



## Evidence of Residents' Completion of CAGO Requirements

Required Evidence for each program type is outlined on the following pages. Programs types are arranged in alphabetical order as listed below.

Please compile required **Evidence** and upload to Fabric or PharmAcademic™ (see **Instructions for Submitting Evidence of Residents' Completion of CAGO Requirements**)

PGY1 – for programs surveyed before July 1, 2024

[PGY1 Pharmacy](#)

[PGY1 Community-Based Pharmacy](#)

[PGY1 Managed Care Pharmacy](#)

[PGY1 Harmonized](#) - for programs surveyed after July 1, 2024

PGY2

[Ambulatory Care](#) - Effective 2017

[Cardiology](#) - Effective 2017

[Clinical Pharmacogenomics](#) - Effective 2018

[Critical Care](#) - Effective 2017

[Emergency Medicine](#) - Effective 2018

[Geriatric](#) - Effective 2017

[Health-System Pharmacy Administration and Leadership \(HSPAL\)](#) - Effective 2019

[Community-Based Pharmacy Administration and Leadership](#) - Effective 2019

[Specialty Pharmacy Administration and Leadership](#) - Effective 2019

[Corporate Pharmacy Administration and Leadership](#) - Effective 2021

[Infectious Diseases](#) - Effective 2017

[Informatics](#) - Effective 2017

[Internal Medicine](#) - Effective 2017

[Investigational Drugs and Research](#) - Effective 2020

[Medication-Use Safety and Policy](#) - Effective 2019

[Neurology](#) - Effective 2018

[Oncology](#) - Effective 2016

[Pain Management and Palliative Care](#) - Effective 2018

[Pediatric](#) - Effective 2016

    Pediatric Pathway in Critical Care – Effective 2023

    Pediatric Pathway in Oncology– Effective 2023

[Pharmacotherapy 12 Month](#) - Effective 2017

[Pharmacotherapy 24 Month](#) - Effective 2018

[Population Health Management and Data Analytics](#) - Effective 2020

[Psychiatric](#) - Effective 2017

[Solid Organ Transplant](#) - Effective 2018

[Thrombosis and Hemostasis Management](#): Demonstration PGY2 - Effective 2022

**PGY1 Programs scheduled to be surveyed BEFORE July 1, 2024**, should submit the following Evidence based on your program type (Pharmacy, Community-Based, Managed Care) described in the following pages.

**PGY1 Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans). (Applying) Document direct patient care activities appropriately in the medical record or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare a drug class review, monograph, treatment guideline, or protocol.	Examples of resident developed drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Applying) Participate in a medication-use evaluation.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.3	(Analyzing) Identify opportunities for improvement of the medication-use system.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.5	(Creating) Effectively develop and present, orally and in writing, a final project report.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.3	(Applying) Contribute to departmental management.	Examples of resident contribution to departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education	Examples of assessment of effectiveness of resident presentation/education.

**PGY1 Community-Based Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>	
1.1.3	(Valuing and Analyzing) Collect relevant subjective and objective information for the provision of individualized patient care.	<p>For Each Resident - Printed copies of at least five recent samples of de-identified patient healthcare records for all required services (see Standard 3.3.c). Records should demonstrate the ability of the resident to assess patients, collection information, identify medication- related problems, prioritize problems, establish therapeutic goals, and design evidence-based treatment plans.</p> <p>Samples of other written communications or records related to:</p> <ul style="list-style-type: none"> <li>- resident's written plan for meeting the educational needs of a specific patient;</li> <li>- resident's written recommendation to a caregiver;</li> <li>- resident prescribed, administered, and/or monitored medications;</li> <li>- resident's communications with another provider to improve a specific patient's treatment plan; and/or;</li> <li>resident's referral of the patient to another provider.</li> </ul>	
1.1.4	(Analyzing) Analyze and assess information collected and prioritize problems for provision of individualized patient care.		
1.1.5	(Valuing and Creating) Design a safe and effective individualized patient centered care plan in collaboration with other health care professionals, the patient, and caregivers.		
1.1.6	(Applying) Implement the care plan in collaboration with other health care professionals, the patient, and caregivers.		
1.1.7	(Evaluating) Monitor and evaluate the effectiveness of the care plan and modify the plan in collaboration with other health care professionals, the patient, and caregivers as required.		
1.1.8	(Valuing and Applying) Collaborate and communicate effectively with patients, family members, and caregivers.		
1.1.9	(Valuing and Applying) Collaborate and communicate effectively with other health care team members.		
1.1.10	(Applying) Document patient care activities appropriately and efficiently		
1.3.1	(Analyzing) Identify needs of individual patients experiencing care transitions.		<p>For Each Resident - Resident's communication of information to health care professionals when transferring a patient from one health care setting to another.</p>
1.3.2	(Applying) Manage and facilitate care transitions between patient care settings.		
2.1.2	(Applying) Participate in organizational level management activities, functions, and/or decision-making.	<p>For Each Resident - Evidence of the resident's contributions to the Pharmacy planning process. Evidence of the Resident's contribution from leading or working as a member of a committee or informal work group.</p>	
2.1.4	(Creating) Evaluate an existing, or develop a new collaborative practice agreement, standing order, or implementation process for a state-based protocol to expand the scope of practice for community-based pharmacists.	<p>For Each Resident - Resident's written collaborative practice agreement, standing order or implementation process for a state-based protocol. Note: This may be a new or a significantly modified collaborative practice agreement which is either real or hypothetical</p>	
2.2.4	(Valuing and Applying) Demonstrate commitment to the profession through active participation in the activities of a national, state, and/or local professional association.	<p>For Each Resident - List of residents' activities at a national, state and/or local professional association during the residency.</p>	
2.2.5	(Valuing and Applying) Demonstrate commitment to the community through service.	<p>For Each Resident - Evidence of the residents' community service during the residency.</p>	

3.1.1	(Creating) Identify the need and develop a plan for a quality improvement project focused on the medication-use process and/or patient care services.	For Each Resident - Resident's plan/proposal for a quality improvement project focused on the medication-use process and/or patient care services.
3.1.2	(Applying) Implement a quality improvement project	For Each Resident - Evidence of the resident's implementation of a quality improvement project.
3.1.3	(Evaluating) Evaluate the impact of a quality improvement project.	For Each Resident - Resident's evaluation of the quality improvement project.
3.2.1	(Creating) Identify the need and develop a business plan for a new or enhanced service	For Each Resident - Resident's written business plan for new service or appraisal and plan for enhancement of existing service.
3.2.2	(Applying) Implement the planned new or enhanced service.	For Each Resident - Evidence of the resident's implementation of a new or enhanced service.
3.2.3	(Evaluating) Evaluate the new or enhanced service to determine if it meets the stated goals and is sustainable.	For Each Resident - Resident's evaluation of the new or enhanced service.
3.3.1	(Creating) Identify and design a practice-related project significant to community-based practice.	For Each Resident - Written design for resident's practice-related project.
3.3.2	(Applying) Implement a practice-related project significant to community-based practice.	For Each Resident - Resident's project implementation strategy. NOTE: May combine with documentation related to educational objective R3.3.1.
3.3.3	(Evaluating) Accurately assess the impact of the practice-related project including sustainability, if applicable.	For Each Resident - Resident's evaluation of the practice-related project.
3.3.4	(Responding and Creating) Effectively develop and present, orally and in writing, a final project report.	For Each Resident - Resident's completed final written project report. NOTE: Final project report is also presented orally to fully meet this objective.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education programs to targeted audiences including patients, caregivers, and members of the community; health profession students; pharmacists; and other health care professionals.	For Each Resident - Samples of presentations (slides or handouts) to groups of patients, groups of caregivers, health care professionals (including physicians, nurses, pharmacists and other providers), students and the public. (NOTE: Samples include topic name, presenter, dates and audience.) Samples of evaluations from participants and preceptors, if available.
4.1.3	(Applying) Develop effective written communication skills to provide educational information to multiple levels of learners including patients, caregivers, and members of the community; health profession students; pharmacists; and other health care professionals.	For Each Resident- Two examples of resident's written materials to provide educational information to multiple levels of learners including patients, caregivers, and members of the community; health profession students; pharmacists; and other health care professionals. (NOTE: Do not include presentations submitted for educational objective R4.1.2 above.)
4.2.2	(Analyzing) Provide appropriate and timely formative and summative feedback and ensure learner understands the feedback during experiential learning.	For Each Resident - Two examples of the resident's written formative and summative feedback developed by the resident and provided to a learner.

