Faculty: Albert Carbo, Patricia Lambro

Site: Peninsula Community Health Services

Status: Active

Type/Duration: Required/Longitudinal

Description:

The Residency Project rotation will require the resident to design and implement a Major Project related to Community-based Pharmacy Practice.

This longitudinal experience will expose the resident to various quality improvement, business case, and project management skills. The project will culminate in a presentation to the pharmacy department and/or broader clinical staff. The Resident will also be encouraged to present results at a regional or national meeting and/or prepare a manuscript for submission to a relevant journal.

Core Content:

- Development of a project proposal and protocol
- Project timeline development and management
- Database development and basics of data management
- Business plan development (if needed)
- Abstract, poster (optional), presentation, and manuscript preparation and writing

Role of Pharmacists:

Pharmacists at PCHS directly contribute to development of quality improvement projects, business cases, and practice innovation projects. Pharmacists identify service gaps or needs, key stakeholders, and relevant evidence-based practices to create project proposals and business cases that advance pharmacy practice and improve patient care.   Pharmacists also implement these projects, collect data, and evaluate the impact of interventions – including sustainability. Pharmacists are routinely asked to present QI projects and innovative pharmacy services to internal and external audiences through oral presentations and/or written reports.

Expectation of Learners:

The resident will serve as the Project Lead for a project that both interests them and positively impacts pharmacy practice. The resident is expected to keep the Residency Project Director (RPD) and/or project preceptor(s) appraised of the project progress and any obstacles encountered. The resident will develop appropriate timelines and milestones.

To accomplish this:

Quarter 1:

- Resident will review ASHP's "The Essential Guide to Pharmacy Residency Research" and other project development resources
- Resident will identify a Major Project idea with guidance from the RPD and preceptor(s)
- Resident will formulate a project question and relevant project objectives

- Resident will identify relevant stakeholders and content-experts to develop a Project Team
- Resident will conduct an introductory literature search
- Resident will complete a written Major Project proposal
- Resident should identify other quality improvement projects and business case opportunities to supplement the project management skills
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Quarter 2:
- Resident will finalize Major Project plan incorporating feedback received from written proposal
- Resident will coordinate with RPD and/or project preceptor(s) to obtain necessary approvals
- Resident will begin implementing project and collecting data – including any smaller pilots or tests
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Quarter 3:
- Resident will continue with data collection
- Resident will begin data analyses stage and formulate plan for completion by end of quarter

Quarter 4:
- Resident will prepare a written abstract and professional presentation for an external audience
- Resident will practice this presentation with preceptor(s) and be prepared to present by mid-May (e.g., Northwestern State Residency Conference)
- Resident will prepare a manuscript for publication with plan for several review cycles and drafts submitted and reviewed by RPD/RAC by mid-May and final manuscript completed by mid-June.
- Resident should be prepared to speak about sustainability planning for Major Project
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Evaluation:

Resident will work closely with their project preceptor(s) and receive formative feedback throughout the project development. Summative evaluations will be conducted quarterly.

