COMMENTARY

Wellness and Stigma: Pharmacy’s Ongoing Conflict

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One in five Americans has a diagnosable mental illness and pharmacists encounter these patients daily. This commentary addresses the conflict between the profession’s wellness movement and its contributions to mental illness stigma. The need for improved pharmacist wellness is based in the profession’s risk for burnout and development of related mental illness. The presence of stigma towards patients with mental illness by pharmacists is multi-factorial and complex. Risk for mental illness stigma from the profession could be diminished by curricula that provide greater opportunities for students to learn more completely about mental illness, how to effectively engage persons with mental illness, and how to take care of themselves, express vulnerability, and talk about mental illness. While reducing mental illness stigma through curricular revision is best achieved through in-person learning experiences, elective coursework and co-curricular activities may also help achieve this goal. Examples of evidence-based best practices are provided.

Keywords: mental illness; stigma; pharmacy; psychiatric pharmacy; curriculum

INTRODUCTION

With respect to mental illness, academic pharmacy and the pharmacy profession are faced with a serious conflict. For the past several years, pharmacy has been addressing the impact of work stress and burnout on the wellness of its students, faculty, and practitioners.1-3 Recently, the Argus Commission re-affirmed the American Association of Colleges of Pharmacy’s (AACP) dedication to develop appropriate strategies that decrease stress and burnout, and increase well-being and resilience.4 The importance of this issue is linked directly to work stress and burnout being risk factors for mental illness, and in particular, for depression.5 Since at least the 1980s, however, stigma towards persons with mental illness has been widely documented within the pharmacy profession.6-9 Being a source of mental illness stigma prevents persons with mental illness from achieving their best treatment outcomes, and in turn, their own wellness. It also violates our professional oath. When the person with mental illness is also a member of the pharmacy profession, the presence of stigma reduces their opportunity for wellness because related fear and shame become obstacles to seeking help.10,11 Why does the pharmacy profession embrace the importance of mental well-being amongst its members, but does not have a plan to eliminate pervasive stigma directed at persons with mental illness?

Practice readiness for PharmD graduates must include a demonstrated ability to effectively engage persons with mental illness. By preparing student pharmacists to become comfortable and confident when engaging persons with mental illness, academic pharmacy can help lead an effort to construct a comprehensive solution for this problem. This commentary will discuss the wellness efforts being made by pharmacy, highlight the prevalence of mental illness and the reality of mental illness stigma in pharmacy, and review evidence-based stigma reducing opportunities within pharmacy education.

Wellness, Illness and Stigma

Pharmacy has been focused on several issues related to mental health, both within the profession and as it relates to patient care. In particular, there has been a focus on the mental health and wellness of pharmacists, pharmacy residents, and pharmacy students by several professional pharmacy organizations.1-4 At the center of this wellness movement is the prevalence of burnout in our profession with reported rates ranging between 40 - 60% of surveyed samples.12-14 This is
Pharmacists consistently report low levels of confidence regarding psychotropic medications and mental illness, and to varying degrees. Second, individual pharmacy programs frequently characterize psychiatric pharmacy as a degree programs offer didactic psychiatric pharmacotherapy course work, albeit at different points during the curriculum. pharmacy education, it is routine to find at least four general curricular characteristics. First, all Doctor of Pharmacy graduates have a sufficient knowledge of mental illness or mental health literacy. Psychiatric Pharmacy Education

Psychiatric Pharmacy Education

Despite the prevalence of mental illness in the U.S., pharmacy curricula have not been designed to ensure that all graduates have a sufficient knowledge of mental illness or mental health literacy. When examining U.S. psychiatric pharmacy education, it is routine to find at least four general curricular characteristics. First, all Doctor of Pharmacy degree programs offer didactic psychiatric pharmacotherapy course work, albeit at different points during the curriculum and to varying degrees. Second, individual pharmacy programs frequently characterize psychiatric pharmacy as a field that is often neglected or misunderstood. This lack of attention may result in pharmacists feeling unprepared to address the complex needs of patients with mental illness. In order to improve the quality of care provided to these patients, pharmacy programs must prioritize the integration of mental health education into their curricula. This includes providing students with the knowledge and skills necessary to effectively communicate with patients about their mental health and the medications used to treat those conditions.

There are many potential reasons behind pharmacists’ lack of providing optimal care to persons with mental illness. Low levels of knowledge, low mental health literacy, workflow and time constraints, and stigma have all been identified as contributors. Recent findings suggest that higher levels of stigma may be one of the most significant barriers to provision of pharmacy services for patients with mental illness. Stigma toward patients with mental illness, including those with substance use disorders, on the part of pharmacists and student pharmacists has also been widely reported. Patients who are stigmatized experience discrimination, barriers to care, and social marginalization. This increases their risk for treatment nonadherence, poor treatment outcomes, and shorter lifespans.

