Patients and Caregivers Helping to Shape the Undergraduate Pharmacy Mental Health Curriculum

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Objective. To develop a model system for involving patients and caregivers in curriculum development of mental health education in an undergraduate pharmacy program.

Methods. Purposive recruitment was used to convene a focus group of nine people with experience in using mental health services from either the patient or caregiver perspective. Group members were asked about their experience with using pharmacy services and their suggestions for enhancement of the undergraduate curriculum. Thematic analysis was conducted independently by two researchers.

Results. Patients and caregivers believed that pharmacists could contribute to the care of people who experience mental health conditions by supporting shared decision making, providing information, actively managing side effects of psychotropic medication, and conducting regular medication review. Subjects suggested that the pharmacy undergraduate curriculum should introduce mental health from the beginning, include self-care for students, integrate mental and physical health education, and enhance students’ communication skills. The curriculum should include broader issues relevant to mental health beyond the use of medication, such as stigma, the recovery approach, and interprofessional cooperation. These changes could support graduates in engaging proactively with people experiencing mental health difficulties.

Conclusion. Involving patients and caregivers in the design of an undergraduate pharmacy curriculum in mental health resulted in a more person-centered and student-centered approach to mental health education at our university. Ultimately, the changes made to the undergraduate curriculum will improve the ability of pharmacy graduates to better meet the needs of patients.

Keywords: Pharmacy, education, mental health, curriculum, patient and public involvement.

INTRODUCTION

Patient and public involvement in the provision of health care can lead to better care-related outcomes.1-5 Involvement means actively working with members of the public (patients, their relatives, or members of the general public) as distinct from “engagement” (where information and knowledge are shared with the public) and “participation” (where people take part in education).6 The World Health Organization (WHO) has described Integrated People Centered Health Services (IPCHS) as “putting the needs of communities, not diseases, at the center of health systems and empowering people to take charge of their own health.”11 The IPCHS vision describes the creation of an enabling environment where people and communities can work together, being actively engaged at all levels within the health system. At an individual level, the concept of medicine optimization has shifted the focus from the systems and process of medication use to the outcomes that matter most to individuals by using a collaborative approach that includes shared decision-making.4 Therefore, academic, training and research institutions have an important role to play in developing new professional curricula for a health workforce that can deliver person-centered services, reflective of the needs and values of patients and caregivers. To do this effectively, people and communities must be enabled to contribute meaningfully to health professions education.1,2,7-9

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Historically, mental illnesses such as schizophrenia were considered chronic and severely disabling with little hope of improvement or reintegration into society. These perceptions were challenged by those with “lived experience” with mental illness, leading to a new understanding of recovery as an individual journey to bring meaning and purpose to life even if symptoms remain. Components of recovery include finding and maintaining hope, reestablishment of a positive identity, building a meaningful life, and taking responsibility and control. The recovery approach now underpins mental health policy internationally. Patient and public involvement is therefore essential in mental health education for health care professionals, with recovery-focused teaching methods (such as contact-based learning and sharing personal stories of recovery) having a positive impact on professional attitudes toward those experiencing mental illness.

Pharmacists have an important contribution to make to the delivery of mental health services. Medicines are frequently used as a care option in mental health, and many of these medicines are associated with side effects and poor adherence. Studies suggest that pharmacists are less confident in providing mental health care than physical health care. One reason for this is that undergraduate curricula are largely theoretical and offer few opportunities to engage with people experiencing mental health difficulties. A review by Rutter and colleagues of the mental health curriculum at 19 schools of pharmacy in the United Kingdom found that, while common mental health conditions were taught in detail, the broader social aspects of mental health, such as the impact of stigma, was taught by just five of the 19 schools. Experiential learning opportunities were offered by a third of the UK schools. In the United States, Cates and colleagues found that there was considerable variation between schools with regard to the way psychiatric topics were taught. While 46 of the 48 colleges surveyed offered an advanced pharmacy practice experience (APPE) in mental health this was offered as an elective component in 44 of the schools with a mean enrolment of only 20.2% of all students (range of 3% to 60%).

