

CABPS 2022 Conference



VIRTUAL PSYCHOSOCIAL CARE TO SUPPORT BARIATRIC SURGERY: LESSONS LEARNED FROM COVID-19

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DISCLOSURE: **SANJEEV SOCKALINGAM, MD, MHPE, FACLP**

- » None related to this presentation
- » Grants: Canadian Institute of Health Research (CIHR)

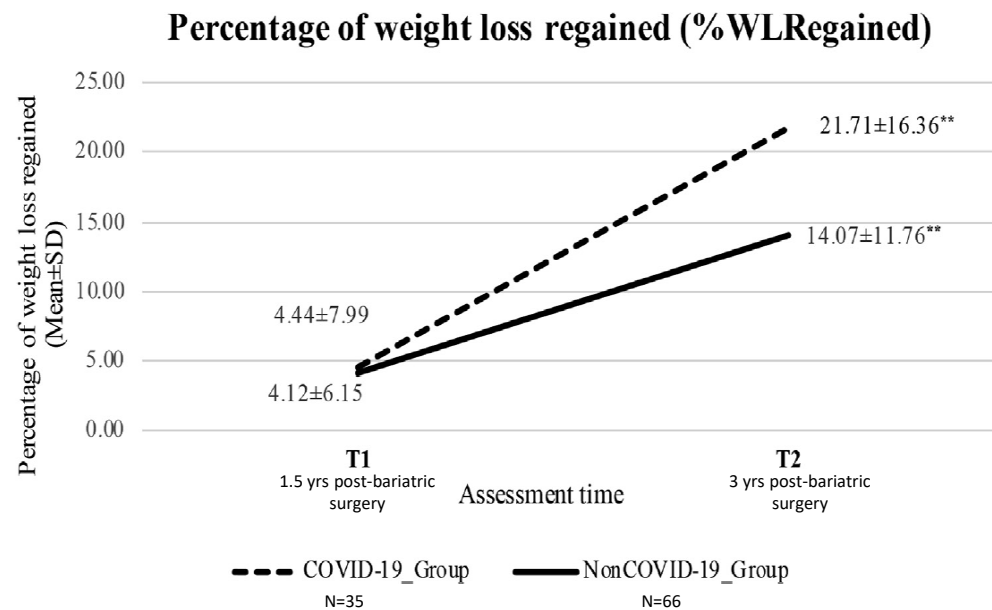
CanMEDS Roles Covered: **SOCKALINGAM** - CABPS | May 6, 2022”

X	Medical Expert (as <i>Medical Experts</i> , physicians integrate all of the CanMEDS Roles, applying medical knowledge, clinical skills, and professional values in their provision of high-quality and safe patient-centered care. <i>Medical Expert</i> is the central physician Role in the CanMEDS Framework and defines the physician’s clinical scope of practice.)
X	Communicator (as <i>Communicators</i> , physicians form relationships with patients and their families that facilitate the gathering and sharing of essential information for effective health care.)
	Collaborator (as <i>Collaborators</i> , physicians work effectively with other health care professionals to provide safe, high-quality, patient-centred care.)
	Leader (as <i>Leaders</i> , physicians engage with others to contribute to a vision of a high-quality health care system and take responsibility for the delivery of excellent patient care through their activities as clinicians, administrators, scholars, or teachers.)
X	Health Advocate (as <i>Health Advocates</i> , physicians contribute their expertise and influence as they work with communities or patient populations to improve health. They work with those they serve to determine and understand needs, speak on behalf of others when required, and support the mobilization of resources to effect change.)
	Scholar (as <i>Scholars</i> , physicians demonstrate a lifelong commitment to excellence in practice through continuous learning and by teaching others, evaluating evidence, and contributing to scholarship.)
X	Professional (as <i>Professionals</i> , physicians are committed to the health and well-being of individual patients and society through ethical practice, high personal standards of behaviour, accountability to the profession and society, physician-led regulation, and maintenance of personal health.)

