Psychiatrization of Society: A Conceptual Framework and Call for Transdisciplinary Research

Timo Beeker1*, China Mills2, Dinesh Bhugra3, Sanne te Meerman4, Samuel Thoma1, Martin Heinze1 and Sebastian von Peter1

1 Department of Psychiatry and Psychotherapy, Brandenburg Medical School, Immanuel Klinik Rüdersdorf, Rüdersdorf, Germany, 2 School of Health Sciences, City, University of London, London, United Kingdom, 3 King’s College London, Institute of Psychiatry, Psychology and Neuroscience, London, United Kingdom, 4 School of Education, Hanze University of Applied Sciences, Groningen, Netherlands

Purpose: Worldwide, there have been consistently high or even rising incidences of diagnosed mental disorders and increasing mental healthcare service utilization over the last decades, causing a growing burden for healthcare systems and societies. While more individuals than ever are being diagnosed and treated as mentally ill, psychiatric knowledge, and practices affect the lives of a rising number of people, gain importance in society as a whole and shape more and more areas of life. This process can be described as the progressing psychiatrization of society.

Methods: This article is a conceptual paper, focusing on theoretical considerations and theory development. As a starting point for further research, we suggest a basic model of psychiatrization, taking into account its main sub-processes as well as its major top-down and bottom-up drivers.

Results: Psychiatrization is highly complex, diverse, and global. It involves various protagonists and its effects are potentially harmful to individuals, to societies and to public healthcare. To better understand, prevent or manage its negative aspects, there is a need for transdisciplinary research, that empirically assesses causes, mechanisms, and effects of psychiatrization.

Conclusion: Although psychiatrization has highly ambivalent effects, its relevance mainly derives from its risks: While individuals with minor disturbances of well-being might be subjected to overdiagnosis and overtreatment, psychiatrization could also result in undermining mental healthcare provision for the most severely ill by promoting the adaption of services to the needs and desires of the rather mild cases. On a societal level, psychiatrization might boost medical interventions which incite individual coping with social problems, instead of encouraging long-term political solutions.

Keywords: psychiatrization, transdisciplinary research, psychiatric epidemiology, medicalization, overdiagnosis, health system research, medical sociology, mental health
INTRODUCTION: SCOPE OF THE PROBLEM

According to the World Health Organization, nearly 10% of the world’s population is affected by common mental disorders at any given time (1). Depression and anxiety disorders alone are estimated to cost the global economy more than one trillion dollars each year (2), while the burden on health-care systems and societies is allegedly still underestimated (3, 4) and projected to grow constantly (5). However, epidemiological field studies mostly suggest either consistently high prevalences since the introduction of DSM-III in the year 1980 or show rather small increases (6). In the USA, nearly a full half of the population is claimed to meet the criteria for a DSM-IV disorder over the course of their lives (7, 8), confirming previous data using DSM-III-R as diagnostic manual (9). A meta-analysis of mental health surveys across 63 countries identified an average 12-month prevalence of 17.6% for common mental disorders (10). At the same time, epidemiological research on child and adolescent mental health indicates that approximately one in five children and adolescents worldwide are affected by mental health problems (11, 12).

Despite epidemiological research pointing to high, but relatively stable incidences and prevalences of mental disorders, there is clear evidence that more and more people are using in- or outpatient mental health services, regularly resulting in the prescription of psychotropic medication. For instance, antidepressant drug consumption more than doubled between 2000 and 2015 in many OECD- countries (13). In Germany, there have been constant increases of psychiatric hospital beds and in-patient case-numbers from 2007 to 2016 (14). Also, disability pensions due to mental disorders have increased in many countries (15–17). In the USA, the number of outpatient mental health service users increased by nearly one-fifth within one decade, while an estimated 1 in 6 US-adults are on psychiatric drugs at some point per year (18, 19) Among American college students, the rates of past-year psychiatric or psychotherapeutic treatment nearly doubled from 2007 to 2017 (from 19 to 34%) (20). Epidemiological field studies concerning mental disorders in non-Western countries are rare and prevalence rates often rely on estimates (10, 21–23). Nevertheless, Western psychiatric concepts and mental healthcare are expanding to the Global South, which is supported by international organizations like the WHO and World Bank, advocating for “scaling up” access to mental health services (24).

