

Item # 7.1



Hamilton

## Oral Health Report 2013

# Introduction

- Oral Health in Hamilton compared to Ontario and Canadian data
- Social Determinants of Health and Oral Health
- Public Health Services that support good oral health and access to dental care
- Results from mandated programs that provide data for future program planning and delivery of services



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# Importance of Good Oral Health

## Poor oral health can cause:

- Tooth loss
- Gum disease
- Cancers of the mouth, tongue, throat, soft palate
- Mouth & jaw pain
- Soft tissue injuries
- Mouth infections

## Poor oral health is linked to:

- In the general population
  - Heart disease & stroke
  - Diabetes
  - Poor nutrition
- In seniors
  - Respiratory infections
  - Rheumatoid arthritis
  - Osteoporosis
  - Alzheimer's
- In pregnant women
  - Premature births
  - Babies born at a low birth weight



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# Maintaining Good Oral Health

- Drinking water treated with fluoride
- Using dental products with fluoride
- Brushing at least two times a day
- Flossing everyday
- Having an oral health check-up by a dental professional every 6-9 months



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# Social Determinants of Health

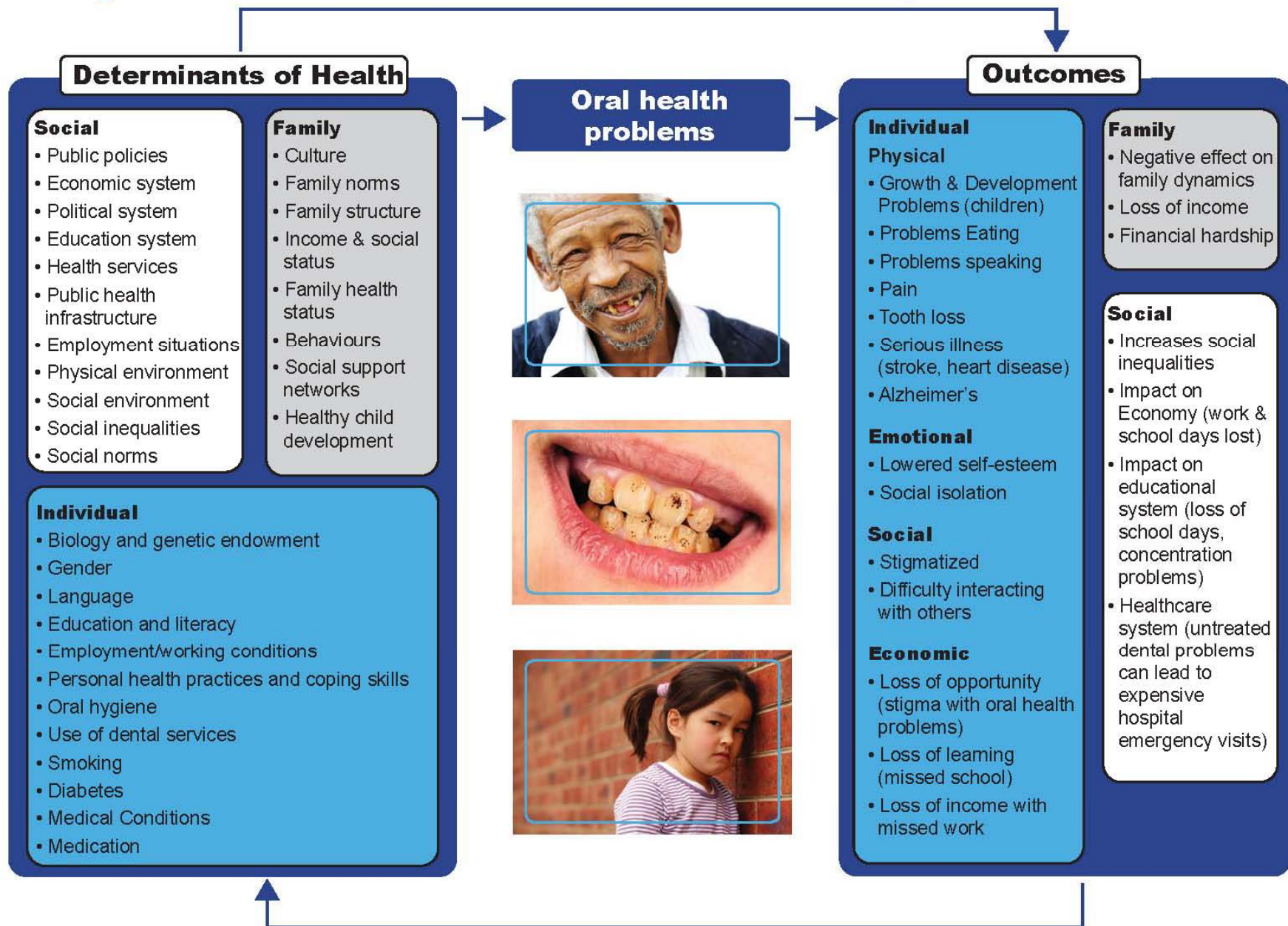
The World Health Organization (WHO) defines the *social determinants of health* as...