OUTLINE

- » Impact of COVID-19 on psychosocial care after bariatric surgery
- » Lessons learned from the pandemic regarding virtual psychosocial care to support bariatric surgery
- » Future implications for virtual psychosocial interventions in bariatric care

OCVID-19 LOCKDOWN EFFECTS ON OBESITY AND MENTAL HEALTH



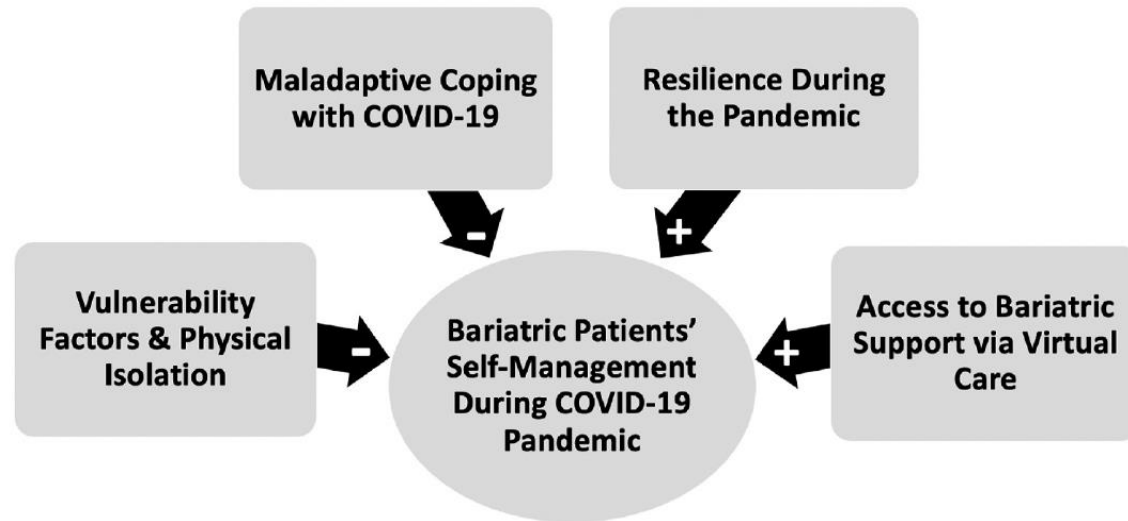
Less healthy dietary intake associated with:

- Higher depressive symptoms
- Higher alcohol use and smoking behaviours

Factors associated with weight gain for individuals living with obesity:

- Comorbid psychiatric diagnosis

IMPACT OF COVID-19 ON PATIENT SELF-MANAGEMENT OF OBESITY



Qualitative Study of 23 post-bariatric surgery patients
Range for follow-up: 6 mos – 7 years
82% female

Maladaptive Coping

- Changes in eating in response to emotional distress
- Rising cases triggered “end-of-World” eating

Vulnerability Factors & Physical Isolation

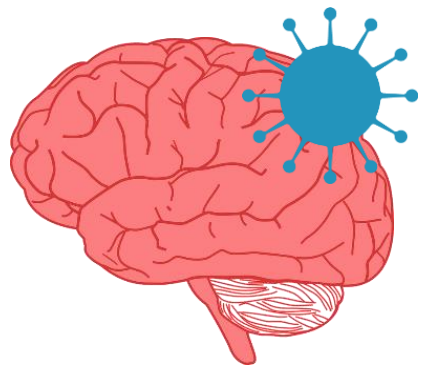
- Disrupted routines & lifestyle
- Food insecurity due to finances
- Lack of social support
- Losing work/life balance