**PGY1 Managed Care Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.10	(Valuing and Creating) Design a safe and effective individualized patient centered care plan in collaboration with other health care professionals, the patient, and caregivers.  (Applying) Document patient care activities appropriately and efficiently.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. If more than 1 current resident, the sample submitted should include care plans and other notes from several current residents. Do not submit more than 10 notes total.
1.3.4	(Evaluating) Assess how the organization utilizes appropriate and ongoing measures to assess patient satisfaction levels with services provided at network retail, mail order, and specialty pharmacies.	Examples of resident assessment of organizations assessment of patient satisfaction.
1.4.1	(Valuing and Applying) Design and/or deliver programs for members that focus on health improvement, wellness, and disease prevention (e.g., immunizations, health screenings).	Examples of programs designed or delivered by resident.
1.4.2	(Valuing and Applying) Design and/or deliver programs for members that support quality measures to improve outcomes of medication therapy.	Examples of programs designed or delivered by resident.
2.1.2	(Applying) Participate in organizational level management activities, functions, and/or decision-making.	Examples of resident contribution to pharmacy departmental management of issue.
2.1.4	(Creating/Evaluating) Evaluate an existing collaborative practice agreement or, if not available, create a new one, in order to understand the implementation process for a state-based protocol to expand the scope of practice for pharmacists.	Examples of resident evaluated or developed collaborative practice agreement.
2.2.4	(Applying) Demonstrate commitment to the profession through active participation in the activities of a national, state, and/or local professional association.	Examples of resident's participation in a professional organization.
3.1.2	(Creating) Prepare a drug class review or monograph	Examples of resident developed drug class review or monograph.

3.1.4	(Creating) Develop and implement clinically appropriate utilization management criteria (e.g. Prior Authorization, Step Therapy, Quantity Limits, and Drug Utilization Review (DUR) edits to enhance patient care.	Examples of resident developed UM criteria.
3.1.6	(Evaluating) Participate in the organization's process for evaluating the impact of implementation of formulary and/or utilization management changes on patient care.	Examples of resident evaluation of impact of implementation of formulary or UM changes.
3.2.2	(Creating): Design or update an existing clinical program.	Examples of resident developed or updated clinical program.
3.4.4	(Creating) Effectively develop and present, orally and in writing, a final project report.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education programs to targeted audiences including patients, caregivers, and members of the community; health profession students; pharmacists; and other health care professionals.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Develop effective written communication skills to provide educational information to multiple levels of learners including patients, caregivers, and members of the community; health profession students; pharmacists; and other health care professionals.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Evaluating) Appropriately assess effectiveness of education.	Examples of assessment of effectiveness of resident presentation/education.

**PGY1 Programs- ALL TYPES - scheduled to be surveyed AFTER July 1, 2024:**

**ALL PGY1 Residencies (Harmonized CAGOs)**

- PGY1 Pharmacy
- PGY1 Community-Based Pharmacy
- PGY1 Managed Care Pharmacy

**Evidence of Residents' Completion of CAGO Requirements with Guidance**

COMPETENCY AREA	OBJECTIVE	<b>PGY1 Pharmacy</b>	<b>PGY1 Community-Based Pharmacy</b>	<b>PGY1 Managed Care Pharmacy</b>
Competency Area R1: Patient Care	Objective R1.4.2	<u>Deliverable:</u> Drug class review, monograph, treatment guideline, treatment protocol, utilization management criteria, and/or order set.	<u>Deliverable:</u> Drug class review, monograph, treatment guideline, treatment protocol, utilization management criteria, and/or order set.	<u>Deliverable:</u> Drug class review, monograph, treatment guideline, treatment protocol, utilization management criteria, and/or order set.
		<u>Guidance:</u> Completion requirements must include one of the above; programs may set their completion requirements higher.	<u>Guidance:</u> Completion requirements must include one of the above; programs may set their completion requirements higher.	<u>Guidance:</u> Completion requirements must include three of the above with at least two being different (e.g., two drug monographs and one utilization management criteria development). Programs may set their completion requirements higher.
Competency Area R2: Practice Advancement	Objective R2.1.2	<u>Deliverable:</u> Develop a project plan as defined in the Objective and Criteria.	<u>Deliverable:</u> Develop a project plan as defined in the Objective and Criteria. In addition, residents must develop a business plan for a new or enhanced service.	<u>Deliverable:</u> Develop a project plan as defined in the Objective and Criteria.
	Objective R2.1.6	<u>Deliverable:</u> Project report(s) for at least two projects: <ul style="list-style-type: none"> <li>• Major project</li> <li>• Second project</li> </ul>	<u>Deliverable:</u> Project report(s) for at least two projects: <ul style="list-style-type: none"> <li>• Major project</li> <li>• Second project</li> </ul>	<u>Deliverable:</u> Project report(s) for at least two projects: <ul style="list-style-type: none"> <li>• Major project</li> <li>• Second project</li> </ul>

		<p><b>Guidance:</b> Each resident is required to complete a major project; defined as a longitudinal project with significant breadth intended to advance pharmacy practice. All Objectives (2.1.1-2.1.6) must be assigned to be taught and evaluated for the major project. Project reports for the major project include both:</p> <ul style="list-style-type: none"> <li>Platform style or poster presentation to an external audience (e.g., regional residency conference or comparable professional meeting).</li> <li>Written report (e.g., manuscript and/or formal written report suitable for invested parties).</li> </ul> <p>The second project report summarizes work on another project which can be major or minor in scope. Examples of minor projects include MUE, clinical program development/enhancement/analysis, pipeline forecast, cost or budget analysis, quality assurance (e.g., HEDIS, STARS). The following objectives must be assigned to the learning experience where the second project is taught and evaluated:</p> <ul style="list-style-type: none"> <li>Objective R2.1.2: (Creating) Develop a project plan.</li> <li>Objective R2.1.6: (Creating) Develop and present a final report.</li> </ul>		
Competency Area R4: Teaching and Education	Objectives R4.1.1, R4.1.2, and R4.1.3	<p><b>Deliverable:</b> Completion requirements must include one verbal and one written example; programs may set their completion requirements higher.</p>	<p><b>Deliverable:</b> Completion requirements must include one verbal and one written example; programs may set their completion requirements higher.</p>	<p><b>Deliverable:</b> Completion requirements must include one verbal and one written example; programs may set their completion requirements higher.</p>
		<p><b>Guidance:</b></p> <ul style="list-style-type: none"> <li>Verbal presentation (e.g., audiovisual / slides, presentation handout).</li> <li>Written example may include of any of the following: <ul style="list-style-type: none"> <li>Patient education (e.g., brochure, handout)</li> <li>Education to health care provider (e.g., newsletter, medication or disease management update)</li> <li>Education to pharmacists (e.g., guideline update)</li> </ul> </li> </ul>		
Appendix		<p>The PGY1 Harmonized CAGOs <u>do not include</u> an Appendix for PGY1 Pharmacy programs. Therefore, the Accreditation Standard 3.1.b.1.b does not apply.</p>	<p>The PGY1 Harmonized CAGOs <u>do not include</u> an Appendix for PGY1 Community-based programs. Therefore, the Accreditation Standard 3.1.b.1.b does not apply.</p>	<p>The PGY1 Harmonized CAGOs <u>includes</u> an <u>Appendix for PGY1 Managed Care</u> programs. Therefore, the Accreditation Standard 3.1.b.1.b is required and must be applied to meet the Standard. See the Appendix to the CAGOs.</p>



