

## Sprovieri, John Councillor

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**From:** Sprovieri, John Councillor  
**Sent:** 2017/11/07 9:43 AM  
**To:** Sprovieri, John Councillor  
**Subject:** FW: FW: WATER FLUORIDATION NOT EFFECTIVE.

CDC:

### *Biologic Mechanism*

*Fluoride's caries-preventive properties initially were attributed to changes in enamel during tooth development because of the association between fluoride and cosmetic changes in enamel and a belief that fluoride incorporated into enamel during tooth development would result in a more acid-resistant mineral. However, laboratory and epidemiologic research suggests that fluoride prevents dental caries predominately after eruption of the tooth into the mouth, and its actions primarily are topical for both adults and children.*

National Research Council (2006):

*"the major anticaries benefit of fluoride is topical and not systemic."*

FAN has a long list of quotes on this topic including one prepared for the Ontario Ministry of Health and Long Term Care (see in bold below):

**"it is widely recognized that the mechanism of action of F for caries control occurs essentially through its topical contact with the teeth. In other words, it is not necessary to ingest F to have F protection against caries."**

**SOURCE: Charone S, et al. (2012). Lack of a significant relationship between toenail fluoride concentrations and caries prevalence. Fluoride 45:133-37.**

**"Fluoride is most effective when used topically, after the teeth have erupted."**

**SOURCE: Cheng KK, et al. (2007). Adding fluoride to water supplies. British Medical Journal 335(7622):699-702.**

**"it is now accepted that systemic fluoride plays a limited role in caries prevention."**

**SOURCE: Pizzo G, Piscopo MR, Pizzo I, Giuliana G. (2007). Community water fluoridation and caries prevention: a critical review. Clinical Oral Investigations 11(3):189-93.**

**"the major anticaries benefit of fluoride is topical and not systemic."**

**SOURCE: National Research Council. (2006). Fluoride in Drinking Water: A Scientific Review of EPA's Standards. National Academies Press, Washington D.C. p 16.**

## Sprovieri, John Councillor

**From:** Carole Clinch [caclinch@gmail.com]  
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**Subject:** Topical Fluoride is USELESS - Journal of Dental Research

Nov 7, 2011

Dear Peel Council

The CDC's often quoted by-line that fluoridation is one of the "10 great public-health achievements," comes from a paper which never peer-reviewed, and which was written by 2 people who are not researchers; Scott Tomar (a dentist) and Susan Griffin (an economist). A peer-reviewed paper in the scientific journal *Nature* discusses why this ecological fallacy is scientifically untenable:

[http://www.newmediaexplorer.org/chris/Clinch\\_2010\\_Diesendorf-Mystery\\_Declining\\_Tooth\\_Decay.pdf](http://www.newmediaexplorer.org/chris/Clinch_2010_Diesendorf-Mystery_Declining_Tooth_Decay.pdf)

**Any claim that swallowing fluoride has any effect on cavities contradicts other statements by the U.S. CDC.**

**According to this quote by the U.S. Centers for Disease Control and Prevention, swallowing fluoride via fluoridated drinking water has no significant effect on cavities:**

"Its actions primarily are topical for both adults and children." Source: *US Centers for Disease Control and Prevention MMWR Weekly Report 1999;48:933-40.*

**According to this quote by the U.S. Centers for Disease Control and Prevention, fluoridated water produces salivary fluoride levels which are simply too low to have any "topical" effect on caries:**

"Saliva is a major carrier of topical fluoride. The concentration of fluoride in ductal saliva, as it is secreted from salivary glands, is low...approximately 0.016 parts per million in areas where drinking water is fluoridated and 0.006ppm in non-fluoridated areas. This concentration of fluoride is not likely to affect cariogenic activity." Source: *U.S. Centers for Disease Control and Prevention, August 17, 2001. Recommendations for using fluoride to prevent and control dental caries in the United States. Fluoride Recommendations Work group. MMWR 50 (RR14); 1-42.*

It has been argued that fluoride applied directly on the tooth surface, using very high concentrations, may be effective in the prevention or treatment of cavities. **BUT...** 3 recent dental research papers provide troubling evidence that fluoride varnish, using very high concentrations (22,600 ppm) is **USELESS**.