Resilience During Pandemic

- More likely males & individuals married

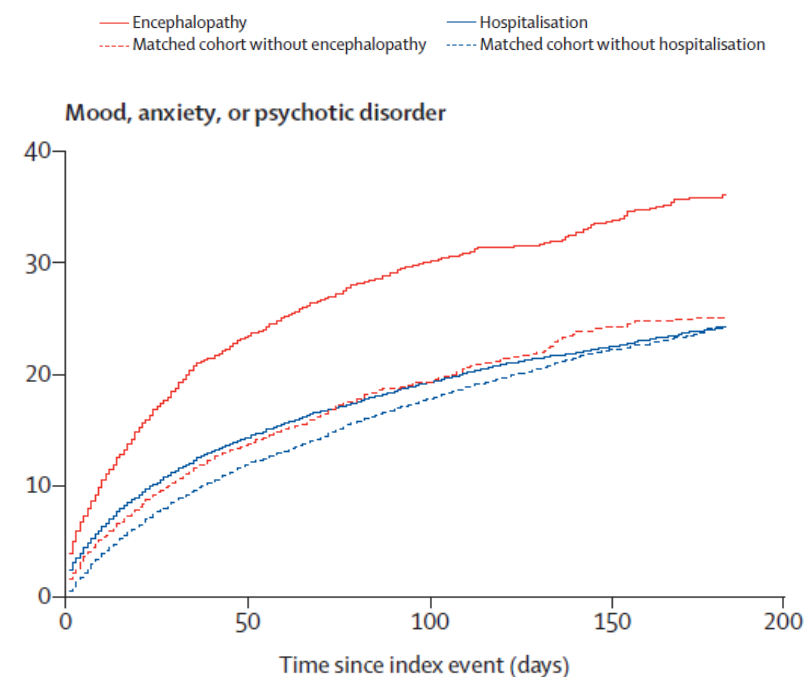
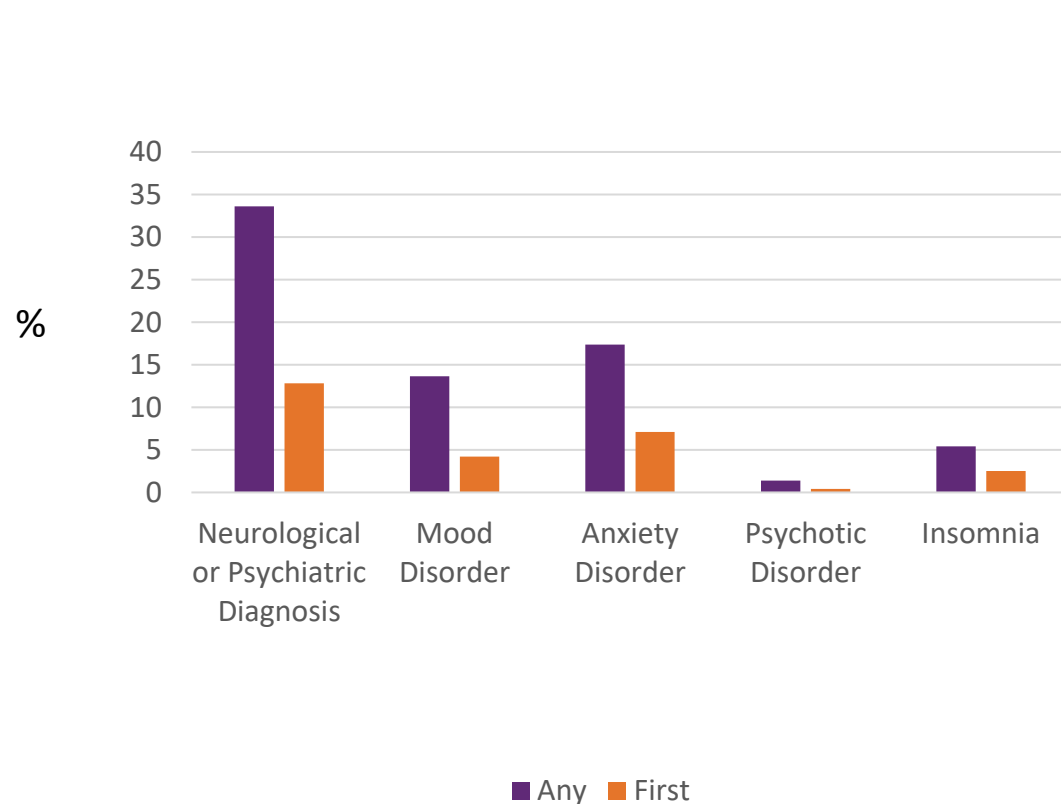
Bariatric Support via Virtual Care