“The conditions in which people are born, grow, live, work and age, including the health system. These circumstances are shaped by the distribution of money, power, and resources at global, national, and local levels. The social determinants of health are mostly responsible for health inequities - the unfair and avoidable differences in health status seen within and between countries” (40).



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# Figure 1: Determinants & outcomes of poor oral health



# Social Determinants of Health and Oral Health

- Less than half (48.4%) of Hamiltonians with low incomes have dental insurance, compared to 75.8% in the middle income group and 79.9% of the high income group
- Hamilton residents with high incomes reported very good levels of oral health almost one and half times more often than those with low incomes (42.0% vs. 28.7%)



*Source: Canadian Community Health Survey (CCHS), 2009/10, Share File, Ontario Ministry of Health and Long-term Care*

# Social Determinants of Health and Oral Health



- Children from low-income families have 2.5 times more decay than children from high-income families
- Children from low-income families are less likely to receive comprehensive oral health care
- These children are also more likely to have critical oral health problems that require emergency care than children from middle to high income families



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# Social Determinants of Health and Oral Health



- Only 39% of Hamilton seniors (65+) have dental insurance coverage
- Only 55% of Hamilton seniors had a dental visit in the previous 12 months, while 36% stated they usually only visit a dentist for emergencies



*Source: Canadian Community Health Survey (CCHS), 2009/10, Share File, Ontario Ministry of Health and Long-term Care*

# Ontario's Dental Programs and Services for Children and Youth Under 18

- Children in Need of Treatment (CINOT)
- Children in Need of Treatment Expansion
- Healthy Smiles Ontario (HSO)
- Ontario Works (OW)
- Ontario Disability Support Program (ODSP)
- Assistance for Children with Severe disabilities (ACSD)
- Cleft Lip and Palate/Craniofacial Dental Program
- Non-Insured Health Benefits (NIHB)



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*Source: Ontario Benefits Directory*

# City of Hamilton Public Health Services that Support Oral Health

- Administer provincially mandated oral health programs (CINOT, CINOT Expansion, Healthy Smiles)
- Public Health Services Dental Clinic
- Dental Health Bus
- Community outreach activities
- Monitor water fluoridation



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# New Dental Health Bus



# Ontario Public Health Standards

## *Oral Health Assessment and Surveillance Protocol*

Risk rating		Grades screened
Low Risk	= 9.5% or less	JK/SK and grade 2
Medium Risk	= 9.51% - 13.99%	JK/SK, grades 2 and 8
High Risk	= 14.00% or more	JK/SK grades 2, 4, 6 and 8



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# Ontario Public Health Standards

## *Children in Need of Treatment Protocol*

- 1,587 Hamilton children were identified with urgent dental treatment needs (according to the protocol requirements) during school screening, and required case management



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## Map 2: Schools by dental risk rating in Hamilton and percentage of children under age 6 living below the Low Income Cut-Off (LICO) by Census Tract Areas

### Low Income Cut-Off after-tax using 2005 income

Low Income Cut-Off (LICO) after tax is a family income threshold that likely devotes a larger portion of its income to food, shelter and clothing as compared to an average family. Factors such as family size and differences in cost of living in the area of residence also contribute to the Statistics Canada method of measure.

### School year 2011-2012 school dental risk rating

School rating of junior kindergarten, senior kindergarten and grade two students with dental treatment needs.

