Patient Safety in Mental Health: A Systematic Review of the Literature

Tracey A. Brickell, D.Psych.¹; Tonia L. Nicholls, Ph.D.¹,²; Ric M. Procyshyn, Pharm.D., Ph.D.¹,²; Rebecca J. Dempster, Ph.D.¹; Jennifer A. A. Laviole, M.A.¹; Kimberly J. Sahlstrom, M.A.¹; Todd M. Tomita, M.D., FRCPC¹,²; & Eugene Wang, M.D., FRCPC¹,²

¹British Columbia Mental Health and Addiction Services
²University of British Columbia

Introduction
It is only recently that patient safety in mental health was considered a field in its own right. There is a lack of awareness of the issues as well as a shortage of research and readily available information to guide patient safety systems, practices, policies, and care delivery in mental health. An in-depth review of the white and grey literature was conducted to identify current trends and gaps in the patient safety and mental health literature.

Method
Using a variation of Cochrane’s Highly Sensitive Search Strategy, the following patient safety and mental health parameters guided the search: 1) concepts of violence and aggression, victimization, suicide and self-harm, seclusion and restraint, falls and accidents, absconding, adverse medication events, and adverse diagnostic events; 2) diagnoses in the DSM-IV-TR; 3) primary, secondary, and tertiary mental health care; 4) hospital, private sector, and other community-based mental health services; 5) child and youth, adult, and older adult populations; and 6) publications between 1999-2008 in English. Exclusions included: 1) patients with mental illness receiving care outside the mental health sector; 2) privacy violations; 3) adverse effects of specific medications; 4) medical equipment failure not specific to mental health settings; and 5) infectious disease. A literature search on infection prevention and control, and fire prevention and precautions, did not reveal results unique or relevant to mental health and were not included in the search strategy.

The CPSI and BCMHAS librarians directed the searches. White literature searches were completed in Medline, CINAHL, Embase, and PsycINFO electronic databases; 974 resources were retrieved. The grey literature was searched using 66 Canadian and international patient safety, mental health, government health care, and library websites. Seven key search terms were entered into the main search box one at a time. If a key term returned greater than 20 hits, it was combined with 32 keywords, one at a time; 403 documents were retrieved. Additional papers (approximately 110) were reviewer nominated and/or identified from reference lists.

Results
High quality research: The patient safety literature is plagued by methodologically unsophisticated research. Particularly lacking is attention to the use of longitudinal studies, randomized control trials, validated measures, measurement consistency, power analysis and effect sizes, and adequate sample sizes.

Canadian research: The bulk of the literature was from the United States, Australia, and the United Kingdom. While some of the findings from other jurisdictions will likely apply to Canada, it is reasonable to anticipate that some issues might be unique to the Canadian context and overlooked.

Patient perspective: Most research examined the staff’s perspective on patient safety. Lacking was research reflecting the patient’s or the family/caregiver’s perspective.

Understudied populations and settings: Most research was conducted on adult populations and in hospital settings, with little research examining patient safety in older adults and child/adolescent populations; different cultural, ethnic, and religious groups; indigenous populations; or patients from the private sector, rural settings, and other community-based mental health care.

Emotional/psychological experiences: Lacking was research investigating the emotional or psychological experiences following a patient safety incident, with most research focusing on physical harm and injuries.

Risk assessment, training, and intervention: Research focused on establishing well-validated and consistently accepted risk assessment tools, with sound psychometric properties and clinical outcome statistics was scarce. Further, there was virtually a complete absence of high quality research focused on evaluating the efficacy of patient safety training programs and interventions.

Conclusion
Research on patient safety in Canadian mental health care is particularly lacking. To attract high quality researchers who can develop and implement rigorous methodologies and generate Canadian data, research funds need to be available. Greater attention is required to under-researched populations and areas including older adults and child/adolescent populations; different cultural, ethnic, and religious groups; indigenous populations; and patients from the private sector, rural settings, and other community-based mental health care services. Research investigating the perspectives of the patient and their social network on patient safety incidents, along with the perspective of the staff, would be valuable. Research looking at the physical, as well as the emotional and psychological outcomes associated with patient safety events is required.

This research is part of a larger project which includes an analysis of data from (a) key informant interviews and (b) discussions at an invitational roundtable event, conducted to produce a background paper on patient safety in mental health. Direct correspondence to TRACEY A. BRICKELL, D. Psych., email: tbrickell@bccancer.bc.ca.

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