- Continued access to bariatric team



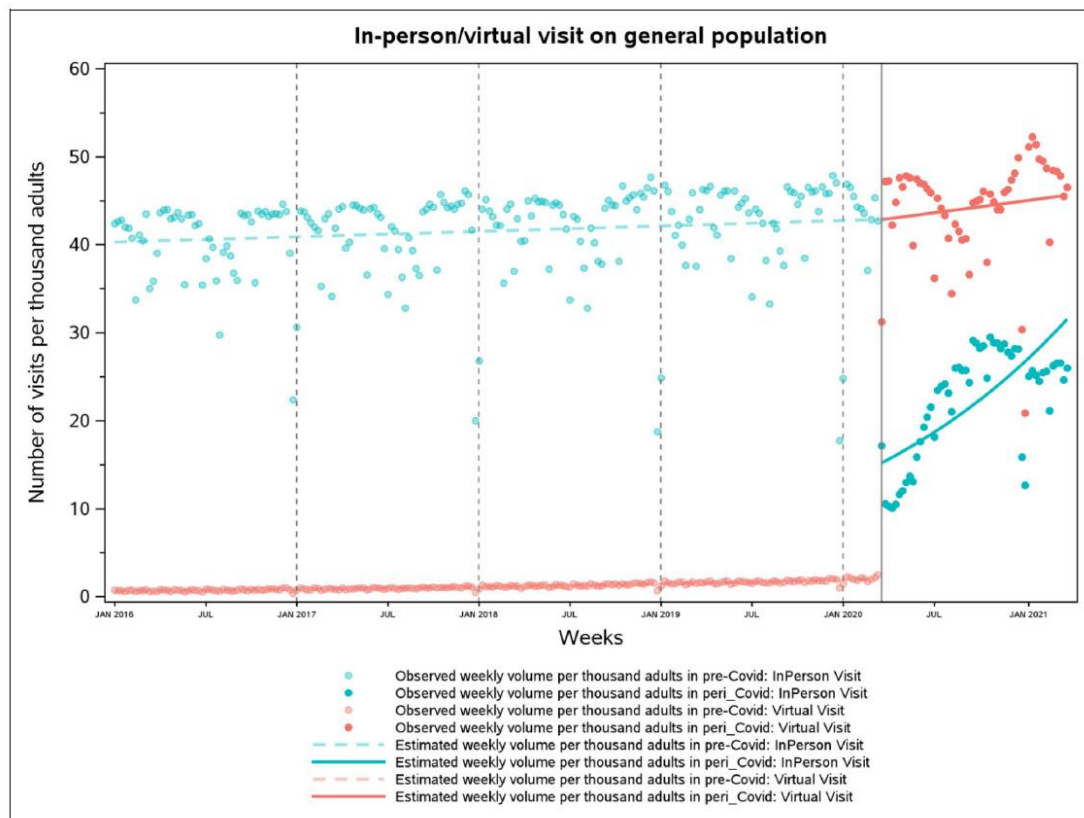
Long Covid and Mental Health

New onset psychiatric condition: + 18.1%



Higher risk with severe COVID-19 infection (hospitalization), intensive treatment unit admission, and encephalopathy (up to 80% had delirium, lasting 2x as long = 10 days)

TRENDS OF VIRTUAL CARE DURING COVID-19: ONTARIO DATA



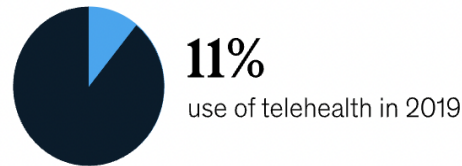
- Billing of virtual visits rose 21-fold after COVID-19
- Virtual visits did not recede after rebound in in-person visits
- Nearly all visits delivered by phone or non-OTN (Ontario Telemedicine Network) platform
- Other studies have shown high rates of phone only virtual visits (91.5%)