Frameworks have been devised to allow the characterization of the degree of patient involvement in health professions education through a spectrum from minimal passive involvement to an active, full partnership approach. Tew and colleagues, for example, described “the ladder of involvement” with five levels at which patients can contribute to education, ranging from “no involvement” to “full partnership” (Table 1). Although this framework was developed in the context of mental health education, it can be applied across all education programs for health professionals and may be used as a way to monitor patient and public involvement in education programs. Systematic reviews of the extent and type of patient and public involvement in education have found few examples of an engaged partnership approach at the level of curriculum design. Moreover, Spencer and colleagues’ systematic review of patient and public involvement in universities in the United Kingdom found that driving patient and public involvement in education was based on individual enthusiasm for projects rather than a management-led approach by the universities, and that there is a need to describe more clearly in the literature how patients are involved in education. Accreditation bodies are increasingly requiring evidence of

Table 1. Tew’s Ladder of Involvement in Mental Health Education

<table>
<thead>
<tr>
<th>Level 1: No involvement</th>
<th>Curriculum planned and delivered with no consultation or service user involvement.</th>
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<tr>
<td>Level 2: Limited involvement</td>
<td>Service users and caregivers are invited to ‘tell their story’ but there is no opportunity to participate in shaping the course.</td>
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<tr>
<td>Level 3: Growing involvement</td>
<td>Service users and caregivers contribute regularly to at least two of the following: planning, delivery, student selection, assessment, management or evaluation. However, key decisions on curricula are made in forums in which service users and caregivers are not represented. Payment is made at normal lecturer rate but there is no consistent support, supervision or training available.</td>
</tr>
<tr>
<td>Level 4: Collaboration</td>
<td>Service users and caregivers contribute to key decisions on all matters of curriculum and are involved as full team members in at least three of the following: planning, delivery, student selection, assessment, management or evaluation. There is regular provision of training, supervision and support, and positive steps are taken to encourage service users and caregivers to access programs as students.</td>
</tr>
<tr>
<td>Level 5: Partnership</td>
<td>Service users, caregivers and teaching staff work together systematically and strategically across all areas and this is underpinned by an explicit statement of values. All key decisions are made jointly. Service users and caregivers are employed as lecturers on secure or long-term contracts. Positive steps are taken to encourage service users and caregivers to join programs as learners even if not in a position to achieve qualifications.</td>
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patient and public input into education. However, there is a need for more research into how we involve patients in pharmacy education. Patient and public involvement at the level of undergraduate pharmacy curriculum design, for example, has not been extensively explored in the literature.

In this study, we sought to involve patients and caregivers in the development of the mental health component of the Master of Pharmacy (MPharm) curriculum at the Royal College of Surgeons in Ireland (RCSI). Prior to 2015, pharmacist education in Ireland involved completing a four-year honors bachelor degree program, with practice-based experience occurring in the fifth year and leading to an award at the masters level and registration with the professional body. Following the recommendations of the Pharmacy Education and Accreditation Reviews Project (PEARS), undergraduate education is now delivered as a five-year master’s program, with workplace placements integrated within the academic program. This transition offered us the opportunity to develop patient and public involvement by consulting patients and caregivers regarding the curriculum. Our hypothesis was that the views of the focus group would help improve the way in which mental health education was delivered to undergraduate pharmacy students by drawing on patients’ experiences of living with mental health conditions and their previous experience with pharmacy services. We hoped to identify at least two new ideas offered by the focus group that could be implemented in the curriculum. This exercise was part of a longitudinal mixed methods study evaluating the impact of changes to the MPharm curriculum on graduates’ confidence in caring for people with mental health conditions, and is considered a pilot initiative with the intention of developing patient and public involvement across other aspects of the pharmacy program.

METHODS

The RCSI developed a unique Memorandum of Understanding (MoU) with a psychiatric teaching hospital, Saint John of God Hospital (SJOGH). The memorandum aligned the vision statements of both organizations and included a commitment to the core principles of recovery, patient activation, and medicines optimization. The common vision of the organizations was to improve the undergraduate pharmacists’ curriculum in mental health through the traditional means of clinical placements and practice-based educators, development of novel learning experiences, and facilitation of patient and caregiver involvement.

