HSPN Health System Performance Network

From attribution-based to place-based reporting on OHT geographies

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Four versions of HSPN equity reporting

V1.0

Descriptive

How does my OHT compare with other OHTs?

Unit: the whole OHT

V2.0

Stratified

Which groups in my OHT do worse?

Unit: OHT × population segment

V3.0

Cross-analyzed

How big is the equity gap?

Unit: OHT × ADA cells (SII, RII)

V4.0

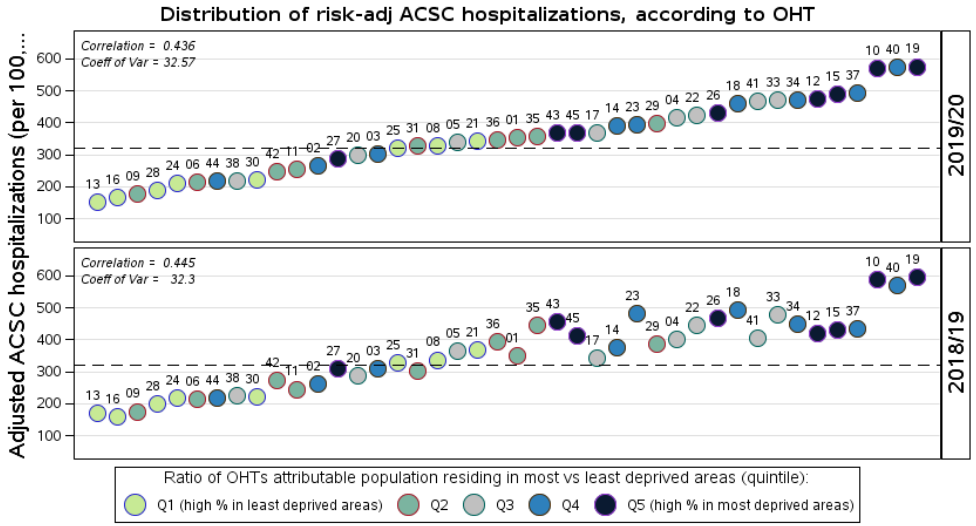
Neighbourhood

Where in my OHT should we act?

Unit: neighbourhoods the OHT defines

Attribution-based → **Place-based**

V1.0 Descriptive: comparing OHTs



153–576

ACSC hospitalizations per 100,000 across OHTs (mean 319): almost a 4-fold range

τ = 0.44

Moderate correlation with deprivation (2019/20)

CV 32.6

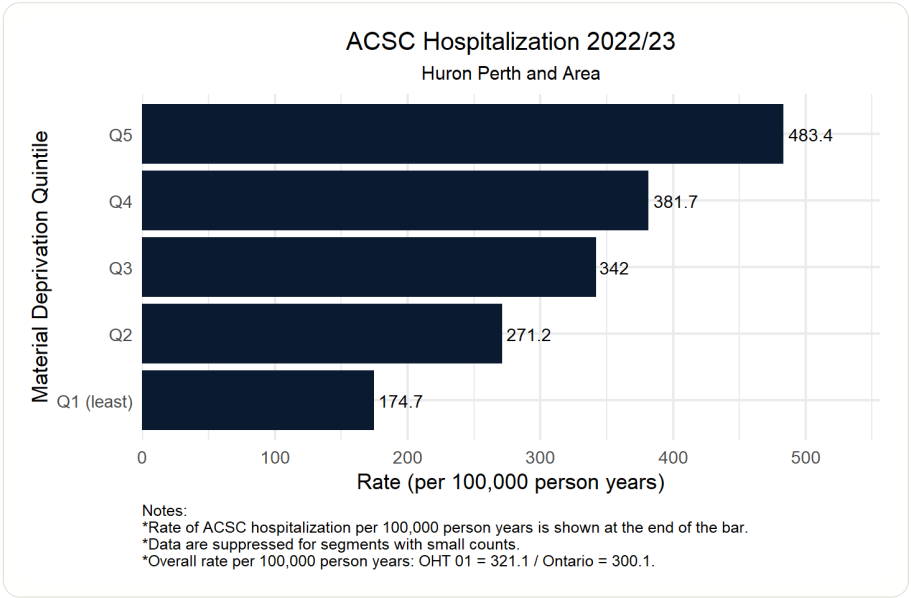
High variability across OHTs in the same year

One number per OHT tells you how you compare, not who or where.

V2.0 Stratification: Where do we need to improve most?

