



Impact of the Social Determinants of Health on the Health Care System







Overview

- Who are we?
- What does the data tell us?
- How do we keep our communities healthy?



Ontario Health: Connecting Care

Cancer Care Ontario

Trillium Gift of Life Network

eHealth Ontario

OH MANDATE

To better coordinate and connect Ontario's health care system, to make it more efficient and support the delivery of the best possible patient-centred care.

Connecting Care Act, 2019

Ontario Network



Integrated Networks

HealthForceOntario

CorHealth

Ontario

Ontario Health Teams

Health **Shared Services** Ontario

Health Quality Ontario



Telemedicine

Local Health

The Path Forward: Integrated Care

Primary Care



Hospital Services



Mental Health & Addictions Services



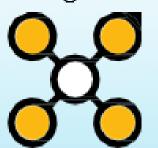
Long-Term Care



Home & Community Care



Social Service Agencies/Housin



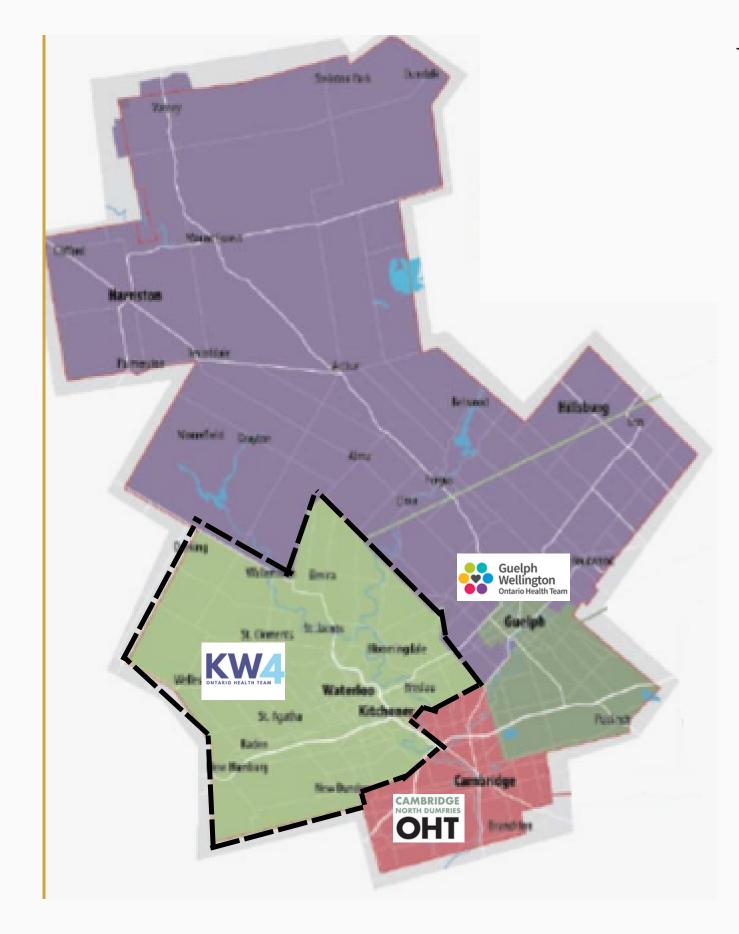
ONTARIO HEALTH TEAMS



KW4 Ontario Health Team

A community where everyone thrives and no one is left behind





Who we are Territory Coverage

The map highlights the KW4 Ontario Health Team (OHT) coverage area including 2/3 cities part of the Waterloo Region. KW4 represents Kitchener, Waterloo, and the Townships of Wellesley, Wilmot and Woolwich. Neighbouring OHTs include Cambridge North Dumfries and Guelph Wellington.

41 Partners

The current partnered organizations (and growing) include:

- Hospital
- Home and Community Care (SPO & HCCSS)
- Mental Health and Addiction
- Community Health Centre
- Long-Term Care Home
- Nurse Practitioner Led Clinic
- Primary Care (FHT)

Cross-Industries Collaboration

Having varying industries vested in a common health care focus, collaboration, and support across the different industries including education, technology, healthcare, grassroots, etc.