Explanations for the consistently high prevalences, increase in diagnoses and rising mental healthcare service use are diverse. It has been recurrently argued that improved recognition and advancing destigmatization of mental disorders might be uncovering its real prevalence for the first time (25–27). Also, contemporary working and living conditions (28–32), conflict, poverty and inequality (33), inflated epidemiologic data (34, 35), and overdiagnosis (36, 37) are speculated to be contributing to what seems to be a significant increase in psychiatric morbidity. Although all of these factors appear to be relevant, the question remains whether there is a more general, higher-order process behind these developments, both connecting and explaining them. In this paper, this process is identified as a progressing psychiatrization of society.

This article aims to be a theoretical contribution to advance further studies. Its main purpose is the systematic development of a model of psychiatrization, which can serve as starting point for both empirical and conceptual research.

Methodology (Purpose)

There is a rich canon of literature in the social sciences, medical anthropology, and critical psychology which deals with various aspects of psychiatrization, but mostly using different terminology and against different theoretical backgrounds. Also, this literature usually targets a micro-level [e.g., ethnographic case studies on the effects of psychiatric diagnosis (38–40)] or is unspecific to the field of psychiatry (e.g., research on medicalization, pharmaceuticalization, see below). Yet, as discussed in the introduction, there is empirical research from the medical field that points at various developments within psychiatry (e.g., research on drug safety, prescription rates, overdiagnosis, and overtreatment), based on numerous sources and levels of data from different domains and disciplines. Both fields of discourse are rarely brought into productive contact with each other. This may result in conceptual research which tends to neglect empirical data of the criticized psychiatric discourse itself and then again in medical research which does not specifically aim at a theory-based interpretation of its own findings in the light of larger social, political, and cultural developments.

Methodologically, this article is a conceptual paper which focusses on theoretical considerations and theory development. Its intention is neither to prove empirically that psychiatrization exists nor to speculate in whichever ontological sense this could be true. In line with Grant & Booth’s typology of reviews, it can be considered as “critical review” that “goes beyond mere description” to produce “a hypothesis or a model, not an answer,” and which can serve as a “launch-pad” for further conceptual, but also empirical research [(41), p. 93]. Drawing on a diverse literature base on various aspects of psychiatrization, this article aims at mediating between the plurality of disciplines, concepts, and available data. It intends to contribute to a synthesis of the discourses within medical and social sciences, which are not only heterogeneous but stand in a tradition of being perceived as incommensurable.

Given that psychiatrization is a highly diverse, ambiguous and in itself transdisciplinary research object with fuzzy edges, a systematic literature review covering the multitude of disciplines involved was not feasible. Instead, literature was selected with regard to content and by focusing on the most influential authors and most quoted theoretical contributions surrounding psychiatrization over approximately the past 25 years. Drawing on this rich corpus of literature, an overarching, yet preliminary, model is proposed, which integrates the main actors, drivers and sub-processes of the field into a larger framework that eventually aims at setting the stage for further transdisciplinary research.

Given that the main body of research literature focusses on the Global North, the emphasis of this article will necessarily lie on how psychiatrization manifests in industrialized countries where established psychiatric services already exist. However,
despite the limitations of our approach, psychiatrization in low and middle income countries will remain an equally important topic for any kind of further research.

**CONCEPTUAL ANALYSIS**

**Related Concepts**

The term “psychiatrization” is first mentioned in psychiatric literature in the year 1983 by Dušan Kecmanovic, who briefly discusses psychiatric labeling of social phenomena or of deviance from existing norms (42). Within the last years, a range of popular criticism about certain aspects of psychiatry’s expansion has been mostly interested in the soaring use of psychotropic medication or the inflation of diagnostic categories in the context of DSM-5, which appeared in 2013 (36, 43–46). However, more ambitious empirical and theoretical scholarship with an active focus on psychiatrization as a higher-order process, aiming at an overarching theory of presenting a comprehensive model is rare.

For instance, the sociologist Nikolas Rose examines reasons for and interpretations of the inflation of some psychiatric diagnoses and related treatments, but without using the term psychiatrization or attempting to systemize his findings under a different term. Instead, he concludes by advocating for a more complex approach to understand the growth of these diagnoses in the broader context of Western societies and their cultural developments (47). The rich work of philosopher of science Ian Hacking puts an emphasis on how psychiatric classification interacts with society, but without focusing on the expansion of psychiatry as a whole. e.g., by considering quantitative data, or developing a more unified model. However, Hacking compellingly shows how psychiatric taxonomy can deeply change the identity of the targeted persons, who, in return, react to the provided description by various degrees of embracement or resistance, which then creatively re-shapes the classifications (“looping effect”) (48, 49). Hacking also claims that classification has the power of literally “bringing into existence” the classified objects, thus “making up people” and creating “ecological niches” for new ways of existence as a certain kind of person (50, 51).

