Exploring clinician experience with virtual care for pediatric concussion during the COVID pandemic

THE SCHOOL CALGARY OF PUBLIC POLICY

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Participants

8

8

5

5

3

Table 1: Care Platforms used by Participants

Other platforms used: Doxy.me (n=2), Google Meet

Platform

Ontario Telemedicine Network

(n=2), What's App (n=2), Citrix (n=2)

virtual services

provided virtually

Zoom Healthcare

Microsoft Teams

Jane App

Telephone

Background

- Access to comprehensive concussion care is limited in Canada, especially for those in remote communities¹
- Telehealth and virtual care have been recommended to increase access to concussion services across Canada²
- During the COVID-19 pandemic, many clinicians have shifted abruptly to implement virtual care
- However, there is currently very limited published literature that describes the use of virtual care for concussion management
- Understanding clinician experience providing telehealth services for concussion may help inform strategies to support continued use of virtual care beyond the COVID-19 pandemic

Research Objectives

- 1. Explore clinician experience providing virtual telemedicine or telerehabilitation services for concussion during COVID-19
- 2. Understand clinician perspectives about the impact of COVID-19 on recovery in youth with concussion

Methods

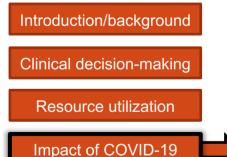
 Participants: Physicians (n=7), Occupational Therapists (n=7)

 and Physiotherapists (n=4)
 Practice Location

- 14 female, 4 male
- Primarily urban practice
- Average 12 years clinical experience in concussion



Interviews: This study is one section of a larger interview



before/during COVID-19
3. Advantages and Disadvantages of virtual care

1. Practice changes

2. Use of virtual care

4. Barriers and facilitators to virtual care

Thematic Analysis³

- 1. Initial reading for data familiarization
- 2. Deductive coding in NVivo according to major areas of inquiry
- 3. Inductive coding to capture participant perspectives
- 4. Identification of major themes based on frequency

References

1. Huot S, et al. Identifying barriers to healthcare delivery and access in the Circumpolar North: important insights for health professionals. *Int J Circumpolar Health*. (2019)78:1571385. doi: 10.1080/22423982.2019.1571385

- 2.Ellis MJ, Russell K. The Potential of Telemedicine to Improve Pediatric Concussion Care in Rural and Remote Communities in Canada. Front Neurol. 2019;10:840.
- 3.Maguire, Moira, and Brid Delahunt. 2017. "Doing a Thematic Analysis: A Practical, Step-by-Step Guide for Learning and Teaching Scholars. ." *AISHE-Journal* 1 (3).

Results

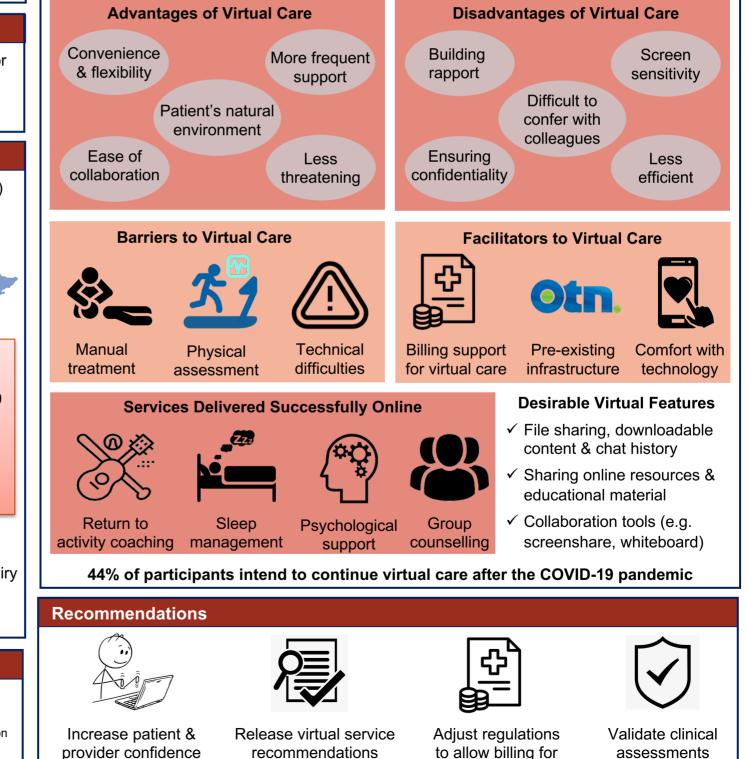
Pre-COVID-19 Virtual Care Services

- 50% of participants had experience
- Most common method previously used was telephone-check-ins
- COVID-19 viewed as a "push" for the expansion of virtual care

Impact of COVID-19 on Recovery

- Finding meaningful occupation in absence of school and sport
- Lack of social support during isolation
- · Mental health concerns related to pandemic
- Increased reliance on screen use

in virtual services



specific to concussion