Our KW₄ OHT Community



TOTAL POPULATION (2016) 766,027

> KW4 395,019

Kitchener 233,222, Waterloo 104,986, Wilmot 20,545, Wellesley 11, 260, Woolwich 25,006



% RURAL AND SMALL TOWN NOT **BORDERING URBAN AREAS** 7.3%

KW4

2.0%



% WHO ARE VISIBLE MINORITIES 16.9%

> KW4 20.5%

Kitchener 21.5%, Waterloo 26.0%, Wilmot 3.4%, Wellesley 2.6%, Woolwich 5.4%



% SENIORS (65+) 14.9%

> KW4 14.4%

Kitchener 13.9%, Waterloo 14.4%, Wilmot 18.6%, Wellesley 11.8%, Woolwich 16.5%



% LIVING BELOW THE LOW-INCOME MEASURE 11.6%

> KW4 12.8%

Kitchener 13.7%, Waterloo 13.7%, Wilmot 5.3%, Wellesley 11.2%, Woolwich 7.2%



% WITH NO KNOWLEDGE OF **ENGLISH OR FRENCH** 1.6%

KW4

1.8%

Kitchener 2.0%, Waterloo 1.6%, Wilmot 0.2%, Wellesley 3.9%, Woolwich 1.4%



% WITHOUT HIGH SCHOOL (AGES 25-64) 11.6%

> KW4 10.8%

Kitchener 11.5%, Waterloo 6.0%, Wilmot 9.3%, Wellesley 33.7%, Woolwich 17.2%



% WHO ARE IMMIGRANTS 20.9%

> KW4 23.6%

Kitchener 25.9%, Waterloo 24.9%, Wilmot 10.2%, Wellesley 6.4%, Woolwich 10.5%



% UNEMPLOYED 6.0%

> KW4 6.3%

Kitchener 6.8%, Waterloo 6.9%, Wilmot 3.6% Wellesley 2.3%, Woolwich 3.2%



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Co-designing Care Models

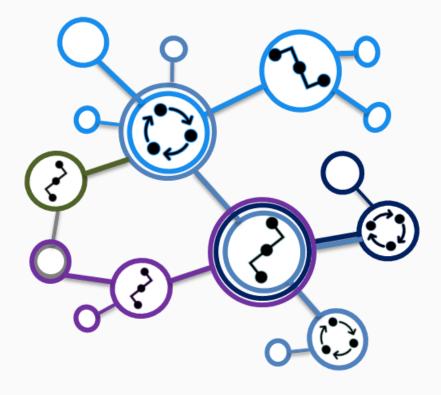


Care Pathways refer to <u>steps</u> taken to deliver a care process



Care Models

Care Models are <u>systems of care</u> with multiple pathways and processes inside









Population Health: Definition

Strategies to <u>squeeze the curve</u> & <u>reduce inequities</u>



"LEAVE NO ONE BEHIND" & TACKLE THE "INVERSE CARE LAW"

Social Determinants & Our Impact



Quality of Life Impacts Health Outcomes



Journey Mapping in support of co-design

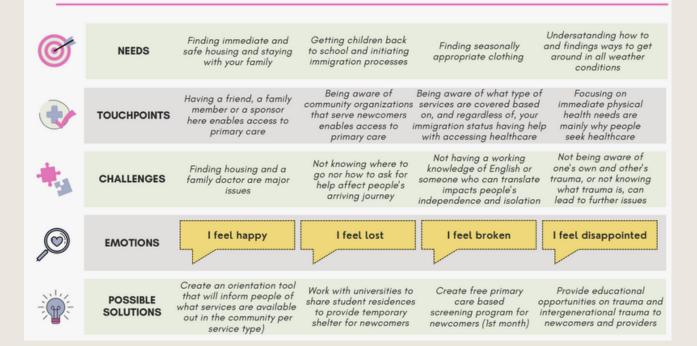
This project continues to help us implement peoplecentered and evidence-informed system change beyond the healthcare system realm in KW4.

Outcomes from this project have informed our strategic (2022-2024) priorities and population health management efforts.

The Newcomer Journey to Health & Wellness in KW4









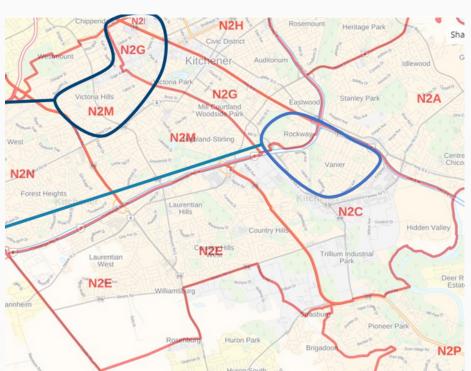




2022/23 Priority Projects

Results from the data and research





◆ Identified Priority Population: Newcomers

The data has shown 3x more permanent residents in Waterloo-Wellington region. The government has set record-high immigration target levels creating a significate increase in the newcomer population.

