a concise, informative, and timely manner. - Document patient education activities in the electronic medical record. - Document information according to collaborative practice agreement or statewide protocol. - Document prior authorization decisions in the appropriate record system.
Goal R1.3: Evaluate the effectiveness of the medication-use system for a patient population (i.e., population health management) in the advanced practice area.		
Obj. #	Objective	Example Activities
R1.3.1	(Analyzing) Utilize population health data (e.g., dashboards, organizational health data, and/or published literature) to identify and work to close gaps(s) in medication-related	- Analyze institutional data and identify opportunities for improvement in medication-use systems. - Compare institutional performance data to published literature/best-practices and outline a plan for improvement. - Identify opportunities for creation or refinement of organization's dashboard information.

	care for individual patients in the advanced practice area.	
R1.3.2	(Evaluating) Implement or improve processes aimed at optimizing medication and/or patient safety in the advanced practice area.	- Assess medication related events for trends and areas of improvement. - Prioritize a plan to improve medication-use process based on medication and/or patient safety events.
R1.3.3	(Creating) Develop or revise and/or modify a drug class review, treatment guideline, treatment protocol/pathway, collaborative practice agreement, utilization management criteria, and/or order set in the advanced practice area.	- Identify, create, or revise a treatment guideline/protocol or pathway in the advanced practice area. - Develop a medication related order set used in the advanced practice area. - Compose drug utilization criteria for cardiovascular medications. - Develop or revise a cardiovascular drug class review.
R1.3.4	(Evaluating) Share actionable recommendations to stakeholders to improve the medication-use process in the advanced practice area.	- Disseminate a plan for improving medication–use process to key stakeholders. - Review desired outcomes of a new medication–use process to key stakeholders. - Defend the impact of recommendations to key stakeholders. - Prepare a presentation summarizing process improvement activities tailored for a multi-disciplinary audience/leadership team.
Competency Area R2: Practice Advancement		
Goal R2.1: Conduct practice advancement projects.		
Obj. #	Objective	Example Activities
R2.1.1	(Analyzing) Identify a project topic, or demonstrate understanding of an assigned project, to improve pharmacy practice, clinical care, patient safety, healthcare operations, or investigate gaps in knowledge related to patient care in the advanced practice area.	- Examine a project topic’s significance to the practice setting and related to best practices. - Choose year-long project from list provided or submit a proposal for a different project to improve clinical care, patient safety, and/or healthcare operations that can be completed within a residency year. - Conduct a literature search relevant to cardiology and draw appropriate conclusions from the literature in identifying a residency project topic and/or research question. - Identify a research project that seeks to answer a question regarding cardiovascular pharmacotherapy and/or pharmacy services that may impact cardiovascular disease.
R2.1.2	(Creating) Develop a project plan related	- Develop a project plan and obtain necessary approvals. - Develop a project plan that ensures PHI is safeguarded (follows organizational policies and procedures).

	to the advanced practice area.	• Document a project plan with proposed deadlines and ongoing revisions as necessary. • Evaluate literature review to support the design of the project. • Create a research proposal that includes a well formulated research question, objectives, background, methods for collecting data, and analytical plan for review. • Create a data collection tool specific to the research project. • Complete any required approval process (e.g., IRB) for the selected research project/quality improvement project.
R2.1.3	(Applying) Implement project plan related to the advanced practice area.	• Execute the project plan (e.g., collect data) and make appropriate adjustments as needed. • Schedule and attend regular meetings with [preceptor(s), project committee(s)] to review progress on the project plan. • Collect data or perform data management for electronic data retrieval for the assigned project.
R2.1.4	(Analyzing) Analyze project results related to the advanced practice area.	• Analyze data collected for the major project. • Perform data interpretation (i.e., recognize any errors or outliers in data). • Utilize appropriate statistical methods to analyze data.
R2.1.5	(Evaluating) Assess potential or future changes aimed at improving pharmacy practice, improvement of clinical care, patient safety, healthcare operations, or specific question related to patient care in the advanced practice area.	• Identify future questions based on the impact of the project. • Identify limitations of the project and potential modifications or changes for the future. • Assess potential changes based on results for assigned project. • Engage with project team and key stakeholders to assess need for changes based on project results.
R2.1.6	(Creating) Develop and present a final report related to the advanced practice area.	• Document and present report for the assigned project to key internal stakeholders. • Present project at a regional residency conference or other specified forum as determined by research project committee and RPD. • Present project to audiences external to the pharmacy department. • Document a project report using an accepted manuscript style suitable for publication in professional literature.
COMPETENCY AREA R3: Leadership and Management		
Goal R3.1: Demonstrate skills necessary for the successful leadership and effective management in the advanced practice area.		
Obj. #	Objective	Example Activities
R3.1.1	(Applying) Engage in practice management of the advanced practice area.	• Identify gaps in quality metrics to improve patient care. • Develop a plan to address gaps in patient care quality metrics. • Develop or revise an order set, policy, or guideline used in the care of patients in the advanced practice area. • Identify solutions to resolve medication safety concerns related to the care of patients in the advanced practice area. • Communicate relevant changes or initiatives related to medication safety to staff pharmacists, technicians, or other health care providers as applicable.

