

SUDBURY ONTARIO CANADA



Future Practice of Medical Students at the Northern Ontario School of Medicine – Part 2: Intended Practice Location

Authors: M.G. Delmege, P.E.Timony, J.C. Hogenbirk, on behalf of the Research Team Saturday, June 11th, 2011





What is the NOSM TS?

- A study on the effects of northern/rural medical education on medical students and graduates
- A multi-year, multi-method (survey and interview) longitudinal study
- The study is approved by the Research Ethics Boards at both Laurentian and Lakehead Universities
- CRaNHR is an independent research centre with no affiliation with NOSM





Operational Definitions

Northern Ontario = LHIN 13 & 14



- Small Community = a community with a population of 10 000 or less
- Inclination = response on a 5 point Likert scale to a given geographic location or community size

	Strongly inclined to AVOID	Moderately inclined to AVOID	Neutral	Moderately inclined to SELECT	Strongly inclined to SELECT
Ontario – Northeastern					



Northern Ontario Inclination

	N=120		
	Entry	Exit	
Northern Ont. Exclusive	28% 1	4 16%	
Northern Ont. & Other	67%	74%	
Elsewhere	5%	10%	

- This change is significant (Bhapkar chi-squared p < 0.01)
 - Suggests that there are more students changing:
 - a) From Northern Ont. exclusive to Northern Ont. & other (22) vs. the opposite direction (8)
 - b) From Northern Ont. & other to Elsewhere (9) vs. the opposite direction (4)



Demographics in relation to Northern Ontario Inclination

N=109	Pearson Chi Squared		
	Entry	Exit	
Gender	p=0.78	p=0.04	p=0.16
Language	p=0.44	p=0.13	p=0.12
Marital Status	p=0.70	p=0.15	p=0.49

· Gender

	Male	Female
Northern Ont. Exclusive	15%	85%
Northern Ont. & Other	41%	59%

Pearson Chi Squared = 4.434, p=0.04



Demographics in relation to Northern Ontario Inclination

N=109	t-test		ANOVA
	Entry	Exit	
Age at Exit	p=0.39	p=0.02	p=0.10
Northern Background	p=0.01	p=0.54	p=0.06
Rural Background	p=0.72	p=0.14	p=0.13

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Northern Ont. Exclusively	N.Ont E ∄௹ ∤ 6 ∕e	N.Ont. & Other	3\5\nt. & Other
Mentherne Ont. & Other 3.0	³³ 3 5 .6	30.6	6.5 30.0

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Small Community Inclination (pop < 10 000)

	N=	120
	Entry	Exit
Small Community	60%	43%
Larger Community	40%	57%

- This change is significant (McNemar p<0.001)
 - 30 individuals who were inclined to practice in a small community at Entry were no longer inclined to practice in such a location at Exit vs. 9 who moved in the opposite direction.



Demographics in relation to Small Community Inclination

N=120	Pearson Chi Squared		
	Entry	Exit	
Gender	p=0.77	p=0.70	p=0.84
Language	p=0.05	p=0.01	p=0.05
Marital Status	p=0.11	p=0.001	p=0.01

· Mangitials Status

	Stayed	Changed to	Changed to	BSingle
Small Community	Small	Small%	Larger	37%⊾arger
La Egagti 6dmmunity	62 %	6 739 %	5 0%	67%28%

Pearson Chi Squared = 6052753, pp=000001



Demographics in relation to Small Community Inclination

N=120	t-test		ANOVA
	Entry	Exit	
Age at Exit	p=0.01	p=0.002	p=0.05
Northern Background	p=0.51	p=0.22	p=0.32
Rural Background	p=0.07	p<0.001	p=0.001

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Small Community Sm	all Sm al l	1 Larger	8.1Larger
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Survey respondents

109

Northern Ontario

11

Elsewhere

Small Community
Married, older
Small Community

Larger Community
Single Openinger
Lafte Octobro Anguage

40

Family Medicine specialty

7

Royal College specialties

28

Family Medicine specialty

34

Royal College specialties



Acknowledgements

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- Cooperation of NOSM



SUDBURY ONTARIO

CANADA



Thank-you

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Demographics in relation to Elsewhere Inclination n=11



- · Gender = more likely to be female
- Language = no difference
- · Marital Status = more likely to be single
- Age = no difference
- Northern Background = lived slightly fewer years in Northern Ontario
- Rural Background = spent slightly more years in rural area