We chose qualitative methodology to explore the views of patients and caregivers regarding pharmacy services and to elicit their opinions on how the content and delivery of the MPharm curriculum could improve those services. The focus group method allows participants to interact with each other, sharing ideas and experiences and facilitating in-depth exploration of the topic. Focus groups are commonly used in health care education and have been used elsewhere to assess service needs and guide program development. Ethics approval was received from the Saint John of God Hospital Ethics Committee and the RCSI Research Ethics Committee.

A purposive recruitment approach was used that involved the selection of participants in a strategic manner to ensure they had experiences relevant to the study. Patients and caregivers were invited to participate through several voluntary, peer support, and advocacy organizations. The organizations were chosen by the researchers so that participants would have experience of a range of mental health conditions, be users of public and private mental health services, have advocacy experience and come from diverse geographic locations. Information about the aim and objectives of the study was circulated through the organizations’ networks, and volunteer study participants were sought to represent their organizations. All of the patients and caregivers provided written consent to participate in the study.

The focus group was facilitated by the lead investigator. A senior academic involved in curriculum development was also present. A semi-structured topic guide was used to ensure the focus group was conducted in a timely manner and that the research questions were addressed. Participants were first asked to describe their experience of pharmacy services and how they thought a pharmacist could contribute to mental health care. The outline of the proposed new MPharm curriculum was presented and explained. The participants were asked if they had views on how the curriculum could prepare pharmacists to deliver the desired services. Key concepts raised during the discussion were noted on a flip chart and the facilitator invited other members of the group to agree or disagree. The focus group proceedings were recorded and transcribed verbatim.

The analytic approach was deductive and based on our hypothesis that the views of the participants could enhance the delivery of mental health education for undergraduate pharmacists. The purpose of the analysis was to identify key concepts, including important experiences and ideas that were relevant to the research question. The data were analyzed for anticipated and emergent themes. Braun and Clarke’s method of thematic content analysis was used. Following familiarization with the data, initial codes were generated and data that were relevant to each code were collated. Coded data were then grouped
into themes which, following further review, were defined and named. Portions of the data were extracted to illustrate key themes. Two researchers, one of whom was not present during the focus group, independently analyzed the data. Differences in opinion regarding the data analysis were resolved through discussion.

Following the analysis of feedback from service users and caregivers regarding the new MPharm curriculum, a number of modifications were made. A review of relevant literature was conducted to identify additional evidence to support the suggestions for change to the MPharm curriculum that were identified through the focus group discussions. Therefore, each final recommendation had been generated through the experience of patients and caregivers and also had an evidence base in the literature. Participants were subsequently contacted by e-mail to inform them of the recommendations that were identified from the study, facilitate further input, and thank them for their time and expertise. None of the participants added any further comments following the focus group.

RESULTS

The focus group consisted of nine people: four men and five women. Two were users of the private health care system, while the other seven used public health services. Three members of the group were caregivers of an individual with severe and enduring mental health conditions and six had used mental health services themselves. The patient representatives had experience caring for a person with schizophrenia, bipolar disorder, depression, alcohol use disorder, and/or anorexia nervosa. The themes and sub-themes derived from the data are listed in Table 2. Quotations chosen to illustrate themes are listed in Appendix 1.

The participants in the focus group had varied experiences with pharmacy services. Of the nine participants, two (one patient and one caregiver) described having a good professional relationship with a local community pharmacist, and one other participant (a caregiver) was aware of a mental health pharmacist who worked in a clozapine clinic (Appendix 1, quotation 1). The remainder of the group described few interactions with pharmacists despite frequently using pharmacy services to obtain medications (Appendix 1, quotation 2).

Concerns about lack of confidentiality in the pharmacy setting was discussed by the participants as a potential barrier to accessing mental health care. All pharmacies in Ireland are required by law to have a consultation room. While some were aware of the presence of consultation rooms, only two participants (one patient and one caregiver) described having used this facility in the past. According to the focus group members, stigma was a significant issue for those using medicines to support recovery from mental health difficulties, and they felt that pharmacists should be mindful of this when supplying medicines to these patients (Appendix 1, quotation 3).

