Health System Pharmacy:
Inpatient

Background

The inpatient setting of health system pharmacy is unique in a number of ways. The patients treated by a health system pharmacist typically have more complicated conditions than those in an ambulatory setting and take multiple medications. A staff pharmacist may have exposure to oncology, intravenous (IV) medication therapy, neonatal care, nutrition, pain therapy, geriatrics, and much more. Staff pharmacists face a varied set of responsibilities including dispensing medication, making purchasing decisions, monitoring drug therapy, preparing IV medication, and overseeing drug administration.

The location and layout of the pharmacy can vary greatly among health systems. Some are centralized, with all of the pharmacy staff and equipment located in a single area of the hospital, usually on one of the lower floors. Another format is the decentralized pharmacy, where there is a main pharmacy in a central location but there are also “mini-pharmacies,” called satellites, located throughout the health system at key patient care units. The type of the pharmacy depends on the size, needs, resources, and focus of the health system.

Health system pharmacists interact with nurses and physicians in their positions. Often, they do not work directly with the patient, but rather with the other health care providers to optimize the patient’s therapy. In some health systems, however, there are opportunities for pharmacists to see patients by rounding with physicians and nurses or by providing discharge counseling.

Twenty four percent of a health system inpatient pharmacist’s time is spent on medication dispensing and associated patient counseling. Eighteen percent of their time is spent on medication management services and another 14% is spent patient management services.

Characteristics

One hundred thirty-nine health system staff pharmacists responded to the 2012 APhA Career Pathway Evaluation Program survey. Seventy percent of respondents indicated having a PharmD degree. Twenty-three percent of respondents earned an advanced degree such as an MA, MS, or MBA. Twenty-four percent had been through a residency, and 26% indicated they had been through certificate training. Twenty percent of respondents indicated that they had obtained BPS certification.

The respondents’ average age was 45 years old. Well over half of the respondents (65%) were female. Annual income data show 25% reporting an income between less than $100,000, 37% earning between $100,000 - $120,000, and 34% earning over $120,000.

The majority of respondents indicated that they were satisfied with their job with 44% indicating “extremely satisfied” and 46% indicating “somewhat satisfied.” Respondents felt the job was challenging with 36% indicating “extremely challenging” and 53% indicating
“somewhat challenging.”

Insider’s Perspective

What aspects of the job are most appealing?
Respondents seemed to emphasize that they really liked the interaction that they have with their pharmacist and interdisciplinary colleagues. Pharmacists also felt that they were able to positively influence patient care and health system policy in their position within the inpatient pharmacy. One pharmacist articulated his feelings in this way: “There are opportunities to influence medication use at both the organizational level; and at the individual patient level through collaborative direct patient care.”

Many other respondents indicated that they enjoyed the flexibility and variety of their daily work. One respondent said that she enjoyed “the variety of the work and the opportunity to expand my scope of practice and always look for new challenges.”

What aspects of the job are least appealing?
Many of the respondents indicated that workload and long hours were the least appealing aspect of their work. Others were concerned with the management and administration, workflow issues, and medication shortages.

One respondent summed up many concerns about the bureaucracy within a large health system by expressing that the least appealing aspect is “the centralized top-down organizational decision making structure with limited opportunities for non-managers to participate more actively in departmental decision-making.”

What advice should students and practitioners consider when selecting the option of health system staff pharmacy?
Many pharmacists recommended that residency training should be completed before pursuing a career in an inpatient setting. Other skills that were considered critical included the ability to problem solve, being open to lifelong learning, and being open to varying opportunities.
Critical Factor Ratings

Interaction with Patients
The nature of the work for health system inpatient pharmacists does not give them regular exposure to the general public in their daily work. Therefore, interacting with patients rates in the low range, at 4.0, as a portion of a health system staff pharmacist’s workday.  

= 4.0

Conducting Physical Assessments
In a health system setting, the majority of physical assessments will be conducted by the other health care professionals in the facility, such as nurses, physicians, and physical therapists.  