Priority Neighbourhoods

Based on the Forward Sortation Area (FSA) the following postal codes have been identified with the highest proportion of recent newcomers all located in downtown Kitchener:

- Victoria Hills/Cherry Hill/KW Hospital (N2G, N2M,N2H)
- Vanier/Rockway (N2G, N2C)

♦ Health Status/Chronic Conditions

Here is what we know from the research:

- Immigrants tend to be healthier than non-immigrants upon arrival
- Across every immigration category the longer they live in the country the more their health declines
- Contributing factors for declining health include social determinates of health

Summary: Key Findings for Newcomers

5yrs Recent immigrants arrived

- Education higher level of education
- **Housing** 40% living in unaffordable housing and 31% in unsuitable housing
- Employment 12% unemployed
- Poverty 33% live in poverty

- Health 51% access MH services with 31% rating negative service
- **Discrimination** 24% experienced or treated unfairly last 12 months
- Technology tech savvy to navigate



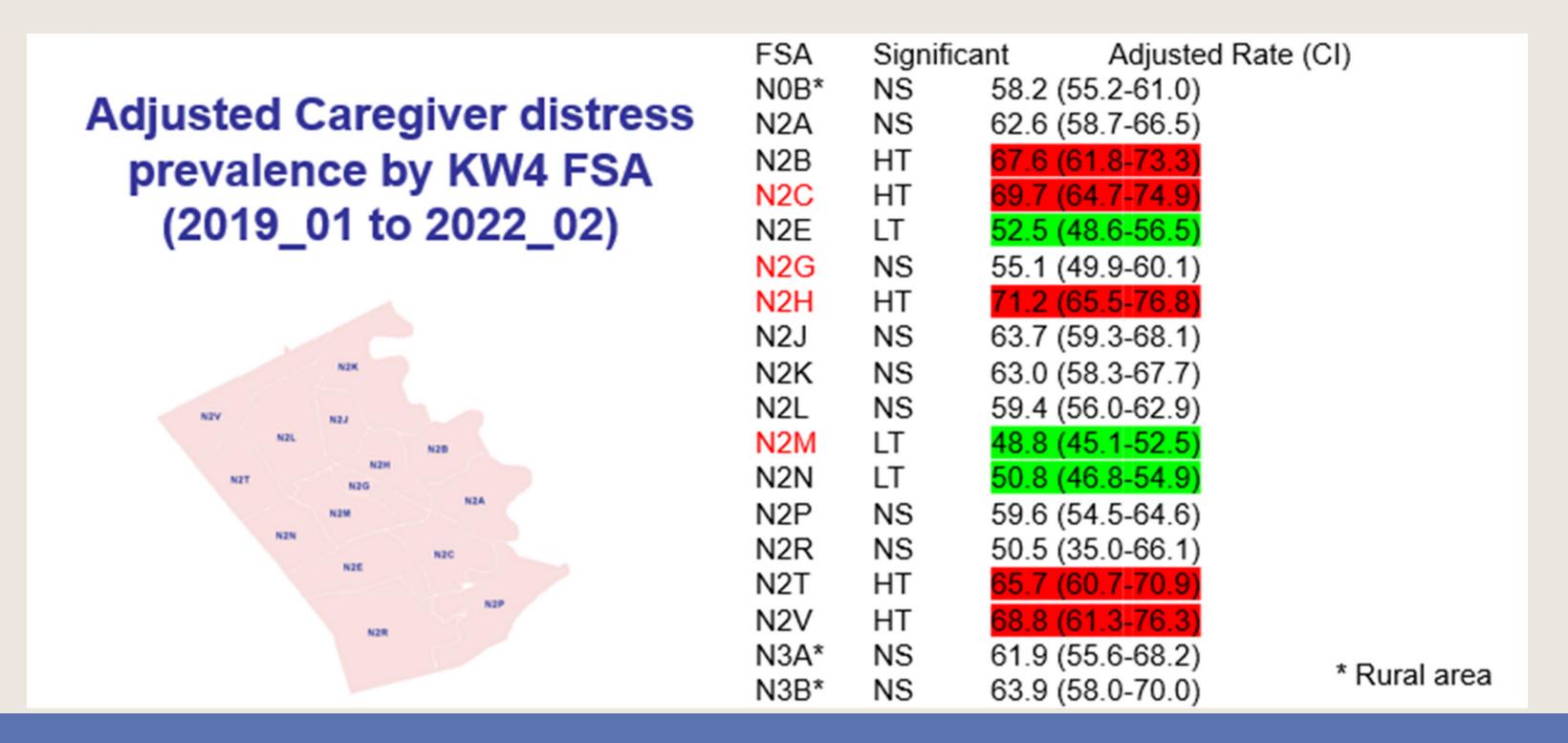
Ambulatory Care Sensitive Conditions Best Management Elsewhere Rate (per 100,000 population) by Condition and FSA