Based on their experiences with mental health care, focus group members suggested that the pharmacist could be an effective member of the multidisciplinary team. Pharmacists could proactively provide reliable, accessible information with regard to medication. Participants in the group felt that they were not given the information they required about the indications for the medications they were prescribed or about the potential adverse effects of the medication. They expressed a desire for information that was relevant to them and unbiased in nature (Appendix 1, quotation 4). Caregivers felt that they also required information about medication so that they could be more informed as to how to support their family member in recognizing and managing side effects.

The impact and experience of medication side effects was a significant concern to all those who participated in

Table 2. Themes Derived From Input Provided by a Focus Group of Mental Health Patients and Caregivers Who Discussed Pharmacy Education and the Role of Pharmacists in Mental Health Care

<table>
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<tr>
<th>Topic</th>
<th>Theme</th>
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<tr>
<td>Experience of Pharmacy Services</td>
<td>Experience of interacting with pharmacists</td>
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<tr>
<td>The role of the pharmacist in mental health care</td>
<td>Barriers and facilitators to the provision of mental health care by pharmacists</td>
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<tr>
<td>Review of the MPharm Curriculum</td>
<td>Provision of information regarding medication</td>
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<td>Management of side effects of medication</td>
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<td>Medication review</td>
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<td>Advocacy and empowerment</td>
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<td>Communication and Engagement</td>
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<td>Categorizing mental health within a systems-based framework</td>
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<td>Teaching methods</td>
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<td>Inter-professional education</td>
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<td>Self-care</td>
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the focus group. Two participants described experiences where they felt they were not listened to when coping with side effects and that a pharmacist could potentially have recognized their experiences as side effects to medication at an earlier stage. Three participants felt that expressing their concerns about side effects would be seen as argumentative or a symptom of their mental health problem rather than a genuine adverse effect of the medication requiring attention. The pharmacist could also explain the need for monitoring parameters and the potential to avoid or manage side effects before they became problematic (Appendix 1, quotation 5).

Patients and caregivers want regular medication reviews, with consideration given to reducing doses or discontinuing medications. This would ensure ongoing attention to the balance between the benefits and risks of medication for the individual (Appendix 1, quotation 6). A pharmacist could facilitate regular medication review to help the patient optimize the use of medication with the goal of improving the person’s quality of life.

Participants in the group said they would like to be more involved in the decision-making process with regards to the choice of and need for medication. Pharmacists could facilitate this kind of engagement by providing the patient and/or caregiver with appropriate information to assist them in shared decision-making. In this context, the pharmacist was described as an advocate, independent of mental health services, with the potential to facilitate communication between the patient and members of the multidisciplinary team (Appendix 1, quotations 7 and 8). Therefore, despite previous lack of engagement with pharmacists, participants recognized the potential contribution that pharmacists could make to their care.

The focus group endorsed patient and caregiver input into teaching undergraduate pharmacy students as a means of encouraging engagement and breaking down barriers. Innovative experiential learning opportunities could be sought. One example was to invite students to attend a peer support group for caregivers of people who have been diagnosed with schizophrenia. Participants suggested that the content of the course could be expanded to include more information on diagnoses, for example, eating disorders, dual diagnosis, child and adolescent mental health, and the importance of early intervention. One patient suggested that students also need to gain an understanding of the psychological impact of using medications (Appendix 1, quotation 9).

The focus group members were made aware of the available training programs that supported engagement around mental health and, specifically, suicide prevention. Mental Health First Aid (MHFA), Applied Suicide Intervention Skills Training (ASIST) and safeTALK were suggested as means of training pharmacy students. Participating in brief educational interventions such as these could improve pharmacy students’ communication skills and encourage them to initiate conversations about mental health with patients (Appendix 1, quotation 10). One participant suggested that pharmacy students’ communication skills could be further enhanced through role play.