## PGY2 Ambulatory Care Pharmacy Residencies

### Evidence of Residents' Completion of CAGO Requirements

Objective #	Objective	Deliverable
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for ambulatory care patients.  (Applying) Document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
1.2.1	(Applying) Design and/or deliver programs for patients that focus on health improvement, wellness, and disease prevention (e.g., immunizations, health screenings).	Examples of resident participation in the design or delivery of patient programs focusing on health improvement, wellness and disease prevention.
2.1.1	(Creating) Prepare or revise a protocol (e.g., work flow, scope of practice, collaborative practice agreement, or clinical practice protocols) related to ambulatory care.	Examples of resident participation in the preparation or revision of a protocol.
2.1.2	(Applying) Contribute to the development of a new ambulatory care pharmacy service or to the enhancement of an existing service.	Examples of resident participation in the development of a new ambulatory care pharmacy service or to the enhancement of an existing service.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project report suitable for publication.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver ambulatory care related education to pharmacy or interprofessional attendees, including complex topics to expert drug therapy audiences.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to ambulatory care.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Assess effectiveness of education related to ambulatory care.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Cardiology Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for patients with cardiovascular diseases.  (Applying) For patients with cardiovascular diseases, document direct patient care activities appropriately in the medical record, or where appropriate	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of patients with cardiovascular diseases.	Examples of a resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.3	(Analyzing) Identify opportunities for medication-use system improvements related to care for patients with cardiovascular diseases.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6  2.2.7	(Creating) Effectively present the results of a cardiovascular diseases-related project.  (Creating) Use correct grammar, punctuation, spelling, style, and formatting conventions to prepare a written summary of a cardiovascular diseases-related project.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to pharmacy departmental management of issues related to the care of patients with cardiovascular disease.	Examples of resident contribution to pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to cardiovascular diseases.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to cardiovascular diseases.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to cardiovascular diseases.	Examples of assessment of effectiveness of resident presentation/education.
5.1.1	(Applying) Demonstrate understanding of the management of cardiovascular diseases medical emergencies according to the organization's policies and procedures.	Examples of resident achievement of ACLS certification (or equivalent)

**PGY2 Clinical Pharmacogenomics Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans). (Applying) Document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to pharmacogenomics, including proposals for medication-safety technology improvements.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Applying) Participate in the review of medication event reporting and monitoring related to pharmacogenomics.	Examples of resident participation in the review of medication event reporting and monitoring.
2.1.4	(Analyzing) Identify opportunities for improvement of the medication-use system related to pharmacogenomics.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication related to pharmacogenomics or for a topic related to advancing the pharmacy profession at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to pharmacogenomics or pharmacy departmental management.	Examples of resident contribution to pharmacogenomics or pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to pharmacogenomics.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to pharmacogenomics.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to pharmacogenomics.	Examples of assessment of effectiveness of resident presentation/education.
5.1.2	(Creating) Develop a strategy for earning credibility within the organization to be an authoritative resource on pharmacogenomics.	Examples of resident's strategy for earning credibility within the organization to be an authoritative resource on pharmacogenomics, if applicable.

**PGY2 Community-Based Pharmacy Administration and Leadership (CBPA-L) Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.1	(Evaluating) Based on one's assessment of the scope of the pharmacy's current services, identify any service opportunities.	Examples of a resident participation in identification of service opportunities.
1.2.2	(Evaluating) Based on an assessment of the adequacy of the pharmacy's current system for inventory control, make any needed recommendations for improvement.	Examples of a resident participation in identification of opportunities in inventory control, if applicable.
1.4.3	(Creating) Based on assessment of the pharmacy's medication use systems, contribute any needed recommendations for improvement.	Examples of a resident participation in the identification of opportunities for improvement of the pharmacy's medication use systems, if applicable.
1.5.2	(Creating) Design and implement an improvement related to the use of information technology and automated systems.	Examples of a resident participation in the design and implementation of an improvement related to the use of information technology and automated systems.
1.6.1	(Creating) Create a proposal for a population health management service.	Examples of a resident creation of a proposal for a population health management service.
2.1.1	(Applying) Participate in an assessment of customer satisfaction with a specific aspect of pharmacy services.	Examples of a resident participation in an assessment of patient satisfaction.
2.2.1	(Applying) Participates in medication safety oversight programs.	Examples of a resident participation in medication safety oversight programs, if applicable.
2.2.2	(Evaluating) Lead a root cause analysis, gap analysis, or other safety assessments based on a significant patient safety event.	Examples of a resident participation in RCA or equivalent.
2.2.3	(Creating) Participate in the development or revision of the pharmacy's quality improvement plan or policy.	Examples of a resident participation in the development or revision of the pharmacy's quality improvement plan or policy.
3.2.1	(Analyzing) Participates in the operating budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the operating budget process.
3.2.2	(Analyzing) Participate in a capital budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the capital budget process.
3.2.3	(Analyzing) Participate in the monitoring of financial performance and explanation of variances.	Examples of a resident participation in the monitoring of financial performance, if applicable.
3.4.3	(Creating) Design and implement a cost reduction or inventory management initiative.	Examples of a resident participation in the design and implementation of a cost reduction or inventory management initiative.
3.5.3	(Analyzing) Participate in third-party contract management activities.	Examples of a resident participation in third-party contract management activities.

4.1.1	(Evaluating) Determine and recommend the staff requirements that match an area of the department's scope of services.	Examples of a resident participation in the determination of the staff requirements that match an area of the department's scope of services.
4.2.1	(Creating) Use knowledge of the organization's customary practice to write or revise a job description for a pharmacy position.	Examples of a resident participation in writing or revising a job description.
4.3.2	(Creating) Compose and deliver an employee's performance appraisal.	De-identified examples of a resident participation in the composition and delivery of a performance appraisal.
4.3.3	(Applying) Participate in the organization's progressive discipline process or participate in a progressive discipline case or scenario, if not available.	De-identified examples of a resident participation in the progressive discipline process, if applicable.
5.1.1	(Creating) Create a professional development plan with the goal of improving the quality of one's own performance through self-assessment and personal change.	Examples of a resident participation in their professional development plan.
5.3.2	(Creating) Contribute to the development of a business plan for a new or enhanced pharmacy service or program.	Examples of a resident participation in the development of a business plan for a new or enhanced pharmacy service or program.
5.4.1	(Creating) Lead departmental and/or interdisciplinary teams in the design, implementation, and/or enhancement of the organization's medication-use process.	Examples of a resident participation in the design, implementation, and/or enhancement of the organization's medication-use process.
5.4.4	(Applying) Present to an appropriate audience an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.	Examples of a resident participation in a presentation an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.
5.5.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication at a local, regional, or national conference (the presentation may be virtual).	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
6.1.2	(Creating) Participate in the implementation of a public health initiative with community partner(s).	Examples of a resident participation in the implementation of a public health initiative with community partner(s).

