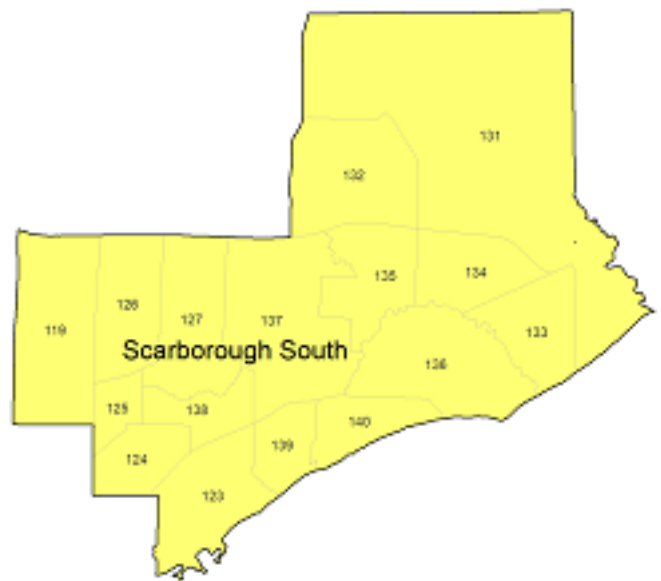
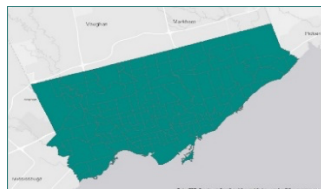


Sub-Region 907 Scarborough South

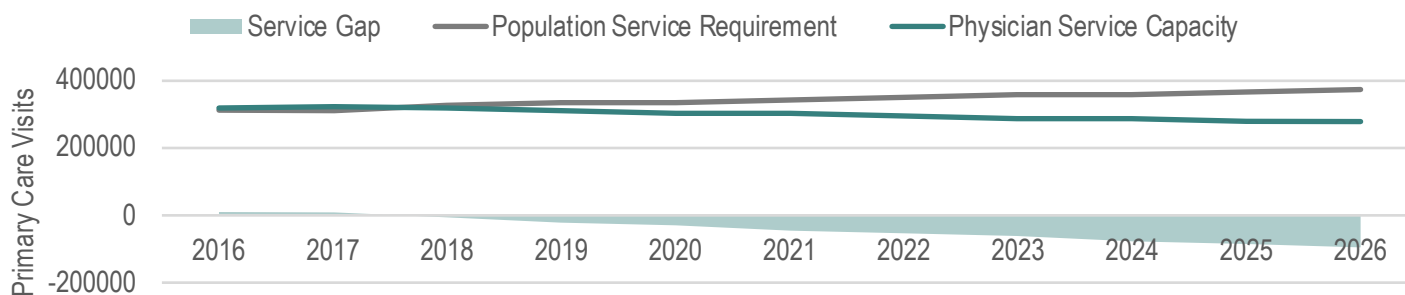
Neighbourhoods	
119	Wexford/Maryvale
123	Cliffcrest
124	Kennedy Park
125	Ionview
126	Dorset Park
127	Bendale
131	Rouge
132	Malvern
133	Centennial Scarborough
134	Highland Creek
135	Morningside
136	West Hill
137	Woburn
138	Eglinton East
139	Scarborough Village
140	Guildwood





Primary Care Workforce Planning

Neighbourhood Profile: Wexford-Maryvale



Need (2021)
343,434 Visits

Current State Gap (2021)
-42,911 Visits

Capacity (2021)
300,523 Visits

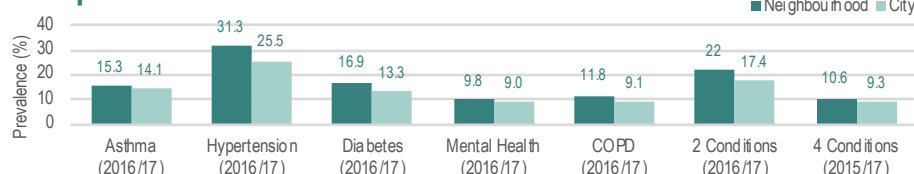
Need (2026)
374,076 Visits

Future State Gap (2026)
-95,229 Visits

Capacity (2026)
278,847 Visits

Population (2016)			
Children	Youth	Working Age	Seniors
4,210	3,670	15,325	4,725
15.1 %	13.1 %	54.9 %	16.9 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	27,917	Neigh: 4.46 % - 7.01 % City: 1.60 % - 2.50 %
2021	36,633 - 37,701	
2026	45,350 - 47,485	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	4	4
Residential Instability	2	5
Dependency	4	1
Ethnic Concentration	3	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 301,603 Non-Resident Visits

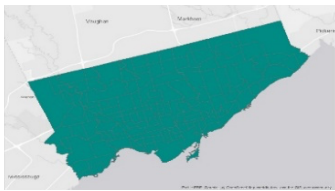
Yearly Outgoing Demand: 103,376 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	73.6	71.6
ACSC Hospitalization / 100,000	325.2	244.4
Low Urgency ED (%)	71.3	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	56			59	50	0	14	36	0	1,061	103	0	398	593	0	0
2017	53			40	20	0	59	19	224	993	109	0	346	576	0	0
2018				40	36	0	55	21	221	451	88	0	420	606	0	4



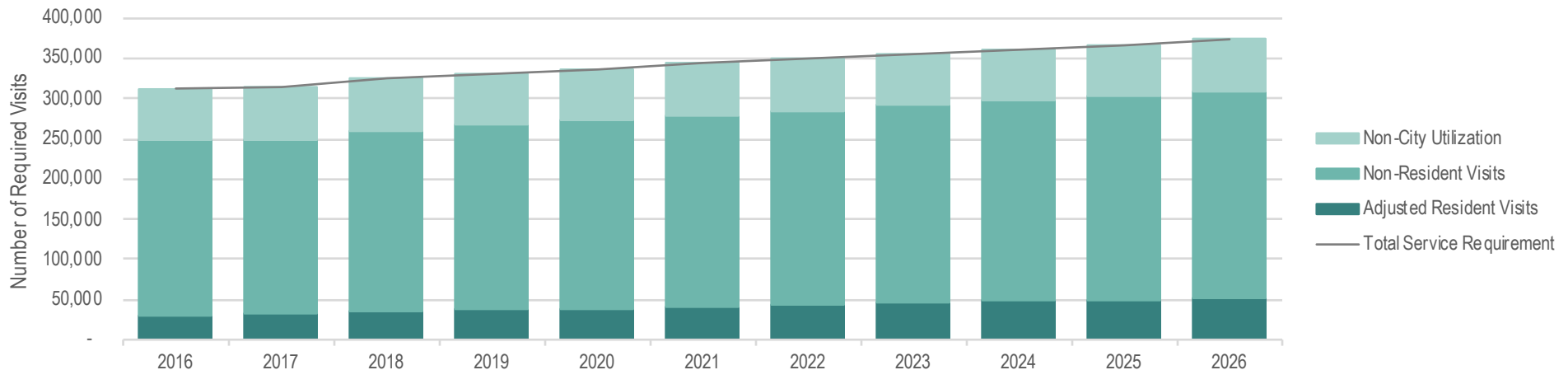
Primary Care Workforce Planning

Service Requirements Module: Wexford-Maryvale

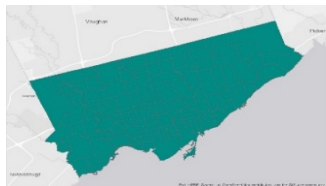
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	28,762	30,685	32,609	34,532	36,455	38,379	40,302	42,225	44,148	46,072	47,995
Resident Visits	108,939	109,860	123,509	130,794	138,078	145,363	152,648	159,932	167,217	174,502	181,787
Proportion of Care Accessed Within Home Neighbourhood	28.6%										
Resident Visits Adjusted for Spatial Patterns of Utilization	31,157	31,420	35,324	37,407	39,490	41,574	43,657	45,741	47,824	49,908	51,991
Non-Resident Visits	217,547	218,758	225,637	229,682	233,727	237,772	241,817	245,862	249,907	253,952	257,997
Non-City Utilization	64,088										
Total Service Requirement	312,792	314,266	325,049	331,177	337,306	343,434	349,562	355,691	361,819	367,948	374,076



Primary Care Workforce Planning

Service Capacity Module: Wexford-Maryvale

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

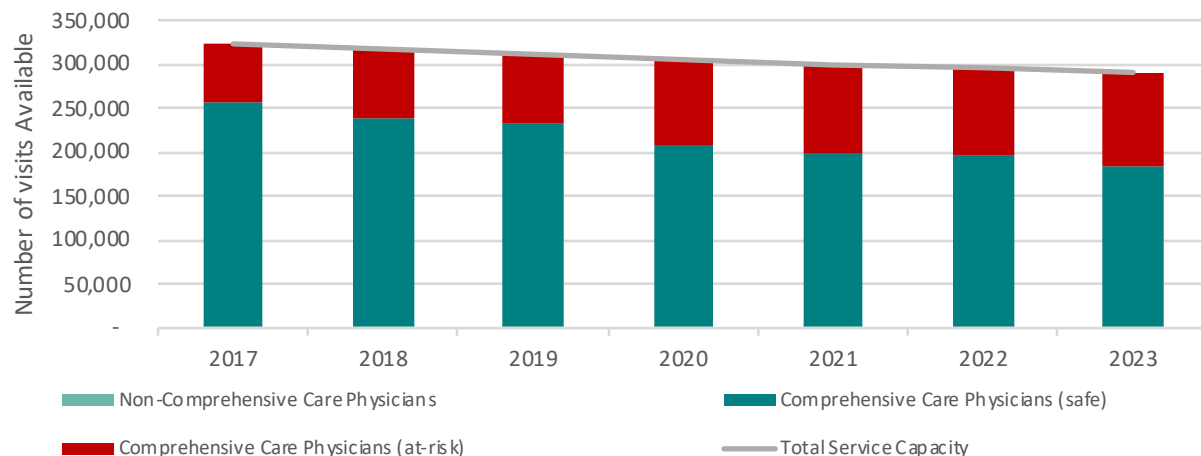
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiroprodists	59	40	40
Dieticians	50	20	36
Midwives	0	0	0
NPs	14	59	55
OTs	36	19	21
Optometrists	0	224	221
Pharmacists	1,061	993	451
PTs	103	109	88
Psychologists	0	0	0
RNs	398	346	420
RPNs	593	576	606
RTs	0	0	0
SLPs	0	0	4

Number of Comprehensive Primary Care Physicians

2016	56
2017	53

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	253,869	238,092	229,910	207,351	198,672	195,263	183,469
Comprehensive Care Physicians' At-Risk Service Capacity	67,947	78,020	80,498	97,353	100,500	98,585	105,872
Non-Comprehensive Care Physicians' Service Capacity	1,351						
Total Service Capacity	323,167	317,463	311,759	306,055	300,523	295,199	290,692



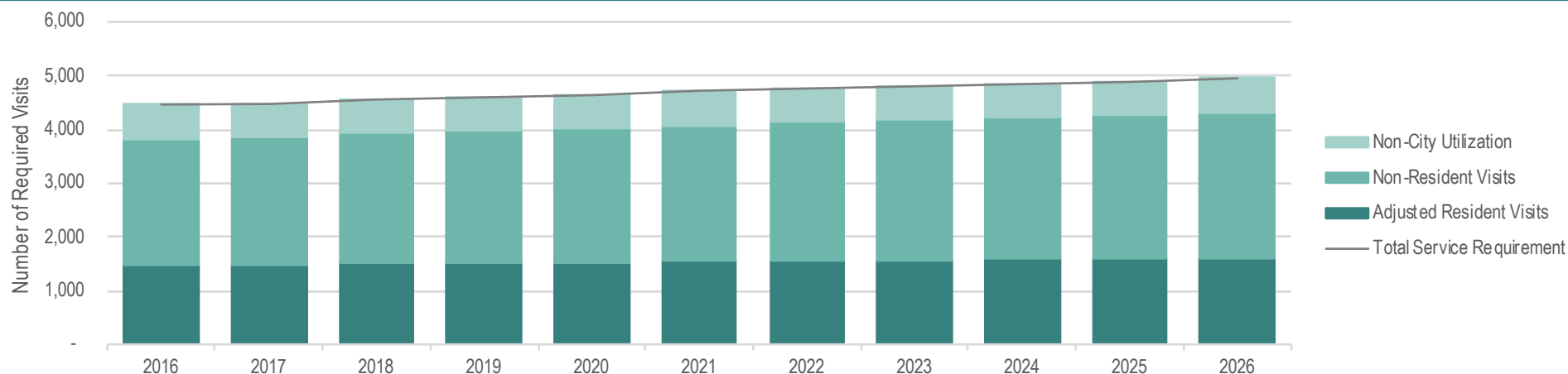
Primary Care Workforce Planning

Service Requirements Module: Cliffcrest

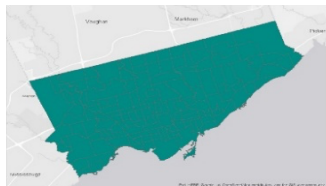
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	16,167	16,321	16,474	16,628	16,781	16,935	17,088	17,242	17,395	17,549	17,702
Resident Visits	61,289	61,692	62,453	63,035	63,617	64,199	64,781	65,363	65,945	66,527	67,109
Proportion of Care Accessed Within Home Neighbourhood	2.4%										
Resident Visits Adjusted for Spatial Patterns of Utilization	1,471	1,481	1,499	1,513	1,527	1,541	1,555	1,569	1,583	1,597	1,611
Non-Resident Visits	2,363	2,379	2,433	2,468	2,502	2,537	2,572	2,607	2,641	2,676	2,711
Non-City Utilization	628										
Total Service Requirement	4,462	4,487	4,560	4,608	4,657	4,706	4,755	4,803	4,852	4,901	4,950



