



KEYNOTES AND RESOURCES

Episode 74 – Interview with Dr. Rana Badewy: Impact of oral inflammation on immune & nutritional composition in human milk **December 9, 2022**

Dr. Rana Badewy, BDS, PhD, FRCDC

Dr. Rana Badewy is a dentist and a dental public health specialist. She completed her PhD in Dental Public Health from the Faculty of Dentistry, University of Toronto and is a Fellow of the Royal College of Dentists of Canada. Her research focuses on oral epidemiology, oral health promotion, and disease prevention, specifically within the area of maternal and fetal health. Her PhD project investigated the impact of maternal oral inflammation early postpartum on the nutritional and immunological components in breast milk. Through her research she aims to advocate for the integration of oral healthcare within primary healthcare settings given the significant link between oral and general health. She strives to translate her research into public health initiatives that aim to enhance the health and wellbeing of mothers and their infants.

Research

The impact of maternal oral inflammation on the neutrophil phenotypes and poly-unsaturated fatty acids composition in human milk.

Research team

Researcher	Affiliation(s)
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Background

The prospective cohort study¹ aimed to investigate the impact of maternal oral inflammation on human milk composition including neutrophil² counts and activation state, and fatty acid levels. The association between infant health status and human milk neutrophil counts and activation state, and fatty acid levels were also investigated.

Additional Resources

The association between maternal oral inflammation and the composition of breast milk:

A cohort study, Badewy, R. 2022, p 1-160

https://tspace.library.utoronto.ca/bitstream/1807/125062/1/Badewy_Rana_202211_PhD_thesis.pdf

¹ Refer to Episode 73 for information on prospective cohort studies.

² Refer to Episodes 44 & 45 for additional information on neutrophils.