GEOGRAPHIC AND SYSTEM STRATIFIERS

- Material resources quintile · geographic
- Primary care enrolment model · system
- CIHI POP Grouper profiles · system
- BC Health System Matrix · system

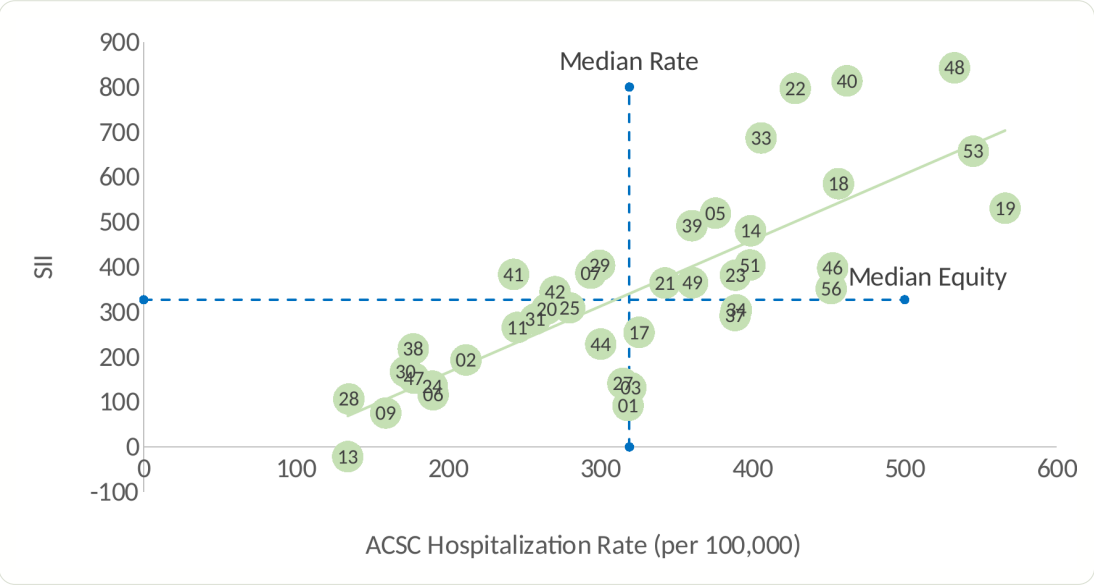


Q5 is 2.8× Q1 in this OHT, but Q5 residents live all over the OHT.

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Data: ICES; HSPN analysis, 2022/23.

V3.0 Cross-analysis: how big is the gap?



r = 0.80

OHTs with higher ACSC rates also have larger deprivation gaps

≈ 327

more ACSC hospitalizations per 100,000 in the most vs least deprived areas, at the median SII

SII: slope of a population-weighted regression of OHT-ADA rates on deprivation rank (0 = least, 1 = most deprived)

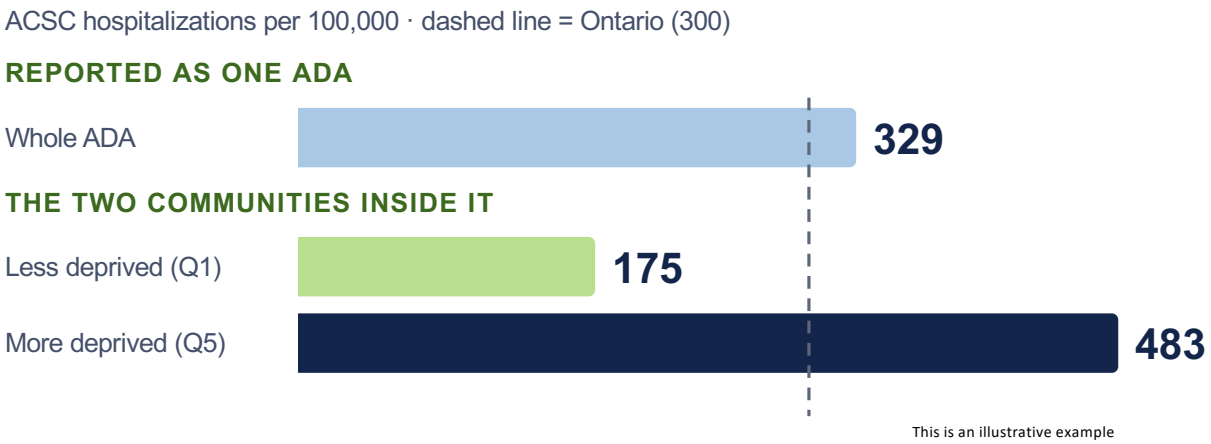
So what can an OHT do with this number?

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Data: ICES; HSPN analysis, 2022/23. Labels are OHT numbers.

The limit of ADAs: averages hide gaps

ACSC hospitalizations per 100,000 · dashed line = Ontario (300)



2.8×

gap between the two communities

Blended, the ADA looks only modestly above Ontario's 300.

Our SII is built on OHT-ADA cells, so it may understate inequity where one ADA mixes very different communities.

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GEOGRAPHIC LENS · WHEN AN OHT ASKS FOR IT

Neighbourhood-level reporting for the Ottawa, FLA and ETHP OHTs

1

The OHT defines its neighbourhoods

Areas that mean something locally, e.g., Ottawa's neighbourhoods from the Ottawa Neighbourhood Study

2

Each neighbourhood is a list of DA'S

The OHT tells us DA's make up each neighbourhood

3

HSPN builds indicators for each neighbourhood

e.g., cancer screening and primary care attachment, for the whole neighbourhood and by OHT

The goal: see where a rate is low, and plan an intervention there.