School dental risk rating	
■	<b>High</b> (17 schools)
▲	<b>Medium</b> (21 schools)
●	<b>Low</b> (114 schools)

### LEGEND

Percentage of children under 6 years of age living below the Low Income Cut-Off (LICO) as determined by Statistics Canada by Census Tract Areas.<sup>1</sup>

- 0 to 20%
- >20 to 40%
- >40 to 60%
- >60 to 80%
- Highway
- Escarpment

Statistics Canada Family Data compiled in 2007, using 20% sample from 2006 census long form and using income from 2005. Suppression of data from Statistics Canada will occur in some areas where number of children in sample are below minimum level and pose a risk of identifying a child/family.

Dental Risk Rate = number of children with 2 or more decayed teeth / total number screened in JK, SK, and grade 2 students

Percentage = number of children under 6 living below LICO / total population of children under 6.

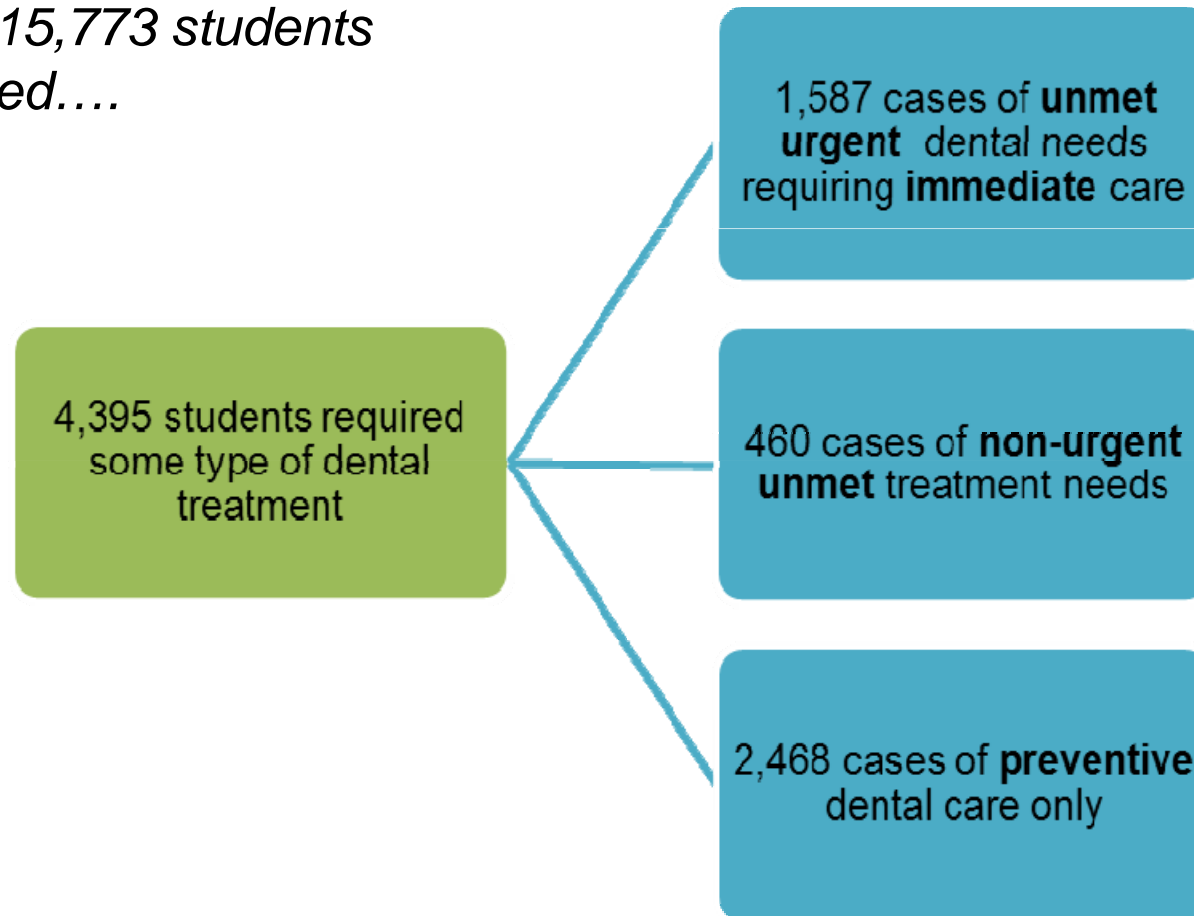
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0 2 4 6 8  
Kilometers