CHANGES IN PATIENT AND PROVIDER PERCEPTIONS OF VIRTUAL CARE DUE TO COVID-19

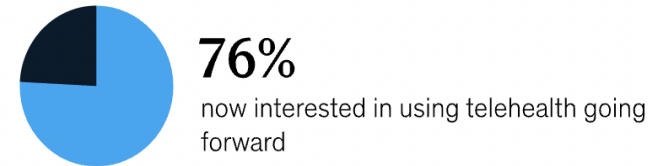
How has COVID-19 changed the outlook for telehealth?

1 Consumer

Shift from:



To:



While the surge in telehealth has been driven by the immediate goal to avoid exposure to COVID-19, with more than 70 percent of in-person visits cancelled,¹ 76 percent of survey respondents indicated they were highly or moderately likely to use telehealth going forward,² and 74 percent of telehealth users reported high satisfaction.³

2 Provider

Health systems, independent practices, behavioral health providers, and others rapidly scaled telehealth offerings to fill the gap between need and cancelled in-person care, and are reporting

50–175x

the number of telehealth visits pre-COVID.⁴



In addition, **57%**

of providers view telehealth more favorably than they did before COVID-19 and

64%

are more comfortable using it.⁵

EVIDENCE FOR & INTEGRATION OF VIRTUAL PSYCHOSOCIAL CARE TO SUPPORT BARIATRIC SURGERY

PSYCHOSOCIAL INTERVENTIONS TO SUPPORT BARIATRIC SURGERY PATIENTS DURING COVID-19



Education and Self-Care Strategies

- Provide credible information on COVID-19 & validate fears/worries
- Reinforce sleep hygiene and review nutrition

Self-Management Tools

- Recommend stress-management strategies (e.g. relaxation techniques, meditation)
- Leverage mobile health tools, such as self-management apps

Expand Supports

- Consider virtual support groups or forums

Psychosocial Care

- Virtual psychological treatments (e.g. cognitive behavioral therapy, dialectical behaviour therapy)

EVIDENCE FOR VIRTUAL MENTAL HEALTH CARE INTERVENTIONS FOR COVID-19 IN **NON-BARIATRIC** PATIENT SAMPLES

» Systematic Review of Mental Health Interventions in Adults

- 3 well-conducted trials showing that self-guided internet-based CBT, lay person support via telephone, and education and peer support improved depressive and anxiety symptoms

» Rapid Review of Past Pandemics

- Evidence for Psychological First Aid, CBT, music/relaxation intervention, nurse phone consultations/support

RECENT SYSTEMATIC REVIEW: EVIDENCE FOR BARIATRIC SURGERY E-HEALTH INTERVENTIONS

Outcome	# of Studies	Description of Evidence
Eating Psychopathology	6	Significant improvement in disordered eating, binge eating and food addiction symptoms Mainly behavioural, CBT and ACT interventions
Quality of Life	5	Significant improvement in QOL in 3 of 5 studies
Depression	4	Significant improvement in depression over control for 1 study using PHQ9
Self-Efficacy	3	Significant improvement over controls

ACT: Acceptance and Commitment Therapy

Summary :

1. Overall equal effect of eHealth interventions vs. controls on weight loss
2. No studies specifically targeting weight regain via eHealth interventions
3. Most common intervention strategies were self-monitoring, problem solving, social support, goal setting, shaping knowledge

CURRENT EVIDENCE FOR BARIATRIC SURGERY VIRTUAL (E-HEALTH) INTERVENTIONS: IMPLEMENTATION OUTCOMES



Findings:

- Limited literature on conceptual framework for studies on eHealth and intervention design
- Lack of maturity in the field on implementation science outcomes
- Some preliminary effectiveness studies but no long-term data
- Studies have not included allied health professionals' and patients' perceptions in terms of eHealth adoption

