

TIMELINE: The Three Phases of Resident Research

Time Line		
-12 months	1-2 month(s) (The research elective)	+12 months
Preparatory phase	Investigatory Phase	Synthesis phase
Selecting a topic and formulating a question	Creating a database	Statistical analysis
Finding a mentor	Data collection	Presentation and publication
Utilizing existing institutional resources	Storage and management of data	Reflection on research interest
Study design and statistical consultation		
Institutional review board submission		

From Hamann et al. "Clinical Research During Internal Medicine Residency: A Practical Guide" *The American Journal of Medicine* 119(3): pg278, Table 1.

Each year will be constructed with the timeline as indicated in the table above and as outlined below.

- **YEAR 1** (Preparatory Phase) The main goal for the initial phase of the longitudinal resident research project is for the intern to identify suitable research questions and appropriate mentorship. Toward this end, a database of potential clinical projects appropriate for resident involvement as well as a list of suitable faculty mentors will be maintained by the Chief Resident's Office. In addition, a lecture series will be planned at the intern level to review basic principles of clinical research. This will lay the basic groundwork for formulating research questions and will serve as an introduction to the research lecture series which will occur in the second year.
- **YEAR 2** - (Preparatory/Investigatory/Synthesis Phases) Second year residents will be encouraged to formally identify mentors and to submit research proposal outlining their intentions as shown in Appendix 2. The proposal should be submitted to the Chief Resident's Office at least two months prior to starting research elective months (special month) or by December of their second year. Formal review of the proposal and subsequent recommendations will then be communicated to the resident by the faculty mentors prior to the start of a specials month. In addition to submission of the proposal and participation in special months, the second year curriculum will include a dedicated research lecture series.
- **YEAR 3** – (Investigatory/Synthesis Phase) The third year will consist of any additional data collection, synthesis and analysis. The entire experience should then culminate with formal presentation, and where possible publication. Mentors are expected to facilitate the process by advising residents on submission of their work to appropriate peer-reviewed journals and/or conferences. All residents should, at minimum, plan to present their results at the Annual Medicine Research Day in May.