The Ohio State University College of Pharmacy
Residency Research Overview
2014 - 2015

Research Director:

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Purpose of the PGY1 and PGY2 Resident Research Project:

1. To familiarize the resident with the key components in carrying out a successful research project - from idea generation to final manuscript submission;

2. To enhance the project management skills of residents through planning and organizing the research project;

3. To develop problem solving skills through working group discussions and by working closely with project mentor;

4. To enhance verbal and written communication skills through formal and informal presentations and scientific and technical writing;

5. To promote the diverse opportunities of residency training, resulting in a well-rounded candidate qualified for a wide-range of career opportunities.

Required Research Products

Each resident is expected to complete each of the following:

1. Research protocol/IRB application
2. Grant (eg. ASHP or APhA Foundation grants)
3. Research poster (eg. Midyear or APhA meeting)
4. Research podium (eg. GLPRC or OPRC)
5. Manuscript
The Research Program

Research Series

An orientation series will consist of an orientation to various research topics; see OSU Wexner Medical Center Department of Pharmacy/College of Pharmacy Research Series for dates and times. These lectures provide the residents with the necessary foundational knowledge to begin their project.

Defining the responsible person for resident research: The resident must have an individual who serves as a primary advisor for the research project. The primary project advisor assumes total responsibility for the conduct, integrity and completion of the research project. This may be the residency program director or a residency program preceptor. There may be additional preceptors (including a preceptor or faculty member from the College of Pharmacy) assigned specific responsibilities on the research team.

Responsibilities

Responsibility of the residents – the responsibility of residents in research groups includes the following:

- Identify potential research projects and identify major project (in consultation with primary project advisor and research team);
- Draft initial timeline for research including milestones, and present required updates;
- Identify a schedule of meetings/updates with project advisor and research team to keep group abreast of project and gather input;
- Meet agreed-upon deadlines and be attentive to milestones set in the research schedule;
- Inform primary project advisor of the activity in their research group;
- Participate in informal research discussions and working groups among the COP residents, providing input and assistance as needed to peers.

Responsibilities of primary project advisor: The role of the primary project advisor will include the following:

- **Primary responsibility** for the conduct, integrity and completion of the research project;
- **Final decision authority** on the direction of the research project;
- Participate in meetings/update with the resident that keeps the resident “on task”; and provide input/revisions to milestones as needed;
- Choose a “target journal” in conjunction with the resident, and discuss authorship (order, requirements, role of biostatistician) in advance of the project implementation;
- If needed, implement a plan for improvement in conducting the research project;
- Provide evaluation data on research project for resident evaluations (eg. Resitrak.)
• Help to reduce or eliminate barriers to resident research (e.g., differences in opinion about the direction of a project).
• Ensure that a project-specific timeline is kept leading toward a complete first draft of the research manuscript by early June (requirement for Residency Certificate)

Research Working Group

The resident class and program preceptors will serve as informal advisors/facilitators for resident projects. The groups can include the research director, college faculty, PGY1 and PGY2 residents, primary project advisors and others (e.g., practice partners or other experts as invited to attend. The group will typically meet during residency meetings (schedule to be determined) or be scheduled for additional meetings. The main purpose of the group is support resident progress, provide accountability to the residency program director and research direction, and overall enhance the timeliness of feedback and success of the residents’. Outcomes from the meetings may include suggestions/input on study design, discussing research barriers, data collection updates and findings from preliminary analysis, or advising on podium preparation, presentation skills, or manuscript development and editing. Facilitators are assigned to be responsible for keeping the group on task, providing advice and sending a progress report to the RPD as needed.

Authorship

It is expected that the results of each resident project are published in the peer-reviewed literature. As a result, the order of authorship must be decided early in the project and agreed upon by all involved. Participating as an informal facilitator in providing feedback to the resident project does not qualify for being considered a contributing author on the resident’s publication. If a facilitator is contributing significantly to the content of a resident project, consideration for authorship should be requested by the group member/facilitator of the primary project advisor. Any unresolved disputes in authorship may be resolved by the RPD in consultation with Dr. Knoell.

In addition, please refer to the attached article that provides an overview of authorship.

• Definition of a manuscript
It is our goal and expectation that the results of each resident project are published in the peer-reviewed literature. Residency standards specify that the product of work turned in by the resident at the end of the residency year be in the form of a manuscript for publication. The manuscript is defined as a written document in the format that meets the targeted journal’s Guidelines for Authors. For example, if the targeted journal for a research project is JAPhA, the final manuscript must meet the “Guidelines for Authors” as described by the JAPhA editorial staff.
• **Completion of the research project**
  Completing the research project and manuscript as defined above (submission of manuscript by June 20, 2015) is required to receive a residency program certificate. Further, if the resident does not submit the research results for publication by December 31st of the year of residency graduation, the preceptor(s) reserve the right to publish the information without the input/participation of the resident, or revise authorship order to appropriately reflect the resident’s contribution.

Finally, the resident is required to complete all the necessary administrative procedures related to IRB reporting, closure of study, etc. prior to leaving the residency. Importantly, all rules and guidelines related to data storage/archiving must be resolved prior to the resident finishing the residency. Failing to do so may jeopardize the awarding of the program certificate.

• **Participation by residents with PGY1 and PGY2 training at OSU COP**
  Residents who complete a PGY1 residency at OSU COP and then are selected to complete PGY2 residency at OSU will participate in the research series during both residency years.