Pharmacists’ Perceptions of Their Professional Role: Insights into Hospital Pharmacy Culture

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ABSTRACT

Background: Numerous studies have demonstrated the positive impacts of pharmacists on patient outcomes. To capitalize on these positive impacts, hospital pharmacy organizations around the world are now calling on pharmacists to shift their focus from distribution of medications to patient outcomes. This new emphasis is consistent with the vision statement for the profession of pharmacy in Canada, as set out in the Blueprint for Pharmacy: “Optimal drug therapy outcomes for Canadians through patient-centred care”. Given the ambitious nature of this statement and these goals, it is essential to understand what pharmacists currently think of their practice.

Objective: To conduct a qualitative and semiquantitative analysis of hospital pharmacists’ perceptions of their role in patient care.

Methods: A researcher posing as a University of Alberta student who was studying how health professionals use language to describe what they do contacted the pharmacy departments of all hospitals in Alberta. The “top-of-mind” approach was used in asking hospital pharmacists 2 questions: (1) How many years have you been practising pharmacy? (2) In 3 or 4 words (or phrases), from your perspective could you please tell me, “What does a pharmacist do”? These techniques were used to minimize the impact of social desirability bias. Content analysis was used to categorize hospital pharmacists’ responses into 4 broad categories: patient-centred, drug-focused, drug distribution, and ambiguous.

Results: A total of 103 phone calls were made to hospital pharmacies, and 85 pharmacists contacted in this way were willing to participate in the survey. Hospital pharmacists provided 333 individual responses to the question about their activities. Of these, 79 (23.7%) were patient-centred, 98 (29.4%) were drug-focused, and 82 (24.6%) were in the drug-distribution category. Ambiguous responses accounted for the remaining 74 (22.2%).

Conclusion: Aspects of care categorized as other than patient-centred should not be construed as unimportant. However, the fact that they were reported in this survey more frequently than patient-centred aspects suggests that hospital pharmacists in Alberta may have not fully embraced the concept of patient-centred care as outlined in the Blueprint for Pharmacy.

Key words: patient-centred, drug-focused, drug distribution, top-of-mind approach, hospital pharmacist, pharmacy culture

INTRODUCTION

There has been a relatively long tradition of clinical activities being performed by pharmacists working within the hospital setting,¹ and numerous studies have demonstrated the positive impact of pharmacists on patient outcomes.²⁻⁵ For example, an evaluation of pharmacists' clinical interventions from 1989 to 1998 demonstrated a decrease in mortality with the provision of 7 pharmacy services, specifically drug use evaluation, in-service education provided by pharmacists, monitoring of adverse drug reactions, management of drug protocols, participation on the cardiopulmonary resuscitation team, participation in medical rounds, and completion of admission drug histories.² Hospital pharmacists have also proven their role in improving the safety and efficacy of drug therapy in various patient populations.²⁻⁴

To capitalize on these successes, hospital pharmacy organizations around the world are now calling on pharmacists to shift their focus from distribution of medications to patient outcomes.¹ For example, the Hospital Section of the International Pharmaceutical Federation (FIP) developed the Basel Statements,² and the Canadian Society of Hospital Pharmacists (CSHP) recently developed 6 goals in what it has called Vision 2015,³ both of which emphasize patients’ outcomes. This new emphasis is consistent with the vision statement for the profession of pharmacy in Canada, as set out in the Blueprint for Pharmacy: “Optimal drug therapy outcomes for Canadians through patient-centred care.”⁴

Given the ambitious nature of these statements and goals, it is essential to understand what front-line pharmacists currently think of their practice. Such understanding may in turn help in developing an understanding of some assumptions of hospital pharmacy culture. In this context, culture can be understood as a group of individuals carrying out particular activities in a specific environment, using a pattern of shared values, beliefs, and assumptions.¹⁰⁻¹³ Understanding the culture is important because of its powerful influence on human behaviour,¹⁵ as represented by the popular adage from the business literature, “Culture eats strategy for breakfast.”¹⁴ As such, if there is any hope of attaining the goals outlined in both the CSHP’s Vision 2015 and the Blueprint for Pharmacy, a better understanding of hospital pharmacy culture is needed. The aim of the study reported here was to conduct a qualitative and semiquantitative analysis of hospital pharmacists’ perception of their role in patient care.