The focus group emphasized the need for health care professionals to understand broader aspects of mental health care such as the impact of stigma and alternatives to medication (Appendix 1, quotations 11 and 12). Efforts should be made not only to tackle any stigmatizing views that the pharmacy students may hold themselves but also to teach pharmacists to fulfil their role in educating the public about mental illness. This would inform the pharmacist’s approach to confidentiality in the community pharmacy setting. There was consensus from the group that the ethos of recovery should underpin teaching (Appendix 1, quotation 13). This theme emerged through the discussions, was initially suggested by a female caregiver, and was supported by other participants. In practice, this means introducing students to what is meant by recovery in mental health care and ensuring the “patient’s voice” informs clinical teaching. A participant in the study felt that the characteristics of the person who delivers the teaching to students was important as this would have an impact on learning and the impression of mental health care that the students developed (Appendix 1, quotation 14).

There was an acknowledgement that community pharmacists work in isolation from mental health services and general practitioners, which is a barrier to meaningful interactions regarding medication use. Thus, patients and caregivers having access to pharmacists in the hospital setting would be a positive development that would help initiate their relationship with the profession. One participant suggested that health care professionals of different disciplines should learn together in order to help them better practice together as qualified clinicians (Appendix 1, quotation 15).

In the MPharm curriculum, mental health was a component of the Central Nervous System module delivered in the second year of the program. The group had mixed opinions about placement of the module within the course and pointed out that mental health does not easily fit within any particular body system (Appendix 1, quotation 16). Participants were concerned at the lack of a cohesive approach to mental and physical health care in the health care system. All participants were acutely aware that people experiencing mental health problems have poorer
outcomes with physical health problems, leading to a reduced life expectancy of up to 20 years (Appendix 1, quotation 17). When asked how pharmacists might contribute to improving this, a participant suggested that if a pharmacist were part of the multidisciplinary team, he or she could support the management of side effects and the physical health implications of using psychiatric medications. From the education perspective, the consensus was that mental health should be more integrated into the physical health aspects of the curriculum (Appendix 1, quotation 18).

The focus group participants were particularly concerned with the effects of stress and strain on students themselves. Participants felt that mental health should be introduced from the beginning of the curriculum and not necessarily with just a focus on patient illness but also on student wellness. They felt that students should be taught about looking after their own mental health. There was general agreement with one participant’s suggestion that self-care should be part of the curriculum in addition to any student support services that were available (Appendix 1, quotation 19). Wellness and Recovery Action Planning (WRAP) was suggested by a female service user and trained WRAP facilitator as one way of achieving this.

DISCUSSION

This paper describes a pilot project to involve patients and caregivers in curriculum design for undergraduate pharmacy students. The initiative supports the School of Pharmacy’s goal to advance along Tew’s ladder of service user involvement from level 2 to level 3 (Table 1). The ideas for change generated by the focus group demonstrate the value of their input and are supported by research (Table 3). This study was part of a joint initiative by the RCSI and a psychiatric teaching hospital, which includes the delivery of mental health lectures in therapeutics by practicing pharmacists, experiential learning opportunities, multidisciplinary input into education, and co-facilitated teaching with pharmacists and patients. The MoU between the two organizations outlines a commitment to involve and consult with patients and caregivers on an ongoing basis, thus supporting sustainability. A longitudinal study is underway to assess the effects of the mental health program on the confidence of new graduates to deliver mental health care.

The views of our focus group were reflective of international research demonstrating a need for more effective engagement regarding medication use in mental health care. While pharmacists are an accessible resource for patients and caregivers, there is a lack of awareness among users of the mental health services regarding the professional services that can be offered. For example, in a survey of Irish patients, only 7% of the 1519 respondents identified the pharmacist as a source of information about medication, echoing the findings of this study.

The suggestions for the MPharm curriculum made by the focus group target aspects of the patient experience that could be improved, particularly in relation to engagement, reducing stigma, and promoting hopeful, person-centered interactions in line with the recovery ethos. A study by Wheeler and colleagues concluded that positive relationships with knowledgeable staff are fundamental to reducing stigma and promoting engagement in the pharmacy setting. Further, pharmacists need to have a real understanding of the lived experiences of patients and caregivers. Attitudes towards the provision of mental health care can be improved by engaging positively at an undergraduate level. This study adds to the body of evidence by taking this involvement beyond the classroom to the level of curriculum development.