Furthermore, there is some ethnographic research detailing a few of psychiatrization’s mechanisms at work in specific countries and groups worldwide (38–40, 52–54). Theoretical and experiential accounts of psychiatrization are also evident in psychiatric user and survivor scholarship, the burgeoning area of Mad Studies (55–57), and, of course, the classic antipsychiatric literature of the 1960s and 70s (58–61). Recently, there have been several campaigns and publications addressing medical overdiagnosis and disease-mongering in general but lacking a special focus on psychiatry (62–66). Conceptually, psychiatrization unfolds as a co-production of various psycho-disciplines (psychology, psychotherapy, psychoanalysis) from which mostly synergistic processes of dispersion of psycho-knowledge, concepts, and vocabulary are derived (67). It shares many features with various current or preceding concepts and theories that are grounded in a plethora of disciplines:

1. The conceptual framework of medicalization has been mainly coined by social scientists, among them Irving Zola, Peter Conrad, and Ivan Illich (68–74). Medicalization is understood as the process of defining and treating problems as medical that formerly had been perceived as non-medical, and thus expanding medical jurisdiction into new realms.

2. Building on these ideas, the concept of biomedicalization (75) describes an intensification of medicalization driven by technological progress in the bio- and life-sciences, whose main vector of expansion is the conversion of health into a commodity and normality into something which has to be maintained or actively produced.

3. A third line of argument uses the term pharmaceuticalization to point to a growing consumption of prescription- and lifestyle-drugs in many fields of medicine (76–78). More specific to psychiatry, medical anthropologist Janis Jenkins (79) explores how the cultural constitution of the self is influenced by widespread use of psychopharmaceuticals, while Nikolas Rose (80) has coined the expression of “neurochemical selves” for individuals who experience their own emotions as epiphenomena of their brain chemistry.

4. A fourth theoretical tradition builds on the notion of psychologization (81, 82) or therapeutization (83), seeing psychology as a discipline that shares or better reproduces many of psychiatry’s most fundamental assumptions. Yet, unlike psychiatry, psychology does not necessarily make claims about the biological base of mental illness or human behavior in general. Instead it supports the psychiatric epistemology by centering around individualist categories (e.g., individual capacities or deficiencies), and thereby tending to overlook or neglect political and social contexts. In a slightly different sense, psychologization is also used to refer to society’s growing interest in individual emotions and psychological mechanisms in general over the last decades, preparing the breeding ground for what has been called a “therapy culture” (84). In a similar vein, it has been argued that many psychological concepts relating to harmful events and negative human experience have undergone semantic shifts within the last years in a way that they now include a broader range of phenomena or quantitatively less extreme examples of already known phenomena. This “concept creep” is hypothesized to mirror society’s growing sensitivity toward harm and suffering, but on the other hand, criticized for contributing to further psychologizing and pathologizing normal experiences (85).

**Psychiatrization: A Working Definition**

Psychiatrization is notoriously hard to define, as psychiatry itself is diverse, comprising rivaling branches with very different views on what causes and defines mental disorders and how to treat them. Also, the boundaries between psychiatry and neighboring disciplines like clinical psychology are often fuzzy and difficult to determine. Synthesizing the aforementioned approaches and concepts, we suggest to define psychiatrization as a complex process of interaction between individuals, society, and psychiatry through which psychiatric institutions, knowledge, and practices affect an increasing number of people, shape more and more areas of life, and further psychiatry’s importance in society as a whole. Psychiatrization is an ongoing process which is not monolithic. Like other complex social developments, such as individualization or modernization, it is in itself extremely
heterogeneous and appears in multiple, steadily transforming sub-processes (86) (see Figure 1). It can include both material (e.g., growth of psychiatric infrastructures) as well as ideological aspects (e.g., defining a certain condition as disorder) and is rooted in numerous fields and disciplines (e.g., psychology, psychotherapy, etc.). As a whole, psychiatrization reciprocally both causes and reflects the seemingly high incidences of psychiatric disorders and growing mental healthcare utilization.