METHODS

Data Collection

A brief survey of hospital pharmacists was conducted in Alberta. In calculating the required sample size, it was estimated that 35% (± 10%) of respondents would use language consistent with patient-centred care. Using Epi Info software, version 6 (Centers for Disease Control and Prevention, Atlanta, Georgia), Stat Calc for population surveys, it was determined that interviews with 85 pharmacists were needed to render a confidence level of 95%. The target number was increased to 103, to reflect the number of hospitals in Alberta. A list of all hospitals in Alberta was obtained from the Alberta Health Services website (www.albertahealthservices.ca/facilities.asp?pid=facilities). The switchboard operator at each hospital was contacted and asked to transfer the call to the pharmacy. An interview was conducted with the first pharmacist at each location who agreed to participate.

One of the researchers (Y.N.A.), posing as a University of Alberta student studying how various health care professionals use language to describe what they do, made the calls. A “top-of-mind” approach, which “examines what people might tell each other in casual conversation”,¹⁵ was used to engage each respondent’s adaptive unconscious, those mental processes that are inaccessible to the conscious mind but that influence judgments, feelings, or behaviours.¹⁶ The slight deception and the “top-of-mind” approach were used to obtain an accurate description of how pharmacists really see themselves, without the interference of social desirability bias (a form of bias that causes participants to provide the responses that they think the researcher wants to hear).¹⁷

The researcher asked each participant 2 questions: (1) How many years have you been practising pharmacy? (2) In 3 or 4 words (or phrases), from your perspective could you please tell me, “What does a pharmacist do?”. The participants were informed that their answers would be recorded by hand. The study was approved by the Health Research Ethics Board of the University of Alberta.

Analysis

Two researchers (Y.N.A., M.R.) independently coded the responses using definitions of drug distribution (dispensing) and patient-centred care obtained from the implementation plan of the Blueprint for Pharmacy¹⁸ (Table 1). Further qualitative content analysis revealed a third theme: drug-focused services, i.e., services that focus primarily on a particular drug, drug-related monitoring, or a pharmaceutical or clinical function that is designed to optimize a given drug therapy (e.g., pharmacokinetic monitoring services; see Table 1).¹⁹⁻²⁰ A fourth theme (‘ambiguous’) was used for responses that did not fit within any of the other themes. More specifically, if the response could have been categorized in multiple categories (patient-centred, drug-focused, and drug distribution), or if the context of the response did not allow categorization, it was considered ambiguous.³ After independent coding was complete, the 2 researchers sat together and compared their coding. Differences were resolved by discussion; if agreement could not be reached, differences were resolved by consultation with a third researcher (R.T.T.).
Statistical analyses, including analysis of variance and χ² tests, were performed to assess any differences in responses related to respondents’ years in practice or the location of the hospital (urban [population > 10,000] versus rural [population ≤ 10,000]).

RESULTS

Of the 103 telephone calls to hospital pharmacies, 85 led to contact with hospital pharmacists who agreed to participate in the study. In 7 instances, there was no pharmacist on site; at 1 hospital the pharmacist declined participation, and at 10 hospitals, a pharmacy technician, rather than a pharmacist, was on site. Of the 85 pharmacists who participated, 52 were based in rural settings. The average number of years in practice was 20.9 years (standard deviation 10.4 years).

The 85 pharmacists provided a total of 333 responses to the question about their activities (see Table 2 for examples). Patient-centred responses accounted for 79 (23.7%) of the total responses, drug-focused services accounted for 98 (29.4%), and 82 (24.6%) responses were in the drug-distribution category. The remaining 74 responses (22.2%) were categorized as ambiguous.