Telephone-Based Cognitive Behavioural Therapy (Tele-CBT) to Support Patients After Bariatric Surgery

ESTABLISHING EFFICACY OF TELE-CBT

- **Pre-surgery tele-CBT RCT** – showed significant reductions in binge eating (ES=0.93), emotional eating (ES=0.86), anxiety (ES=1.03); and depressive symptoms (ES=1.12)
- **Post-Surgery Open Label** - high effect sizes for improving eating, anxiety & mood symptoms
- **Post-surgery Food Addiction RCT** – showed significant reduction in food addictions symptoms 1-year post

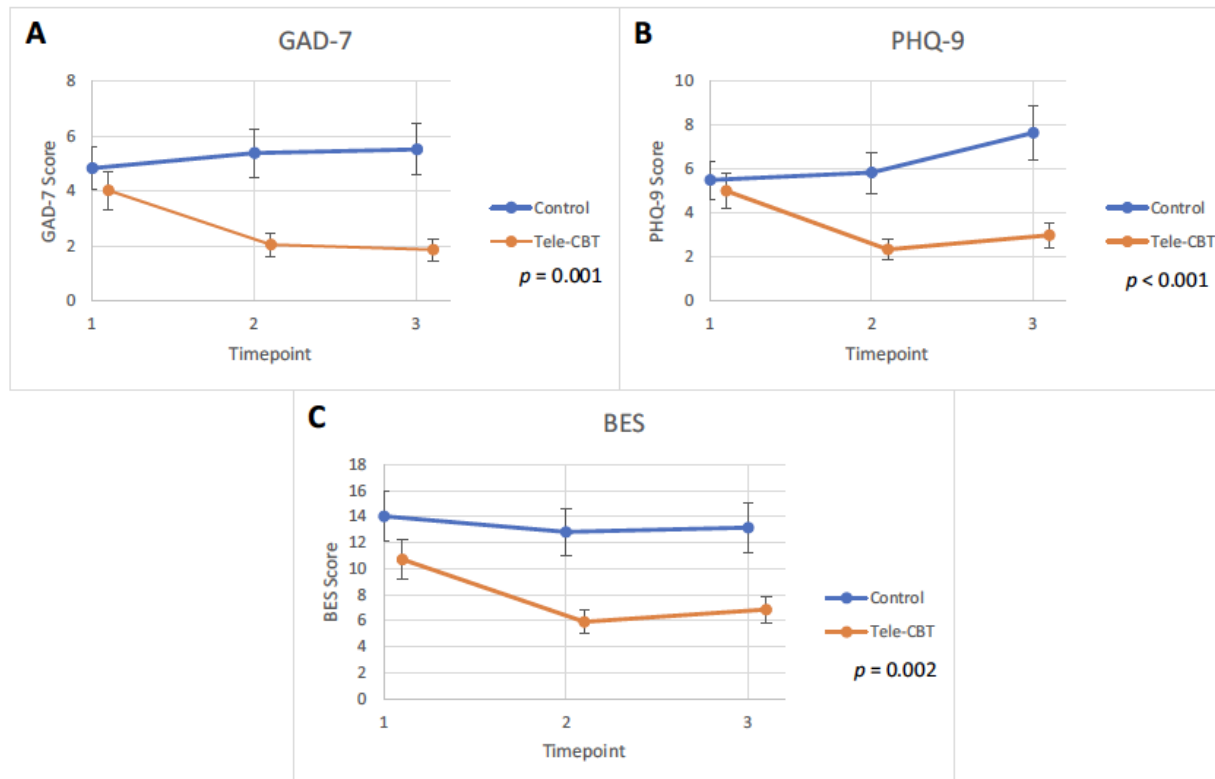
DETERMINING TIMING OF DELIVERY

- Retention rate: Pre-Surgery – 72% vs. Post-Surgery – 74%
- Qualitative study – patients preferred CBT interventions at 12-months post-surgery