Urban\ Rural	Forward Sortation Area		FY2021/22 Dec(YTD)														
		Population (2016 Census)	# of cases							Rate (per 100000 population)							
			Angina	Asthma	сорр	Diabetes	Epilepsy	Heart Failure	Hypertension	Angina	Asthma	COPD	Diabetes	Epilepsy	Heart Failure	Hypertension	FY 2021/22 Total
	Kitchener (Central) - N2G	15,756			8	16	6	15	3	0	0	51	102	38	95	19	305
Kitchener	Kitchener (East) - N2A	32,495	2	1	11	11	12	15	1	6	3	34	34	37	46	3	163
	Kitchener (North Central) - N2H	22,267		5	30	10	3	7		0	22	135	45	13	31	0	247
	Kitchener (Northeast) - N2B	17,413	2	1	2	7	6	9	1	11	6	11	40	34	52	6	161
	Kitchener (Northwest) - N2M	36,560		7	23	10	8	30	3	0	19	63	27	22	82	8	222
	Kitchener (South Central) - N2C	17,944		5	6	11	7	5	4	0	28	33	61	39	28	22	212
	Kitchener (South West) - N2E	42,027		7	10	14	7	10	2	0	17	24	33	17	24	5	119
	Kitchener (South) - N2R	16,559	1	4	1		2	3		6	24	6	0	12	18	0	66
	Kitchener (Southeast) - N2P	22,889			3	2	1	7		0	0	13	9	4	31	0	57
	Kitchener (West) - N2N	28,077	1	1	3	3	5	9	5	4	4	11	11	18	32	18	96
Waterloo	Waterloo (East) - N2K	29,869		4	2	8		7	2	0	13	7	27	0	23	7	77
	Waterloo (Northwest) - N2V	19,420	1	1		5	1	9		5	5	0	26	5	46	0	88
	Waterloo (South) - N2L	29,181	1	4	9	17	3	10	4	3	14	31	58	10	34	14	164
	Waterloo (Southeast) - N2J	18,469		3	3	4	3	7	1	0	16	16	22	16	38	5	114
	Waterloo (Southwest) - N2T	22,161	1	2	2	6	5	3	1	5	9	9	27	23	14	5	90
Other/	Elmira - N3B	12,462		2	4		4			0	16	32	0	32	0	0	80
	New Hamburg (Baden) - N3A	17,344			1	5	2	2	2	0	0	6	29	12	12	12	69
	Wellington County &	84,875	2	0		9	3	10	1	2	2	0	11	4	12	1	32
	Rural Waterloo Region - NOB			2		9	3	10	1	2		O	11	4	12	1	52
NA		-		2	5	5	3	7									
Grand Total		485,768	11	51	123	143	81	165	30								

- 4 FSAs (N2G,N2H,N2M, N2C) account for 37% (92,527) of the population in Kitchener (251,987) but account for 55% of ACSC cases
 There is a higher per capita concentration of ACSC hospitalizations amongst residence living in Kitchener and more specifically in three FSAs (first three digits of postal code):

