

Assessing Readiness to Address Postoperative Delirium in Saskatchewan

A Knowledge Translation Study

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Introduction

Postoperative delirium (POD) is the most common complication after surgery in patients over age 65¹

- **POD can increase poor outcomes for patients including time in hospital/recovery, frailty/independence and even mortality²**
- **There exist several strategies to reduce POD such as the Perioperative Brain Health Initiative and the American Society for Enhanced Recovery (ASER) Guidelines³**
- **Despite its prevalence, the risk of POD as a complication of surgery is often overlooked by healthcare workers and patients**
- **Further work can be done to educate both healthcare workers and patients about how to decrease the incidence of POD**

Methodology

We will use different media over several months to increase long-term engagement



Multidisciplinary Lecture Series

Three lectures for stakeholders discussing frailty, geriatric psych, and POD guidelines



Posters and Pre-Op Pamphlets

Placement of info in high yield areas (Pre-op, ORs etc.) explaining risks and linking to previous resources



Podcast and Interviews

Discussions with POD experts and Saskatchewan residents to highlight impact of this complication



Educational Videos

Creation and distribution of animated videos depicting risks and treatment of POD to perioperative workers

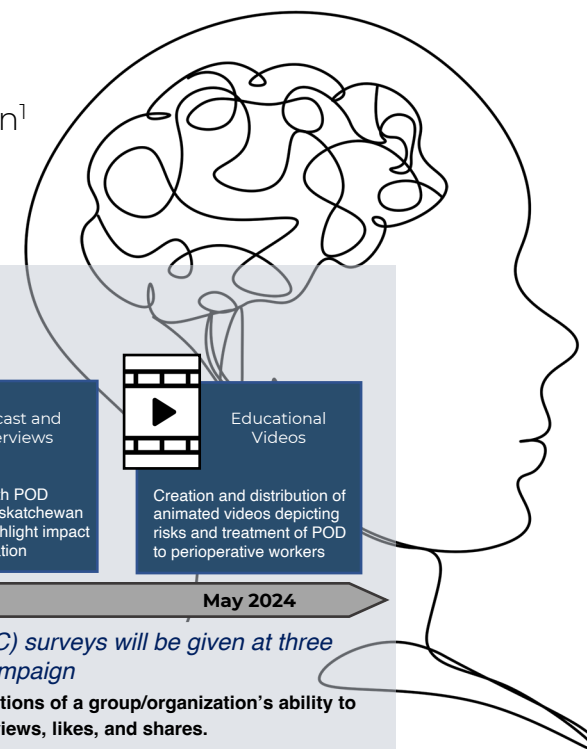
September 2023

February 2024

May 2024

Organizational Readiness for Implementing Change (ORIC) surveys will be given at three different time points during the campaign

ORIC is a validated, 5-point Likert scale used to assess individual's perceptions of a group/organization's ability to make system changes⁴. We will also collect engagement metrics such as views, likes, and shares.



Objectives

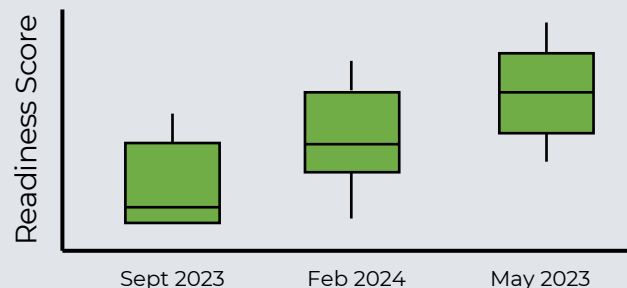
Implement a knowledge translation campaign to educate perioperative stakeholders about POD

Further underlying goals of our study include:

1. **Sharing knowledge of the ASER Guidelines and Perioperative Brain Health Initiative**
2. **Facilitate meaningful collaboration between different stakeholders to build relationships for future projects**
3. **Preparing stakeholders and increasing their readiness to implement system changes to address POD in Saskatchewan**

Expected Results

We anticipate a steady improvement in readiness to change through the rollout of the campaign



- **Results will be analyzed with a combination of descriptive and inferential statistics**
- **Readiness Scores will be evaluated using a two-way ANOVA**

Next Steps

Our results will help guide the implementation of system changes to address POD in Saskatchewan

- **We are currently completing ethics application for this study, having secured funding from SHRF**
- **Knowledge translation materials will be developed in Summer 2023 with collaboration from various stakeholders**

References

- 1 Watt J, Tricco AC, Talbot-Hamon C, et al. Identifying Older Adults at Risk of Delirium Following Elective Surgery: A Systematic Review and Meta-Analysis. *J Gen Intern Med.* 2018
- 2 Hladkovic E, Dorrance K, Bryson GL, et al. Identifying barriers and facilitators to routine preoperative frailty assessment: a qualitative interview study. *Can J Anesth.* 2022
- 3 Peden CJ, Miller TR, Deiner SG, Eckenhoff RG, Fleisher LA. Improving perioperative brain health: an expert consensus review of key actions for the perioperative care team. *Br J Anaesth.* 2021
- 4 Shea CM, Jacobs SR, Esserman DA, Bruce K, Weiner BJ. Organizational readiness for implementing change: A psychometric assessment of a new measure. *Implement Sci.* 2014