= 1.6

Interpreting Laboratory Values
Health system pharmacists do have a role in evaluating patient laboratory values. Patients with complicated conditions on multiple medications need to be monitored continuously and staff pharmacists often play a key role in fine-tuning patient therapies through findings in blood and other laboratory tests.  

= 5.4

Continuity of Relationships
As stated earlier, health system staff pharmacists do not frequently have the opportunity to directly interact with patients.  

= 2.9
Helping People
In answer to the question “To what degree is your effect on the well-being of individuals indirect versus direct?” health system staff pharmacists rated the factor mid-range at 5.3. In reviewing complex therapies and collaborating with other health care providers in the health system, pharmacists can have a very direct effect on helping people. However, other work in the pharmacy, such as dispensing and IV medication preparation, has more indirect impact on people.  

= 5.3

1 2 3 4 5 6 7 8 9 10
All effect is indirect

Collaboration with Other Professionals
To the same degree that community pharmacists deal with the public and their patients, health system pharmacists work with other health care professionals. In the health system setting, there is the opportunity to interact with any number of specialty caregivers in obstetrics, nutrition, oncology, transplant, surgery, infectious disease, or other specialty areas. Health system pharmacists are exposed to wide array clinical opportunities.  

= 6.9

1 2 3 4 5 6 7 8 9 10
None of my time

Educating Other Professionals
By regularly interacting with other health care providers, health system inpatient pharmacists have the opportunity to educate those professionals. Health systems are a very intensive care environment and those who work there are always looking to expand their knowledge base to remain current with up-to-date information and provide the best care for their patients.  

= 4.7

1 2 3 4 5 6 7 8 9 10
None of my time

Variety of Daily Activities
Health system staff pharmacists indicate that their daily activities are split between those that are repetitive and those that are variable. Part of this may be attributed to the wider variety of medications that health system pharmacies handle. Besides oral medications, health system pharmacists handle chemotherapy, injectable medications, nutrition therapies, hydration therapy, and others that may have a different protocol to follow.  

= 5.2

1 2 3 4 5 6 7 8 9 10
Highly repetitive
Multiple Task Handling
With a large variety of medications and patients needing a high degree of attention and care, health system staff pharmacists are charged with making sure those medications are delivered on time and accurately, and that those medications are optimal for patients. At the same time, staff pharmacists are required to answer phones and work with other professionals assisting them with patient care.

Problem Solving
Health system staff pharmacists report that when faced with a problem in their practice, they are mid-range in the way they arrive at a solution. With more complicated patients, therapies sometimes will be chosen that require new approaches. And, each patient may respond differently to any given therapy, so adjustments must be made. However, many past experiences can be called upon to solve other problems.

Focus of Expertise
Inpatient pharmacists maintain a relatively general knowledge base. Health system practice in a university health system setting, however, does offer the opportunity for pharmacists to become more specialized and focused in their practice if they have a particular interest.

Innovative Thinking
In response to the question, “To what extent does your practice involve generating new ideas (innovative thinking) pertaining to pharmacy?” respondents rated the factor a mid-range 5.6, indicating that their practice requires some innovative thinking. This is especially true in times of drug shortages when creative solutions must be used to provide appropriate care to patients.

Applying Scientific Knowledge
Virtually every aspect of a health system pharmacist’s role involves the medications they learned about in pharmacy school, whether helping another health professional or the
patient directly. Applying the science behind the medication is important to help realize optimal therapy.

= 6.1

### Applying Medical Knowledge

The utilization of medical knowledge is crucial in planning and development in a health system setting. Taking into account the collaboration with other professionals in the health system, applying one’s medical knowledge keeps pharmacy aligned with all departments.

= 7.1

### Creating New Knowledge by Conducting Research

The standard community or rural health system may not be involved in research projects. More often, research activities take place in university teaching health systems. These facilities are typically larger and serve a variety of patient populations; the more diverse patient population usually affords conducting research projects on new medications or therapies.

= 2.4

### Management/Supervision of Others

Health system inpatient pharmacists, at a minimum, interact with and supervise numerous technicians, and have the potential to grow into other management positions.