An examination of the first activity reported by each hospital pharmacist was also undertaken. More than half of the participants (51 of 85) reported either a drug-focused or a drug-distribution activity first, and 21 provided a patient-centred activity as the first response. Additional statistical analyses showed no significant differences in hospital pharmacists’ responses in relation to years in practice or location of the hospital (urban versus rural).

DISCUSSION

Both the CSHP and the Canadian Pharmacists Association (CPhA) have developed ambitious visions for the future of hospital pharmacy practice in Canada through Vision 2015® and the Blueprint for Pharmacy, respectively. However, less
than one-quarter of participants’ responses in the present study described what hospital pharmacists do in patient-centred terms. This result may mean that hospital pharmacists have not yet fully embraced the idea of patient-centred care.

This finding supports those of the Hospital Pharmacy in Canada 2007/2008 Report, which highlighted that only 25% of inpatient beds were served with the pharmaceutical care model, the definition of which most closely matches that of patient-centred care used in the present study. The findings in the present study also support those of Stuchbery and others, who conducted direct observational studies of the activities of clinical pharmacists. These authors reported that 31.4% of the observed clinical pharmacist activities in Australia and 28% of those in Malta were patient-centred. Interestingly, in a similar study conducted by our group, community pharmacists in Alberta also provided a low proportion of patient-centred responses (29%).

On the basis of previous evidence and the findings of the present study, it seems that hospital pharmacists view themselves primarily as “guardians of medication”. Given the definitions of drug-focused and drug-distribution activities, hospital pharmacists seem to believe that their purposes are to ensure that patients are getting their medications in a safe way, to monitor for side effects, and to provide information about medications to physicians, nurses, and patients. Although each of these duties is important to patient care, none is inherently patient-centred.

If hospital pharmacists are working from the cultural assumption that they are “guardians of medication,” they may feel that their sole focus should be on medications. As such, the drug would take precedence over the patient, who becomes a mere receptacle of medications rather than a “walking, talking, confusing, disorganized human being.” It must be noted, however, that hospital pharmacists are probably not making a conscious decision to focus more of their attention on drugs. Rather, the underlying assumption in pharmacy culture that has been inferred from the results of the present study makes the transition in practice (from drug-focused to patient-centred) extremely difficult for them to even conceptualize. Pharmacy managers may also be responsible for directing pharmacists toward more drug-focused activities.

Unfortunately, this cultural assumption contradicts the visions set out by both the CSHP and the CPhA. As is widely accepted in the business literature, if the culture and the strategic approach to practice change do not align, any change or advancement becomes almost impossible. Although the cultural assumption that hospital pharmacists are “guardians of medication” is likely one of many under which hospital pharmacists function, it provides some insight into why patient-centred care may not be as prevalent as it could be within hospital settings. As such, further examination and understanding of hospital pharmacy culture is imperative if the visions of the CSHP and the CPhA are to be attained.

This study had some limitations. Hospital pharmacists were contacted through each hospital’s switchboard. A potentially unintended consequence of this approach may be that the pharmacist with whom the researcher spoke was primarily responsible for dispensing medication (most hospital pharmacists have a combination of clinical and dispensing duties on a rotational basis). Another potential limitation relates to the restricted response parameters given to each respondent. Had the pharmacists been given more time to think about their responses, they might have answered differently. However, the intention of the methodological approach used in the present study was to engage the adaptive unconscious and to avoid social desirability bias. We feel that the results are generalizable to at least Alberta, since we called all hospital pharmacies, rather than a sample of them. Although not the focus of this study, it would have been interesting to probe deeper into pharmacists’ “top-of-mind” responses to gain further insight.

Hospital pharmacists may not fully embraced patient-centred care as outlined in the Blueprint for Pharmacy. Consequently, the question becomes, “Do hospital pharmacists want to be patient-centred in their practice?” If so, the results of this survey should be taken not as representing defeat, but rather as a call to action. According to Fritz, author of The Path of Least Resistance for Managers, the first step in enacting change in an organization or profession is to precisely define reality. While the results of this survey begin to describe the culture of hospital pharmacy, more work is needed.

References

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