Participants in the focus group were concerned for the wellbeing of students and practicing pharmacists. They strongly endorsed the inclusion of self-care in the curriculum, emphasizing that no one is immune to the effects of mental illness. This recommendation is particularly powerful coming from those with personal experience with mental health difficulties. Stress and burnout is common among health care professionals, who are often reluctant to seek help when in distress. The development of self-care skills as part of the curriculum for undergraduate pharmacists requires further exploration.

The extent to which universities engage in PPI varies widely. When involved, the role that patients play in education is traditionally to provide a passive illustration of a specific condition in a health care setting. Advancing this role means that patients can not only contribute to education by giving presentations, facilitating seminars, or serving as a tutor, but also make a valuable contribution to activities such as student selection, assessment, curriculum development, and governance. A report published by the Mental Health Commission of Ireland showed that of the 137 health care courses relevant to mental health services, only 37% (n=50) involved students interacting with patients. Of the 50, only 34% (n=17) and 24% (n=12) had patient involvement in course design and collaborative research, respectively. However, the pharmacy profession was not specifically considered in this study. A comprehensive review of patient involvement in health care education by the Health-care Foundation found few examples of patient input into curriculum design.
Table 3. Changes Made to the Curriculum for the Master of Pharmacy Program as a Result of Patient and Caregiver Input During a Focus Group

<table>
<thead>
<tr>
<th>Change Made to the Curriculum</th>
<th>Teaching Method</th>
<th>Additional Supporting Evidence</th>
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<tr>
<td>Self-care has been added to the curriculum and mental health is now introduced at the beginning of the program.</td>
<td>Mental health and self-care is included in the initial induction period for students and this is part of the student teaching timetable. The session is delivered by a Health Promotion Nurse Specialist in Mental Health from who works in the affiliated teaching hospital.</td>
<td>The university environment is a significant change for new students that can have implications for their mental health. Health care environments are also potentially stressful with high reported rates of mental health difficulties such as anxiety, depression, stress and burnout. Having the awareness to look after their mental health is an important message to give health care students from the beginning of their training.</td>
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<tr>
<td>Mental Health First Aid (MHFA) Training is integrated into the core curriculum.</td>
<td>The 12-hour MHFA Training course are delivered by clinicians and people with personal experience of mental ill-health. The course includes a discussion on the impact of stigma, the numerous ways to support wellbeing, the interventions that have been shown to support people experiencing mental ill health and how to access them. It incorporates a module on suicide prevention in addition to scenarios, role play and video demonstrations that are specific to the pharmacy setting.</td>
<td>MHFA training has been shown to improve attitudes and willingness to provide care to people experiencing mental ill-health among undergraduate pharmacy, medical and nursing students. While further research is required to explore how the training actually impacts on service delivery, the training is an important first step. MHFA also potentially improves participants own health and ability to support each other. Research among tertiary students in Ireland suggests that students are willing to help others but lack the confidence to do so and are reluctant to seek help for themselves.</td>
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<tr>
<td>Mental Health Care has been integrated into the case-based learning approach in modules that initially focused on physical health.</td>
<td>Mental health awareness training (MHFA) has been added to the liver and kidney module aligned with case-based teaching regarding paracetamol overdose.</td>
<td>People with severe mental illnesses such as schizophrenia die 15 to 20 years younger than the general population and this is mainly attributable to poor physical health care. Reducing this inequality could start at undergraduate level by integrating physical and mental health care and tackling the attitudes that lead to diagnostic overshadowing. Integrating physical and mental health care modules may also be a more positive experience for student learning, leading to interest in psychiatry as a future career path.</td>
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<tr>
<td>Recovery based teaching methods are enhanced by participation of patients and practice-based educators.</td>
<td>The recovery approach is explained during the initial therapeutics lectures and underpins the approach to teaching. Students are introduced to Wellness and Recovery Action Planning during the site visit to a psychiatric teaching hospital and briefly guided to develop a ‘wellness plan’ for exam periods. Co-facilitated teaching, jointly presented by a service user with a pharmacist regarding an engagement approach to medicines optimization has been introduced.</td>
<td>It is incumbent on clinical partners of the universities to communicate the recovery approach to mental health care according to the National Framework for Recovery in Mental Health in Ireland. Recovery focused teaching has been shown to improve attitudes to people with mental health problems.</td>
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</table>
There is little published evidence in relation to patient and public involvement in curriculum development for pharmacists, particularly at the undergraduate level. Examples include Rutter and colleagues who found that only four of the 19 schools of pharmacy in the United Kingdom engaged directly with individuals who had experience with mental health problems, and that this was by inviting patients to tell their story in a classroom or workshop setting.22 The Comensus project at the University of Lancaster aims to involve patients in all aspects of teaching, research, and strategy.56 Pharmacy students benefit from this through participation in patient-led workshops. At the University of Manchester, a Patient and Public Committee offers strategic advice on undergraduate and postgraduate pharmacy education.37