Stigma affects everyone with mental illness. When health care professionals are affected with mental illness, it is common for them to avoid seeking mental health care because of embarrassment and stigma. Stigma affects the way patients feel about their illness and their ability to manage it. To practice in a way that optimizes wellness, students should be taught how to take care of themselves, how to express vulnerability, and how talk about mental illness. When students are not adequately exposed to helping those living with mental illness as part of their training, stigma cannot be actively addressed or decreased, and cultivating a help-seeking culture for their patients, their peers, or themselves cannot occur.

Mental illness is highly prevalent worldwide. Globally, the numbers of affected persons are high with an estimated 300 million people diagnosed with depression, 60 million with bipolar disorder, and 23 million affected by schizophrenia. In the United States, these numbers equate to one in every five adults experiencing mental illness each year, with suicide being the 2nd leading cause of death for people aged 10–34, and the 10th leading cause of death overall. Primary care practices and community pharmacies are care settings where persons with mental illness receive treatment frequently. In a 2019 survey, 19 primary care physician respondents reported diagnoses of major depressive, substance use, and anxiety disorders in 25-36% of all new patients. Respondents reported depression as the most common behavioral health condition for which patients received care, with an average of 72% of these patients receiving treatment followed by 69% diagnosed with an anxiety disorder. Other conditions treated in the primary care setting included bipolar disorder (36%) and substance use disorders (33%) as well as ADHD (53%) and serious mental illness (27%). Correspondingly, one in six Americans has reported filling a prescription for a psychiatric medication. Thus, the likelihood of pharmacists needing to engage persons with mental illness receiving treatment is high.

But persons with mental illness often do not receive optimal care from pharmacists. According to self-report data, a majority of pharmacists do not provide medication education or identify drug-related problems with psychiatric medications as often as they do with, for example, cardiac medications. Pharmacists have also reported low rates of involvement in antidepressant counseling with just 61% assessing patient knowledge and understanding of depression, and 36% discussing options for managing antidepressant adverse effects. Just 25% of patients with mental illness reported that they received medication effectiveness or safety monitoring information from their pharmacist. Pharmacists consistently report low levels of confidence regarding psychotropic medications and mental illness and, hence, provide services in these areas less frequently.

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Stigma affects everyone with mental illness. When health care professionals are affected with mental illness, it is common for them to avoid seeking mental health care because of embarrassment and stigma. (see Appendix) Untreated mental illness is detrimental to an individual’s health, and for a practicing pharmacist, it could result in medication errors since mental illness can adversely affect cognition. A solution to this could include training future pharmacists to understand the impact of mental illness and stigma. To practice in a way that optimizes wellness, students should be taught how to take care of themselves, how to express vulnerability, and how talk about mental illness. When students are not adequately exposed to helping those living with mental illness as part of their training, stigma cannot be actively addressed or decreased, and cultivating a help-seeking culture for their patients, their peers, or themselves cannot occur.

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specialty and typically employ just one full-time psychiatric pharmacy faculty member. Third, only small percentages of pharmacy students elect to complete guided pharmacy practice experiences in mental health care settings where they engage patients with mental illness. Fourth, a large majority of academic pharmacy programs do not operate with a mission of insuring that all graduates will demonstrate effective engagement of persons with mental illness. These program characteristics have been in place for several decades.25

Despite evidence that in-person contact results in lower levels of stigma,(see Appendix for 2016 National Academies report) and with the knowledge that pharmacists frequently interact with persons with mental illness, it is important to note that experiential rotations in psychiatry is not a requirement of most Doctor of Pharmacy curricula. Introductory pharmacy practice experience (IPPE) placements in psychiatric settings are limited,27 and while advanced pharmacy practice experience (APPE) placements in psychiatric pharmacy are available at most pharmacy schools they are nearly always elective experiences.25 Historically, elective status has resulted in only 1 in 5 pharmacy students completing a guided experience in psychiatric pharmacy. One survey, for example, determined that the mean student enrollment in elective APPEs was approximately 20% (range 3–60%), while another survey found there were enough available placements in psychiatric pharmacy APPEs to accommodate 20% of pharmacy students. A recent unpublished 5-year retrospective survey of 7 New England Doctor of Pharmacy degree programs echoed these outcomes with 799 of 4,075 students (19.6%; range = 17.8–20.8% / academic year) completing a psychiatric pharmacy APPE. [C. Caley, personal communication] The lack of a required rotation in psychiatry for student pharmacists is in sharp contrast to the education requirements for other health care professionals who provide direct patient care. For example, psychiatry is a required clerkship for most Doctor of Medicine degree programs. This difference is problematic for academic pharmacy since research suggests that traditional didactic education alone does not suffice for improving student pharmacists’ negative attitudes toward persons with mental illness.