Primary Care Workforce Planning

Service Capacity Module: Cliffcrest

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

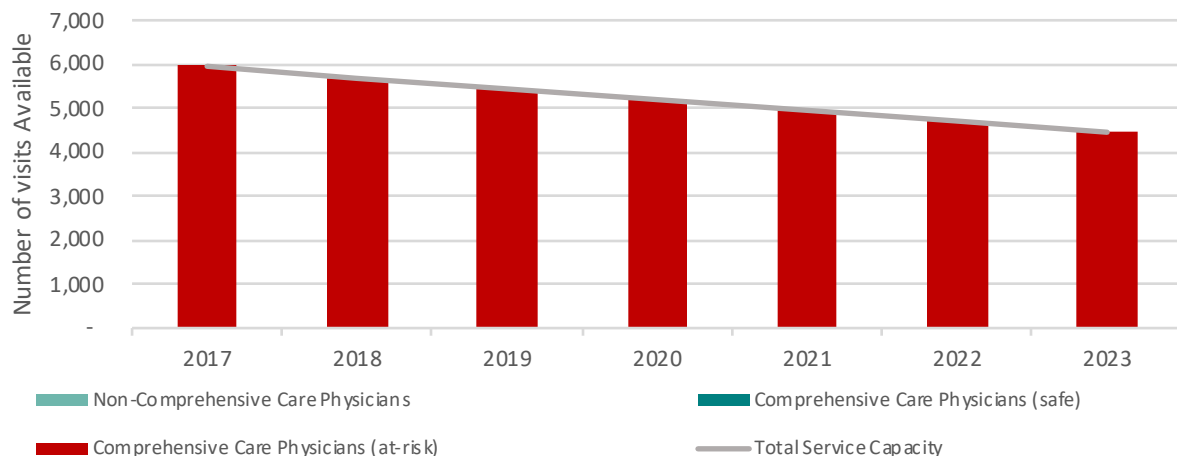
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



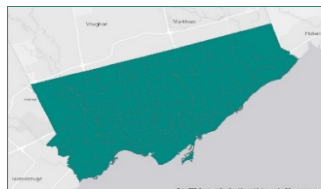
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	8	12	9
Dieticians	0	0	0
Midwives	0	0	0
NPs	0	0	0
OTs	6	13	0
Optometrists	0	0	0
Pharmacists	104	114	0
PTs	6	2	0
Psychologists	0	0	0
RNs	0	0	0
RPNs	3	19	22
RTs	0	0	0
SLPs	0	0	5

Number of Comprehensive Primary Care Physicians

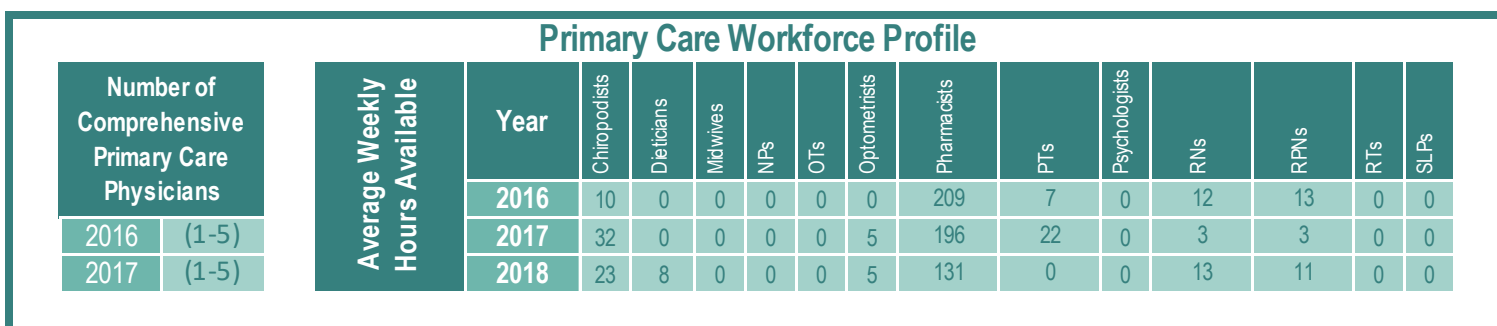
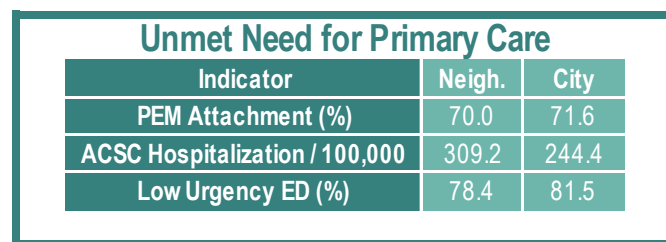
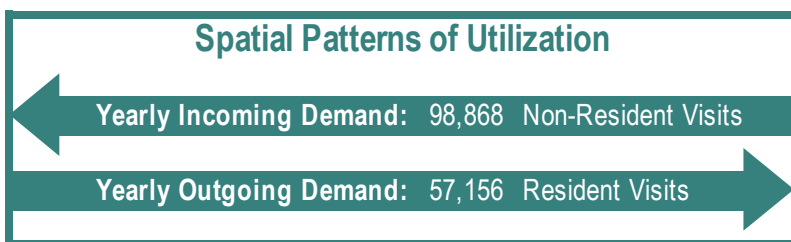
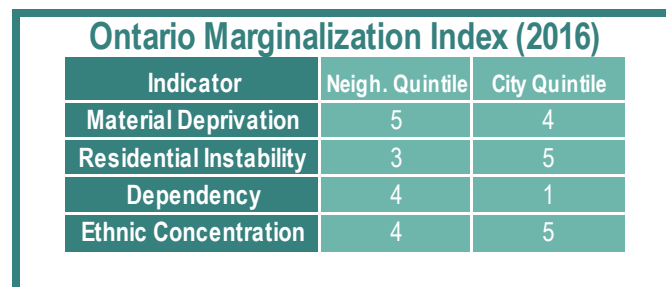
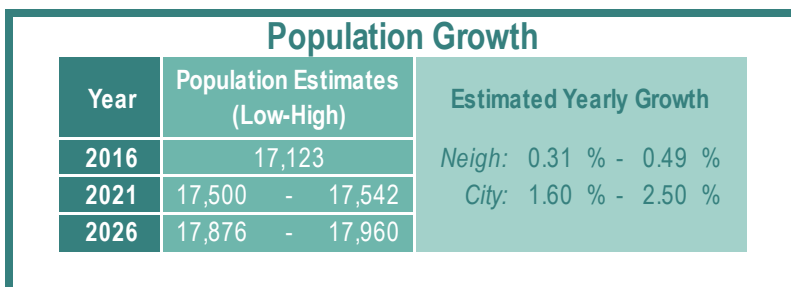
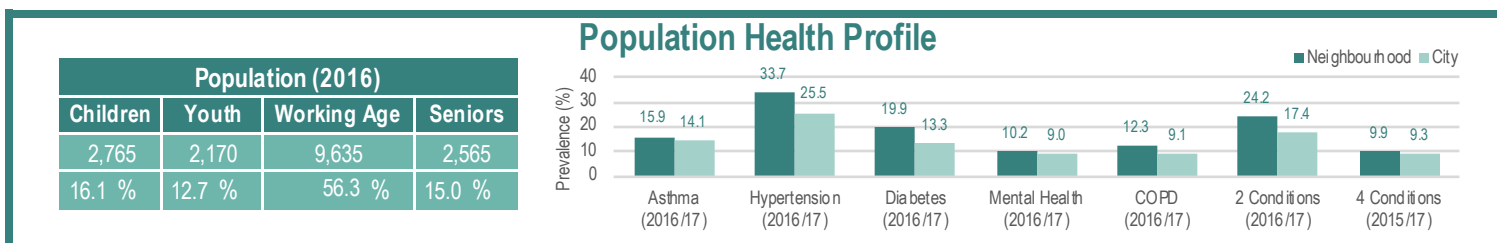
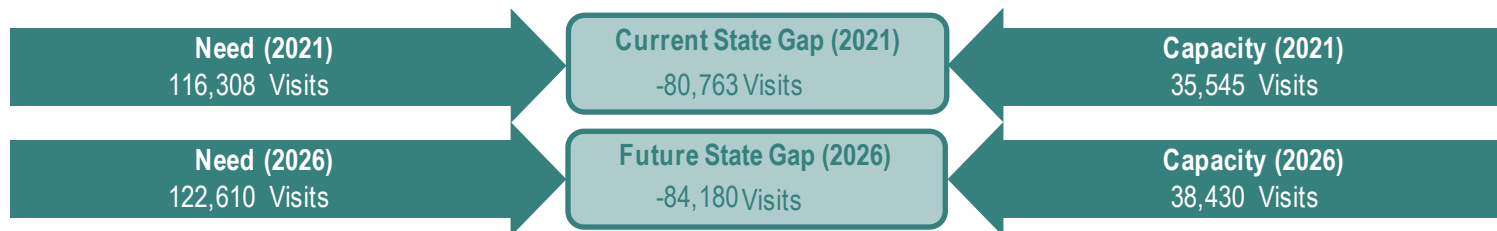
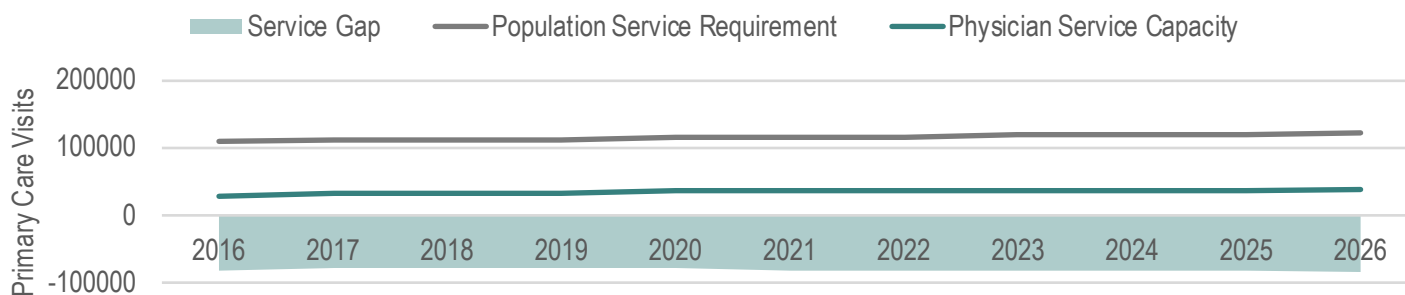
2016	(1-5)
2017	(1-5)

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	0	0	0	0	0	0	0
Comprehensive Care Physicians' At-Risk Service Capacity	5,954	5,704	5,454	5,204	4,954	4,704	4,454
Non-Comprehensive Care Physicians' Service Capacity	0						
Total Service Capacity	5,954	5,704	5,454	5,204	4,954	4,704	4,454



Primary Care Workforce Planning

Neighbourhood Profile: Kennedy Park





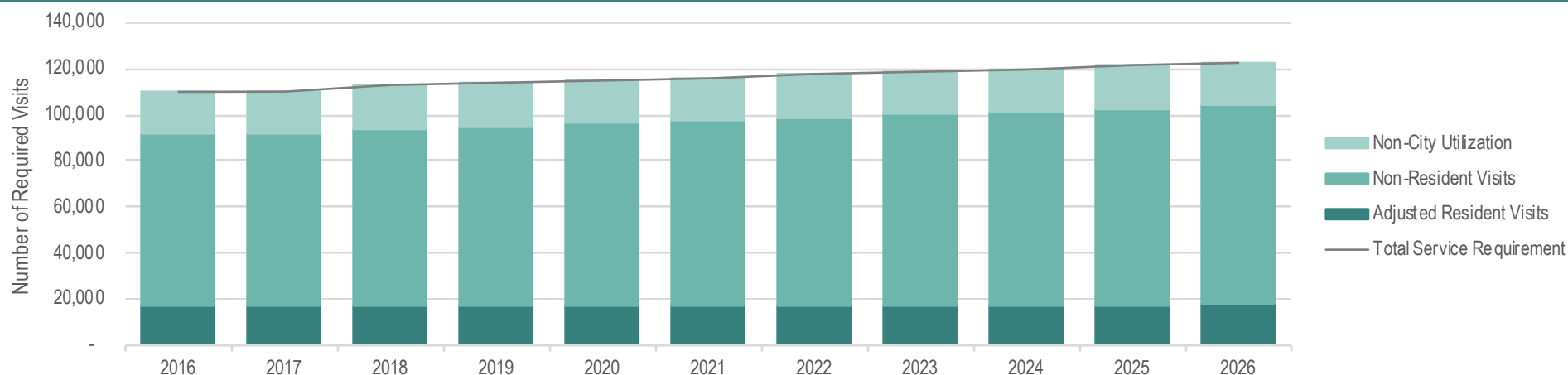
Primary Care Workforce Planning

Service Requirements Module: Kennedy Park

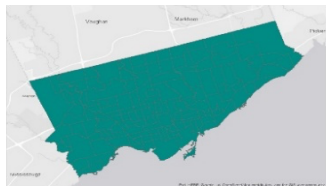
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	18,949	19,032	19,114	19,197	19,280	19,363	19,445	19,528	19,611	19,693	19,776
Resident Visits	72,970	72,802	73,607	73,926	74,244	74,563	74,881	75,200	75,518	75,837	76,155
Proportion of Care Accessed Within Home Neighbourhood	23.3%										
Resident Visits Adjusted for Spatial Patterns of Utilization	17,002	16,963	17,151	17,225	17,299	17,373	17,447	17,522	17,596	17,670	17,744
Non-Resident Visits	74,473	74,923	76,846	78,032	79,218	80,405	81,591	82,777	83,963	85,150	86,336
Non-City Utilization	18,530										
Total Service Requirement	110,005	110,416	112,526	113,787	115,047	116,308	117,568	118,829	120,089	121,350	122,610



