

UNIVERSITY OF TORONTO FACULTY OF DENTISTRY



Sicklids

Background

departments.

outcomes².

pediatric dentistry remains limited.

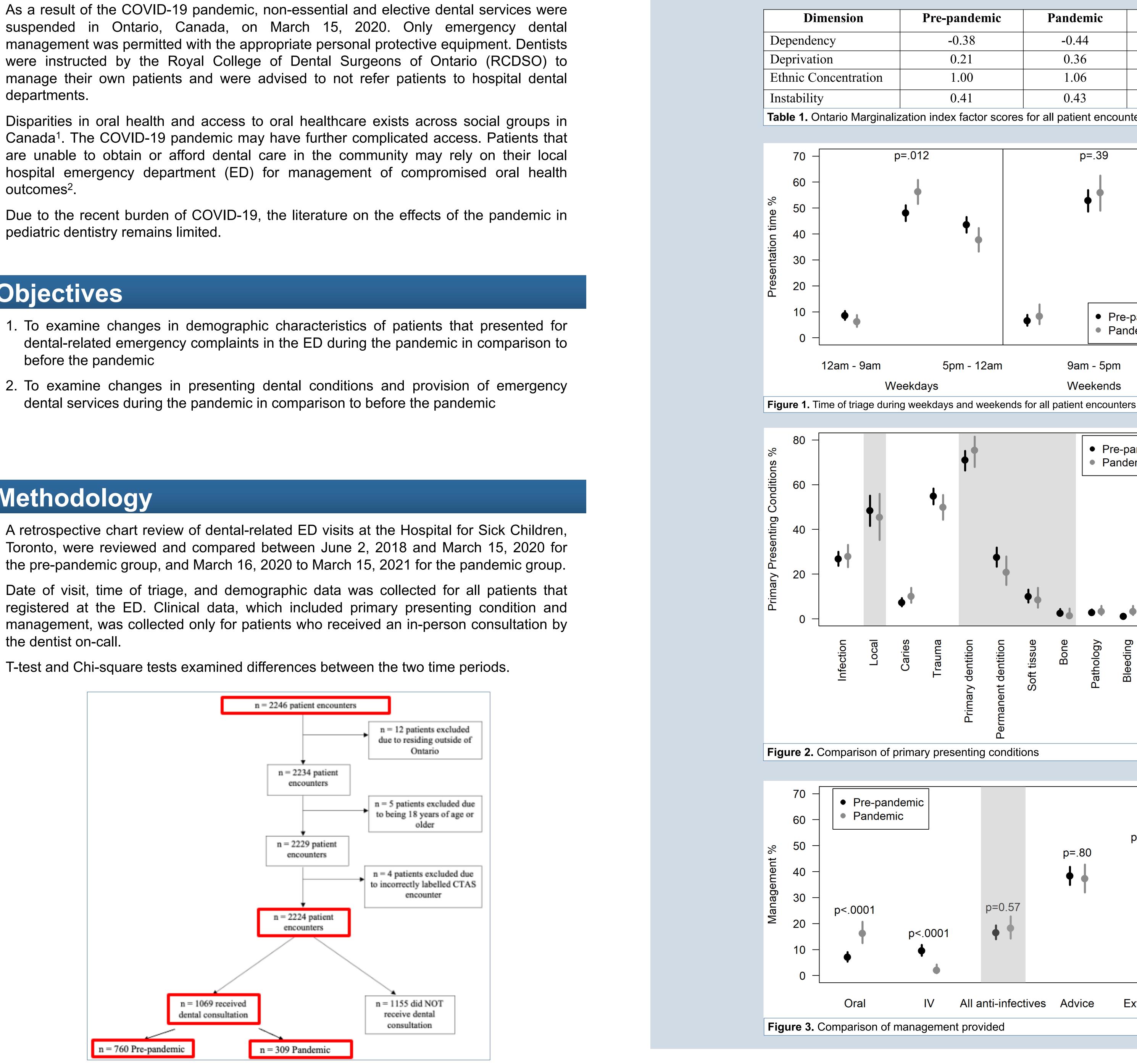
Objectives

- before the pandemic
- dental services during the pandemic in comparison to before the pandemic

Methodology

the dentist on-call.

T-test and Chi-square tests examined differences between the two time periods.