**PGY2 Corporate Pharmacy Administration and Leadership (CPA-L) Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.1	(Evaluating) Based on one's assessment of the scope of the pharmacy's current services, identify any service opportunities.	Examples of a resident participation in identification of service opportunities.
1.2.2	(Evaluating) Based on an assessment of the adequacy of the pharmacy's current system for inventory control, make any needed recommendations for improvement.	Examples of a resident participation in identification of opportunities in inventory control, if applicable.
1.4.3	(Creating) Based on assessment of the pharmacy's medication use systems, contribute any needed recommendations for improvement.	Examples of a resident participation in the identification of opportunities for improvement of the pharmacy's medication use systems, if applicable.
1.5.2	(Creating) Design and implement an improvement related to the use of information technology and automated systems.	Examples of a resident participation in the design and implementation of an improvement related to the use of information technology and automated systems.
2.1.1	(Applying) Participate in an assessment of customer satisfaction with a specific aspect of pharmacy services.	Examples of a resident participation in an assessment of patient satisfaction.
2.2.1	(Applying) Participates in medication safety oversight programs.	Examples of a resident participation in medication safety oversight programs, if applicable.
2.2.2	(Evaluating) Lead a root cause analysis, gap analysis, or other safety assessments based on a significant patient safety event.	Examples of a resident participation in RCA or equivalent.
2.2.3	(Creating) Participate in the development or revision of the pharmacy's quality improvement plan or policy.	Examples of a resident participation in the development or revision of the pharmacy's quality improvement plan or policy.
3.2.1	(Analyzing) Participates in the operating budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the operating budget process.
3.2.2	(Analyzing) Participate in a capital budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the capital budget process.
3.2.3	(Analyzing) Participate in the monitoring of financial performance and explanation of variances.	Examples of a resident participation in the monitoring of financial performance, if applicable.
3.4.3	(Creating) Design and implement a cost reduction or inventory management initiative.	Examples of a resident participation in the design and implementation of a cost reduction or inventory management initiative.
4.1.1	(Evaluating) Determine and recommend the staff requirements that match an area of the department's scope of services.	Examples of a resident participation in the determination of the staff requirements that match an area of the department's scope of services.

4.2.1	(Creating) Use knowledge of the organization's customary practice to write or revise a job description for a pharmacy position.	Examples of a resident participation in writing or revising a job description.
4.3.2	(Creating) Compose and deliver an employee's performance appraisal.	De-identified examples of a resident participation in the composition and delivery of a performance appraisal.
4.3.3	(Applying) Participate in the organization's progressive discipline process or participate in a progressive discipline case or scenario, if not available.	De-identified examples of a resident participation in the progressive discipline process, if applicable.
5.1.1	(Creating) Create a professional development plan with the goal of improving the quality of one's own performance through self-assessment and personal change.	Examples of a resident participation in their professional development plan.
5.3.2	(Creating) Contribute to the development of a business plan for a new or enhanced pharmacy service or program.	Examples of a resident participation in the development of a business plan for a new or enhanced pharmacy service or program.
5.4.1	(Creating) Lead departmental and/or interdisciplinary teams in the design, implementation, and/or enhancement of the organization's medication-use process.	Examples of a resident participation in the design, implementation, and/or enhancement of the organization's medication-use process.
5.4.4	(Applying) Present to an appropriate audience an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.	Examples of a resident participation in a presentation an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.
5.5.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication at a local, regional, or national conference (the presentation may be virtual).	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
6.3.2	(Creating) Prepares a strategy for effectively communicating to external stakeholders regarding design and/or changes to strategy related to a service or product.	Examples of resident's preparation of a strategy for effectively communicating to external stakeholders regarding design and/or changes to strategy related to a service or product.
6.4.2	(Creating) Contributes to the customization of a strategy or service so that it meets the requirements of external stakeholders.	Examples of resident's contribution to the customization of a strategy or service so that it meets the requirements of external stakeholders.
6.4.3	(Creating) Design a strategy for transitioning or moving market share as a result of an initiative related to a service or product.	Examples of resident's design of a strategy for transitioning or moving market share as a result of an initiative related to a service or product.
6.4.4	(Applying) Participate in the organization's process for ongoing evaluation of the impact the service/product or clinical strategy	Examples of resident's participation in the organization's process for ongoing evaluation of the impact the service/product or clinical strategy

**PGY2 Critical Care Pharmacy Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for critically ill patients.  (Applying) For critically ill patients, document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of critically ill patients, including proposals for medication-safety technology improvements.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Evaluating) Participate in a medication-use evaluation related to care for critically ill patients.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.4	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for critical care patients.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication related to care for critically ill patients or for a topic related to advancing the pharmacy profession or critical care pharmacy at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to critical care pharmacy departmental management.	Examples of resident contribution to critical care pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to critical care pharmacy.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to critical care pharmacy.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to critical care pharmacy.	Examples of assessment of effectiveness of resident presentation/education.



**PGY2 Emergency Medicine Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans). (Applying) Communicate and document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Analyzing) Identify opportunities for improvement of the medication-use system.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to departmental management.	Examples of resident contribution to departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education.	Examples of assessment of effectiveness of resident presentation/education.
5.1.1	R5.1.1: (Applying) Demonstrate the essential role of the emergency pharmacist in the management of medical emergencies.	Examples of resident achievement of ACLS certification (or equivalent).

**PGY2 Geriatric Pharmacy Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

Objective #	Objective	Deliverable
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for geriatric patients.  (Applying) For geriatric patients, document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of geriatric patients, including proposals for medication-safety technology improvements.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.3	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for geriatric patients.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication related to care for geriatric patients or for a topic related to advancing the pharmacy profession or geriatric pharmacy at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to geriatric pharmacy.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to geriatric pharmacy.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to geriatric pharmacy.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 HSPA-L Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.1	(Evaluating) Based on one's assessment of the scope of the pharmacy's current services, identify any service opportunities.	Examples of a resident participation in identification of service opportunities.
1.2.2	(Evaluating) Based on an assessment of the adequacy of the pharmacy's current system for inventory control, make any needed recommendations for improvement.	Examples of a resident participation in identification of opportunities in inventory control, if applicable.
1.4.3	(Creating) Based on assessment of the pharmacy's medication use systems, contribute any needed recommendations for improvement.	Examples of a resident participation in the identification of opportunities for improvement of the pharmacy's medication use systems, if applicable.
1.5.2	(Creating) Design and implement an improvement related to the use of information technology and automated systems.	Examples of a resident participation in the design and implementation of an improvement related to the use of information technology and automated systems.
2.1.1	(Applying) Participate in an assessment of customer satisfaction with a specific aspect of pharmacy services.	Examples of a resident participation in an assessment of patient satisfaction.
2.2.1	(Applying) Participates in medication safety oversight programs.	Examples of a resident participation in medication safety oversight programs, if applicable.
2.2.2	(Evaluating) Lead a root cause analysis, gap analysis, or other safety assessments based on a significant patient safety event.	Examples of a resident participation in RCA or equivalent.
2.2.3	(Creating) Participate in the development or revision of the pharmacy's quality improvement plan or policy.	Examples of a resident participation in the development or revision of the pharmacy's quality improvement plan or policy.
3.2.1	(Analyzing) Participates in the operating budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the operating budget process.
3.2.2	(Analyzing) Participate in a capital budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the capital budget process.
3.2.3	(Analyzing) Participate in the monitoring of financial performance and explanation of variances.	Examples of a resident participation in the monitoring of financial performance, if applicable.
3.4.3	(Creating) Design and implement a cost reduction or inventory management initiative.	Examples of a resident participation in the design and implementation of a cost reduction or inventory management initiative.
4.1.1	(Evaluating) Determine and recommend the staff requirements that match an area of the department's scope of services.	Examples of a resident participation in the determination of the staff requirements that match an area of the department's scope of services.