GOAL DESCRIPTION		OBJECTIVE DESCRIPTION		ACTIVITY
R3.1	Conduct a **quality improvement project** in the medication use system or in a patient care service to improve care and safety.	R3.1.1	(Creating) Identify the need and develop a plan for a quality improvement project focused on the medication-use process and/or patient care services.	• Summarize required continuous quality improvement (CQI) readings and discuss the organization's CQI policies and procedures with appropriate staff. • Identify potential gaps in the medication use system or patient care services based on external best practices, clinical guidelines, or benchmarks • Develop a proposal for a CQI project that takes a systematic approach to addressing a system or service gap – including project need, scope, feasibility, stakeholders, evidence-based practices.
		R3.1.2	(Applying) Implement a quality improvement project.	• Obtains the review and approval from PCHS Senior Leadership, preceptors, and other key stakeholders to implement the CQI project. • Implement the CQI project according to the implementation plan – proposing realistic and timely adjustments as needed. • Utilize appropriate data collection strategies that are consistent with the organization's CQI processes.
		R3.1.3	(Evaluating) Evaluate the impact of a quality improvement project.	• Apply appropriate data analyses to assess the impact of CQI project • Propose further modifications or change based in an iterative approach (e.g., Plan-Do-Check-Act) • Summarize CQI project outcomes in terms of quality, safety, cost-effectiveness, and overall sustainability
R3.2	Contribute to the development, implementation, and evaluation of a **new pharmacy service or to the enhancement of an existing service.**	R3.2.1	(Creating) Identify the need and develop a business plan for a new or enhanced service.	• Identify an unmet need to be developed into a business plan that aligns with the organization's mission to include proposed benefits, barriers, fiscal/resource needs, action plans, evaluation, and sustainability. • Identify relevant stakeholders and present the business case to obtain appropriate approvals and stakeholder buy-in
		R3.2.2	(Applying) Implement the planned new or enhanced service.	• Implement a business plan by providing relevant training, engaging relevant stakeholders, and meeting specific timelines and milestones.
		R3.2.3	(Evaluating) Evaluate the new or enhanced service to determine if it meets the stated goals and is sustainable.	• Collect appropriate data to evaluate the impact of the new or enhanced service in terms of quality, safety, cost-effectiveness, significance, and sustainability • Recommend further service modifications or enhancements based on a critical analysis of outcome data
R3.3	Complete a **practice innovation** or research project that advances community-based practice using effective project management skills.	R3.3.1	(Creating) Identify and design a practice-related project significant to community-based practice.	• Complete required readings and review recommended resources related to residency research projects • Articulate the need for project to relevant stakeholders using appropriate data and information • Formulate a practice innovation question with appropriate scope, timeline, and milestones for completion within residency year • Conduct a literature search to identify and summarize relevant literature. Support anticipated outcomes and project design with appropriate references. • Develop a project proposal that provides an introduction, objective, systematic methodology, procedures, and timeline to submit for preceptor team review. • Identify data collection elements along with strategies to appropriately secure and organize project data • Secure appropriate project approval(s) from PCHS Senior Leadership, preceptors, and other key stakeholders. Identify potential funding source(s), if necessary.

		R3.3.2	(Applying) Implement a practice-related project significant to community-based practice.	• Collaborate with PCHS Senior Leadership, preceptors, and other key stakeholders to implement the project – including data collection – in a manner consistent with relevant approvals. • Complete project milestones in manner consistent with proposed project timeline and/or propose reasonable alternatives if/when proposed timeline is no longer feasible.
		R3.3.3	(Applying) Accurately assess the impact of the practice-related project including sustainability, if applicable.	• Analyze collected data using a structured methodology to derive appropriate conclusions • Assess short-term and long-term sustainability based on project findings (e.g., cost-effectiveness).
		R3.3.4	(Creating) Effectively develop and present, orally and in writing, a final project report.	• Identify a target journal for manuscript submission. • Create and submit a project abstract that is consistent with submission guidelines for a podium and/or poster presentation at a local or regional conference. • Prepare a well-structured and effective podium presentation • Deliver a podium presentation on relevant project outcomes at a local/regional conference. • Prepare a manuscript following the submission criteria and formatting of a targeted journal. (Optional) Submit manuscript for publication.

Evaluations:

	Evaluator	Evaluated	Timing
ASHP Learning Experience Evaluation	Residents	Learning Experience	Ending and Quarterly if Needed
ASHP Preceptor Evaluation	Residents	All Preceptors of this Learning Experience	Ending and Quarterly if Needed
Summative Evaluation	Residents	Each Resident Taking this Learning Experience	Ending and Quarterly if Needed

Elements for portfolio and PharmAcademic:

- Major Project documentation (including key drafts/revisions):
    - Timeline
    - Written proposal and other supporting documents (e.g., slides/handouts for proposal presentation, stakeholder feedback)
    - Project plan and other supporting documents (e.g., de-identified data collection tools, relevant workflow documents, PDCA documentation, Project Team meeting minutes, budget/time records, sustainability planning)
    - Data analyses (de-identified)
    - Oral presentation
        - Abstract
        - Poster or presentation slides
        - Preceptor/reviewer feedback form(s)
    - Manuscript