Emergency Dental Care in a Paediatric Hospital During COVID-19

Rabalski A1, Barrett E1,2, Principi T3, Haghighi P2, and Garisto G1,2 ¹Faculty of Dentistry, University of Toronto, ²Department of Dentistry, The Hospital for Sick Children, ³Division of Emergency Medicine, The Hospital for Sick Children

Results

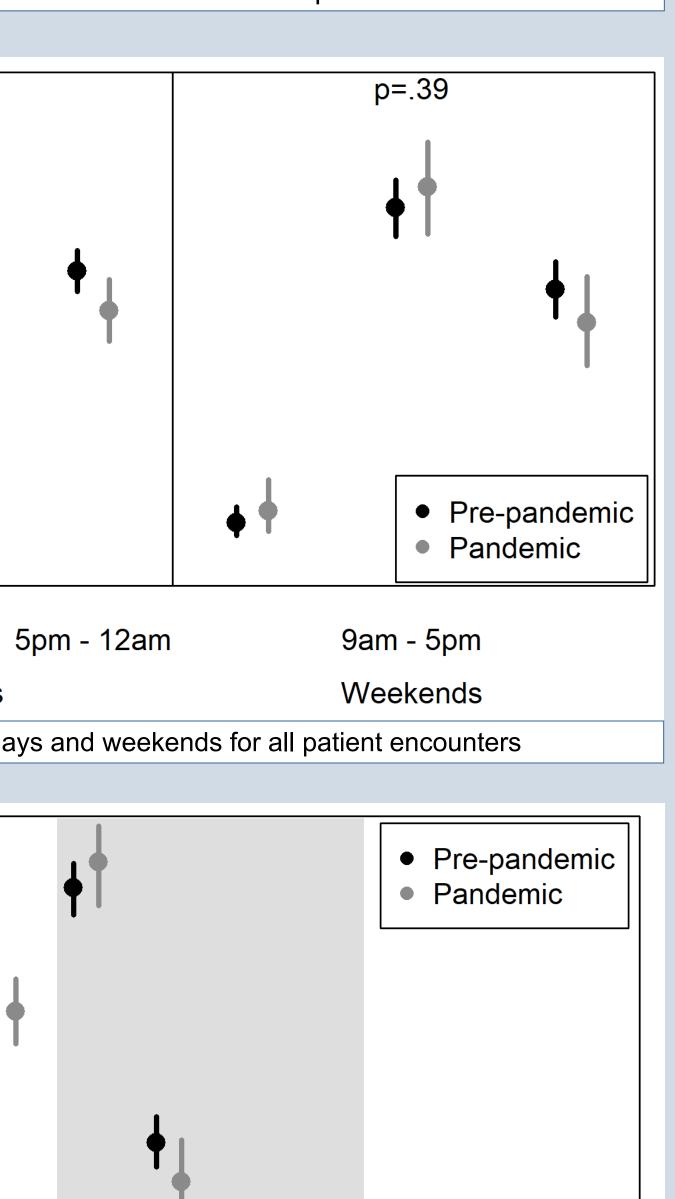
-0.38

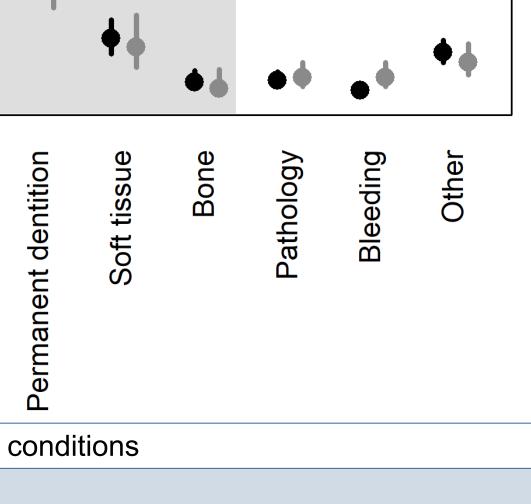
0.21

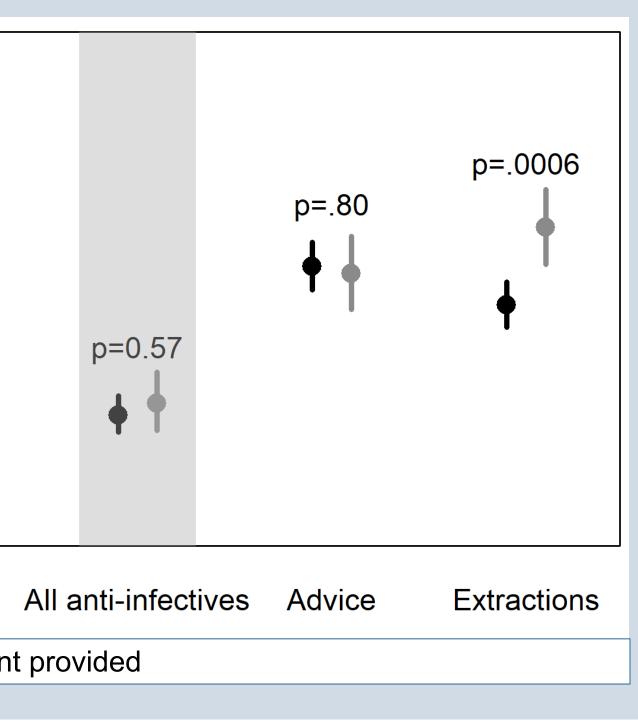
1.00

0.41

c	Pandemic	p-value
	-0.44	.15
	0.36	.019
	1.06	.23
	0.43	.71
cores for all patient encounters		







Discussion

The pandemic disproportionately affected those who are more marginalized as there was a significant increase in patients of lower socioeconomic status who visited the ED during the pandemic. Many individuals lost their jobs, which can include loss of income and/or dental insurance, resulting in the inability to afford the out-of-pocket expense to visit a dentist in the community^{3,4}.

During the pandemic, patients more commonly triaged between the hours of 9am to 5pm on weekdays. This is likely a reflection of parents working from home and children remote learning⁵. Also, parents may have been home if they were let go of their jobs.

Despite overall global reduction in ED visits during the pandemic, the type of primary presenting condition did not change for dental-related complaints. In contrast, medical emergencies at hospital EDs saw increases in high-acuity illness and late presentation of critical illness⁶.

This study demonstrated an increase in the prescription of oral anti-infectives. This could be a reflection of preserving hospital resources, as is evident by the significant decrease in IV antiinfective use in the emergency department. During the pandemic PPE supplies were limited and there were staff shortages.

Restrictions of aerosol-generating procedures were imposed by the RCDSO during the lockdown of the pandemic. A simple dental extraction is a procedure that creates less aerosols than standard handpieces, thereby reducing the possible risk of COVID-19 transmission in the ED setting^{7,8}. Further, during the lockdown there was uncertainty about the duration of restrictions put in place which may have led the dentist to provide more definitive treatment with extractions.