Although there is some criticism that psychiatric epidemiology might be over-inclusive and biased (87–89), high prevalences and incidences of mental disorders, and even more so, strong evidence for growing service-use based on psychiatric diagnosis indicate that an increasing number of people currently are or are likely to be affected by psychiatry either directly or indirectly. This demonstrates the core feature of psychiatrization: its strong drive toward quantitative expansion (47), which comes into being, for example, through changes in diagnostic practices [e.g., through diagnostic inflation (36, 73, 90)], the growth of the psychiatric healthcare system in many countries or the soaring use of psychotropic drugs worldwide (13, 19, 91). Changes at the institutional or scientific level often correspond with more subtle transformations, such as the infusion of psychiatric terminology into everyday language (e.g., trauma, paranoid) or the interpretation of life events and personal experiences through the lens of psychiatric concepts (e.g., burn-out, depression). Thus, psychiatrization also transforms the life worlds of people without any personal connection to psychiatry.

However, the general psychiatrization of society might also be contrasted with rare examples of de-psychiatrization, which demonstrate that psychiatrization is not a deterministic one-way road. Instead, it is actively negotiated and can sometimes even be openly resisted by professionals as well as by laypeople. The most prominent case of de-psychiatrization might be the de-pathologization of homosexuality and its removal from DSM-II in 1973, showcasing that changing attitudes in society can also result in the rejection of psychiatric labels and normalize behavior, which was previously deemed “sick” or “ill” (92). Also, competing psy-disciplines might sometimes, at least partially, challenge psychiatrization despite sharing some underlying logic, for example, when therapists oppose the pharmaceutical treatment of disorders thought to respond better to psychotherapy.

Approaching a Comprehensive Model
According to the literature mentioned above and the broad variety of factors for psychiatric expansion that it displays, it is important to keep in mind that the various manifestations of psychiatrization are not under central control or a common endeavor of certain key-players. Their power derives much more from public and scientific discourse or economic rationality than from deliberate actions of specific individuals. This also implies that explanations that mainly focus on the collaboration between psychiatry and the pharmaceutical industry run the risk of scientifically falling short (36, 44). However, in most cases, psychiatrization unfolds in multiple interactions with vectors going top-down as well as bottom-up. This dynamic can also implicate looping-effects in the very sense of Ian Hacking’s theory (48, 49).

As a heuristic approximation, relevant protagonists can be classified into agents on the top-level or on the bottom-level. Top-level agents are defined as being either mental healthcare professionals or in other ways professionally tied to the healthcare system, while the agents on the bottom level are “laypeople” from a medical point of view, who do not have a professional connection to (mental) healthcare. A comprehensive model of psychiatrization and any further analysis needs to incorporate these two main levels and the vectors of interaction in between (see, Figure 1). This structure may also serve as a scheme to help characterize single sub-processes of psychiatrization (93).

Top-Down Psychiatrization
Typical protagonists of top-down psychiatrization would be psychiatrists, psychotherapists, clinical, and non-clinical scientists with connections to psychiatry, politicians with an impact on healthcare on a structural level, health insurers, pension funds, the pharmaceutical industry, and medical engineering companies. Examples for top-down-initiated psychiatrization processes can be large scale restructuring of mental health services, lawmaking, publication of new treatment and diagnostic guidelines, the introduction of new diagnoses into ICD and DSM, diagnosis- or treatment-related financial incentives by insurers, the development of new and the approval of existing psychotropic drugs for certain conditions, compulsory mental health screening in schools and workplaces, and requirements for diagnoses to access educational support.

