

Pharmacy Informatics Advanced Practice Experience

Performance Criteria

I. THINKING AND DECISION-MAKING

A. The student will identify, interpret, analyze, evaluate and synthesize information to make rational and responsible decisions to solve/complete informatics-related problems/questions/tasks. The student will:

1. **Accurately gather data for research in the informatics field**
 - Utilize computer systems effectively (e.g. Clinical Desktop)
 - Efficiently gather pertinent clinical information from patient charts
 - Collects necessary information through patient interviews
2. **Effectively utilize a system for documenting and maintaining information gathered for research purposes**
 - Correctly and accurately enters data into a database
 - Efficiently documents information in an organized and timely manner
3. **Apply inclusion and exclusion criteria to patients identified for possible participation in research studies**
 - Accurately identify patients as “eligible” or “not eligible”
 - Interpret significance of information gathered
 - Utilize pharmacotherapeutic knowledge to make decisions in the field of informatics research
4. **Assist in creating and/or revising documentation for approval by a human subjects committee (Institutional Review Board, IRB)**
 - Uses appropriate forms for submission and incorporates recommended IRB formats/language
 - Writes with “professional” writing style that accurately communicates the research attributes
 - Performs duties in timely and organized fashion
5. **Adhere to existing research protocols and contribute in the development of new protocols**
 - Understand the protocol for ongoing informatics research projects
 - Assist in developing and writing protocols for future informatics research
 - Effectively implement and/or follow protocols for current research

6. Evaluate and utilize appropriate statistical analysis

- Understand methodology and implications of common statistical tests
- Accurately critique statistical methods in biomedical literature
- Perform statistical analysis using data from informatics research studies

7. Participate in reviewing manuscripts for publication in biomedical journals

- Critically appraise manuscripts submitted for publication
- Identify strengths and limitations of a manuscript
- Provide suggestions for improvement to the manuscript author(s) in a clear, complete, critical, and considerate manner

B. The student will appropriately utilize medical information. The student will:

8. Apply literature search skills

- Utilize available internal electronic references effectively for information retrieval
- Utilize a systemic approach to drug information searching
- Consult tertiary, secondary and primary literature appropriately
- Use effective search strategies

9. Apply literature evaluation, analysis and synthesis skills

- Critically evaluates all literature utilized in daily activities
- Compare and contrast information from different sources
- Provide supporting, scientific justification for conclusions
- Identify hallmark studies or guidelines
- Choose appropriate references to answer the problem/question/task

II. COMMUNICATION

Communicate with health care professionals. The student will:

10. Provide information and recommendations

- Establish rapport
- Listen attentively
- Speak concisely and confidently
- Provide information in a logical and coherent fashion
- Can effectively communicate thoughts/ideas within a group
- Verify information received
- Respond appropriately to questions

11. Write concise and legible documents (e.g. research protocols, abstracts, and/or manuscripts)

- Is accurate and complete in written response
- Write in a clear and concise manner
- Demonstrate minimal errors in grammar, punctuation, spelling and sentence structure
- Accommodate audience with writing style
- Edit own work effectively

PROFESSIONALISM

III. SOCIAL INTERACTION

Collaborate with professionals and co-workers at the practice site. The student will:

12. Interact professionally and effectively with co-workers and other professionals

- Cooperate to produce positive outcomes
- Contribute productively to group processes
- Assume responsibility for outcomes/projects and assure attainment of group's goals
- Interact with internal/external individuals in an appropriate and efficient manner
- Adapt easily to various situations and settings
- Implement group's goals based upon priorities

IV. SELF-LEARNING

Display habits, skills, and attitudes required to be a life-long learner. The student will:

13. Display independent self-learning in the field of pharmacy informatics

- Assess one's own knowledge and abilities independently
- Set ideal knowledge and ability goals and take responsibility for attaining them
- Recognize self-limitations and seek appropriate assistance/clarification
- Accept feedback and implement suggestions for improvement
- Manage time appropriately and efficiently
- Exhibit intellectual curiosity (e.g., ask questions, self-motivated to actively and regularly seek new knowledge) to ensure ongoing professional competency

V. VALUING & ETHICAL DECISION-MAKING

Display the habits, attitudes and values required to render pharmaceutical care. The student will:

14. Demonstrate professionalism

- Show initiative in all responsibilities
- Listen actively
- Demonstrate commitment to assigned projects
- Display confidence in one's competence as a health care provider
- Display professional judgment
- Accept responsibility for actions
- Limit personal conversations
- Demonstrate fiduciary responsibility

15. Practice effectively

- Utilize available technology to maximize efficiency
- Utilize resources/colleagues appropriately to complete projects/tasks effectively
- Complete tasks/projects on time
- Display courtesy and politeness
- Act independently, when appropriate
- Arrive on time, prepared for daily responsibilities

16. Practice ethically and legally

- Give foremost consideration to the well-being of the patient or research subject
- Respect patient/company confidentiality; practice in fully HIPAA compliant manner
- Treat individuals from all socioeconomic classes and races equally
- Comply with federal, state, and local laws (and related regulations) that affect the practice of pharmacy and or clinical research
- Comply with the rules and regulations specified in the College Student Handbook and student code
- Comply with policy and procedures specified by Barnes-Jewish Hospital