

Diabetes Care in an Acute Psychiatric Inpatient Setting – A Logic Model For Service Delivery



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Introduction

People with severe mental illness have a shortened life expectancy ^[1,2,3], with cardiovascular disease the main cause. ^[4] Diabetes is a major risk factor for this. ^[5] The aim of the project was to develop a logic model that illustrates the steps needed to develop an effective intervention for diabetes management in a psychiatric inpatient setting, as the point of admission to a psychiatric inpatient unit may present as an opportune time for improving diabetes care.

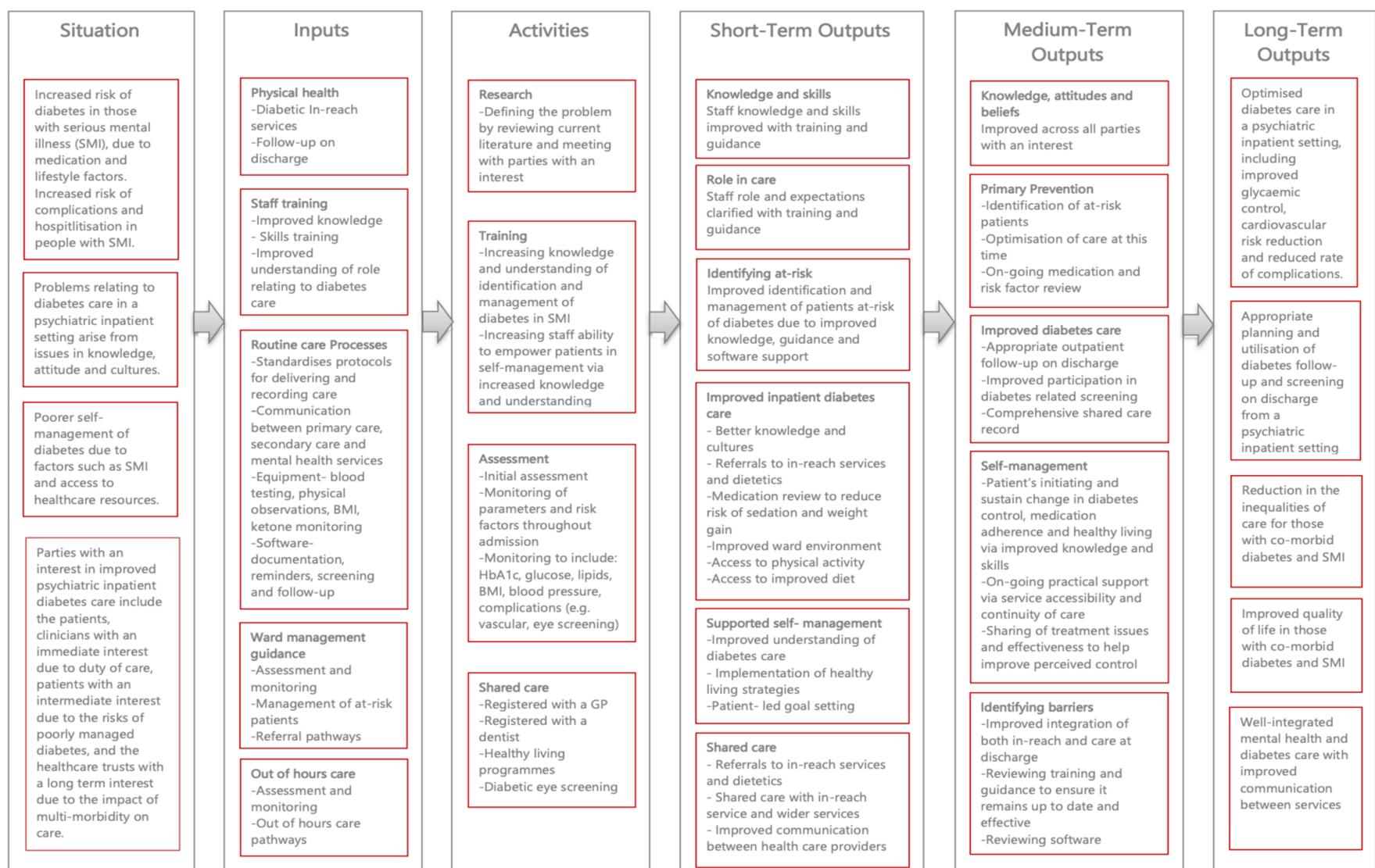
Methods

We undertook (i) a survey of diabetes care among inpatients in a Mental Health Trust in England, comparing care to the National Health Service (NHS) Core National Diabetes Standards ^[6] (ii) interviews with key clinical staff to understand challenges in delivering good diabetes care (iii) a review of current UK guidance on standards for diabetes care. Based on the findings, we developed an initial logic model for service delivery.

Results

Among 163 inpatient records reviewed, 44 (27%) had a diagnosis of diabetes, and only 3 (7%) had all three National Institute for Health and Care Excellence (NICE) treatment targets of HbA1c, cholesterol and blood pressure within range. Staff identified needs for regular training, better understanding of roles in shared care, and good quality IT support. We developed a logic model that illustrates the steps needed to develop an effective intervention for diabetes management in a psychiatric inpatient setting.

The Logic Model



Discussion

The results of the survey demonstrate a need for better diabetes care in the inpatient psychiatric setting. The problem in care is likely to include patient factors such as understanding of disease and need for treatment, adherence to treatment and mental state alongside shared care and referral pathways. Key themes of the logic model include developing staff training to help improve knowledge, skills and understanding of roles within mental health professionals, as well as cohesive shared care between medical specialties and services and identifying barriers to good care in order to achieve longer-term outputs.

Conclusion

Admission to a psychiatric inpatient setting provides an opportunity in which diabetes care may be optimised. The quality and understanding of diabetes care will need to be enhanced if this opportunity is to be exploited.

References

- Chang CK, Hayes RD, Perera G et al. Life expectancy at birth for people with serious mental illness from a secondary mental health care case register in London, UK. PLoS One. 2011;6: e19590.
- Lawrence D, Hancock KJ, Kisely S. The gap in life expectancy from preventable physical illness in psychiatric patients in Western Australia: retrospective analysis of population based registers. BMJ. 2013; 346: f2539.
- Saha S, Chant D, McGrath J. A systematic review of mortality in schizophrenia. Arch Gen Psychiatry 2007; 64: 1123-31.
- Hennekens C, Hennekens A, Hollar D. et al. Schizophrenia and increased risks of cardiovascular disease. American Heart Journal. 2005; 150: 1115-1121.
- A Joint Editorial Statement by the American Diabetes Association; the National Heart, Lung, and Blood Institute; the Juvenile Diabetes Foundation International; the National Institute of Diabetes and Digestive and Kidney Diseases; and the American Heart Association. Diabetes Mellitus: A Major Risk Factor for Cardiovascular Disease. Circulation. 1999; 100 (10): 1132-1133.
- Core National Diabetes Audit - NHS Digital [Internet]. NHS Digital. 2020 [cited 13 October 2020]. Available from: <https://digital.nhs.uk/data-and-information/clinical-audits-and-registries/national-diabetes-audit/core>.