Primary Care Workforce Planning

Service Capacity Module: Kennedy Park

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

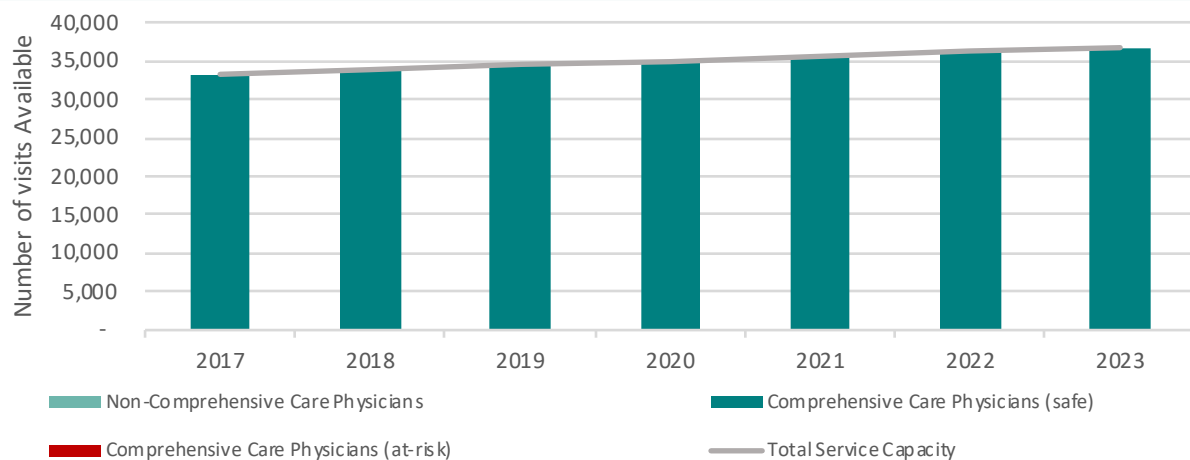
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



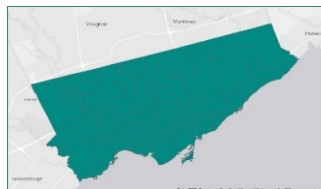
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiroprodists	10	32	23
Dieticians	0	0	8
Midwives	0	0	0
NPs	0	0	0
OTs	0	0	0
Optometrists	0	5	5
Pharmacists	209	196	131
PTs	7	22	0
Psychologists	0	0	0
RNs	12	3	13
RPNs	13	3	11
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

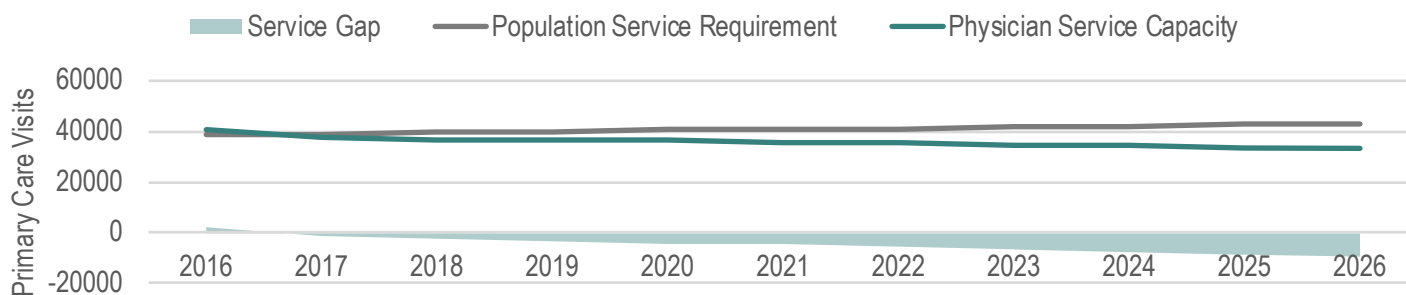
2016	(1-5)
2017	(1-5)

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	33,237	33,814	34,391	34,968	35,545	36,122	36,699
Comprehensive Care Physicians' At-Risk Service Capacity	0	0	0	0	0	0	0
Non-Comprehensive Care Physicians' Service Capacity	0						
Total Service Capacity	33,237	33,814	34,391	34,968	35,545	36,122	36,699



Primary Care Workforce Planning

Neighbourhood Profile: Ionview



Need (2021)
40,792 Visits

Current State Gap (2021)
-5,170 Visits

Capacity (2021)
35,622 Visits

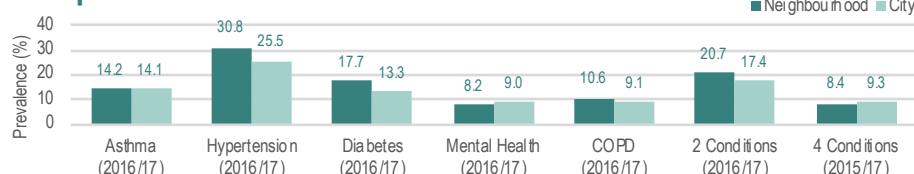
Need (2026)
42,888 Visits

Future State Gap (2026)
-9,666 Visits

Capacity (2026)
33,222 Visits

Population (2016)			
Children	Youth	Working Age	Seniors
2,315	1,610	7,820	1,905
17.0 %	11.8 %	57.4 %	14.0 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	13,641	Neigh: 0.00 % - 0.00 %
2021	13,641 - 13,641	City: 1.60 % - 2.50 %
2026	13,640 - 13,640	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	4	4
Residential Instability	3	5
Dependency	3	1
Ethnic Concentration	5	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 35,851 Non-Resident Visits

Yearly Outgoing Demand: 32,041 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	71.5	71.6
ACSC Hospitalization / 100,000	306.6	244.4
Low Urgency ED (%)	68.2	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	(1-5)			0	0	0	0	0	0	326	11	28	0	41	0	0
2017	(1-5)			0	0	0	0	0	0	319	0	28	0	28	0	0
2017	(1-5)			0	0	0	0	0	0	100	0	20	7	51	0	0



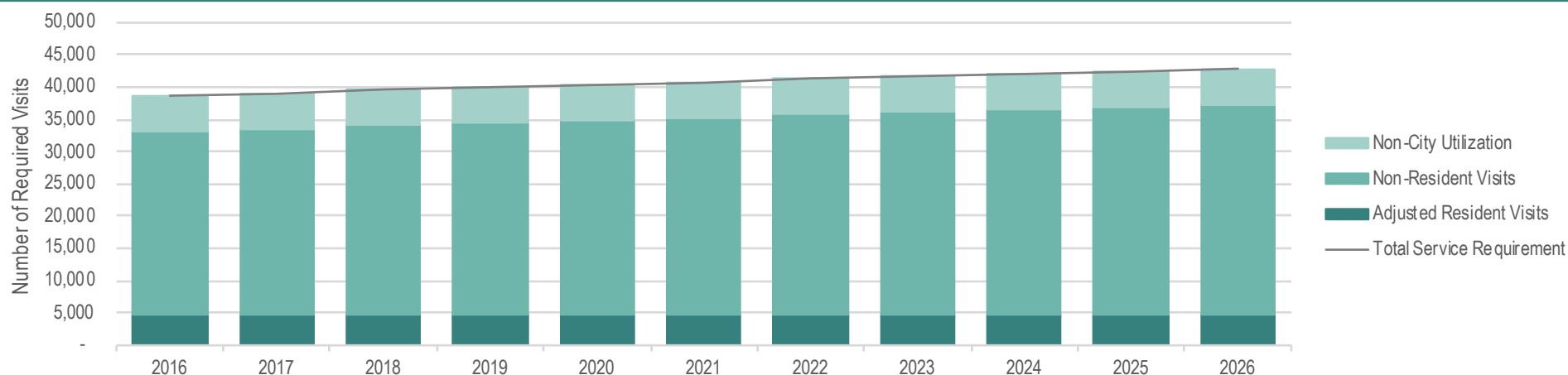
Primary Care Workforce Planning

Service Requirements Module: Ionview

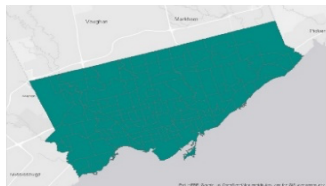
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
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- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	10,114	10,114	10,114	10,114	10,114	10,114	10,114	10,114	10,114	10,114	10,114
Resident Visits	36,946	37,048	36,946	36,946	36,946	36,946	36,946	36,946	36,946	36,946	36,946
Proportion of Care Accessed Within Home Neighbourhood	13.3%										
Resident Visits Adjusted for Spatial Patterns of Utilization	4,914	4,927	4,914	4,914	4,914	4,914	4,914	4,914	4,914	4,914	4,914
Non-Resident Visits	28,308	28,428	29,146	29,565	29,985	30,404	30,823	31,243	31,662	32,081	32,500
Non-City Utilization	5,474										
Total Service Requirement	38,695	38,830	39,534	39,953	40,373	40,792	41,211	41,630	42,050	42,469	42,888



Primary Care Workforce Planning

Service Capacity Module: Ionview

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

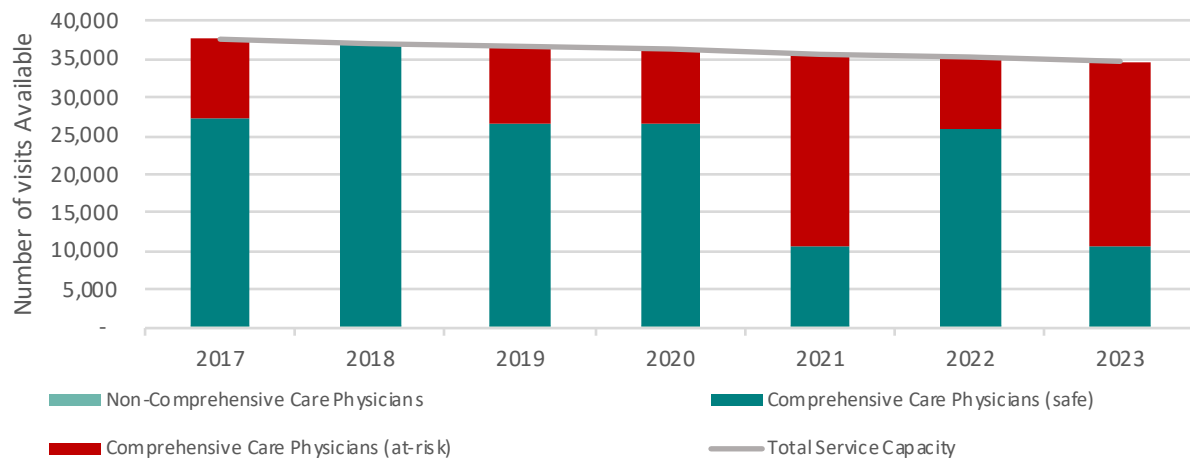
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

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Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



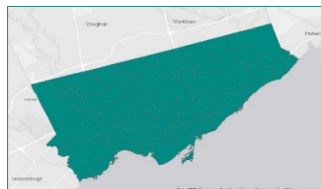
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	0	0	0
Dieticians	0	0	0
Midwives	0	0	0
NPs	0	0	0
OTs	0	0	0
Optometrists	0	0	0
Pharmacists	326	319	100
PTs	11	0	0
Psychologists	28	28	20
RNs	0	0	7
RPNs	41	28	51
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

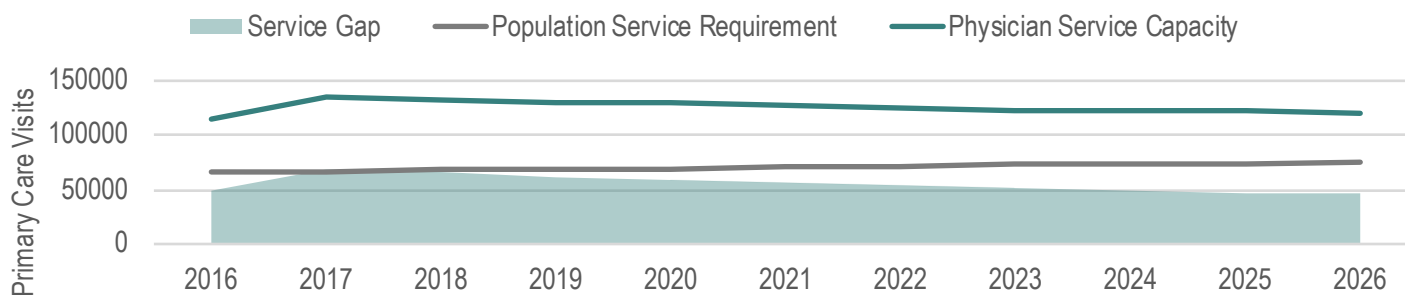
2016	(1-5)
2017	(1-5)