4.2.1	(Creating) Use knowledge of the organization's customary practice to write or revise a job description for a pharmacy position.	Examples of a resident participation in writing or revising a job description.
4.3.2	(Creating) Compose and deliver an employee's performance appraisal.	De-identified examples of a resident participation in the composition and delivery of a performance appraisal.
4.3.3	(Applying) Participate in the organization's progressive discipline process or participate in a progressive discipline case or scenario, if not available.	De-identified examples of a resident participation in the progressive discipline process, if applicable.
5.1.1	(Creating) Create a professional development plan with the goal of improving the quality of one's own performance through self-assessment and personal change.	Examples of a resident participation in their professional development plan.
5.3.2	(Creating) Contribute to the development of a business plan for a new or enhanced pharmacy service or program.	Examples of a resident participation in the development of a business plan for a new or enhanced pharmacy service or program.
5.4.1	(Creating) Lead departmental and/or interdisciplinary teams in the design, implementation, and/or enhancement of the organization's medication-use process.	Examples of a resident participation in the design, implementation, and/or enhancement of the organization's medication-use process.
5.4.4	(Applying) Present to an appropriate audience an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.	Examples of a resident participation in a presentation an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.
5.5.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication at a local, regional, or national conference (the presentation may be virtual).	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.

**PGY2 Infectious Diseases Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for infectious diseases patients.  (Applying) For infectious diseases patients, document direct patient care activities appropriately in the medical record or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
1.3.2	(Applying) Participate in the institution's antimicrobial stewardship program	Examples of resident participation in the antimicrobial stewardship program.
1.3.3	(Evaluating) Evaluate stewardship program processes and outcomes.	Examples of resident participation in the evaluation of the antimicrobial stewardship program processes and outcomes.
2.1.1	(Creating) Prepare or revise a drug class review or monograph, and treatment guideline or protocol related to care of infectious diseases patients.	Two examples of resident participation in the preparation or revision of a drug class review or monograph, and treatment guideline or protocol.
2.1.3	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for patients with infectious diseases.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project report suitable for publication related to care for patients with infectious diseases or topics related to advancing the pharmacy profession or infectious diseases pharmacy at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
2.3.1	(Evaluating) Make recommendations for additions or deletions to the organization's anti-infective formulary based on literature and/or comparative reviews.	Examples of resident participation in making recommendations for additions or deletions to the formulary.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to care of patients with infectious diseases.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to care of patients with infectious diseases.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to care of patients with infectious diseases.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Internal Medicine Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.6  1.1.8	(Creating) Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for internal medicine patients.  (Creating) For internal medicine patients, document direct patient care activities appropriately in the medical record or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of internal medicine patients.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.3	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for internal medicine patients.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication related to care for internal medicine patients or for a topic for advancing the pharmacy profession or internal medicine pharmacy practice at a local, regional, or national conference. (The presentation can be virtual.)	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to internal medicine departmental management.	Examples of resident contribution to internal medicine departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to internal medicine.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Creating) Use effective written communication to disseminate knowledge related to internal medicine.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Evaluating) Appropriately assess effectiveness of education related to internal medicine.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Investigational Drugs and Research Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.6  1.1.8	(Creating) Design or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for research participants.  (Applying) For research participants, document direct patient care activities.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of research patients, including proposals for medication-safety technology improvements	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol related to care of research patients, including proposals for medication-safety technology improvements
2.1.3	Objective R2.1.3: (Evaluating) Participate in a medication-use evaluation related to care of research participants.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.5	(Analyzing) Identify opportunities for improvement of the medication-use system related to care of research participants.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project report suitable for publication related to a quality improvement or research project at a local, regional, or national conference (the presentation may be virtual).	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
4.2.1	(Applying) Contribute to departmental planning.	Examples of resident participation in departmental planning, if applicable.
4.2.3	(Applying) Contribute to investigational drug services departmental management.	Examples of resident participation in investigational drug services department management, if applicable.
4.3.2	(Applying) Participate in the clinical trial appraisal process and effectively design a budget for pharmacy services to support a clinical trial.	Examples of resident participation in the clinical trial appraisal process and budget design for a clinical trial, if applicable.
5.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to care of research participants	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
5.1.3	(Applying) Use effective written communication to disseminate knowledge related to care of research participants.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
5.1.4	(Applying) Appropriately assess effectiveness of education related to care of research participants.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Medication Use Safety and Policy Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.1	(Applying) Participate in a proactive risk assessment for a medication-use process, for example, a failure mode and effects analysis (FMEA).	Examples of a resident participation in FEMA or equivalent.
1.1.2	(Applying) Demonstrate understanding of the steps and applicability of a root cause analysis (RCA).	Examples of a resident participation in RCA.
1.1.3	(Applying) Contribute to the organization's evaluation of, and response to, a medication-related adverse event.	Examples of a resident participation in medication-related adverse event evaluation.
1.3.1	(Evaluating) Assess the organization's culture of safety	Examples of a resident participation in assessment of culture of safety.
2.4.2	(Evaluating) Identify opportunities for improvement in medication-use systems/ policies based on analysis of relevant data from the organization or peer organizations.	Examples of a resident participation in identification of medication-use systems/policies
3.1.1	(Creating) Design and implement an intervention to improve an aspect of the organization's medication-use systems, policies, and/or culture of safety.	Examples of a resident participation in development and implementation of improvement.
3.1.2	(Creating) Design a process to measure the impact of an intervention intended to improve an aspect of the organization's medication-use systems, policies, and/or culture of safety.	Examples of a resident participation in design of a process to measure the impact of an intervention intended to improve an aspect of the organization's medication-use systems, policies, and/or culture of safety.
3.1.3	(Creating) Construct systems that are standardized, streamlined, and reduce the risk for adverse events throughout each step of the organization's medication-use system.	Examples of a resident participation in development of systems to reduce adverse events.
3.2.2	(Creating) Prepare evidence-based information to enhance the organizational committee decisions related to medication-use systems/policies.	Examples of a resident participation in development of evidence based information.
3.2.3	(Creating) Accurately document and communicate decisions of organizational committees to satisfy the requirements of organizational, regulatory, and accreditation bodies, as applicable.	Examples of a resident participation in the documentation and communication of organizational decisions.
3.2.4	(Creating) Collaborate with an interdisciplinary team (as applicable) to aid in the preparation or revision of a drug class review, monograph, treatment guideline, policy, or protocol.	Examples of a resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, policy, or protocol.
4.1.2	(Evaluating) Complete an operational and therapeutic assessment of a drug shortage and/or a medication-related supply shortage.	Examples of a resident participation in the assessment of a drug shortage.
4.1.3	(Creating) Develop and implement a plan for managing a drug shortage and/or a medication-related supply shortage including effective communication of the plan.	Examples of a resident participation in the development and implementation of a plan for managing a drug shortage.



5.2.1	(Applying) Collaborate with clinicians and information technology specialists to develop or improve systems that support safe and effective medication-use.	Examples of a resident participation in the development or improvement of systems that support safe and effective medication-use.
6.1.4	(Applying) Implement quality improvement or research project related to the care of a specified population of patients or advancing the pharmacy profession related to medication use safety and policy.	Examples of a resident participation in the implementation of a quality improvement or research project.
6.1.5	(Evaluating) Assess changes or need to make changes to improve care of a specified population of patients or advancing the pharmacy profession related to medication-use safety or policy.	Examples of a resident participation in the assessment of changes or need to make changes to improve care.
7.4.1	(Evaluating) Participate on an organizational group identifying goals for improvement in the organization's current medication-use system.	Examples of a resident participation in the organizational group identifying goals for improvement in the medication-use system.
7.4.2	(Creating) Participate in the development of appropriate short-term and long-term strategic planning goals.	Examples of a resident participation in the development of strategic planning goals.
8.2.7	(Analyzing) Prepare an expert response to a complex information need.	Examples of a resident participation in a response to a complex information need.
8.3.2	(Applying) Use effective presentation and teaching skills to deliver education in large and small group situations.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
8.3.3	(Applying) Use effective written communication to disseminate knowledge related to a specified area.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
8.3.4	(Applying) Appropriately assess effectiveness of education provided.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Neurology Pharmacy Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