# 2011-2012 Oral Health Assessment (dental screening) results

*Of the 15,773 students  
screened....*

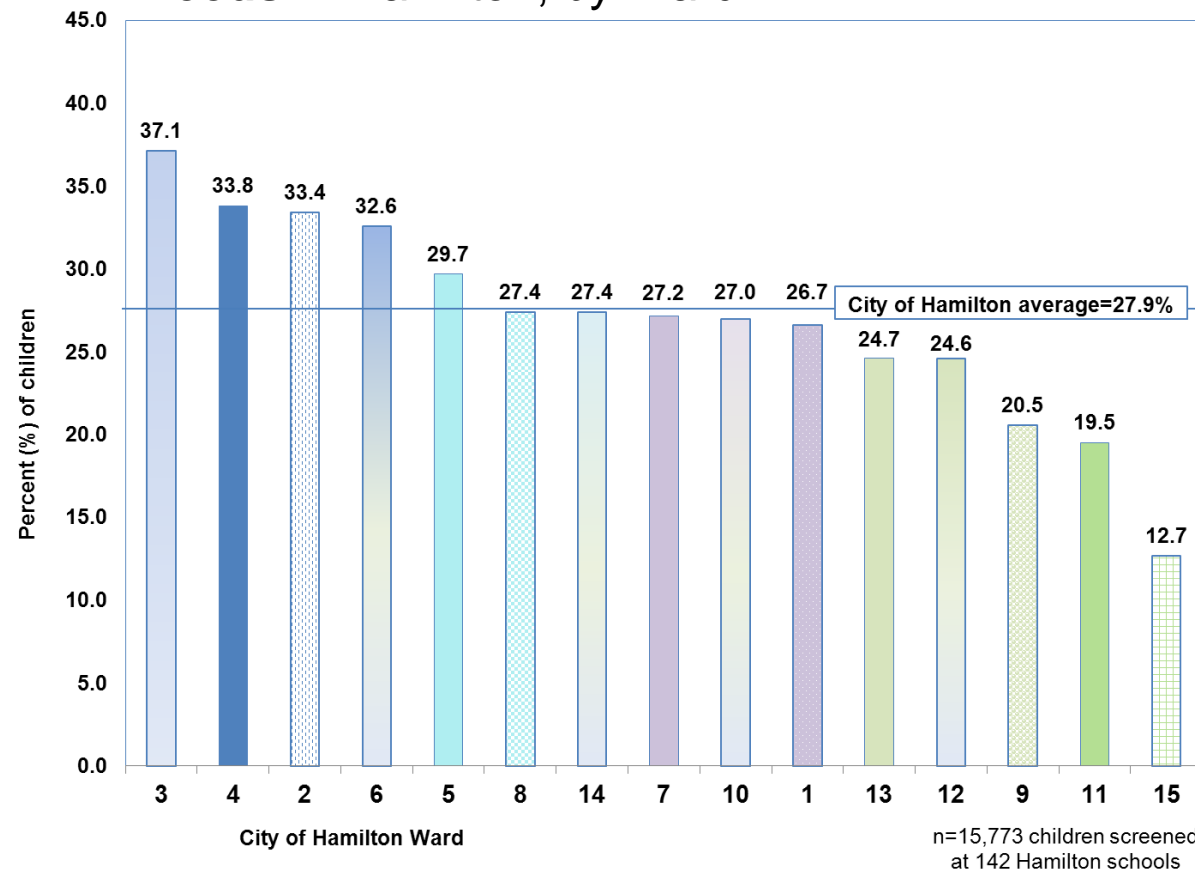




# Ontario Public Health Standards

## *Preventive Oral Health Services Protocol*

JK, SK & Grade 2 students with **preventive dental needs** in Hamilton, by Ward



Source: Community Dental Program, City of Hamilton Public Health Services (2011-2012 school year)