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	26,829	36,774	26,361	26,127	10,461	25,659	10,347
Comprehensive Care Physicians' At-Risk Service Capacity	10,425	0	9,933	9,687	24,873	9,195	24,027
Non-Comprehensive Care Physicians' Service Capacity	288						
Total Service Capacity	37,542	37,062	36,582	36,102	35,622	35,142	34,662



Primary Care Workforce Planning

Neighbourhood Profile: Dorset Park



Need (2021)
70,719 Visits

Current State Gap (2021)
+56,241 Visits

Capacity (2021)
126,960 Visits

Need (2026)
75,192 Visits

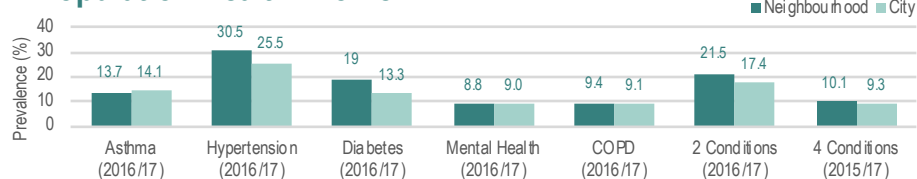
Future State Gap (2026)
+45,834 Visits

Capacity (2026)
121,026 Visits

Population (2016)

Children	Youth	Working Age	Seniors
4,270	3,150	13,830	3,785
17.1 %	12.6 %	55.3 %	15.1 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	25,003	Neigh: 1.04 % - 1.63 % City: 1.60 % - 2.50 %
2021	26,829 - 27,042	
2026	28,654 - 29,080	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	4	4
Residential Instability	2	5
Dependency	3	1
Ethnic Concentration	4	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 59,691 Non-Resident Visits

Yearly Outgoing Demand: 103,312 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	73.9	71.6
ACSC Hospitalization / 100,000	262.4	244.4
Low Urgency ED (%)	69.7	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians	Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
			2016	2017	2018	2016	2017	2018	2016	2017	2018	2016	2017	2018	2016
2016	25		13	15	0	0	0	0	498	142	0	1,322	1,793	0	0
2017	22		48	8	0	0	2	28	684	164	0	1,076	1,734	0	0
2018			19	9	0	0	0	32	239	62	0	1,142	1,914	0	0



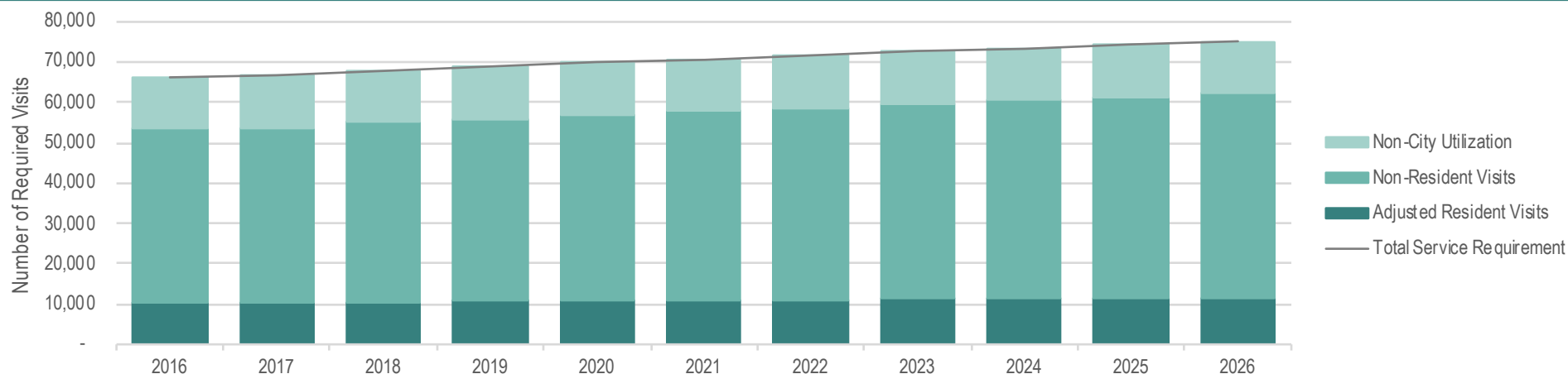
Primary Care Workforce Planning

Service Requirements Module: Dorset Park

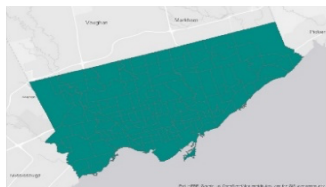
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	28,144	28,545	28,946	29,348	29,749	30,150	30,551	30,952	31,354	31,755	32,156
Resident Visits	106,774	107,179	109,818	111,340	112,862	114,384	115,906	117,428	118,950	120,473	121,995
Proportion of Care Accessed Within Home Neighbourhood	9.6%										
Resident Visits Adjusted for Spatial Patterns of Utilization	10,250	10,289	10,543	10,689	10,835	10,981	11,127	11,273	11,419	11,565	11,711
Non-Resident Visits	43,112	43,346	44,609	45,357	46,106	46,855	47,603	48,352	49,100	49,849	50,598
Non-City Utilization	12,883										
Total Service Requirement	66,245	66,518	68,034	68,929	69,824	70,719	71,613	72,508	73,403	74,297	75,192



Primary Care Workforce Planning

Service Capacity Module: Dorset Park

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

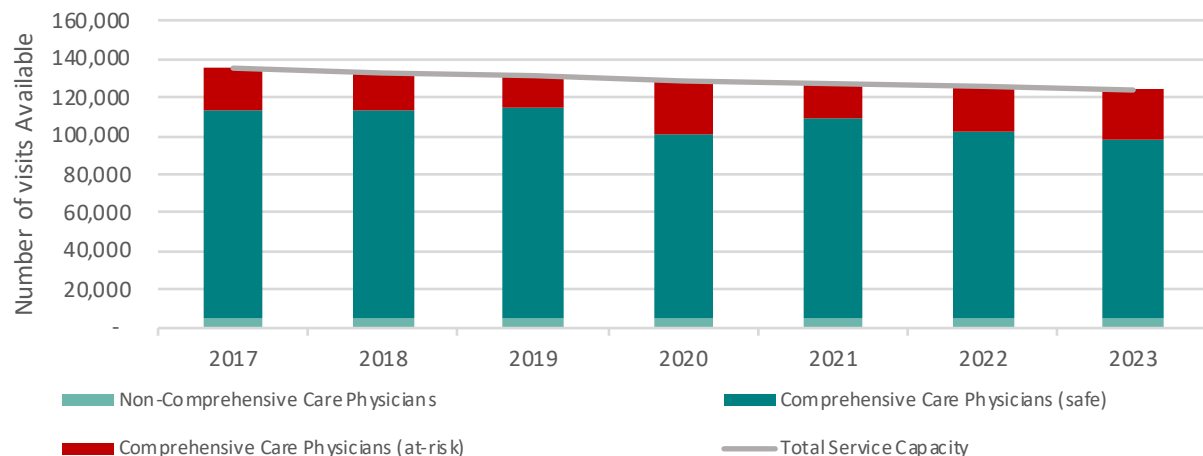
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



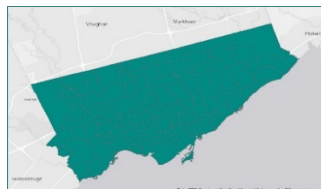
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	13	48	19
Dieticians	15	8	9
Midwives	0	0	0
NPs	0	0	0
OTs	0	2	0
Optometrists	0	28	32
Pharmacists	498	684	239
PTs	142	164	62
Psychologists	0	0	0
RNs	1,322	1,076	1,142
RPNs	1,793	1,734	1,914
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

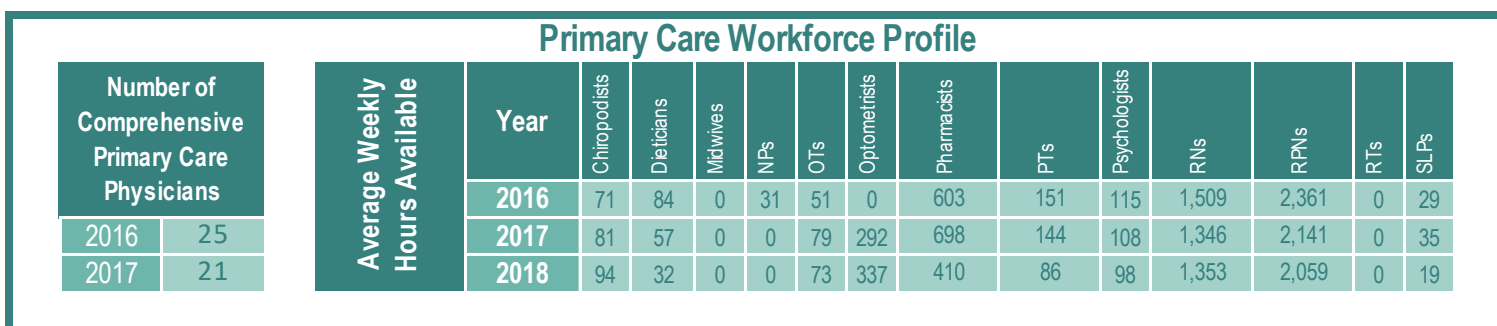
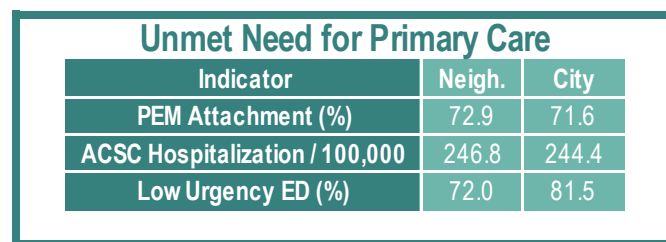
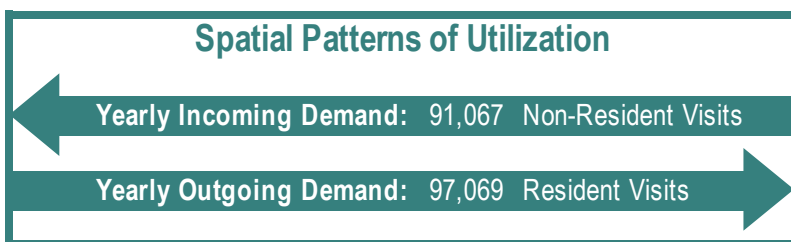
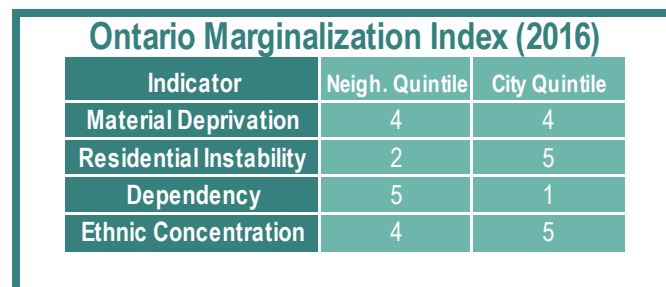
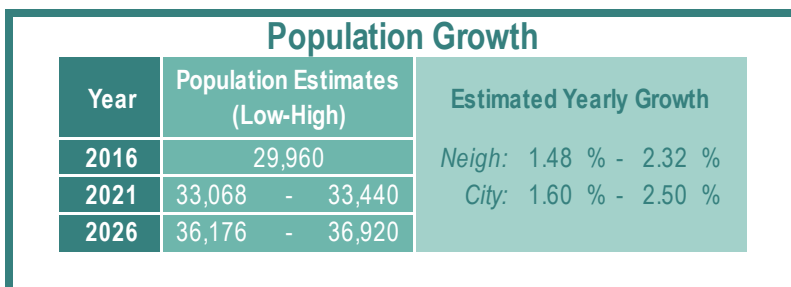
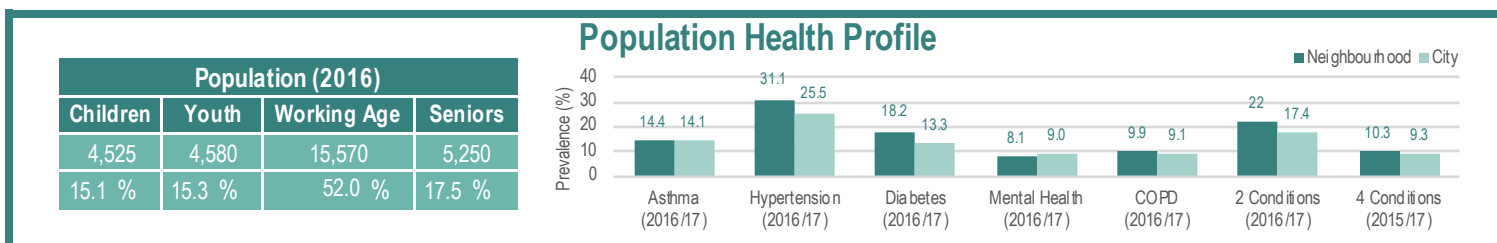
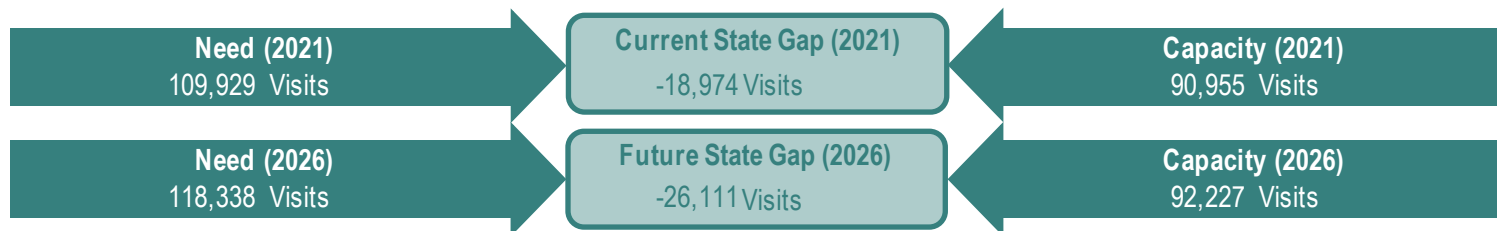
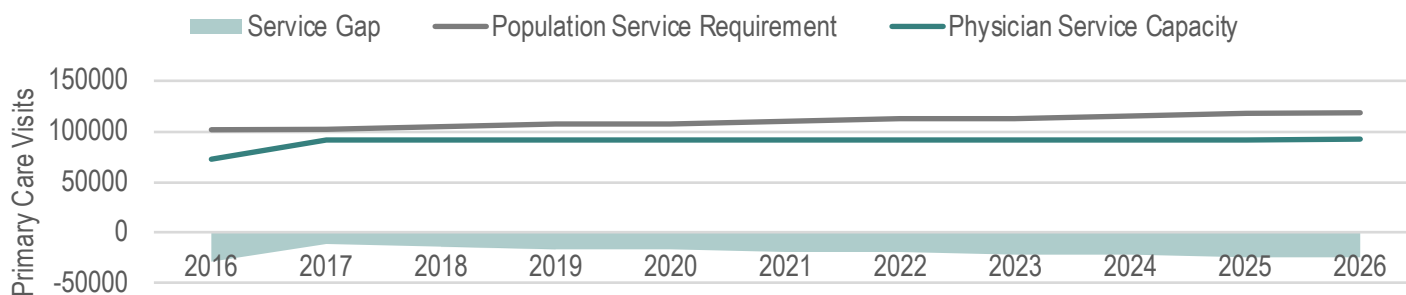
2016	25
2017	22

