

Blog Post

Home > News > **UConn Health Researchers Find a Simple Oral Rinse Can Inactivate the COVID-19**Virus



UConn Health Researchers Find a Simple Oral Rinse Can Inactivate the COVID-19 Virus

by yorkhillendo July 16, 2020

BLOG, NEWS

Faculty from UConn Health have proven that a simple method of rinsing with a diluted version of over-the-counter Povidone-Iodine (PVP-I) oral rinse can kill viruses like the SARS CoV-2 coronavirus and prevent transmission in as little as 15 seconds.



The COVID-19 pandemic has posed a severe threat to the safety of dental and medical professionals who operate in the oral and nasal cavities. Dr. Avinash Bidra, clinical associate professor of prosthodontics at the School of Dental Medicine, and Dr. Belachew Tessema, associate professor in

the division of otolaryngology at the UConn School of Medicine and ENT physician at ProHealth Physicians, and their team across the nation wanted to investigate a way to decontaminate the patient's oral and nasal cavities to protect and prevent transmission.

"We were not satisfied with the safety provided by the mouth masks and face shields," says Bidra. "Almost all procedures involve aerosol production, resulting in a higher risk for clinicians, assistants, and patients."

PVP-I solutions are typically sold over the counter at 10% concentration to be used as an antiseptic for wounds. The researchers tested three different diluted concentrations at 1.5%, 1%, and .5% at three different contact times of 15 seconds, 30 seconds, and 45 seconds. The researchers found that the lowest concentration of .5% and the lowest contact period of 15 seconds was enough to completely inactivate SARS CoV-2 in the laboratory.

Bidra and Tessema recommend using 9.5ml of water and 0.5ml of a commercially available 10% povidine-iodine antiseptic solution to create a 0.5% diluted solution. The dilution should be done immediately before rinsing and the rinsing should be for a minimum of 30 seconds. The only contraindication is for anyone is allergic to iodine, pregnancy or having thyroid problems.

The research was recently published in the American College of Prosthodontics Journal of Prosthodontics.

"This is a simple and inexpensive method to protect oneself when coming in close contact with people," says Bidra. "We believe this has immediate and tremendous dental public health impact for patients and for dental professionals, amidst the ongoing pandemic."

Tessema and the otolaryngology department at UConn have extensively researched the safety of PVP-I in the oral and nasal cavity, and are looking forward to the added protection it will offer for clinicians in addition to the typical personal protective equipment (PPE).

"The safety of povidone-iodine in the sinonasal and oral cavity has been well documented and we have shown that the SARS CoV-2 virus can be rapidly inactivated by a topical application," says Tessema. "Studies have shown that the nasal and oropharyngeal cells are reservoirs for SARS-CoV2 infection. We believe that nasal and oral decontamination with PVP-I may play an adjunctive role in mitigating viral transmission beyond PPE."

The researchers are also optimistic that this method can benefit those engaged in high risk activities outside of a dental or otolaryngologic setting.

"Anyone engaging in risky activities like barbers, hair dressers, or anyone coming too close to another person, may benefit from this simple method," said Bidra.

Author: Courtney Chandler, UConn Health

Article Originally Appeared at: https://today.uconn.edu/

Tags In

COVID-19	dental	dentist	root canal	
≪ SHARE				
← 154 / 17	₇₈			

Related Posts



BLOG

Teeth Pain: When you Need a Root Canal

BLOG

What Are Crowns?





Search here...

Q

Share Our Blog Posts on Your Favorite Network

Recent Posts

- **Endodontist Answers 8 Questions About Root Canal Treatment**
- Apicoectomy: What to Know Before and After
- Innovations in Root Canal Treatment in the Modern Era
- Bear with a sore tooth gets a root canal
- When and What to Eat After a Root Canal

Blog Archive

2021

2020

2019

2018

2017

2016



About Us

York Hill Endodontics is the longest established endodontic specialty practice in Canada. We offer root canal therapy and microsurgery in a comfortable, modern, urban setting. We always use the latest in endodontic techniques and technology. We invite you to explore our website and learn more about endodontics, as well as about ourselves – Dr. George Sas and Dr. Geoffrey Sas – the endodontic specialists at York Hill Endodontics.

Services

- > Root Canal Therapy
- > Endodontic Re-treatment
- > Microsurgery
- > Cracked Teeth
- > Instructions

Privacy Policy | Site Map |

Twitter

Tweets by yorkhillendo

Instagram

yorkhillendodontics

We offer root canal therapy and microsurgery in a modern urban setting.







Copyright © 2019 York Hill Endodontics - Site designed constructed and maintained by Sorted Media Inc. - www.sorted-media.com