Wheeler and colleagues used the results of a needs assessment to incorporate the views of patients and caregivers into the design of a postgraduate course in mental health pharmacy.58 This involved in-depth individual semi-structured interviews, focus groups, and brief structured exit interviews conducted within 72 hours of a pharmacy visit. Data were gathered regarding specific medication needs, expectations of community pharmacy, and perceptions of medication taking. Seventy-four patients and caregivers participated in in-depth consultation and 211 in exit interviews. The results of this needs assessment combined with a needs assessment for pharmacists, consultation with key stakeholders, and a literature review, provided the evidence base for the development of the continuing education program. The conclusion from this process was that the goals of the program should be to address stigmatizing attitudes, enhance knowledge of high prevalence illnesses (eg, anxiety) and improve the confidence and communication skills of pharmacy staff members so they could effectively engage with people who have a mental health condition.

This study had some limitations. We conducted a single focus group for the purpose of identifying some specific enhancements that could be made to the MPharm curriculum. It is possible that data saturation was not reached and that further focus groups could have generated more ideas for improvement. The people who participated in this initiative were self-selected and may not have had views that were representative of patients and caregivers in general. Participants did not receive any training. However, all participants were experienced advocates who had contributed at strategic and policy levels on behalf of their organizations in the past. Furthermore, the purpose of their involvement in the focus group was made clear during the recruitment process. Williamson and colleagues note that if you consult the “right” patients, the results can be valuable. Furthermore, as active members of patient organizations, our participants were aware of the experiences of other people like themselves.37 Engaging with existing networks is a pragmatic way of recruiting individuals for the purposes of curriculum review.58 The experiences of the participants in this focus group in relation to the use of medication for mental health conditions echo the results of international studies,18,48 supporting the validity of the data and the generalizability of the results.

Several reviews of PPI in education have called for the publication of research and the sharing of initiatives.8,30,31 This was a pilot involvement project applicable to one aspect of the pharmacy curriculum. Although more work is required before we see a fuller partnership in curriculum design across the undergraduate program, this was a replicable first step with meaningful outcomes. A framework and strategy for future involvement is required, including the necessary infrastructure to ensure sustainability.33,58 The MoU with the psychiatric teaching hospital is one such support. Initiatives such as ours have been shown to make students more aware of the needs of vulnerable patients.33 The suggestions made by the focus group should be considered for undergraduate education of other health care professions.