This pattern of small numbers of student pharmacists completing professional psychiatric pharmacy experiences appears to extend into post-graduate training. Pursuit of residency training for student pharmacists interested in working with persons with mental illness is an additional pathway to cultivating a low-stigma pharmacy workforce. Yet, interested student pharmacists face barriers to achieving this goal. In 2020, it was reported that only 63% of residency candidates interested in psychiatric pharmacy matched with a postgraduate year one pharmacy residency program.(see Appendix for 2020 ASHP report) The impact of this dynamic is likely to be a reduction in the number of residency candidates who pursue additional training in psychiatric pharmacy, as well as to limit the number of persons with mental illness who receive care from residency trained psychiatric pharmacists.

The curricular characteristics of psychiatric pharmacy education described above could be intensified if U.S. pharmacy programs adopt the recommended changes recently proposed by the Argus Commission.4 To better integrate pharmacists’ and physicians’ practices, it has been proposed that student pharmacists receive less intense coverage of “specialty” content, including psychiatric pharmacy, than current levels so that more in-depth coverage can be given to “more general topics.” This appears to mean that future student pharmacists who are preparing for careers providing comprehensive medication management services for patients in primary care settings and community pharmacies do not need in-depth coverage about, for example, major depressive disorders, anxiety disorders, substance use disorders, or sleep disorders as part of a Doctor of Pharmacy education. Given the high prevalence of mental illness in primary care and community pharmacy settings, and the presence of mental illness stigma in pharmacy, providing less intense psychiatric pharmacy education to U.S. pharmacy students will very likely result in an increase in mental illness stigma and decrease our profession’s value to health care.

ACPE Standards and Evidence Based Opportunities

A review of ACPE accreditation standards for the Doctor of Pharmacy degree28 can readily identify several items that should include preparing pharmacy students to effectively engage persons with mental illness using a stigma-free approach. The challenge is to have more members of the academy interpret relevant items with this goal in mind. For example, Standards 2 (Essentials for Practice and Care), 3 (Approach to Practice and Care), 4 (Personal and Professional Development), 10 (Curriculum Design, Delivery, and Oversight), 12 (Pre-APPE Curriculum), and 13 (APPE Curriculum) each have elements that provide opportunities to focus instruction on effectively engaging persons with mental illness.

Yet, given the inclusive nature of how ACPE standards are written regarding medical illnesses and patient populations, there is no guidance offered to encourage instruction focused on mental illness or engaging persons with mental illness. Accordingly, individual Doctor of Pharmacy degree programs must determine their own curriculum needs and where any emphasis will be placed. Since individual psychiatric pharmacy faculty are likely to be a minority voice when advocating for curricular revision that focuses on engaging persons with mental illness using a stigma-free approach, interpreting the relevant ACPE standards with this goal in mind will also require faculty who are not psychiatric pharmacy specialists determining that academic pharmacy has a responsibility to reduce mental illness stigma and prepare
students accordingly. For this to happen on a broad scale, leaders within academic pharmacy, including at each program, must be involved in this effort. The first step in this process will be for those involved to agree that mental illness stigma must be addressed, that improving mental illness treatment outcomes is important, and that pharmacists should be essential contributors to these improved treatment outcomes.

There are numerous published accounts of mental health-related elective courses and other educational interventions that have been successful at addressing pharmacy students’ attitudes toward mental illness. These courses and interventions have used various pedagogical techniques, such as contact-based sessions with people with mental illness, designed to promote a greater understanding of mental illness and patients’ experiences with their mental illness. Experiential education and the co-curriculum offer additional opportunities to focus on improving student attitudes about patients with mental illness. Table 1 shares evidence-based practices across the curriculum and co-curriculum that can be impactful and integrated into existing programming. This table is intended to encourage step-wise implementation and not major curricular overhaul. For example, an initial step towards revising a curriculum to have a greater focus on mental illness could begin with a course coordinator shifting the emphasis of one required interprofessional activity toward an interaction with a person with major depressive disorder or opioid use disorder without changing the entire course. More substantial examples could include: all P1 students completing Mental Health First Aid certification, all P2 students learning how to screen for depressive and anxiety disorders during a patient assessment skills lab, offering Pharmacists should be our goal.