= 4.4

### Management/Supervision of a Business

Inpatient pharmacists rated this factor a 3.3. Health system managers are involved in more business oversight than are staff pharmacists.

= 3.3

### Pressure/Stress

Health system inpatient pharmacists reported that they frequently work under pressure or experience work-related stress. This is especially true when dealing with patients in critical
care situations. Minor adjustments in therapy can sometimes mean the difference between whether a patient goes home or stays in the health system. At times, these adjustments are needed immediately.

= 6.5

1 2 3 4 5 6 7 8 9 10
Never experience pressure/stress

Always experience pressure/stress

Work Schedule
Health systems are unique from many other work environments because they must stay open 24 hours a day, 365 days a year. This can make the work schedule difficult for pharmacists because they are needed on the night shift, on holidays, and during weekends. However, staff pharmacists report that their work schedule was generally predictable with a 6.1 rating. Although they may work odd hours including weekends and night shift occasionally, the schedule is typically a rotating one allowing for predictability.

= 6.1

1 2 3 4 5 6 7 8 9 10
Irregular/unpredictable

Regular/predictable

Part-Time Opportunities
Because health systems never close, there is an opportunity for pharmacists to work part-time, filling in schedule gaps. There is generally the opportunity to work a couple days or evenings during the week within the health system setting.

= 5.8

1 2 3 4 5 6 7 8 9 10
No opportunity for part-time employment

Always opportunities for part-time employment

Job-Sharing Opportunities
There are limited job-sharing opportunities for health system staff pharmacists.

= 3.1

1 2 3 4 5 6 7 8 9 10
No opportunity for job-sharing

Always opportunities for job-sharing

Exit/Re-entry Opportunities
Opportunities do exist to exit/re-entry for health system staff positions. The difficulty here is being able to re-enter the same position.

= 4.9

1 2 3 4 5 6 7 8 9 10
No opportunity for exit/re-entry

Always opportunities for exit/re-entry
Parental Leave Opportunities
As health systems are larger organizations, parental leave tends to be one of the benefits offered to employees.

= 7.0

Leisure/Family Time
Respondents indicate that despite holidays, weekends, and overnight shifts, they had the ability to plan free time for themselves and their family. This is related to the predictable work schedule that health system pharmacists enjoy.

= 6.1

Job Security
Rated at a 7.1, health system inpatient pharmacists generally have substantial job security.

= 7.1

Opportunities for Advancement
In health system pharmacy, opportunities to advance could include becoming more specialized in practice or becoming involved in management and administration. The opportunity for either is greater within larger organizations.

= 4.9

Opportunities for Leadership Development
Leadership development was rated 5.6 in the survey response. As a health system inpatient pharmacist, developing leadership may not be needed for most job aspects. However, it can be important when working with other health care professionals in making decisions on medication choices and therapy adjustments and especially for pharmacy managers.

= 5.6
Community Prestige
Especially in the smaller community health system setting, pharmacists often become well known in their community for the services they provide. Their community prestige can be tied at times to the strength of the outreach that the health system provides.

= 5.8

Professional Involvement
Professional involvement of individual pharmacists is crucial to the development of the profession as a whole. Pharmacists need to communicate with each other so that the profession can continue to advance toward providing optimum health care for the public. In this survey, health system staff pharmacists were in the mid-range for having the opportunity to be professionally involved in meetings and events in their profession.

= 6.0

Income
Generally health system inpatient pharmacists feel that they are properly compensated.

= 6.8

Benefits (vacation, health, retirement)
Often directly linked to income or salary, respondents rated benefits higher than income. Health system inpatient pharmacists indicated that they have good benefits.

= 8.0

Geographic Location
Health system staff pharmacists feel they can practice in many places throughout the country.

= 5.2

Working Remotely
There is little opportunity for inpatient pharmacists to work remotely. Some outliers would
include the limited opportunities for pharmacists to work full time from home doing mostly order entry (using scanned copies of orders) and other non-dispensing functions.  