CONCLUSION

This study describes a qualitative methodology for involving patients and caregivers in curriculum review. We hypothesize that the outcomes of this project will support graduates in providing mental health services that are person-centered and relevant to the needs of patients and caregivers. Ultimately, the objective of PPI is to improve the patient experience of mental health care in the pharmacy setting. While this is difficult to evaluate, the current focus of our longitudinal evaluation is in relation to the confidence and attitudes of the students towards providing mental health care, given that improving students’ attitudes has been shown to increase willingness to engage with people who have mental health conditions.23

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Appendix 1. Quotations Chosen to Illustrate Themes Derived from a Focus Group of Patients and Caregivers on the Role of Pharmacy Students and Pharmacists in Mental Health Care

1. “She’ll go through all my meds with me and if there’s any kind of issue I’m able to talk to her.” (Participant 3 female patient)
2. “I personally really didn’t know the pharmacist or how the pharmacist could benefit me or the patients I’ve worked with through the advocacy services both in the community and in the hospital. They’ve [pharmacists] never had a conversation with me other than say we owe you this medication come back two days later and that was all.” (Participant 6 male patient)
3. “In my personal experience I would have a certain embarrassment if I was having a conversation about my medication. I know a lot of pharmacies have private rooms but the best conversation I’ve had about my medication was when I’m with my doctor. That’s a little bit remote because that’s either before you take the medication or sometime after.” (Participant 1 male patient)
4. “I was given many new medications upon and during admissions to acute units. I was never told about the side effects and most times not even given the name of the medication I was taking orally and being injected with. There were never leaflets available on the ward on medication. I have never been asked if I understood the information leaflets given with the medication or if I understood the side effects.” (Participant 6 male patient)
5. “I remember being in hospital and medication wasn’t agreeing with me and I knew that the effects were my heart kept racing and the palpitations were coming on. It was like a panic attack but like eventually after about a week or two it was changed...but in the beginning I wasn’t listened to for a while and if I had been able to connect with the pharmacist she would have...realized that this I’m experiencing these side effects but eventually it was recognized but it took two weeks to get that message across.” (Participant 4 male patient)
6. “At one stage my son was eight hundred [mg clozapine] and he had no quality of life. He didn’t realize you could actually get it reduced by choice but it took us about seven or eight years to discover after that. He has a quality of life now. He can get up in the morning. He knows where he’s going. He’s done courses.” (Participant 5 female caregiver)
7. “The pharmacist is quite a neutral person you know and he’s a very much alternative source.” (Participant 8 female patient)
8. “There’s a massive power [im]balance where...I felt as a patient which I shouldn’t feel really it should be an equal relationship and collaborative situation but I felt that if I refused medication well I felt that I’m just going to get more [medication]...and that happened several times.” (Participant 4 male patient)
9. “There should be the much softer side in terms of understanding the effects that these medications have physically yes but also psychologically.” (Participant 1 male patient)
10. “If you’re in the community it’s [encountering suicidal thoughts or behaviors] a big possibility and it’s your pharmacist who’s going to be handing out the medicine maybe get to know the person who is coming in for the extra box of paracetamol. If they have a good relationship with their client they can open up conversations.” (Participant 3 patient)
11. “Stigma discrimination...awareness is pretty big.” (Participant 4 patient)
12. “They shouldn’t offer medication without you know encouraging people to go to counselling as well. I mean these drugs aren’t smarties you know but they have to offer alternatives as well.” (Participant 8 female patient)
13. “You need to put the ethos of recovery in there.” (Participant 5 female caregiver)
14. “It’s also down to the delivery at the end of the day who presents the modules the way it’s done the discussion and so on.” (Participant 1 male patient)
15. “The trainee pharmacist should get together with the trainee nurses and the trainee psychiatrists and the trainee surgeons and all sit down together and work off the one page.” (Participant 5 female caregiver)
16. “Immunology doesn’t belong to a system as such. But neither does mental health. That’s why I was sort of seeing it as being something that needs to be in there on its own.” (Participant 3 female patient)
17. “I have a daughter who had huge weight gain [as a result of taking antipsychotic medication] and her lifespan has probably been shortened considerably...but then she has to keep taking the medication.” (Participant 2 male caregiver)
18. “It’s your physical health as well. Its mind body and spirit. Think about it as the whole body.” (Participant 5 female caregiver)
19. “You have to look at it this way the amount of pharmacists that can be stressed out or the amount of nurses that can be stressed out and the amount of doctors. Across the board everybody has it...Self-care is an important part of recovery.” (Participant 5 female caregiver)