Objective #	Objective	Deliverable
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for neurology patients. (Applying) For neurology patients, document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, collaborative practice agreement, or protocol related to care of inpatient or outpatient neurology patients.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Evaluating) Participate in a medication-use evaluation related to care for neurology patients.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.4	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for neurology patients.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication related to care of neurology or for a topic for advancing the pharmacy profession or neurology pharmacy at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to neurology pharmacy departmental management.	Examples of resident contribution to neurology pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to neurology.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to neurology.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to neurology.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Oncology Pharmacy Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design or redesign safe and effective patient-centered therapeutic chemotherapy and supportive care regimens and monitoring plans (care plans) for oncology patients. (Applying) For oncology patients, document direct patient care activities appropriately in the medical record or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, policy, or protocol related to care of oncology patients.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, policy, or protocol.
2.1.2	(Evaluating) Participate in a medication-use evaluation related to care for oncology patients.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.4	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for oncology patients.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project report suitable for publication related to care for oncology patients or for a topic for advancing the pharmacy profession or oncology pharmacy at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.3	(Applying) Contribute to oncology departmental management.	Examples of resident contribution to oncology departmental management, if applicable.
4.1.2	(Applying) Design effective educational activities related to care of oncology patients.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.4	(Applying) Use effective written communication to disseminate knowledge related to oncology pharmacy.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.5	(Applying) Appropriately assess effectiveness of education related to care of oncology patients.	Examples of assessment of effectiveness of resident presentation/education.
5.1.2	(Creating) Prepare and implement investigational medication sheets or documents and order templates for an assigned clinical research study.	Examples of resident preparation and implementation of investigational medication sheets or documents and order templates.

**PGY2 Pain Management and Palliative Care Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for patients requiring pain management and palliative care.  (Applying) For patients requiring pain management and palliative care, document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, order set or protocol related to care of patients requiring pain management and palliative care.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, order set, or protocol.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication, related to care for patients requiring pain management and palliative care, at a local, regional, or national conference (the presentation may be virtual).	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to pain management and palliative care.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to pain and palliative care.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to pain management and palliative care.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Pediatric Pharmacy Residencies**  
**PGY2 Pediatric Pathway in Critical Care**  
**PGY2 Pediatric Pathway in Oncology**  
**Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design and/or redesign safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for pediatric patients.  (Applying) For pediatric patients, document direct patient care activities appropriately in the medical record or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of pediatric patients including proposals for medication-safety technology improvements.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Evaluating) Participate in a medication-use evaluation or quality improvement audit related to care for pediatric patients.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.4	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for pediatric patients.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) 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.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to pediatric pharmacy departmental management	Examples of resident contribution to pediatric pharmacy departmental management, if applicable.
4.1.4	(Applying) Use effective presentation and teaching skills to deliver education related to pediatric pharmacy.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.5	(Applying) Use effective presentation and teaching skills to deliver education related to pediatric pharmacy.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.6	(Applying) Appropriately assess effectiveness of education related to pediatric pharmacy.	Examples of assessment of effectiveness of resident presentation/education.
5.1.1	(Applying) Demonstrate understanding of the management of pediatric medical emergencies according to the organization's policies and procedures.	Examples of resident achievement of PALS certification (or equivalent)

**PGY2 Pharmacotherapy 12 month Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans). (Applying) Document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol.	Examples of a resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Applying) Participate in the review of medication event reporting and monitoring.	Examples of resident participation in the review of medication event reporting and monitoring.
2.1.3	(Analyzing) Identify opportunities for improvement of the medication-use system.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6  2.2.7	(Creating) Effectively present the results of a pharmacotherapy-related project. (Creating) Use correct grammar, punctuation, spelling, style, and formatting conventions to prepare a written summary of a pharmacotherapy-related project.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to pharmacy departmental management.	Examples of resident contribution to pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education.	Examples of assessment of effectiveness of resident presentation/education.
4.1.5	(Applying) Provides effective patient and caregiver education.	Examples of assessment of effectiveness of resident presentation/education.
5.1.1	(Applying) Demonstrate understanding of the management of medical emergencies according to the organization's policies and procedures.	Examples of resident achievement of ACLS certification (or equivalent)

**PGY2 Pharmacotherapy 24 month Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans). (Applying) Document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol. [NOTE: At some point throughout the 24 month program, each resident MUST 'prepare' a drug class review, monograph, treatment guideline, or protocol at least ONCE.	Examples of a resident participation in the preparation of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Applying) Participate in a medication-use evaluation.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.3	(Applying) Participate in the review of medication event reporting and monitoring.	Examples of resident participation in the review of medication event reporting and monitoring.
2.1.4	(Analyzing) Identify opportunities for improvement of the medication-use system.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.5	(Creating) Effectively develop and present, orally and in writing, a final project report. First year of 24 month program	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
2.3.6  2.3.7	(Creating) Effectively present the results of a pharmacotherapy-related project. (Creating) Use correct grammar, punctuation, spelling, style, and formatting conventions to prepare a written summary of a pharmacotherapy-related project. Second year of 24 month program	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.3	(Applying) Contribute to pharmacy departmental management.	Examples of resident contribution to pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.

4.1.4	(Applying) Appropriately assess effectiveness of education.	Examples of assessment of effectiveness of resident presentation/education.
4.1.5	(Applying) Provides effective patient and caregiver education.	Examples of assessment of effectiveness of resident presentation/education.
5.1.1	(Applying) Demonstrate understanding of the management of medical emergencies according to the organization's policies and procedures.	Examples of resident achievement of ACLS certification (or equivalent)



**PGY2 Pharmacy Informatics Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.2.3	(Applying) Participate in a CQI initiative for a component of a technology or automation system	Examples of resident participation in a CQI initiative for a component of a technology or automation system
1.3.4	(Analyzing) Conduct interface testing for a representative technology or automation system.	Examples of resident participation in conducting interface testing for a representative technology or automation system.
1.5.3	(Evaluating) Assess Pharmacy's Business Continuity Plan for a system outage.	Examples of resident participation in the assessment of the Pharmacy's Business Continuity Plan for a system outage.
2.1.1	(Creating) Configure medication records according to established convention	Examples of resident participation in the configuration of medication records according to established convention
2.3.2	(Analyzing) Make optimization recommendations to and/or perform requisite build in available technology and automation systems for order processing and verification.	Examples of resident development of optimization recommendations to and/or perform requisite build in available technology and automation systems for order processing and verification.
2.4.2	(Analyzing) Make optimization recommendations to and/or perform requisite build in available technology and automation systems for the preparation, distribution and dispensing of medications.	Examples of resident participation in making optimization recommendations to and/or perform requisite build in available technology and automation systems for the preparation, distribution and dispensing of medications.
2.5.2	(Analyzing) Make optimization recommendations to and/or perform requisite build in available technology and automation systems for administering medication and documentation.	Examples of resident participation in making optimization recommendations to and/or perform requisite build in available technology and automation systems for administering medication and documentation.
2.6.2	(Analyzing) Make optimization recommendations to and/or perform requisite build in available technology and automation systems for clinical monitoring.	Examples of resident participation in making optimization recommendations to and/or perform requisite build in available technology and automation systems for clinical monitoring.
2.7.2	(Analyzing) Make optimization recommendations to and/or perform requisite build in available technology and automation systems for pharmacy inventory management.	Examples of resident participation in making optimization recommendations to and/or perform requisite build in available technology and automation systems for pharmacy inventory management.
2.8.2	(Analyzing) Make optimization recommendations to and/or perform requisite build in available technology and automation systems that assist with transitions of care.	Examples of resident participation in making optimization recommendations to and/or perform requisite build in available technology and automation systems that assist with transitions of care.
3.3.1	(Creating) Create CDS using appropriate information, in the right channel, to the right person, in the right format and the right time in the workflow.	Examples of resident participation in the creation of a CDS using appropriate information, in the right channel, to the right person, in the right format and the right time in the workflow.