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	108,809	108,950	109,091	96,472	104,388	97,576	93,531
Comprehensive Care Physicians' At-Risk Service Capacity	21,466	19,286	17,106	27,686	17,731	22,634	25,375
Non-Comprehensive Care Physicians' Service Capacity	4,841						
Total Service Capacity	135,116	133,077	131,038	128,999	126,960	125,051	123,747



Primary Care Workforce Planning

Neighbourhood Profile: Bendale





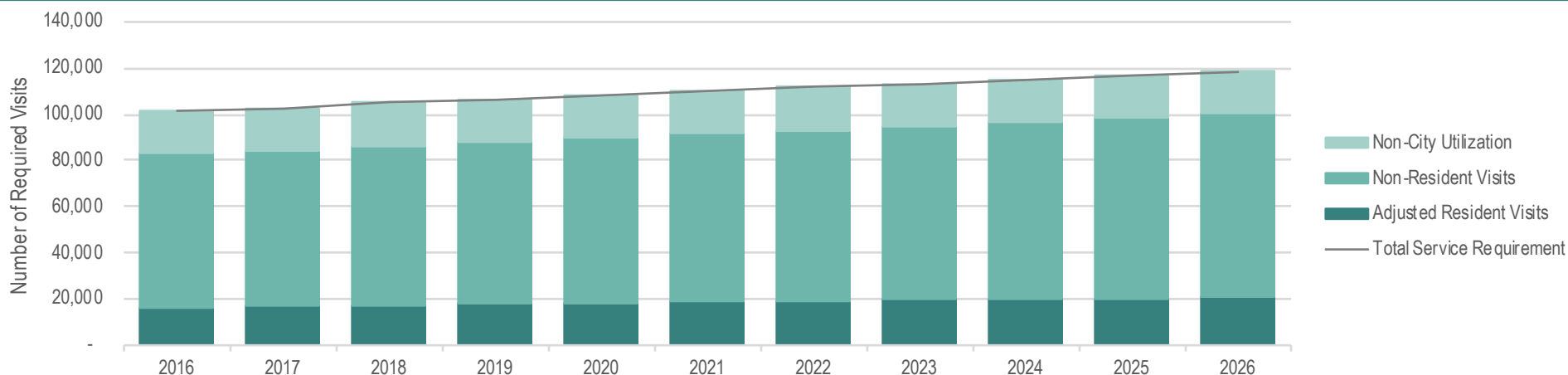
Primary Care Workforce Planning

Service Requirements Module: Bendale

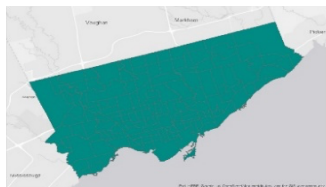
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	27,015	27,700	28,385	29,070	29,755	30,440	31,125	31,810	32,495	33,180	33,865
Resident Visits	102,859	104,747	108,075	110,683	113,291	115,900	118,508	121,116	123,724	126,332	128,940
Proportion of Care Accessed Within Home Neighbourhood	16.2%										
Resident Visits Adjusted for Spatial Patterns of Utilization	16,663	16,969	17,508	17,931	18,353	18,776	19,198	19,621	20,043	20,466	20,888
Non-Resident Visits	66,584	66,894	69,103	70,362	71,622	72,881	74,140	75,400	76,659	77,918	79,177
Non-City Utilization	18,272										
Total Service Requirement	101,520	102,135	104,883	106,565	108,247	109,929	111,610	113,292	114,974	116,656	118,338



Primary Care Workforce Planning

Service Capacity Module: Bendale

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

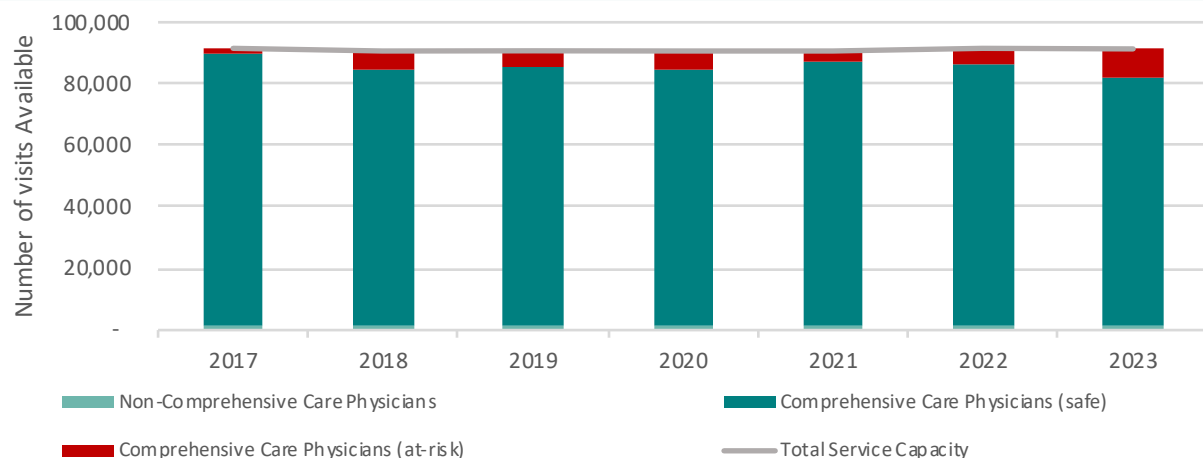
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

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Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



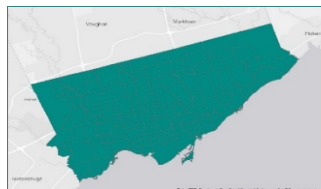
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	71	81	94
Dieticians	84	57	32
Midwives	0	0	0
NPs	31	0	0
OTs	51	79	73
Optometrists	0	292	337
Pharmacists	603	698	410
PTs	151	144	86
Psychologists	115	108	98
RNs	1,509	1,346	1,353
RPNs	2,361	2,141	2,059
RTs	0	0	0
SLPs	29	35	19

Number of Comprehensive Primary Care Physicians

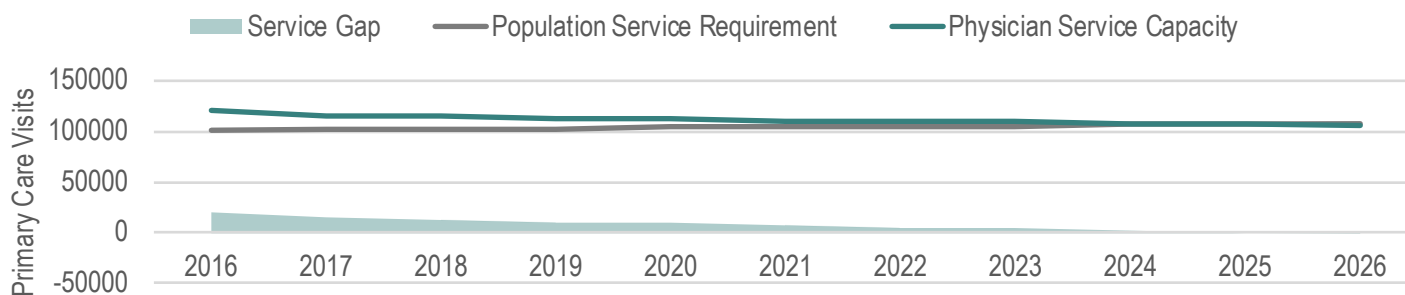
2016	25
2017	21

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	88,572	83,350	84,062	82,907	85,486	84,685	80,388
Comprehensive Care Physicians' At-Risk Service Capacity	984	5,994	5,070	6,253	3,870	4,867	9,360
Non-Comprehensive Care Physicians' Service Capacity	1,599						
Total Service Capacity	91,155	90,943	90,731	90,759	90,955	91,151	91,347



Primary Care Workforce Planning

Neighbourhood Profile: Rouge



Need (2021)
104,237 Visits

Current State Gap (2021)
+6,605 Visits

Capacity (2021)
110,842 Visits

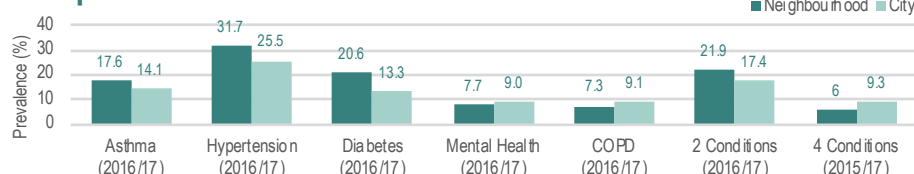
Need (2026)
107,470 Visits

Future State Gap (2026)
-1,748 Visits

Capacity (2026)
105,722 Visits

Population (2016)			
Children	Youth	Working Age	Seniors
7,970	6,710	25,200	6,630
17.1 %	14.4 %	54.2 %	14.3 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	46,496	Neigh: 0.34 % - 0.53 %
2021	47,604 - 47,723	City: 1.60 % - 2.50 %
2026	48,712 - 48,950	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	3	4
Residential Instability	1	5
Dependency	3	1
Ethnic Concentration	4	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 80,101 Non-Resident Visits

Yearly Outgoing Demand: 154,553 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	77.8	71.6
ACSC Hospitalization / 100,000	208.9	244.4
Low Urgency ED (%)	76.5	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	18			5	18	264	35	42	0	794	155	0	473	1,223	0	0
2017	18			27	18	456	9	39	36	820	148	0	384	1,213	43	0
2017	17			57	35	342	18	57	78	498	95	0	422	1,137	60	21



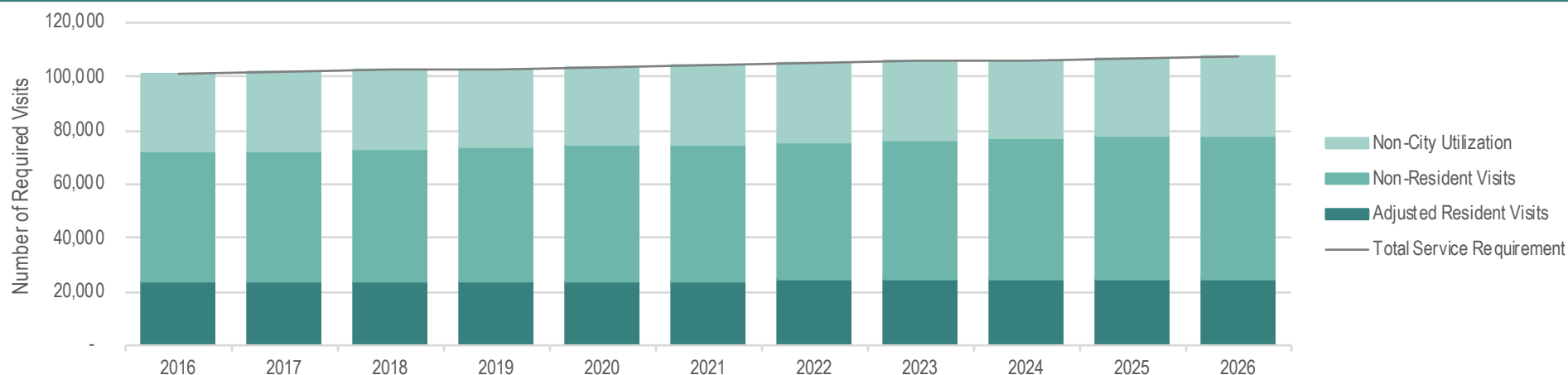
Primary Care Workforce Planning

Service Requirements Module: Rouge

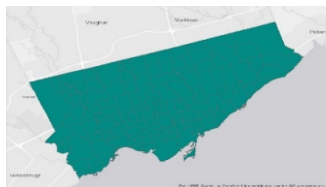
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