In the texts that form the foundation for this conceptual mapping, various examples for analysis focusing on top-down-mechanisms are provided. For instance, Whitaker and Cosgrove detail how top-down psychiatrization in the USA evolved in close cooperation between the American Psychiatric Association, the pharmaceutical industry and academic psychiatry, resulting in the systematic popularization of overestimated benefits from SSRI-treatment and in official treatment guidelines comprising recommendations which contradict solid scientific evidence (44). Conrad (72) describes the re-shaping of the DSM-III diagnosis “social phobia” into “social anxiety disorder” (SAD) in DSM-IV, which has been criticized elsewhere as “the medicalization of shyness” (94). Small changes in wording expanded the reach of this previously rather rare diagnosis considerably. This was embraced by the pharmaceutical company SmithKline Beecham’s as an opportunity to sell the SSRI-antidepressant Paxil, despite the market for depression having already reached saturation. Conrad highlights the crucial importance of lawmaking, as the loosening of legal requirements for direct-to-consumer (“DTC”) pharmaceutical advertising in the United States set the stage for a new marketing strategy with emphasis on television commercials. These turned out to play a key role in creating the “anxiety-market” by raising public awareness for SAD as a widespread and highly debilitating condition and, after Paxil’s FDA-approval for SAD
in 1999, by promoting Paxil as the adequate remedy. In this case of top-down psychiatrization, changes to the DSM and federal lawmaking contributed heavily to the creation of a new epidemic of SAD with estimated point prevalences of up to 13.3% in the US-population on the one hand (72), and Paxil becoming one of the world’s best-selling drugs of all time on the other hand (71).

A more recent example of top-down psychiatrization, which has been discussed extensively in both scientific and popular literature, is the suspension of the so called “bereavement-exclusion” from DSM-IV to DSM-5 (95–97). This alteration, which was performed in a top-down-way by the DSM-5 Task Force, is criticized for further inflating the psychiatric category of depression, thus blurring the line between mental illness and ordinary grief while making more individuals eligible for psychiatric treatment.

In the Global South, top-down psychiatrization may occur through turning culturally accepted ways of expressing distress into psychiatric conditions, e.g., through integration as culture-bound syndromes into DSM and through mental health legislation, such as the categorization of specific psychotropic drugs as “essential medicines” by the WHO or its encouragement of the use of the mhGAP-Intervention Guide as diagnostic and treatment algorithm in primary care (24, 98, 99). Also, the pharmaceutical industry’s initiatives to open up new markets for psychotropic medication in non-Western countries can often be seen as mainly top-down driven cases of psychiatrization (100). Exporting specific medication may also entail the export of the very Western concepts of mental disorders which are the underlying rationales for its use, as has been discussed e.g., for the marketing of SSRI-antidepressants in Japan (101, 102).

**Bottom-Up Psychiatrization**

Most criticism about psychiatry’s expansion highlights agents on the top-level and top-down processes. However, it seems to be a main characteristic of psychiatrization in modern and postmodern societies that it is advanced to a significant degree by laypeople without professional ties to psychiatry or the health-care system in general (see, Figure 1). This argument is in line with Michel Foucault’s claim that psychiatrization might be “requested, rather than imposed” [(103), p. 296] and “does not come from above, or not only from above” [p. 295]. As opposed to top-down psychiatrization, where the supply of certain options (treatments, diagnosis, etc.) precedes and prompts the demand on the bottom-level, the concept of **bottom-up psychiatrization** underlines that the needs and desires of patients, proto-patients, and consumers can also induce changes on the top-level. This typically results in widening the range, changing the kind or facilitating the accessibility of the available options. Hence, the psychiatric permeation of individual life and collective spheres in capitalist Western societies is to a large part demand- and consumer-driven, which resonates with widespread claims about the gradual transformation of patients into consumers in medical sociology (70, 104, 105) and the commodification of individual health (75, 106).
Typical drivers of bottom-up psychiatrization might be people searching for recognition of subjective suffering or difference through clinical diagnosis (47), people with mild or unspecific “symptoms” using professional healthcare services without clear indication (107, 108), or the demand of parents or other caregivers for diagnoses and treatment of perceived learning and behavioral disorders (109, 110). Individual interests might also be organized in and articulated by advocacy groups trying to raise awareness for certain diseases and stimulate political action in favor of people with specific diagnoses (110, 111).

In the aforementioned literature and related publications, several examples for bottom-up psychiatrization can be found, although the traditional view of psychiatric expansion lays more emphasis on top-down processes. Conrad (71) and Scott (112) analyze the inclusion of Posttraumatic Stress Disorder (PTSD) into the DSM-III as a joined endeavor of returning Vietnam war veterans and some anti-war psychoanalysts and psychiatrists. The objectification of PTSD as psychiatric disorder hence was driven to a substantial degree by political motivations and private, not least financial interests of laypeople, namely ex-soldiers, whose psychological distress due to deeply disturbing war experiences had not been officially recognized as disorder before (113).