Clinical Significance

These findings should encourage dentists in the community, both paediatric and general, to triage and manage dental emergencies of their own patients. Therefore, decreasing the burden on local hospital EDs, as well as conserving the associated hospital resources that otherwise would be involved for each patient that visits the ED.

Most importantly, the findings of this study further highlight the pre-existing oral health disparities in a Canadian context. Policymakers and health planners can create better structured services to improve access to dental care.

References

- review. J Am Dent Assoc. 2014;145(8):817-28.

- 2021;37(8):427-34.
- Zhejiang Univ Sci B. 2020;21(5):361-8

Acknowledgements

Dr. Gabriella Garisto Dr. Edward Barrett Dr. Tania Principi Paniz Haghighi Dr. Annie Dupuis

Canadian Academy of Health Sciences. Improving Access to Oral Health Care for Vulnerable People Living in Canada. 2014.

2. Figueiredo R, Fournier K, Levin L. Emergency department visits for dental problems not associated with trauma in Alberta, Canada. Int Dent J. 2017;67(6):378-83.

Badri P, Saltaji H, Flores-Mir C, Amin M. Factors affecting children's adherence to regular dental attendance: a systematic

4. Promotion OAfHPa. Report on access to dental care and oral health inequalities in Ontario. 2012.

5. Canales-Romero D, Hachfeld A. Juggling School and Work From Home: Results From a Survey on German Families With School-Aged Children During the Early COVID-19 Lockdown. Front Psychol. 2021;12:734257

6. Finkelstein Y, Maguire B, Zemek R, Osmanlliu E, Kam AJ, Dixon A, et al. Effect of the COVID-19 Pandemic on Patient Volumes, Acuity, and Outcomes in Pediatric Emergency Departments: A Nationwide Study. Pediatr Emerg Care.

Gallagher JE, K C S, Johnson IG, Al-Yaseen W, Jones R, McGregor S, et al. A systematic review of contamination (aerosol, splatter and droplet generation) associated with oral surgery and its relevance to COVID-19. BDJ Open. 2020;6:25.

8. Ge ZY, Yang LM, Xia JJ, Fu XH, Zhang YZ. Possible aerosol transmission of COVID-19 and special precautions in dentistry. J