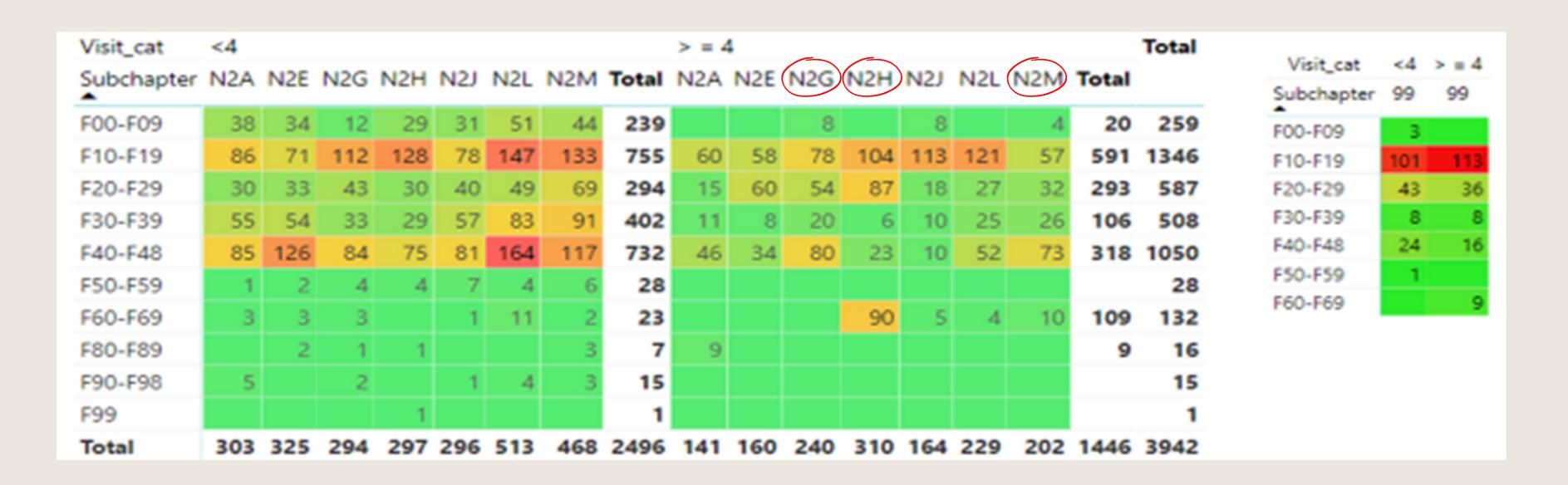
 - COPD Kitchener North Central N2H (part of Victoria Hills/Cherry Hill/KW Hospital)
 Diabetes Kitchener Central N2G (part of Victoria Hills/Cherry Hill/KW Hospital and Vanier/Rockway)
 Heart Failure Kitchener Central N2G and Kitchener Northwest N2M (part of Victoria Hills/Cherry Hill/KW Hospital)

Caregiver Distress Amongst Home Care Clients



- The two highest areas of caregiver distress prevalence in KW4 between January 2019 and February 22, 2022 occurred in:
 - Kitchener North Central N2H (part of Victoria Hills/Cherry Hill/KW Hospital)
 - Kitchener South Central N2C (part of Vanier/Rockway)

Frequent Emergency Department Visits for Help with Mental Health & Addictions



- 3 of the top 7 FSA where patients who are frequently visiting the ER for help with MH&A include neighbourhoods with the highest proportion of recent immigrants (those that arrived from 2011 to 2016) including:
 - Kitchener Central N2G (part of Victoria Hills/Cherry Hill/KW Hospital and Vanier/Rockway)
 - Kitchener North Central N2H (part of Victoria Hills/Cherry Hill/KW Hospital)
 - Kitchener Northwest N2M (part of Victoria Hills/Cherry Hill/KW Hospital)

Alternate Level of Care (ALC) by Forward Sortation Area (FSA)