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- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	47,587	47,829	48,072	48,314	48,557	48,799	49,041	49,284	49,526	49,769	50,011
Resident Visits	174,075	176,789	175,848	176,735	177,621	178,508	179,395	180,282	181,168	182,055	182,942
Proportion of Care Accessed Within Home Neighbourhood	13.5%										
Resident Visits Adjusted for Spatial Patterns of Utilization	23,500	23,867	23,739	23,859	23,979	24,099	24,218	24,338	24,458	24,577	24,697
Non-Resident Visits	48,336	48,448	49,390	49,917	50,443	50,970	51,497	52,024	52,551	53,078	53,605
Non-City Utilization	29,168										
Total Service Requirement	101,004	101,482	102,297	102,944	103,590	104,237	104,883	105,530	106,177	106,823	107,470



Primary Care Workforce Planning

Service Capacity Module: Rouge

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

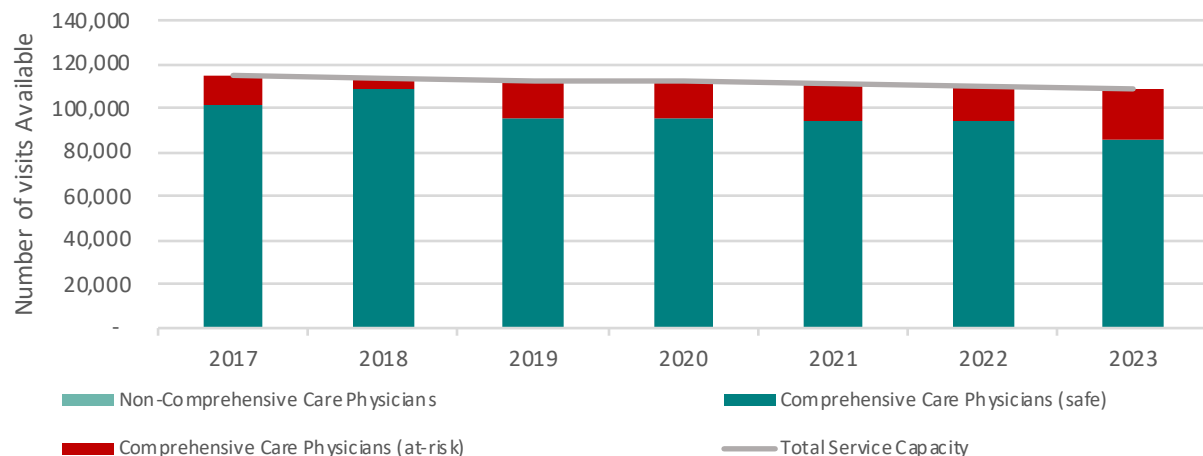
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

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Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



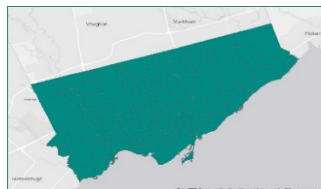
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiroprodists	5	27	57
Dieticians	18	18	35
Midwives	264	456	342
NPs	35	9	18
OTs	42	39	57
Optometrists	0	36	78
Pharmacists	794	820	498
PTs	155	148	95
Psychologists	0	0	0
RNs	473	384	422
RPNs	1,223	1,213	1,137
RTs	0	43	60
SLPs	0	0	21

Number of Comprehensive Primary Care Physicians

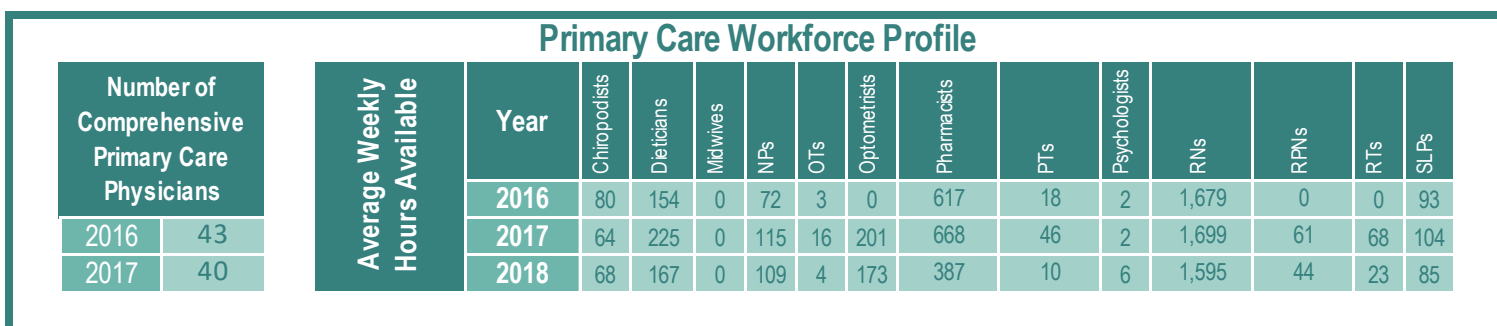
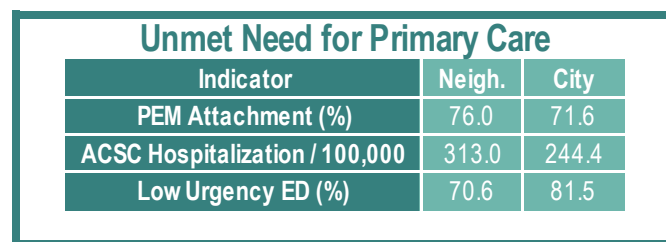
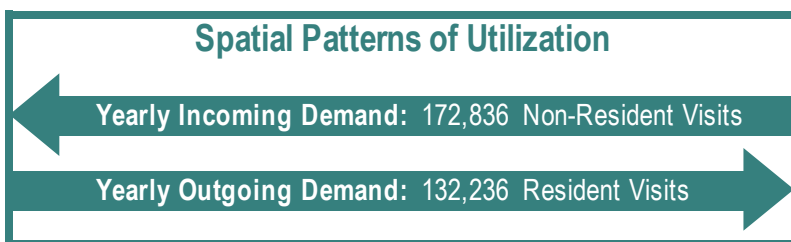
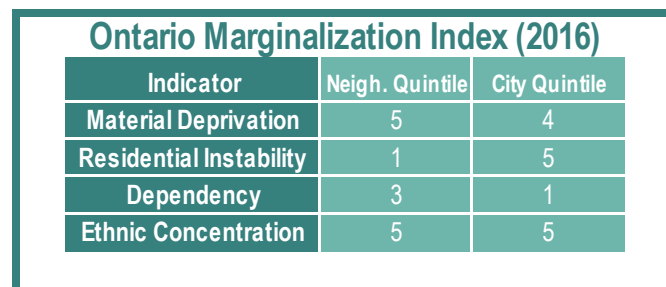
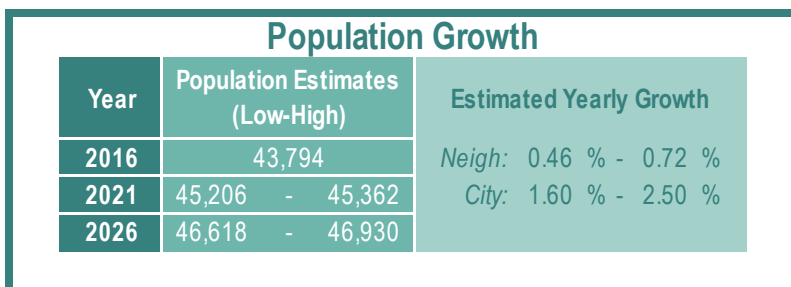
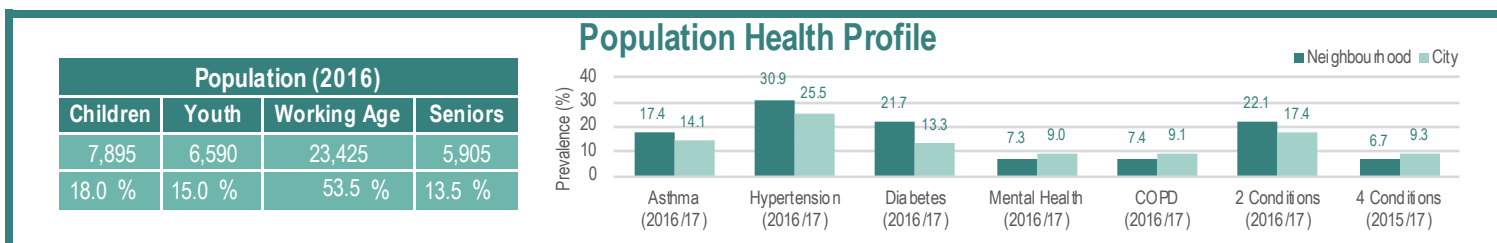
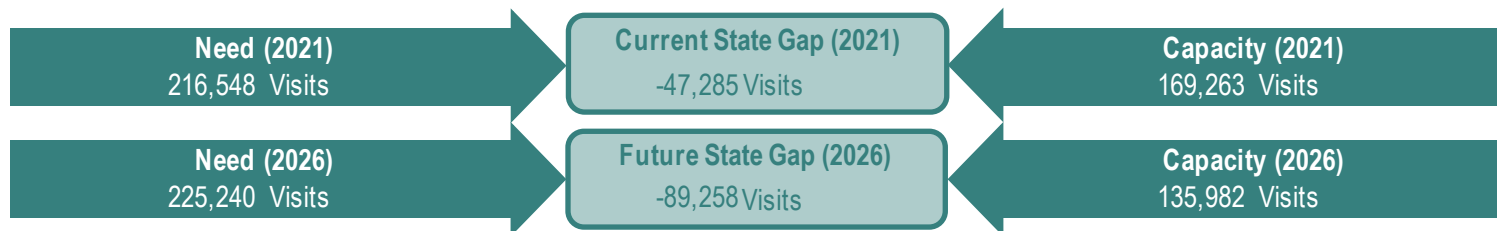
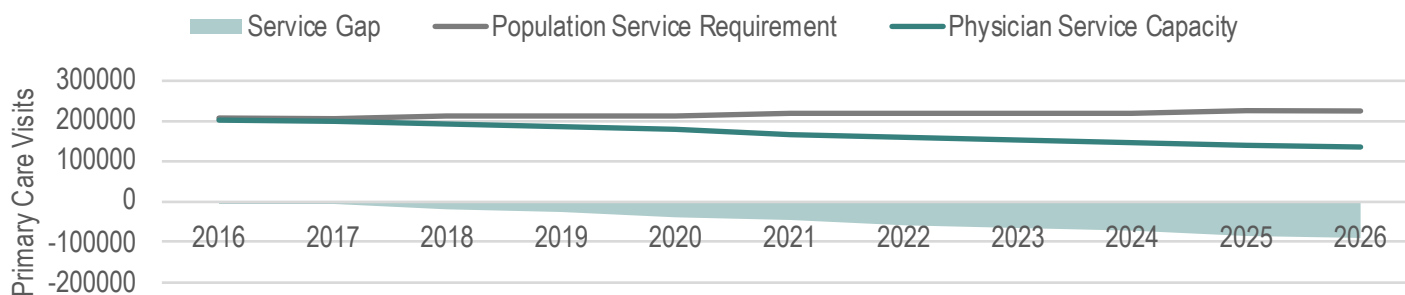
2016	18
2017	17

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	100,977	108,892	95,197	94,947	94,697	94,447	85,654
Comprehensive Care Physicians' At-Risk Service Capacity	13,961	5,022	17,693	16,919	16,145	15,371	23,140
Non-Comprehensive Care Physicians' Service Capacity	0						
Total Service Capacity	114,938	113,914	112,890	111,866	110,842	109,818	108,794



Primary Care Workforce Planning

Neighbourhood Profile: Malvern





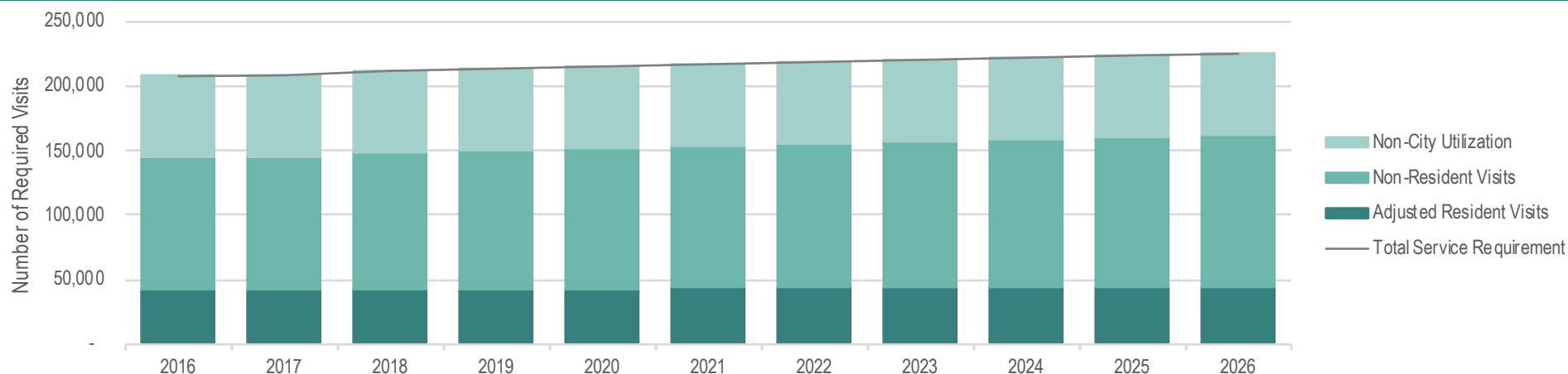
Primary Care Workforce Planning

Service Requirements Module: Malvern

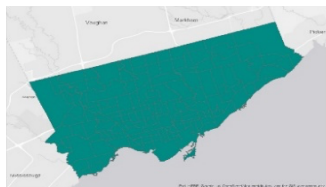
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