Conrad and Potter (48) describe how Attention Deficit Hyperactivity Disorder (ADHD) evolved from a condition which used to be limited to childhood into a lifespan disorder. This transformation was triggered by a wave of books and articles in lay media popularizing the idea that ADHD could persist beyond childhood and might account for many problems in adult life such as relationship issues or disorganization at the workplace. The ADHD support and advocacy group CHADD (“Children and Adults with Attention-Deficit/Hyperactivity Disorder”) played a prominent role in the further promotion of the idea that ADHD should be seen as neurobiologically caused and consequently as a lifespan-disorder. Within this context, many adults who claimed to recognize themselves in ADHD-symptomatology were seeking official confirmation of their “symptoms” using professional healthcare services without clear indication (47). The extent, and dynamics of bottom-up psychiatrization (117). Still, bottom-up psychiatrization understood in the sense of demand- or desire-driven induction of changes on the top-level seems to take place rather in consumerist societies, where economies run on evoking desires and elaborate psychiatric infrastructures already exist.

**DISCUSSION**

**Relevance and Consequences**

Processes of psychiatrization are increasingly relevant in the light of a fundamental reorientation of mental healthcare provision in many countries worldwide (e.g., through digitalization, further deinstitutionalization, and the scaling up of community care), which may coincide with ongoing profound political and social changes (e.g., due to economic crisis, climate change, globalization) (86, 118–121). The extent, and dynamics of psychiatrization processes largely depend on the economic situation of a region or country, the structure of its healthcare system or cultural influences. Given the magnitude of these factors, which all include a historical dimension that adds further complexity, a full assessment of context and origins remains a challenge for future research. Also, the effects of psychiatrization are diverse, highly ambivalent, and significantly influenced by the aforementioned local factors. Individuals or groups might well-benefit from aspects of psychiatrization, as the growing mental healthcare system can also increase accessibility and provision of services that are subjectively helpful and medically clearly indicated. Thus, it can be complicated for research to distinguish legitimate attempts to meet real unmet-needs from building up infrastructures which create artificial need or promote pathologization and overtreatment of mental distress, especially in areas with little specialized care for mental disorders.
However, further research about the nuances of psychiatrization is necessary. Besides significant regional differences in its causes and mechanisms, the role of mental health professionals other than psychiatrists or psychotherapists may be a crucial, widely unexplored aspect. Given the trend to the multidisciplinary treatment of mental distress in the Global North, professions such as occupational therapists, social workers, mental health nurses, or rehabilitation counselors deserve a special focus. They may be agents who play an important role in mediating between the top- and the bottom-level of psychiatrization (see, Figure 1). On the one hand, although they do not exert the power of psychiatric diagnosis themselves, they might benefit from psychiatric expansion and their professional (group) interests might be a reinforcing factor. On the other hand, their work may also contribute to preventing psychiatrization or to mitigate its effects, e.g., by avoiding hospitalization or by empowering people in mental distress to overcome crisis without consulting a psychiatrist or psychotherapist. In this context, it will also be an important research question how the growing involvement of mental health service-users as counselors or lay-therapists in psychiatric institutions relates to psychiatrization.

Advancing research on psychiatrization may be important, in the light of its obvious risks on the individual, societal and public health-level: First, on the individual level, negative consequences of psychiatrization may relate to overdiagnosis and overtreatment, e.g., medication adverse effects and harms from long term use (43, 122–128), but may also be about the impacts of labeling and of coercive treatments (129–131). Through pathologization of minor disturbances of well-being, individual variation and numerous life issues, psychiatrization can also co-produce avoidable patient careers, create dependencies on mental health services, and ultimately promote disempowering changes to subjectivity and sense of self (80, 132–134).

Second, on the societal level, psychiatrization may risk to further narrow the range of what is perceived as “normal,” encourage ineffective and short-term medical interventions, prompt individuals to cope with social problems and impede the finding of adequate long-term solutions (67, 134, 135). Such solutions would be situated rather in the realm of politics, where psychiatrization might otherwise be contributing to disguising failed policies.

Third, from a public health perspective, psychiatrization of society runs the risk of establishing widespread inverse care by increasingly neglecting the most severely and chronically ill, when mental health services are tailored to the needs of the mildly ill and borderline cases (18, 136, 137). Accordingly, the relative shortage of psychotherapists and long waiting times for outpatient services in some countries of the Global North may be a direct effect of structurally induced healthcare over-utilization by the “worried well” (138, 139).