= 2.4

1 2 3 4 5 6 7 8 9 10
Never can work remotely Always can work remotely

**Autonomy**
In a health system, working with other health care professionals as a team, a pharmacist is looked to as the medication use expert. The pharmacist’s opinion on medication use is trusted by other providers and implemented when treating a patient. This gives the pharmacists a good deal of autonomy in their work.  

= 6.5

1 2 3 4 5 6 7 8 9 10
No autonomy Total autonomy

**Self-Worth**
Health system staff pharmacists feel a great deal of self-worth in their work. Helping make critical therapy decisions, working with other health care professionals, and making a difference in patients’ lives all contribute to feeling value in the work they do.  

= 6.8

1 2 3 4 5 6 7 8 9 10
Never allowed Always allowed

**Future Focus**
Respondents indicated that they are mid-range in focusing on immediate tasks versus being future focused. Health systems care for a mix of patients; some are in and out of the health system in a matter of days, while others may be in the health system for weeks to months. With longer-term patients, pharmacists must think ahead and determine what may be needed, anticipating therapy for those patients as they progress.  

= 5.9

1 2 3 4 5 6 7 8 9 10
Focus on immediate task Focus on future

**Professional Prestige**
Working with other health care professionals on a day-to-day basis, pharmacists become well known in the health system for their abilities by physicians, nurses, and others. However, there is usually little chance for interacting with other pharmacists and professionals outside of their own health system.  

= 4.8

1 2 3 4 5 6 7 8 9 10
Never provided Always provided
Unique Practice Environment
The uniqueness of the health system practice environment will depend greatly on each health
system’s characteristics and pharmacy layout. In the classic centralized-pharmacy setting,
there may not be much opportunity for unique practice approaches. However, in health
systems that employ satellite pharmacies, there is a chance for pharmacists to get much more
involved with their patients and with other professionals.

= 4.6

1 2 3 4 5 6 7 8 9 10
Not at all unique Extremely unique

Advanced Degree
Typically in health system pharmacy, an advanced degree is required only if the individual
chooses to pursue a management position or wants to become specialized in an area of
practice. Since the nature of the practice may not be geared as much to research, advanced
degrees typically are not required.

= 4.1

1 2 3 4 5 6 7 8 9 10
Advanced degree not required Advanced degree required

Entrepreneurial Opportunity
There are very few entrepreneurial opportunities for health system staff pharmacists.

= 2.2

1 2 3 4 5 6 7 8 9 10
Not at all Extremely

Additional Training
With the number of conditions and treatments encountered in a health system, staff
pharmacists must continually keep up with new research and therapy regimens. The health
system is a very natural venue for learning and adding to one’s knowledge set.

= 5.9

1 2 3 4 5 6 7 8 9 10
Not required Always required

Interacting With Colleagues
Considering that this factor is one of the more appealing aspects described by survey
respondents, it is not surprising that it ranks as high as it does.

= 7.1

1 2 3 4 5 6 7 8 9 10
None of my time All of my time
Travel
In contrast to the previous two factors, which were in the high range, health system pharmacists rated travel with one of the lowest ratings at 1.7. Travel is not a specific requirement for the day-to-day roles of these pharmacists.

= 1.7

Writing
Respondents were in the low range in the amount of writing that they do. Some may need to document clinical interventions, write stories for department newsletters, or write reports for health system committees.

= 2.6

Working with Teams
Many health system staff pharmacist positions have functions that rely on interactions with others. The extent of working in teams, however, depends on the management and administration of the group.

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Reference

Professional Organizations
American Hospital Association (AHA)
One North Franklin, Chicago, IL 60606
Tel: 312-422-3000  Fax: 312-422-4796
www.aha.org

American Pharmacists Association (APhA)
2215 Constitution Ave, NW, Washington, DC 20037
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www.pharmacist.com

American Society of Health-System Pharmacists (ASHP)
7272 Wisconsin Avenue, Bethesda, MD 20814
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www.ashp.org

Board of Pharmacy Specialties (BPS)
2215 Constitution Ave, NW, Washington, DC 20037
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www.bpsweb.org