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- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	47,704	48,013	48,322	48,631	48,940	49,250	49,559	49,868	50,177	50,486	50,795
Resident Visits	170,455	170,115	172,664	173,769	174,873	175,978	177,082	178,187	179,291	180,396	181,500
Proportion of Care Accessed Within Home Neighbourhood	24.8%										
Resident Visits Adjusted for Spatial Patterns of Utilization	42,273	42,188	42,821	43,095	43,369	43,642	43,916	44,190	44,464	44,738	45,012
Non-Resident Visits	102,916	103,617	105,845	107,310	108,774	110,239	111,703	113,168	114,632	116,097	117,561
Non-City Utilization	62,667										
Total Service Requirement	207,856	208,473	211,333	213,071	214,810	216,548	218,287	220,025	221,763	223,502	225,240



Primary Care Workforce Planning

Service Capacity Module: Malvern

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

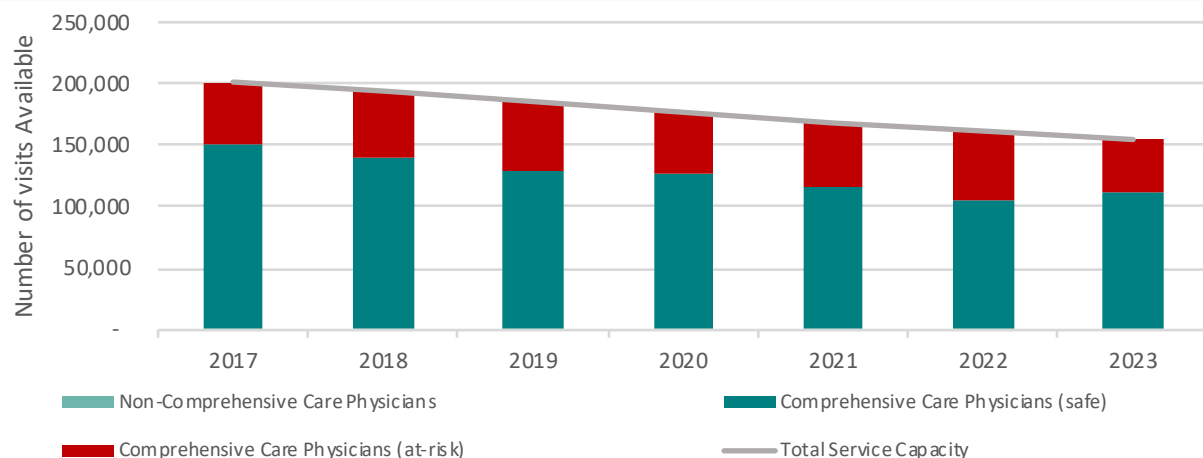
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

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Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

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Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



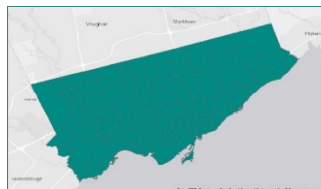
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	80	64	68
Dieticians	154	225	167
Midwives	0	0	0
NPs	72	115	109
OTs	3	16	4
Optometrists	0	201	173
Pharmacists	617	668	387
PTs	18	46	10
Psychologists	2	2	6
RNs	1,679	1,699	1,595
RPNs	0	61	44
RTs	0	68	23
SLPs	93	104	85

Number of Comprehensive Primary Care Physicians

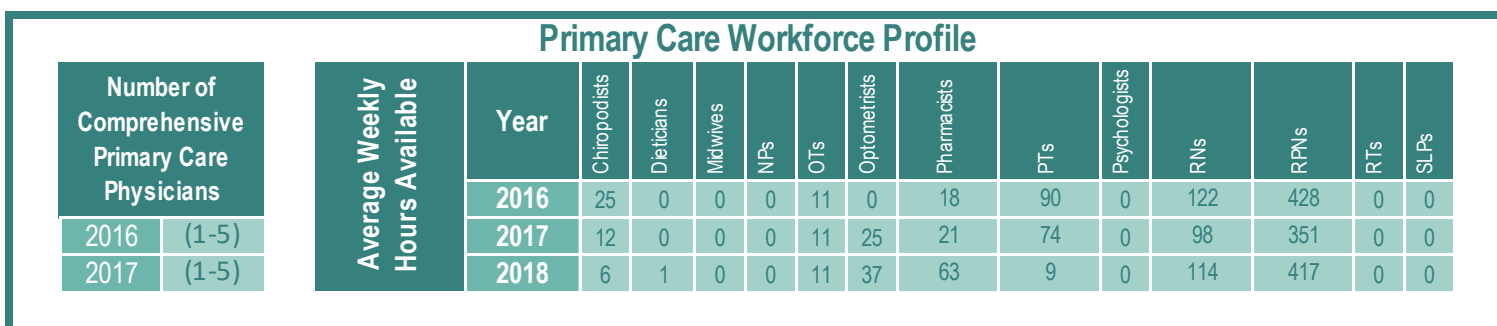
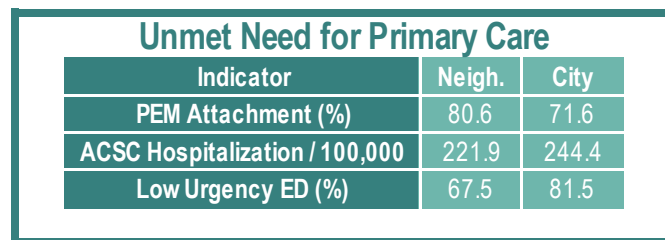
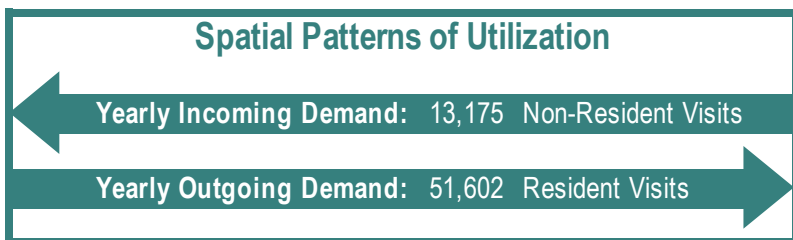
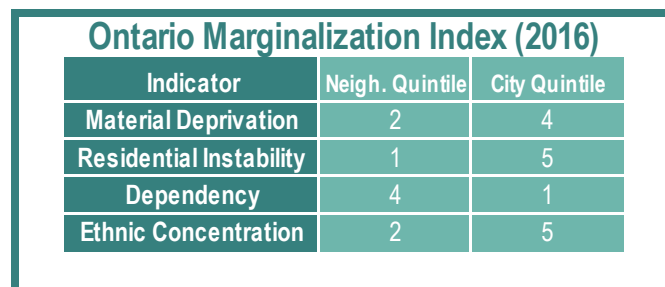
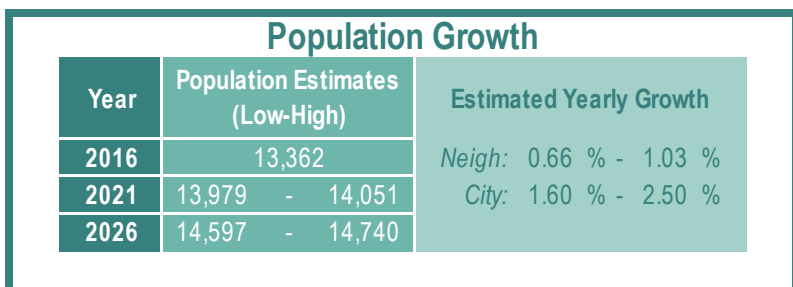
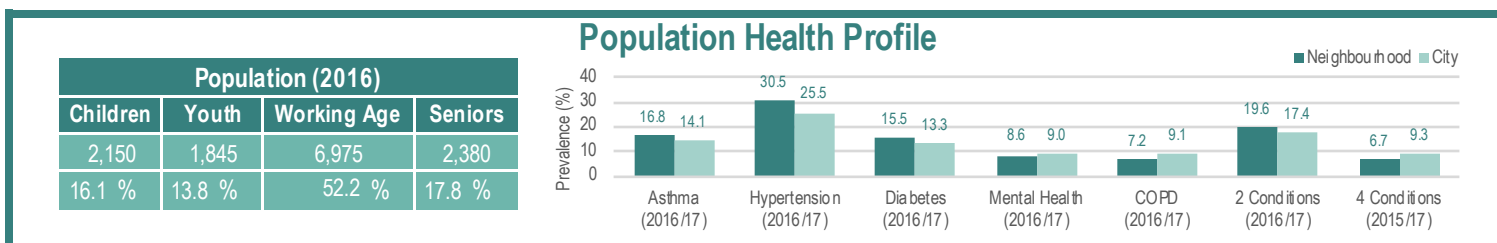
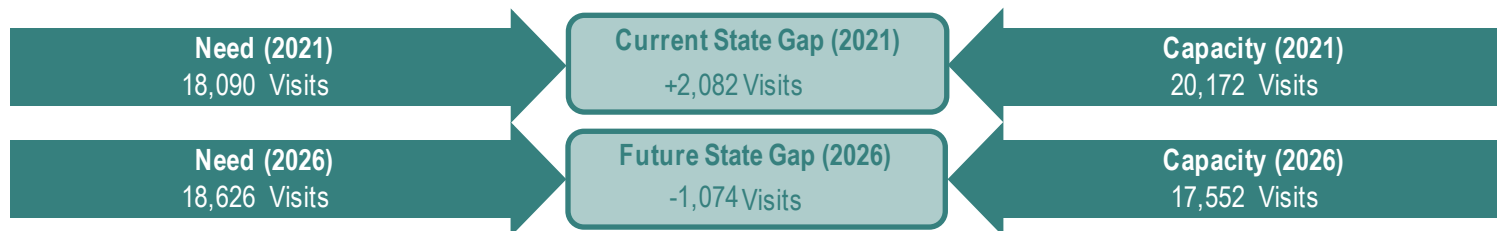
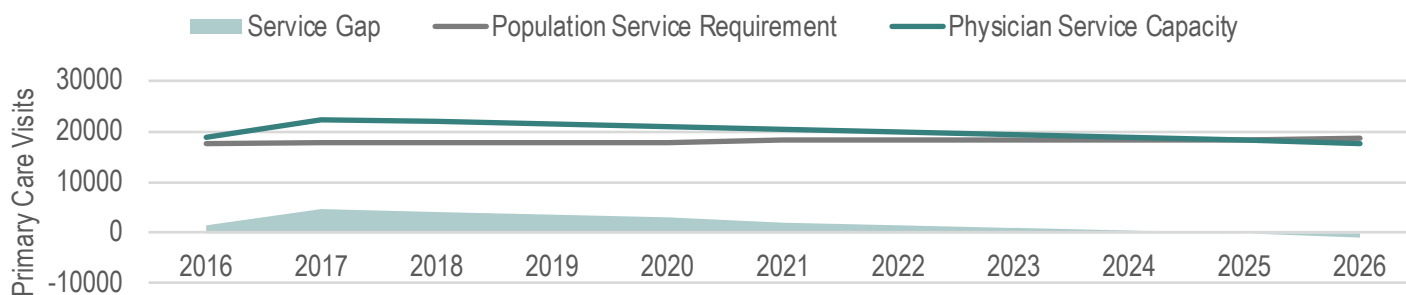
2016	43
2017	40

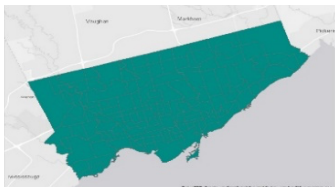
	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	149,557	138,709	128,574	126,588	114,817	103,888	111,710
Comprehensive Care Physicians' At-Risk Service Capacity	50,664	53,433	55,489	49,396	53,221	56,824	41,832
Non-Comprehensive Care Physicians' Service Capacity	1,225						
Total Service Capacity	201,446	193,367	185,288	177,209	169,263	161,937	154,767