DETERMINING PREDICTORS OF RESPONSE

- Patients most likely to respond to Tele-CBT had higher binge eating symptoms or had higher rurality

IMPACT OF TELE-CBT ON MENTAL HEALTH DISTRESS AND DISORDERED EATING AMONG BARIATRIC SURGERY PATIENTS DURING COVID-19: PRELIMINARY MULTI-SITE RCT



- 81 patients who were ~1-year post-MBS
- Randomized to Tele-CBT or standard bariatric centre team follow-up
- Tele-CBT – 7 x 1 hour sessions
- Followed until 18 months post-surgery
- 94% completed 1.25 y follow-up; 83% completed 1.5 y following
- 67% of patients reported worse mental health subjectively during COVID-19
- 54% reported challenges managing weight due to COVID-19

FUTURE IMPLICATIONS FOR PSYCHOSOCIAL INTERVENTIONS SUPPORTING BARIATRIC CARE

PSYCHOSOCIAL INTERVENTIONS TO SUPPORT BARIATRIC SURGERY PATIENTS POST COVID-19



Education and Self-Care Strategies

- Provide credible information on COVID-19 & validate fears/worries
- Reinforce sleep hygiene and review nutrition

Self-Management Tools

- Recommend stress-management strategies (e.g. relaxation techniques, meditation)
- Leverage mobile health tools, such as self-management apps

Expand Supports

- Consider virtual support groups or forums

Psychosocial Care

- Virtual psychological treatments (e.g. cognitive behavioral therapy, dialectical behaviour therapy)

DIGITAL EQUITY: IMPACT ON VIRTUAL CARE

Access to digital resources
(internet & device)

Limitations in living spaces &
individual privacy

Inability to address individuals'
disabilities

Limited culturally relevant modes
of communication

Socioeconomic instability



THE FUTURE OF E-HEALTH INTERVENTIONS FOR BARIATRIC SURGERY CARE

- Need for eHealth interventions to both:
 - Integrate into bariatric surgery care pathways
 - Personalize to individuals living with obesity to address equity and access issues
- Identify who responds best to eHealth interventions
- Advanced understanding of implementation factors to improve engagement and effect



SHAPING THE FUTURE OF VIRTUAL MENTAL HEALTH CARE

AI and Digital Mental Health Certificate Programs

Preparing the mental health care workforce to deliver the next phase of digital transformation.

PROGRAM LEVELS/TRACKS



PROGRAM STRUCTURE

Stackable programs/Stackable credentialing

Flexible and customizable, allowing learners to stack up learning modules/courses/programs to match their interests, skills, job functions and roles.

Fellowship program

Advanced certificate program

Certificate program

Micro credentialing learning series

Micro learning series

AI AND DIGITAL MENTAL HEALTH PROGRAMS

CORE FEATURES

- competency-based learning
- blended learning approach
- co-production model
- credit and non credit learning units/modules
- stackable programs/stackable credentialing

AUDIENCE

- Allied health professionals
- Health care practitioners (all disciplines)
- Health care/service leaders and decision-makers, including:
 - administrators
 - advanced practice clinical practice leaders and program managers
 - ethics and privacy advocates
 - digital program managers and digital champions
 - educators
 - leaders in academic institutions
 - policy-makers
 - project managers.

AI AND DIGITAL MENTAL HEALTH Micro learning series

LEARNER ENGAGEMENT

2,334 individuals completed this training series (as of Nov. 26, 2021)

camh

SUMMARY

- » COVID-19 has accelerated use of virtual mental/behavioural health interventions
- » Limited literature on virtual (eHealth) interventions to support bariatric surgery psychosocial care
- » To date, evidence mainly for behavioural/CBT and ACT interventions for eating psychopathology and to lesser degree depression and anxiety
- » Only one RCT for COVID-19 related disordered eating and mental health distress (Tele-CBT trial post-bariatric surgery)
- » Further evidence needed on long-term outcomes, implementation outcomes and issues related to digital equity

THANK YOU...QUESTIONS

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