# Map 3: Healthy Smiles Ontario (HSO) participant locations in Hamilton, 2010-2012

## LEGEND

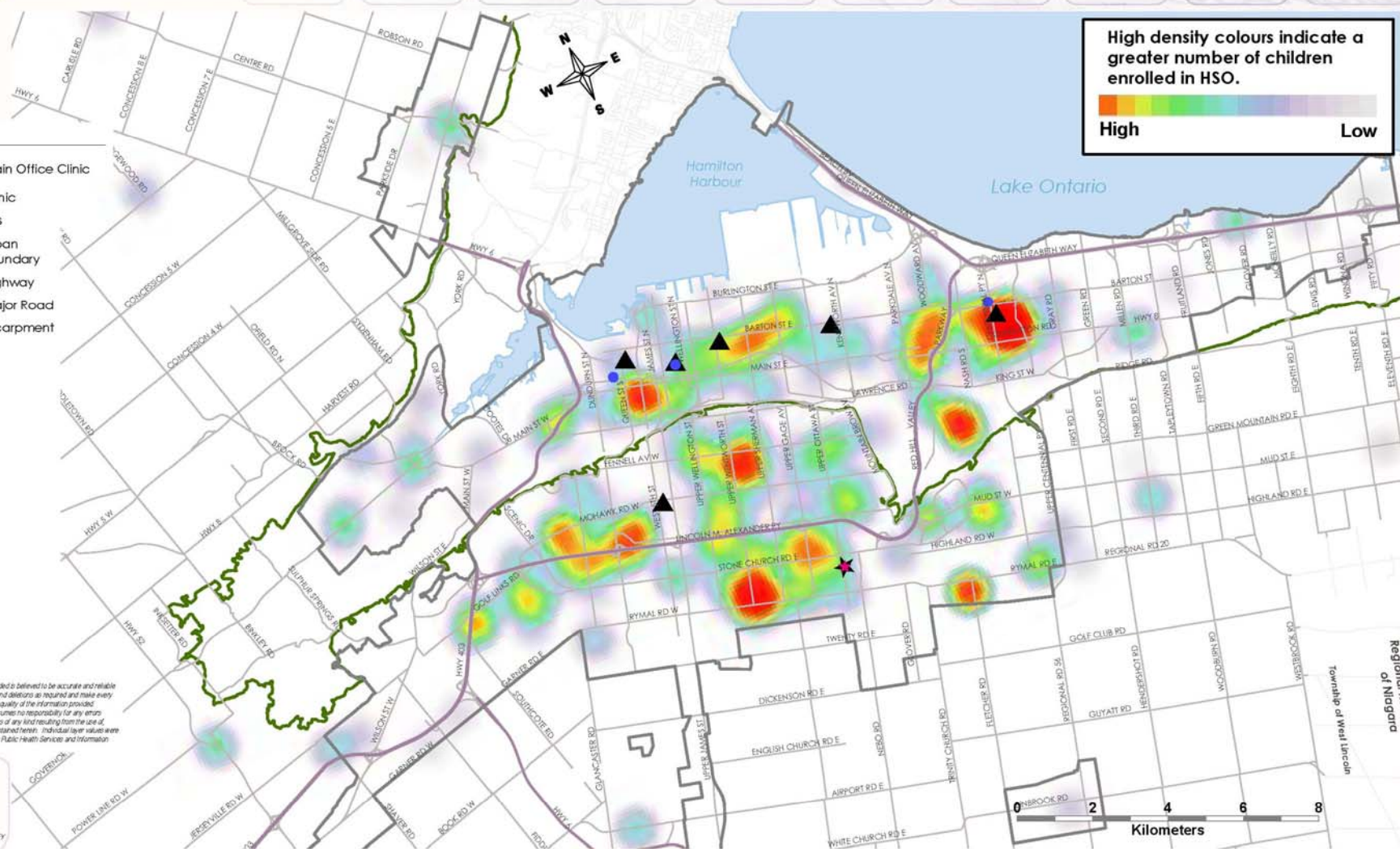
-  Main Office Clinic
-  Clinic
-  Bus
-  Urban Boundary
-  Highway
-  Major Road
-  Escarpment

High density colours indicate a greater number of children enrolled in HSO.

High Low

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Region of Niagara  
Township of Well Lincoln

# Oral Health Promotion and Education

Oral health promotion is a requirement of OPHS and HSO, of which raising the awareness of the importance of oral health is one component.

- In 2012, the dental team participated in health fairs, displays, and community events
- In 2012, the dental team provided over 100 presentations in the community
- Learning resources are developed and maintained for children and their families



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# Conclusion

- Raises awareness of the importance of good oral health and its effects on overall health
- Inequities in oral health persist and PHS strives to address these needs in the City of Hamilton
- Provides evidence to guide future program planning and delivery of services



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