		- Plan a meeting agenda for pharmacy staff or multidisciplinary meeting. - Lead a meeting or an agenda item discussion for pharmacy staff or multidisciplinary meeting. - Construct a plan to address identified areas for improvement in the practice area (e.g., quality metrics, patient safety, or other relevant area) and discuss with pharmacy leaders. - Review organization's and/or pharmacy's strategic plan and describe the process for assessing the pharmacy department's current and future needs to inform future plans.
Goal R3.2: Demonstrate leadership skills that foster personal growth.		
Obj. #	Objective	Example Activities
R3.2.1	(Applying) Demonstrate personal and interpersonal skills necessary for effective leadership in the advanced practice area.	- Utilize feedback from performance evaluations (e.g., presentations, rotations, etc.) to develop an action plan to improve performance. - Communicate identified performance gaps and strengths with a learner to improve their performance. - Demonstrate effective prioritization and time management of decentralized pharmacist roles/responsibilities. - Balance clinical and precepting responsibilities to ensure patient care tasks are completed while providing education to APPE or PGY1 resident learners. - Complete self-assessments in preparation for the development plan. - Identify clinical knowledge gaps and develop an action plan to help address/close knowledge gaps. - Identify administrative and/or project management knowledge and skill gaps and develop an action plan to help address/close the skill gaps.
Goal R3.3: Engage in professional development.		
Obj. #	Objective	Example Activities
R3.3.1	(Applying) Engage in professional activities external to the organization that relate to the advanced practice area.	- Participate in the state's pharmacy association legislation day. - Engage in local, state, or national professional society activities (e.g., become a committee member, provide continuing education, share research results, create a peer-reviewed social media post, volunteer to mentor, etc.). - Participate in a health fair or community-based program related to the care of patients with or at-risk for cardiovascular disease (e.g., health screening programs, community educational programs, etc.).
Competency Area R4: Teaching and Education		
Goal R4.1: Provide effective medication and practice-related education.		
Obj. #	Objective	Example Activities
R4.1.1	(Creating) Create educational content and activities for the target audience using knowledge in the advanced practice area.	- Prepare an evidence-based in-service or topic discussion for the preceptor, medical team, pharmacy department, or nursing staff. - Design a rotation learning experience for an advanced pharmacy practice experience in cardiology. - Prepare and/or redesign an in-service to nurses on an assigned topic. - Prepare an evidence-based CE accredited presentation for pharmacy staff. - Prepare an evidence-based presentation for a multidisciplinary audience. - Design and/or redesign a disease specific patient education program. - Prepare a journal club discussion. - Prepare a presentation on cardiology-related practice to students and/or non-graduated pharmacists. - Construct a set of educational activities for APPE and/or IPPE students.
R4.1.2	(Creating) Create written	Write a newsletter article for [FILL IN SPECIFIC AUDIENCE/DISTRIBUTION] (e.g., pharmacy department, health-system newsletter, providers).

	communication to disseminate knowledge in the advanced practice area.	• Prepare a written summary of an assigned journal article and disseminate content to an external audience. • Prepare a written presentation as a stand-alone educational resource for dissemination. • Write patient education materials (e.g., brochure, handout). • Write educational materials for health care providers (e.g., newsletter, medication or disease management update). • Write educational materials for pharmacists (e.g., guideline update). • Apply elements of the cardiology pharmacy residency program design to write a rotation learning description with assessments.
R4.1.3	(Creating) Create and deliver verbal communication to disseminate knowledge in the advanced practice area.	• Present an evidence-based in-service on assigned topic for pharmacy staff. • Present an in-service to nurses on an assigned topic. • Present an evidence-based CE accredited presentation for pharmacy staff. • Present an evidence-based presentation for a multidisciplinary audience. • Present a disease specific patient education program. • Lead a journal club discussion. • Facilitate an educational discussion with APPE and/or IPPE students on assigned topics.
R4.1.4	(Evaluating) Implement audience assessment methods and self-assess that educational activities meet the learning goals.	• Verbally assess learner understanding at the end of a small discussion. • Write assessment and/or test questions to evaluate effectiveness of learning activity. • Develop and implement an assessment form to gather feedback for a presentation. • Evaluate learner retention of a prior learning experience and application in subsequent activities. • Poll audience during a presentation for engagement and assessment of educational effectiveness. • Respond to learner self-assessments by reinforcing educational objectives/topics during a presentation to aid in learning. • Assess learning activity evaluations to reflect on efficacy of appropriate educational content and/or presentation skills. • Assess the effectiveness of a precepting activity. • Evaluate learning outcomes using an objective structured clinical examination.
Goal R4.2: Provide professional and practice-related training to support progression of learners' skills.		
Obj. #	Objective	Example Activities
R4.2.1	(Evaluating) Employ appropriate preceptor role(s) for learning scenarios in the advanced practice area.	• Evaluate the learner's current level of knowledge and/or skill and the type of preceptorship needed. • Implement and adapt the appropriate preceptor role(s) (instructing, modeling, coaching, or facilitating) for a given situation. • Model best practices in pharmacist performance and behavior. • Determine appropriate criteria for increasing learner autonomy. • Assess effectiveness of precepting and adjust to meet learner-specific needs • Effectively serve as a primary preceptor of record for an advanced pharmacy practice experience. • Develop a successful strategy for engaging learners in practice-based teaching.

R4.2.2	(Evaluating) Provide feedback and contribute to the evaluation of the learner in the advanced practice area.	• Identify and act on opportunities to deliver timely, specific, and actionable formative feedback to learners. • Adequately prepare to deliver summative feedback in an effective manner. • Lead a summative feedback session that includes verbal delivery of observations, elicits learner self-reflection, and sets goals for the remainder of the learning experience. • Independently complete a written learning experience evaluation and review with preceptor prior to formal submission.
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