CONCLUSION
The pharmacy profession has a serious conflict to address and academic pharmacy has an important role to play in the solution. It is unethical to be aware of the construct described here and to remain complacent. The impact of work stress and burnout on the mental health and wellness of pharmacy students, faculty, and practitioners makes it essential for the profession to address this critical issue. Recognizing mental illness stigma within pharmacy and preparing student pharmacists to effectively care for persons with mental illness should be of equal priority and actively addressed.

The pharmacy profession, including academic pharmacy, has no goal to evaluate or reduce the mental illness stigma that has been previously well described. Yet, there are compelling reasons why Doctor of Pharmacy degree programs should intentionally make this a high curricular and co-curricular priority. First, mental illness is common and is a health risk for many, including vulnerable pharmacists experiencing burnout. Second, a substantial proportion of pharmacists do not feel comfortable or confident engaging persons with mental illness or educating them about their illness or psychotropic medications. Third, denying pharmacist services to persons with mental illness because of discomfort is discriminatory. Fourth, patient discrimination leads to poor treatment outcomes including early death, and fifth, discrimination directly, and unacceptably, violates the oath of a pharmacist.

Taking these dynamics into consideration, it would be counter-productive to diminish psychiatric pharmacy content in U.S. pharmacy curricula as proposed by the Argus Commission, since this could increase mental illness stigma from pharmacists and worsen treatment outcomes for persons with mental illness. Pharmacists will also be less prepared to meet the mental health care needs of persons in primary care and community pharmacy settings. Educating student pharmacists fully about mental illness with evidence-based practices across the curriculum and co-curriculum will require high priority from Colleges of Pharmacy and pharmacy leadership as well as purposeful implementation of step-wise, comprehensive plans individualized to each program’s needs. Ultimately, aligning the profession’s support of pharmacist wellness with the reduction of mental illness stigma by the profession through improved preparation of student pharmacists should be our goal.

REFERENCES


Table 1. Evidence-Based Course Work Designed to Reduce Mental Illness Stigma and Increase Mental Health Knowledge in Pharmacy Students.

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<td>Consumers as Educators</td>
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<td>Bell, et al. 2006</td>
<td>2 group, nonrandomized, clustered, comparative design; 1 group with 4 tutorial classes of standard pharmacist-led instruction, and 1 group with 5 tutorial classes of standard pharmacist-led instruction plus additional input from mental health consumer-educators</td>
<td>Students who received consumer intervention: had decreased social distance* scores, more strongly disagreed with negative non-social distance* statements, and more strongly agreed with positive non-social distance* statements</td>
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<tr>
<td>Buhler et al. 2008</td>
<td>Survey of pharmacy students before and after taking a neuropsychiatry curriculum that included peer-level patient presenters; measured 4 aspects of schizophrenia and “clinical depression”</td>
<td>Social distance* scores decreased in first-year pharmacy students who attended peer-level patient presentations; willingness to interact, understanding of illness cause and patient behavior also improved</td>
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<td>Nguyen et al. 2012</td>
<td>Comparing the effectiveness of a direct, face-to-face contact intervention with an indirect (film based) contact intervention in reducing mental illness stigma of pharmacy students</td>
<td>Both direct and indirect contact had an impact on mental illness stigma of pharmacy students, though direct contact had a comparatively stronger effect than indirect contact</td>
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<td>Patten et al. 2012</td>
<td>Randomized controlled trial to evaluate the impact of contact-based education on mental illness stigma in pharmacy student using the Open Minds Survey for Health Care Providers</td>
<td>Contact-based education resulted in a significant reduction in stigma in pharmacy students</td>
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<td><strong>Elective Courses in Mental Health</strong></td>
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<td>Dipaula et al. 2011</td>
<td>Study the impact of an elective mental health course on social distance* on pharmacy students toward people with severe mental illness.</td>
<td>Students completing the elective had significantly lower social distance* scale scores than students who did not complete the elective</td>
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<tr>
<td>Gable et al. 2011</td>
<td>Study the impact of a mental health elective course on social distance* and stigmatizing views of pharmacy students</td>
<td>Course had a positive impact on pharmacy students’ perceptions of mental illness with social distance* and stigmatizing view scores improving</td>
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<tr>
<td>McGuire et al. 2016</td>
<td>Assess third year pharmacy student empathy for mental illness using the Jefferson Scale of Empathy Health Professions Student version pre- and post - a required therapeutics course, and then an elective course in psychiatry</td>
<td>Empathy scores for third year pharmacy students improved non-significantly after the therapeutics course, but significantly after the elective psychiatry course.</td>
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<tr>
<td>Cates et al. 2019</td>
<td>Evaluate the effects of an elective “Mental Illness and Treatment in the Movies” course available to second- and third year pharmacy students on attitudes towards mental illness and providing pharmaceutical care to the mentally ill using standard mental illness attitude scales</td>
<td>Pharmacy students experienced significant improvements in attitudes about dangerousness, social distance*, stigma towards schizophrenia and depression, and provision of pharmaceutical care to people with schizophrenia and depression</td>
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**Experiential Education**
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<td>Cates et al. 2017</td>
<td>Study the impact of psychiatric advanced pharmacy practice experiences (APPE) using pre/post surveys on attitudes toward dangerousness, social distance*, stigmatization, suicide prevention, and provision of pharmaceutical care</td>
<td>Psychiatric APPE improved student attitudes towards provision of pharmaceutical care services to mentally ill patients, suicide prevention, and stigmatization towards patients with schizophrenia</td>
</tr>
<tr>
<td>Diefender et al. 2020</td>
<td>To evaluate the effects of an APPE in psychiatric pharmacy on students’ stigma toward patients with mental illness using the Opening Minds Stigma Scale (OMSS) at 2 psychiatric hospitals. Pre/post surveys were collected during 3 academic years.</td>
<td>APPE rotations in inpatient psychiatric hospitals resulted in a significant decrease in total OMSS scores indicating decreased stigma levels after completion of rotation and</td>
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### Other Educational Interventions

