

# Northern Ontario Dental Professionals' Perceptions of Silver Diamine Fluoride

Fabio Arriola-Pacheco<sup>1</sup>, Kamila Sihuay-Torres<sup>1</sup>, Emily Pynn<sup>2</sup>, Frank Mauro<sup>2</sup>, Bruce Pynn<sup>1,2</sup>, Herenia P. Lawrence<sup>1</sup>

<sup>1</sup>University of Toronto, <sup>2</sup>Northern Ontario School of Medicine

## **Purpose**

**Aim:** Analyze the awareness, acceptability, general and economic perception, potential patient acceptance, and educational workshop impact of silver diamine fluoride (SDF) for early childhood caries (ECC) management in pediatric patients among dental professionals (DPs) in Northern Ontario, Canada.

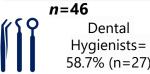
### Methods

**Sample**: Dental Hygienists **(DH)** and Dentists **(DENT)** that attended a Minimally Invasive Dentistry Workshop in Thunder Bay, Canada.

**Questionnaire**: Demographics, SDF general and economic perceptions, acceptability and use, and the workshop's influence were collected.

**Analysis**: Descriptive and Chi-squared statistics were conducted with significance set at **P< .05\***.

## Results



Dentists= 41.3% (n=19)



Figure 1: Regional distribution of communities participants reported serving.



## Results

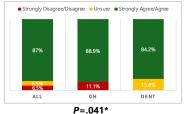
Table 1. Characteristics of Study Participants							
		All	DH	DENT	<i>P</i> -value		
Age	Mean	47.8	47.3	48.5	n/a		
	(SD)	(2.03)	(2.48)	(3.45)			
Sex	Male	26.1%	0%	63.2%	<.001*		
	Female	73.9%	100.0%	36.8%			
Years of	1-5	8.7%	7.4%	10.5%	.257		
practice	6-10	15.2%	7.4%	26.3%			
	11-15	8.7%	11.1%	5.3%			
	16-20	13%	18.5%	5.3%			
	21-30	19.6%	25.9%	10.5%			
	31 or	34.8%	29.7%	42.1%			
	more						
Proportion of	0%	11.1%	11.1%	11.1%	.492		
Pediatric	25%	60%	51.9%	72.2%			
Patients	50%	17.8%	25.9%	5.6%			
Served (≤ 12	75%	4.4%	3.7%	5.6%			
years old)	100%	6.7%	7.4%	5.6%			

Table 2. Awareness and Use of SDF								
		All	DH	DENT	<i>P</i> -value			
Awareness of SDF	Yes	100%	100%	100%	n/a			
use for pediatric	No	0%	0%	0%				
patients before the workshop				A				
Education on SDF	Yes	42.5%	45.5%	38.9%	.676			
use for pediatric	No	57.5%	54.5%	61.1%				
patients as part of professional training		6		(10/				
Utilization of SDF in	Yes	43.5%	37%	52.6%	.293			
clinical practice	No	56.5%	63%	47.4%				

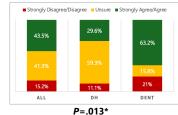
Research supported by: Canadian Institutes of Health Research (CIHR), Institutes of Indigenous Peoples' Health (IIPH), the Nishtam Niwiipitan (My First Teeth) Study led by Dr. Herenia P. Lawrence (CIHR-IIPH Grant No.: PI1-151324). Personal student funding was provided by The National Council of Science and Technology of Mexico (CONACYT) (CVU: 930020)

#### Results

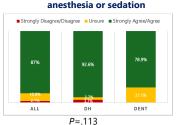




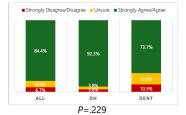
Parents of my patients would <u>not</u> accept SDF staining on anterior temporary teeth



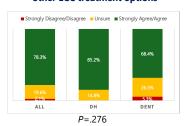
SDF could potentially lower the number of pediatric patients requiring general



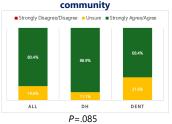
The workshop made me more likely to choose SDF treatment for pediatric patients



SDF is more "cost-effective" than other ECC treatment options



SDF cost is more reasonable when compared to alternative treatment options in my



#### Conclusions

The results suggest that even though DPs surveyed hold some different opinions on SDF, there is an avenue for the uptake of the material, especially with an accompanying educative component.