Fourth, from a global perspective, psychiatrization could lead to excessive diagnosis and prescription of medication with little monitoring once people are medicated in countries with low and middle incomes, where psychiatrization is to a large degree exerted through task-sharing. In these countries this may also undermine local support systems and promote individualized interventions into poverty (67, 140). Worldwide, psychiatrization could contribute to challenging public health by misallocating scarce resources toward biomedical research and pharmacological treatment instead of strengthening psychosocial interventions (141, 142).

CONCLUSION AND PERSPECTIVES

Psychiatrization is a highly complex and diverse global process with various protagonists. Its effects are ambivalent but can be harmful in many ways to individuals, societies, and public healthcare systems. To better understand, and also to deal with negative consequences of psychiatrization, there is primarily a need for research, which might be accompanied by public debate and, ultimately, may help inform political decision-making.

On the scientific level, transdisciplinary research is necessary to empirically establish the existence of psychiatrization by assessing and, wherever possible, measuring its different causes, mechanisms and effects in relation to clearly defined areas, such as a region, a city or a nation. This kind of research should also include the different perspectives of a broad variety of professions involved in mental health care, among them, apart from psychiatrists and psychotherapists, social workers, occupational therapists, mental health nursing professionals, or rehabilitation counselors. To this end and due to the complex and multi-layered nature of the research topic, a mixed-methods approach seems most suitable (143): Quantitative methods can contribute to establishing a solid fact base about the growth of psychiatric infrastructures, local trends in prevalence, and healthcare utilization (144). Relevant data would comprise changes in treatment capacities and utilization of psychiatric hospitals and outpatient-departments, government and health insurance expenditure for mental health, trends in psychotropic drug prescription and self-reported usage, availability and utilization of psychological treatment, numbers of primary-care physician contacts for psychological problems and all kinds of available data sets about prevalence and incidences of mental disorders, e.g., as measured by national mental health surveys. Qualitative approaches such as expert interviews, in-depth group interviews or participant observation would be used to make visible the effects of psychiatrization in the everyday life of individuals, exploring subjective and collective meanings of different aspects of psychiatrization and identifying motives for engaging in psychiatrization processes or resisting them (145–147).

Both types of research will be necessary prerequisites for data-based theory development about psychiatrization, its causes, its mechanisms, and its effects on public health, individuals and society. As mentioned above, the extent and type of psychiatrization processes largely depend on the economic and political situation, culture and history of a region or country. This renders a complete assessment of context difficult to achieve. Nonetheless, a data-based theory, enriched with an in-depth description of contextual factors, seems to be a realistic goal which can also help inform public debate, stakeholders in healthcare and political decision-makers. Main overall research
goals will be to better understand how changes on the level of mental healthcare provision or utilization (1) are shaped by individual action of both top- and bottom-level agents, (2) are affecting patients’ and proto-patients’ lives, e.g., through (over)diagnosis, changing self-definitions or inducement of patient-careers, (3) advance the dissemination of psychiatric concepts, knowledge and epistemologies in society, (4) induce or intensify the permeation of certain areas of private and public life, and (5) interact with or are determined by larger economic, social, and cultural developments.

As psychiatrization is transdisciplinary as a research-object, expertise from various fields other than psychiatry are required, such as health services research, epidemiology, and public health. To mediate between the discourses of the various sciences and disciplinary traditions, researchers with a background in ethnology, medical anthropology, sociology, and philosophy etc. should also be involved from the beginning. It will be equally important for all research to build up collaborative projects between professionals and service users that value user, survivor and Mad Studies knowledge, whose common projects between professionals and service users that value equally important for all research to build up collaborative etc. should also be involved from the beginning. It will be

empirically proving that psychiatrization exists, developing valid indicators for its extent, showing hot spots and key-factors on a local scale, thickening theory and generating hypotheses and research goals for more complex, larger scale research programs. In the long run, as psychiatrization occurs globally, both local and global perspectives will be required, pointing out the many different ways that psychiatrization manifests, is embraced, appropriated, or resisted around the world.

AUTHOR CONTRIBUTIONS

TB, ST, and SP initiated research and were responsible for devising the article. TB developed the comprehensive model, wrote the initial draft, and coordinated the other authors’ contributions. All authors contributed to literature search, interpretation of literature, helped draft the final version of the manuscript and revised the article critically for important content. All authors approve the final version to be published and agree to be accountable for all aspects of the work, its accuracy and integrity.

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