#### Co-curriculum

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<td>Hillman et al. 2015</td>
<td>Evaluate pharmacy student’s attitudes toward patients with mental illness and comfort / ability to provide pharmaceutical services to this population before and after leading a patient medication education group on an adolescent inpatient psychiatric unit using the Social Distance* Scale and Open Minds Survey</td>
<td>Leading a patient medication education group resulted in reductions of social distance* and improvements in beliefs of pharmacy students about mental illness</td>
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<tr>
<td>Harris et al. 2017</td>
<td>Evaluate impact of mental health-focused professional organization on stigma of pharmacy student members across multiple student chapters using the Social Distance* Scale and Open Minds Survey</td>
<td>Shadowing pharmacists and community service were frequently reported as most influential on student perceptions of mental health. Direct patient interaction activities decreased stigma.</td>
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#### Focused Interventions

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<td>Bamgbade et al. 2016</td>
<td>To determine if exposure to a 2 class, 2.5 hour intervention impacts third year pharmacy student’s mental health stigma and mental health knowledge using a one-group pre/posttest survey and true/false questions</td>
<td>Students had improvement in their stigma scores in the sub-domains of recovery, safety, separation, and comfort; mental health knowledge also improved.</td>
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<td>Douglass et al. 2019</td>
<td>Use of the Open Minds Stigma scale to evaluate whether a 90-minute interactive learning activity using social media and fictional case scenarios had an impact on stigma towards mental illness</td>
<td>Mental illness stigma was significantly reduced in pharmacy students completing the intervention.</td>
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<td>Schartel et al. 2018</td>
<td>Use of an Objective Structured Clinical Examination (OSCE) in a first year Patient Care Lab to determine impact based on self-assessments in pharmacy students’ confidence and knowledge in management of opioid overdose</td>
<td>Use of OSCE increased student pharmacist knowledge and confidence to counsel and administer naloxone</td>
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**Mental Health First Aid (MHFA) and Suicide Prevention**
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<td>McCormack et al. 2017</td>
<td>To determine the effect of MHFA training on stigmatizing attitudes toward those with mental illness among pharmacy and non-pharmacy students, using the Social Distance* Scale and Attitudes to Mental Illness Questionnaire</td>
<td>MHFA was effective in decreasing stigmatizing beliefs among pharmacy and non-pharmacy students</td>
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<td>De Silva et al. 2015</td>
<td>To determine impact of a 5-hour suicide awareness and intervention program to first year medical, paramedical and pharmacy students using pre/post surveys on knowledge, skills, and attitudes.</td>
<td>The suicide prevention intervention increased knowledge, skills and attitudes related to the assessment and management of individuals at risk for suicide</td>
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* Social distance preference is a central element and contributor to stigma and is not related to recent social distancing mandates widely practiced throughout the COVID-19 pandemic. As it applies to persons with mental illness, social distance preference is an indicator of undesirability leading to rejection, lower engagement, and/or lack of willingness to care for an individual.
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Evidence based opportunities

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