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Market share: which OHTs serve each neighbourhood?

Neighbourhood	Largest OHT	2nd	3rd	Other
Neighbourhood 1	OHT 11 · 61.4%	OHT 99 · 11.2%	OHT 47 · 10.3%	5.2%
Neighbourhood 2	OHT 11 · 75.4%	OHT 29 · 7.6%	OHT 47 · 7.5%	3.5%
Neighbourhood 3	OHT 51 · 71.2%	OHT 47 · 11.1%	OHT 34 · 5.7%	2.5%
Neighbourhood 4	OHT 48 · 88.1%	OHT 11 · 8.6%	OHT 01 · 0.0%	0.0%
Neighbourhood 5	OHT 29 · 82.5%	OHT 11 · 8.1%	OHT 48 · 5.0%	1.9%
Neighbourhood 6	OHT 47 · 76.0%	OHT 11 · 9.8%	OHT 51 · 3.8%	5.1%
Neighbourhood 7	OHT 34 · 83.8%	OHT 33 · 6.9%	OHT 47 · 1.5%	2.9%
Neighbourhood 8	OHT 34 · 78.6%	OHT 47 · 7.3%	OHT 11 · 4.3%	4.1%
Neighbourhood 9	OHT 11 · 47.7%	OHT 47 · 39.2%	OHT 29 · 4.7%	4.5%
Neighbourhood 10	OHT 11 · 49.3%	OHT 29 · 38.7%	OHT 47 · 5.3%	3.5%
Neighbourhood 11	OHT 47 · 62.5%	OHT 11 · 26.0%	OHT 99 · 3.0%	4.1%
Neighbourhood 12	OHT 47 · 55.5%	OHT 11 · 35.3%	OHT 29 · 2.9%	2.0%
Neighbourhood 13	OHT 47 · 50.6%	OHT 11 · 38.1%	OHT 29 · 3.5%	3.5%
Neighbourhood 14	OHT 11 · 71.6%	OHT 47 · 8.1%	OHT 29 · 6.7%	6.9%
Neighbourhood 15	OHT 29 · 45.6%	OHT 11 · 44.2%	OHT 47 · 4.8%	1.9%

Most neighbourhoods have one main OHT, but many are split between two.

Primary care attachment

	Total			OHT 01			OHT 02			OHT 03			OHT 04		
Neighbourhood	**n**	**%**	**Total**	**n**	**%**	**Total**	**n**	**%**	**Total**	**n**	**%**	**Total**	**n**	**%**	**Total**
Neighbourhood 1	76	15.7	484	48	16.2	297									
Neighbourhood 2	868	10.3	8,387	652	10.3	6,327	18	2.8	635				18	2.8	632
Neighbourhood 3	**3,090**	**20.2**	**15,276**	**254**	**3.5**	**7,288**	**36**	**5.1**	**712**				**2,704**	**45.2**	**5,986**
Neighbourhood 4	1,374	16.5	8,315	137	4.3	3,216	1,185	28.9	4,095				12	2.7	437
Neighbourhood 5	814	11.3	7,232	44	2.3	1,879	7	3.8	183				745	16.5	4,519
Neighbourhood 6	528	10.4	5,065	52	2.9	1,787	8	5.4	148				446	15.9	2,812
Neighbourhood 7	591	12.9	4,590	57	3.3	1,749				8	15.7	51	502	21.6	2,321
Neighbourhood 8	966	16.4	5,892	761	18.0	4,217	16	4.0	397				25	5.3	475
Neighbourhood 9	853	9.9	8,651	102	2.7	3,827	694	17.6	3,945				22	5.4	411
Neighbourhood 10	1,083	11.2	9,641	993	13.2	7,533	19	3.0	629				26	3.5	739
Neighbourhood 11	892	10.7	8,339	786	13.4	5,860	11	3.4	324				68	4.2	1,611
Neighbourhood 12	1,432	14.7	9,711	1,190	18.3	6,517	25	6.1	412	7	7.7	91	163	8.5	1,914
Neighbourhood 13	2,512	9.3	27,029	140	1.9	7,399	20	2.9	695	8	3.1	256	2,277	13.6	16,721

Neighbourhood 3: 20.2% uncertainly attached overall, but only 3.5% of OHT 01 residents vs 45.2% of OHT 04 residents.

What we learned building neighbourhood reports

Small numbers

Some neighbourhoods were too small to report rare indicators, especially once tables were stratified by age/attachment status

The OHT’s own geography

Each OHT defines its neighbourhoods, so they’re meaningful locally but not comparable across OHTs.

Places cross OHT lines

One neighbourhood can hold residents attributed to several OHTs, so we report a total and each OHT.

THANK YOU!

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