4.2.2	(Creating) Use database skills and available analytical tools to successfully extract, construct, and utilize reports.	Examples of resident participation in the use database skills and available analytical tools to successfully extract, construct, and utilize reports.
4.2.5	(Creating) Provide effective analysis and communication and/or presentation of results	Examples of resident participation in the provision of effective analysis and communication and/or presentation of results.
5.5.2	(Creating) Effectively present the results of an informatics-related project and determine next steps.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
6.1.2	(Applying) Use effective presentation and teaching skills to deliver education.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
6.1.3	(Applying) Use effective written communication to disseminate knowledge.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
6.1.4	(Evaluating) Appropriately assess effectiveness of education.	Examples of assessment of effectiveness of resident presentation/education.
7.2.1	(Applying) Contribute to pharmacy departmental management.	Examples of resident contribution to departmental management, if applicable.
7.3.4	(Applying) Participate in the development of budget estimates and financial projections for the acquisition, implementation, and maintenance of technology and automation systems.	Examples of resident participation in the development of budget estimates and financial projections for the acquisition, implementation, and maintenance of technology and automation systems.
7.4.1	(Analyzing) Participate in constructing or updating strategic plans for technology and automation systems for the medication-use process.	Examples of resident participation in constructing or updating strategic plans for technology and automation systems for the medication-use process.

**PGY2 Population Health Management and Data Analytics (PHMDA) Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.2.1	(Applying) Identify the targeted patient population(s) that meets the needs of the organization.	Examples of the resident identifying the targeted patient population(s) that meets the needs of the organization.
1.2.2	(Applying) Identify targeted patient population(s) using analytical tools such as dashboards or reports to prioritize the delivery of pharmaceutical care.	Examples of the resident identifying targeted patient population(s) using analytical tools such as dashboards or reports to prioritize the delivery of pharmaceutical care.
1.2.3	(Analyzing) Assess patient data against evidence-based medical literature to make decisions at the individual patient and/or population-based level, to assess/resolve a medication related problem and to make patient-centered, medication and/or non-medication, health improvement, wellness, and/or disease prevention recommendations.	Examples of the resident assessing patient data against evidence-based medical literature to make decisions at the individual patient and/or population-based level, to assess/resolve a medication related problem and to make patient-centered, medication and/or non-medication, health improvement, wellness, and/or disease prevention recommendations.
1.3.1	(Creating) Collaborate with a team to write, revise, or provide input to a health plan and/or health system on an existing guideline/protocol.	Examples of the resident collaborating with a team to write, revise, or provide input to a health plan and/or health system on an existing guideline/protocol.
1.3.2	(Creating) Create a measure/metric of population health outcome(s) collaborating with peers as appropriate.	Examples of the resident creating a measure/metric of population health outcome(s) collaborating with peers as appropriate.
1.4.1	(Creating) Develop an evidenced-based resource/tool.	Examples of the resident developing an evidenced-based resource/tool.
2.1.3	(Creating) Construct a workflow process diagram(s) using knowledge of data flow, workflows, and identification of appropriate team members.	Example of the resident constructing a workflow process diagram(s) using knowledge of data flow, workflows, and identification of appropriate team members.
2.2.3	(Creating) Demonstrate proficiency in the use of databases and data analysis software to successfully construct reports and dashboards.	Examples of the resident constructing reports and dashboards.
2.3.1	(Applying) Implement a strategy for earning credibility within the organization as an authoritative expert on the creation of analytic tools, measurement of outcomes, and overall evidence based medication-related care of patients.	Examples of the resident implementing a strategy for earning credibility within the organization as an authoritative expert on the creation of analytic tools, measurement of outcomes, and overall evidence based medication-related care of patients.
2.3.3	(Analyzing) Analyze feedback from the end user(s) on usability and efficacy of the resource/tool and revise accordingly.	Examples of the residents analysis of feedback from the end user(s) on usability and efficacy of the resource/tool and revision accordingly.

2.4.2	(Applying): Design and/or deliver processes and/or initiatives that support quality measures to improve population health outcomes of medication therapy.	Examples of the resident designing and/or delivering processes and/or initiatives that support quality measures to improve population health outcomes of medication therapy.
2.4.3	(Evaluating) Use data collection tools and/or methodologies to identify opportunities to improve medication-use processes.	Examples of the resident using data collection tools and/or methodologies to identify opportunities to improve medication-use processes.
2.4.4	(Applying) Participate in a CQI initiative and lead a component of a technology or automation system.	Examples of the resident participating in a CQI initiative and leading a component of a technology or automation system.
Goal 3.1	Demonstrate the ability to conduct a population health, data analytics, quality improvement, or research project using effective project management skills.	Examples of resident's conduct of a population health, data analytics, quality improvement, or research project using effective project management skills.
4.2.1	(Applying) Contribute to departmental management of population health management and data analytics.	Examples of the resident contributing to departmental management of population health management and data analytics.
4.3.2	(Applying) Participate in the organizational compliance processes for accreditation, legal, regulatory, and safety requirements related to data, medications, and pharmacy practice	Examples of the resident participation in the organizational compliance processes for accreditation, legal, regulatory, and safety requirements related to data, medications, and pharmacy practice.
5.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to population health management and data analytics.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
5.1.3	(Applying) Use effective written communication to disseminate knowledge related to population health management and data analytics.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
5.1.4	(Evaluating) Assess effectiveness of education related to population health management and data analytics.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Psychiatric Pharmacy Residencies**  
**Evidence of Residents' Completion of CAGO Requirements**

Objective #	Objective	Deliverable
1.1.5  1.1.7	(Creating) Design or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for patients with psychiatric and neurologic disorders. (Applying) For patients with psychiatric and neurologic disorders, document direct patient care activities appropriately in the medical record or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of patients with psychiatric and neurologic disorders, including proposals for medication-safety technology improvements.	Examples of resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Evaluating) Participate in a medication-use evaluation related to care of patients with psychiatric and neurologic disorders.	Examples of work completed as part of participation in a medication-use evaluation, if applicable.
2.1.4	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for patients with psychiatric and neurologic disorders.	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a project report suitable for publication related to care of patients with psychiatric and neurologic disorders or for a topic for advancing the pharmacy profession or psychiatric pharmacy at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to care of patients with psychiatric and neurologic disorders.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to care of patients with psychiatric and neurologic disorders.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to care of patients with psychiatric and neurologic disorders.	Examples of assessment of effectiveness of resident presentation/education.

**PGY2 Specialty Pharmacy Administration and Leadership (SPA-L) Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.1	(Evaluating) Based on one's assessment of the scope of the pharmacy's current services, identify any service opportunities.	Examples of a resident participation in identification of service opportunities.
1.2.2	(Evaluating) Based on an assessment of the adequacy of the pharmacy's current system for inventory control, make any needed recommendations for improvement.	Examples of a resident participation in identification of opportunities in inventory control, if applicable.
1.4.3	(Creating) Based on assessment of the pharmacy's medication use systems, contribute any needed recommendations for improvement.	Examples of a resident participation in the identification of opportunities for improvement of the pharmacy's medication use systems, if applicable.
1.5.2	(Creating) Design and implement an improvement related to the use of information technology and automated systems.	Examples of a resident participation in the design and implementation of an improvement related to the use of information technology and automated systems.
2.1.1	(Applying) Participate in an assessment of customer satisfaction with a specific aspect of pharmacy services.	Examples of a resident participation in an assessment of patient satisfaction.
2.2.1	(Applying) Participates in medication safety oversight programs.	Examples of a resident participation in medication safety oversight programs, if applicable.
2.2.2	(Evaluating) Lead a root cause analysis, gap analysis, or other safety assessments based on a significant patient safety event.	Examples of a resident participation in RCA or equivalent.
2.2.3	(Creating) Participate in the development or revision of the pharmacy's quality improvement plan or policy.	Examples of a resident participation in the development or revision of the pharmacy's quality improvement plan or policy.
3.2.1	(Analyzing) Participates in the operating budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the operating budget process.
3.2.2	(Analyzing) Participate in a capital budget process for a selected aspect of the pharmacy's activities.	Examples of a resident participation in the capital budget process.
3.2.3	(Analyzing) Participate in the monitoring of financial performance and explanation of variances.	Examples of a resident participation in the monitoring of financial performance, if applicable.
3.4.3	(Creating) Design and implement a cost reduction or inventory management initiative.	Examples of a resident participation in the design and implementation of a cost reduction or inventory management initiative.
4.1.1	(Evaluating) Determine and recommend the staff requirements that match an area of the department's scope of services.	Examples of a resident participation in the determination of the staff requirements that match an area of the department's scope of services.