				FY 2021/22								
Urban/ Rural	FSA Description	Population 2016 Census	% of population	ALC Cases	ALC Cases per 100,000 population	ALC Days	ALC Days per 100,000 population	Inpatient Days	Inpatient Days per 100,000 population	ALC Rate (%)		
Kitchener	Kitchener (Southwest) - N2E	42,027	8.7%	116	276	2,164	5,149	4,061	9,663	53.3%		
	Kitchener (Northwest) - N2M	36,560	7.5%	164	449	2,345	6,414	4,848	13,260	48.4%		
	Kitchener (East) - N2A	32,495	6.7%	170	523	4,468	13,750	8,658	26,644	51.6%		
	Kitchener(West)-N2N	28,077	5.8%	107	381	1,498	5,335	3,058	10,891	49.0%		
	Kitchener (Southeast) - N2P	22,889	4.7%	36	157	636	2,779	1,218	5,321	52.2%		
	Kitchener(NorthCentral)-N2H	22,267	4.6%	149	669	2,874	12,907	5,744	25,796	50.0%		
☲	Kitchener(Southcentral)-N2C	17,944	3.7%	97	541	1,541	8,588	2,866	15,972	53.8%		
	Kitchener Northeast-N2B	17,413	3.6%	89	511	1,476	8,476	3,027	17,384	48.8%		
	Kitchener(South)-N2R	16,559	3.4%	14	85	211	1,274	411	2,482	51.3%		
	Kitchener(Central)-N2G	15,756	3.2%	133	844	2,064	13,100	4,703	29,849	43.9%		
	Waterloo (East) - N2K	29,869	6.1%	64	214	918	3,073	2,263	7,576	40.6%		
00	Waterloo(South)-N2L	29,181	6.0%	155	531	2,206	7,560	4,309	14,766	51.2%		
Waterloo	Waterloo (Southwest) - N2T	22,161	4.6%	72	325	953	4,300	1,903	8,587	50.1%		
Wa	Waterloo (Northwest) - N2V	19,420	4.0%	56	288	1,126	5,798	1,912	9,846	58.9%		
	Waterloo (Southeast) - N2J	18,469	3.8%	107	579	2,063	11,170	3,799	20,570	54.3%		
Other / Rural	Wellington County&Rural Waterloo Region-N0B	84,875	17.5%	82	97	1,351	1,592	2,602	3,066	51.9%		
	New Hamburg(Baden)-N3A	17,344	3.6%	51	294	1,060	6,112	1,955	11,272	54.2%		
	Elmira-N3B	12,462	2.6%	36	289	662	5,312	1,150	9,228	57.6%		
Selected FSAs (N2G, N2H, N2M, N2C)		92,527		543	587	8,824			19,628	48.6%		
KW4 OHT Total		485,768		1,698	350	29,616	6,097	58,487	12,040	50.6%		
Selected FSAs as a percentage of KW4 OHT			19.0%	32.0%		29.8%		31.1%				

- 4 FSAs (N2G,N2H,N2M, N2C) with the highest proportion of recent immigrants account for only 19% of the population in KW4 but 32% of ALC cases
- The highest per capita concentration of ALC cases occurs amongst residence living in:
 N2G (part of Victoria Hills/Cherry Hill/KW Hospital and Vanier/Rockway)
 N2H(part of Victoria Hills/Cherry Hill/KW Hospital)

Executive Sponsors





New Vision Family Health Team

Projects

Create NICTs in priority neigbourhoods

Develop a **Newcomer App for** use by recent newcomers

Support Primary Care Integration & Evolution of a Governance model

Initiatives

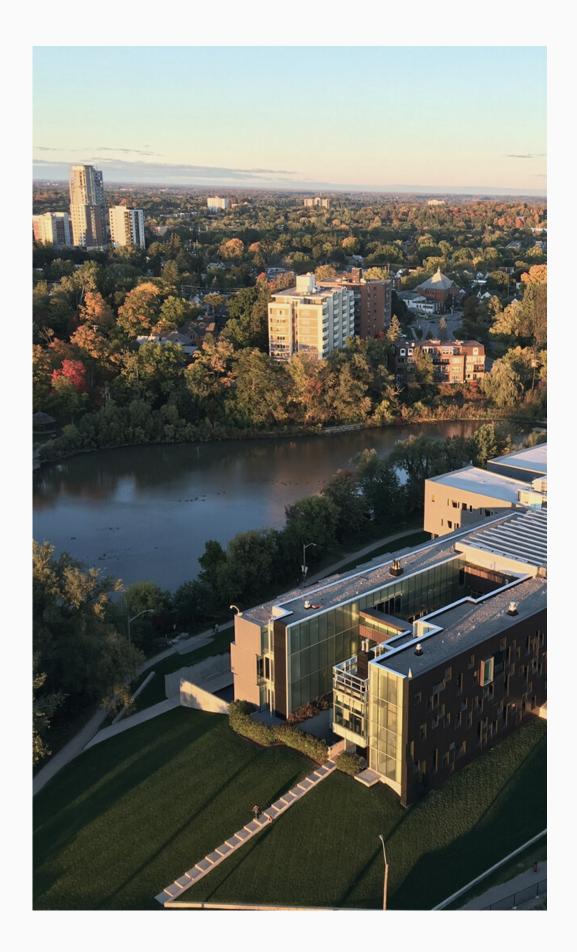
- Identify seniors at risk in the community through Integrated Care Team (ICT)
- Emergency Department Notification
 ALC Identification & Management

 Improve newcomers' ability to self-navigate local health and social services to improve their quality of life

- Develop a Primary Care Council and Governance Model
- Funding Primary Care involvement resources







Thank you!

ashnoor.rahim@grhosp.on.ca