**1. Milsom KM, Blinkhorn AS, Walsh T, Worthington HV, Kearney-Mitchell P, Whitehead H, Tickle M. A Cluster-randomized Controlled Trial: Fluoride Varnish in School Children. J Dent Res. 2011 Nov;90(11):1306-11.**



JULY 24, 2017



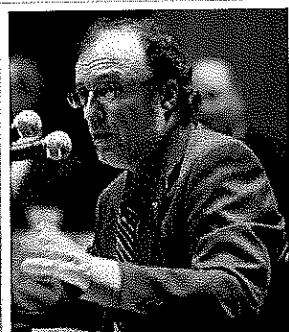
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## Does water fluoridation really save dental treatment dollars?

JANUARY 1, 2012 BY COF-COF

Last Updated - July 2015



Canada's Chief Dental Officer of Health  
Dr. Peter Cooney

Canadian research shows that a lifetime of drinking fluoridated water is not effective at reducing cavities/dental caries rates.

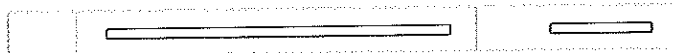
Read even more telling Canadian water fluoridation research here... Health Canada's Chief Dental Officer (Dr. Peter Cooney) has conceded that water fluoridation reduces cavity rates by less than half a cavity per child.

Have a close listen to this short but revealing audio clip below:

CLICK ON PLAY BUTTON BELOW

[[tca\_box]]

**\* LISTEN:** Ontario Dental Association Fluoridation Information Night In Waterloo, Ontario 21-Oct-2010  
Dr. Cooney's response to fluoridation's less than half a cavity reduction per child/adolescent/permanent teeth.



[[tca\_box]]

**\* Yet, Dr. Cooney still continues to claim every \$1 spent on water fluoridation saves \$38 in dental treatment related costs. ASK HIM TO SHOW YOU THE MATH.**

IF Cooney is correct, then just \$1 spent per person per year to fluoridate would cost \$75 for a person living to age seventy-five (i.e. 75 years x \$1 per year).

IF Conney is correct in claiming \$1 spent on water fluoridation saves \$38 in dental treatment related costs, then this individual's \$75 lifetime cost should save a whopping \$2,850.00 in dental treatment related costs (i.e. 75 years x \$38 dental savings per year).

**\* BUT, Cooney conceded** (in the Audio Clip above) that water fluoridation reduces cavity rates by less than half a cavity per child / adolescent / permanent teeth.

Moreover, well conducted reliable Canadian research shows that a lifetime of drinking fluoridated water is not effective at reducing cavities.

Since a typical dental cavity filling costs \$150 or less (according to the Ontario Dental Association 2015 fee guide), and assuming a lifetime of water fluoridation might save one whole cavity per person per lifetime, Cooney's math simply doesn't add up.

This 75 year old individual's \$75 lifetime cost towards water fluoridation, ends up saving only \$150 for one dental filling, and not the mythical \$2,850.00 being touted about.

\$1 spent per year on lifetime fluoridation may save only \$2.00/year (i.e. \$150 ÷ 75 years) ... and the Province and Fed do not pay for this useless water fluoridation program, which they promote so heavily. You pay for it through municipal taxes being wasted on water fluoridation.

and... WHAT ABOUT ALL THE OTHER COSTS RELATED TO MUNICIPAL WATER FLUORIDATION?

Beyond the chemical cost to fluoridating, there are training, handling, monitoring, management, repair, maintenance, infrastructure, and equipment costs directly related to keeping water fluoridation up and flowing.

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January 2012

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# Dr. Dick Ito's Study of Fluoridated Brampton vs Non-Fluoridated Caledon

Brampton