4.2.1	(Creating) Use knowledge of the organization's customary practice to write or revise a job description for a pharmacy position.	Examples of a resident participation in writing or revising a job description.
4.3.2	(Creating) Compose and deliver an employee's performance appraisal.	De-identified examples of a resident participation in the composition and delivery of a performance appraisal.
4.3.3	(Applying) Participate in the organization's progressive discipline process or participate in a progressive discipline case or scenario, if not available.	De-identified examples of a resident participation in the progressive discipline process, if applicable.
5.1.1	(Creating) Create a professional development plan with the goal of improving the quality of one's own performance through self-assessment and personal change.	Examples of a resident participation in their professional development plan.
5.3.2	(Creating) Contribute to the development of a business plan for a new or enhanced pharmacy service or program.	Examples of a resident participation in the development of a business plan for a new or enhanced pharmacy service or program.
5.4.1	(Creating) Lead departmental and/or interdisciplinary teams in the design, implementation, and/or enhancement of the organization's medication-use process.	Examples of a resident participation in the design, implementation, and/or enhancement of the organization's medication-use process.
5.4.4	(Applying) Present to an appropriate audience an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.	Examples of a resident participation in a presentation an explanation of the role and importance of pharmacist active engagement and advocacy in the political and legislative process.
5.5.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication at a local, regional, or national conference (the presentation may be virtual).	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
7.1.2	(Applying) Participate in activities to maintain compliance with specialty pharmacy accreditation standards.	Examples of resident participation in activities to maintain compliance with specialty pharmacy accreditation standards.
7.1.3	(Evaluating) Based on one's own assessment, make recommendations to ensure continuous compliance with specialty pharmacy accreditation requirements.	Examples of resident's development of recommendations to ensure compliance with specialty pharmacy accreditation requirements.
7.1.4	(Applying) Provide oversight to committees that support the specialty pharmacy.	Examples of resident's participation in committees that provide oversight of specialty pharmacy.
7.2.2	(Evaluating) Evaluate REMS processes and make appropriate recommendations to ensure compliance with REMS requirements.	Examples of resident's development of recommendations to ensure compliance with REMS requirements.
7.4.1	(Applying) Participate in the development of specialty pharmacy's marketing and patient education materials.	Examples of resident's participation in the development of specialty pharmacy's marketing and patient education materials.
7.4.2	(Evaluating) Identify and analyze market trends and create quality improvement initiatives and marketing plans for the specialty pharmacy service.	Examples of resident's creation of quality improvement initiatives and marketing plans for the specialty pharmacy service.

**PGY2 Solid Organ Transplant Pharmacy Residencies  
Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for solid organ transplant patients.  (Applying) For solid organ transplant patients, document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. Please submit 3 notes per resident.
2.1.1	(Creating) Prepare or revise a protocol, treatment guideline, drug class review or monograph; implement a proposal for medication safety technology improvement; or develop a new clinical service related to care of solid organ transplant patients.	Examples of resident participation in the preparation or revision of a protocol, treatment guideline, drug class review or monograph; implementation of a proposal for medication safety technology improvement; or development of a new clinical service related to care of solid organ transplant patients.
2.1.3	(Analyzing) Identify opportunities for improvement of the medication-use system related to care for solid organ transplant patients	Examples of medication -use system improvements identified by resident, if applicable.
2.2.6	(Creating) Effectively develop and present, orally and in writing, a final project or research report suitable for publication related to care of solid organ transplant patients or for a topic for advancing solid organ transplant pharmacy at a local, regional, or national conference.	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to solid organ transplant pharmacy departmental management.	Examples of resident contribution to solid organ transplant pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to solid organ transplant.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to solid organ transplant.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to solid organ transplant.	Examples of assessment of effectiveness of resident presentation/education.



**PGY2 Thrombosis and Hemostasis Management Residencies: Demonstration PGY2 - Effective 2022**  
**Evidence of Residents' Completion of CAGO Requirements**

<b>Objective #</b>	<b>Objective</b>	<b>Deliverable</b>
1.1.5  1.1.7	(Creating) Design, or redesign, safe and effective patient-centered therapeutic regimens and monitoring plans (care plans) for patients requiring prevention and treatment of thrombosis and bleeding.  (Applying) For patients requiring prevention and treatment of thrombosis and bleeding, document direct patient care activities appropriately in the medical record, or where appropriate.	Resident notes typically are not kept in the resident's portfolio and therefore would need to be extracted from the electronic health record. Please provide de-identified notes from the current resident or residents that document direct patient care activities appropriately in the medical record (or where appropriate). The notes provided should be a representative sample of both care plans and other notes that reflect the breadth of resident documentation in the medical record. If there is more than 1 current resident, the sample submitted should include care plans and other notes from several current residents. Do not submit more than 10 notes total.
2.1.1	(Creating) Prepare or revise a drug class review, monograph, treatment guideline, or protocol related to care of patients, including proposals for medication-safety technology improvements in those requiring prevention or treatment of thrombosis or bleeding.	Examples of a resident participation in the preparation or revision of a drug class review, monograph, treatment guideline, or protocol.
2.1.2	(Evaluating) Participate in medication-use evaluation related to care for patients requiring prevention or treatment of thrombosis or bleeding.	Examples of work completed as part of participation in a medication-use evaluation.
2.1.3	(Analyzing) Identify opportunities for medication-use system improvements related to care of patients requiring prevention or treatment of thrombosis or bleeding.	Examples of medication -use system improvements identified by resident, if applicable.
2.3.6	(Creating) Effectively develop, present orally, and prepare a written summary of the results of a thrombosis and hemostasis-related project that is suitable for publication, using correct grammar, punctuation, spelling, style, and formatting conventions	Examples of resident presentation of major project and examples of written summary of major project in manuscript style.
3.2.1	(Applying) Contribute to pharmacy departmental management of issues related to the care of patients requiring prevention and treatment of thrombosis and bleeding.	Examples of resident contribution to pharmacy departmental management, if applicable.
4.1.2	(Applying) Use effective presentation and teaching skills to deliver education related to thrombosis and hemostasis management.	Examples of presentation slides and handouts developed by the resident. It should be clear who the presenter, date, and, audience is for each presentation.
4.1.3	(Applying) Use effective written communication to disseminate knowledge related to thrombosis and hemostasis management.	Examples of resident written communication to disseminate knowledge (such as newsletters, written drug information, presentations) developed by resident.
4.1.4	(Applying) Appropriately assess effectiveness of education related to thrombosis and hemostasis management.	Examples of assessment of effectiveness of resident presentation/education.
5.1.1	(Applying) Demonstrate understanding and management of thrombotic emergencies according to the organization's policies and procedures.	Examples of resident management of thrombotic emergencies.