Primary Care Workforce Planning

Neighbourhood Profile: Centennial Scarborough





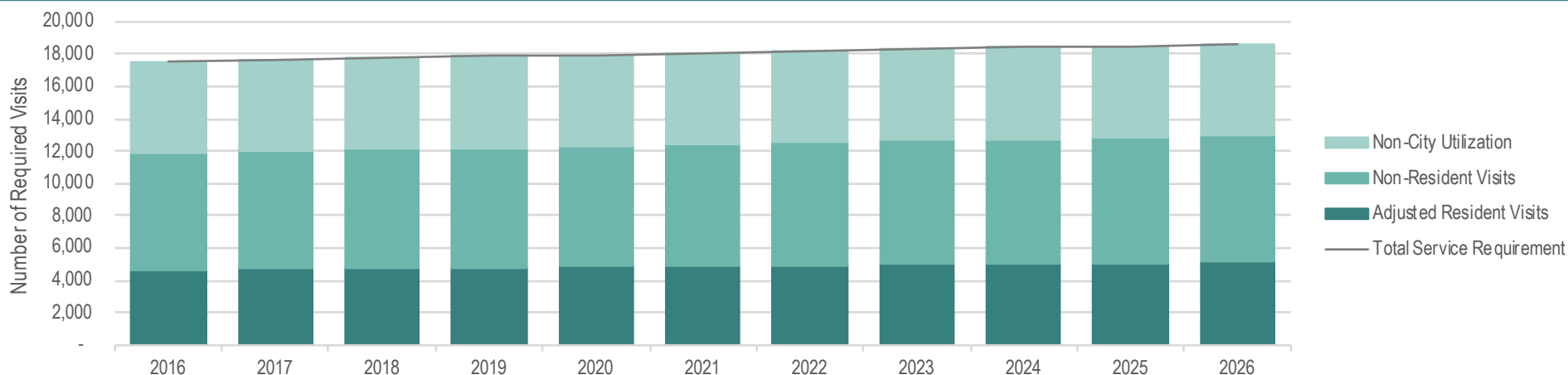
Primary Care Workforce Planning

Service Requirements Module: Centennial Scarborough

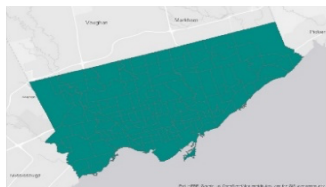
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	14,773	14,909	15,045	15,180	15,316	15,452	15,588	15,724	15,859	15,995	16,131
Resident Visits	54,016	54,727	55,010	55,506	56,003	56,499	56,996	57,492	57,989	58,485	58,982
Proportion of Care Accessed Within Home Neighbourhood	8.7%										
Resident Visits Adjusted for Spatial Patterns of Utilization	4,699	4,761	4,786	4,829	4,872	4,915	4,959	5,002	5,045	5,088	5,131
Non-Resident Visits	7,203	7,274	7,331	7,395	7,459	7,523	7,586	7,650	7,714	7,778	7,842
Non-City Utilization	5,652										
Total Service Requirement	17,554	17,687	17,769	17,876	17,983	18,090	18,197	18,304	18,411	18,519	18,626



Primary Care Workforce Planning

Service Capacity Module: Centennial Scarborough

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

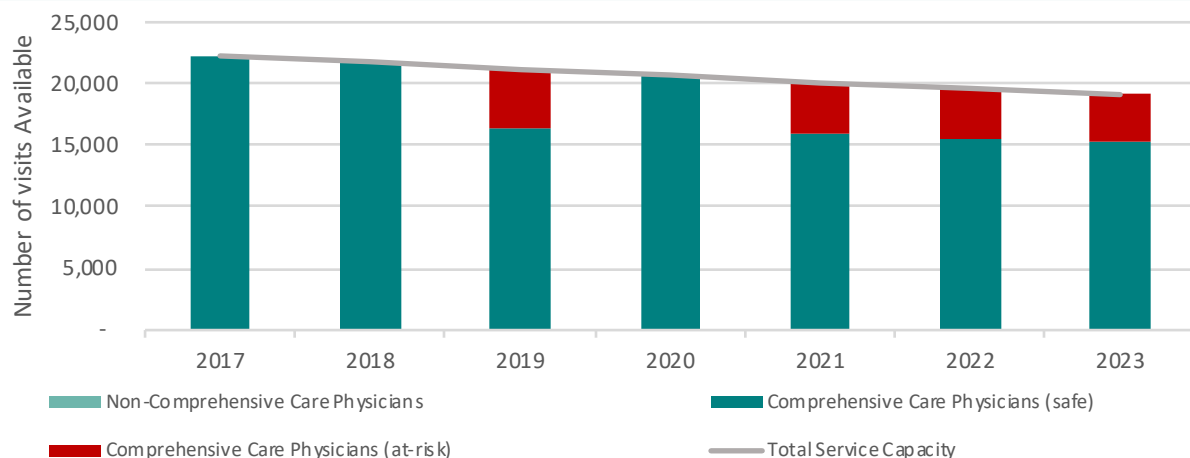
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



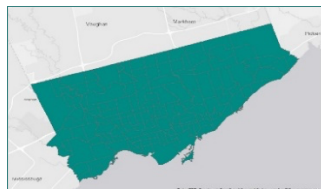
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	25	12	6
Dietitians	0	0	1
Midwives	0	0	0
NPs	0	0	0
OTs	11	11	11
Optometrists	0	25	37
Pharmacists	18	21	63
PTs	90	74	9
Psychologists	0	0	0
RNs	122	98	114
RPNs	428	351	417
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

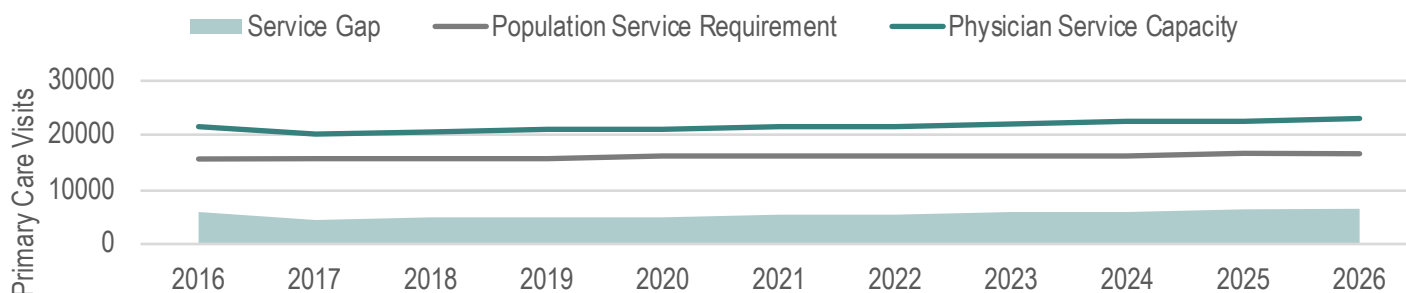
2016	(1-5)
2017	(1-5)

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	22,268	21,744	16,447	20,696	15,867	15,577	15,287
Comprehensive Care Physicians' At-Risk Service Capacity	0	0	4,773	0	4,305	4,071	3,837
Non-Comprehensive Care Physicians' Service Capacity	0						
Total Service Capacity	22,268	21,744	21,220	20,696	20,172	19,648	19,124



Primary Care Workforce Planning

Neighbourhood Profile: Highland Creek



Need (2021)
16,112 Visits

Current State Gap (2021)
+5,369 Visits

Capacity (2021)
21,481 Visits

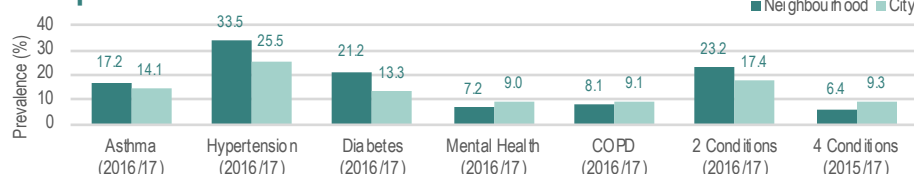
Need (2026)
16,594 Visits

Future State Gap (2026)
+6,477 Visits

Capacity (2026)
23,071 Visits

Population (2016)			
Children	Youth	Working Age	Seniors
1,550	1,920	6,635	2,410
12.4 %	15.3 %	53.0 %	19.3 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	12,494	Neigh: 0.06 % - 0.09 %
2021	12,546 - 12,552	City: 1.60 % - 2.50 %
2026	12,598 - 12,610	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	2	4
Residential Instability	1	5
Dependency	5	1
Ethnic Concentration	3	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 12,749 Non-Resident Visits

Yearly Outgoing Demand: 46,044 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	76.5	71.6
ACSC Hospitalization / 100,000	196.4	244.4
Low Urgency ED (%)	70.8	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	(1-5)			0	0	0	0	0	0	102	0	0	1	4	0	0
2017	(1-5)			0	0	0	0	0	0	83	44	0	1	0	0	0
2017	(1-5)			0	1	0	0	0	0	47	6	0	4	0	0	6



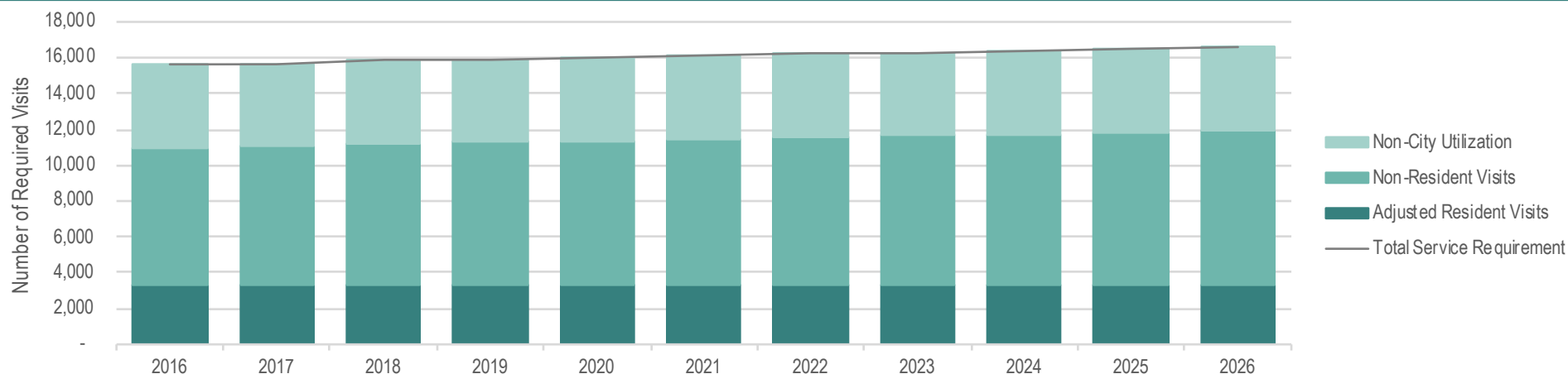
Primary Care Workforce Planning

Service Requirements Module: Highland Creek

Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	13,188	13,199	13,210	13,221	13,232	13,244	13,255	13,266	13,277	13,288	13,299
Resident Visits	49,197	49,224	49,280	49,322	49,363	49,405	49,446	49,487	49,529	49,570	49,612
Proportion of Care Accessed Within Home Neighbourhood	6.8%										
Resident Visits Adjusted for Spatial Patterns of Utilization	3,345	3,347	3,351	3,354	3,357	3,360	3,362	3,365	3,368	3,371	3,374
Non-Resident Visits	7,638	7,687	7,826	7,919	8,013	8,107	8,200	8,294	8,388	8,481	8,575
Non-City Utilization	4,646										
Total Service Requirement	15,630	15,680	15,823	15,919	16,016	16,112	16,209	16,305	16,402	16,498	16,594



Primary Care Workforce Planning

Service Capacity Module: Highland Creek

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

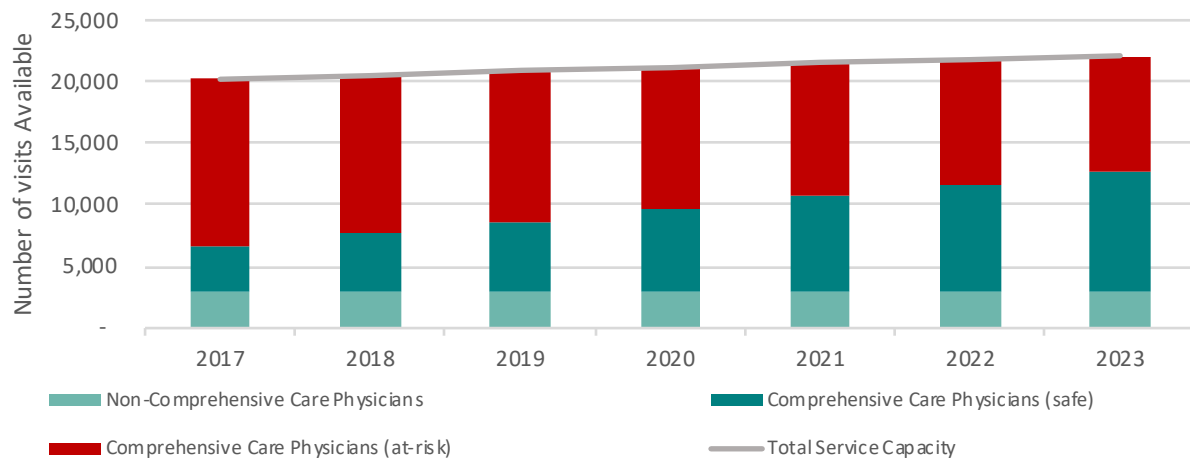
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



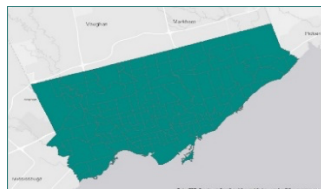
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	0	0	0
Dieticians	0	0	1
Midwives	0	0	0
NPs	0	0	0
OTs	0	0	0
Optometrists	0	0	0
Pharmacists	102	83	47
PTs	0	44	6
Psychologists	0	0	0
RNs	1	1	4
RPNs	4	0	0
RTs	0	0	0
SLPs	0	0	6

Number of Comprehensive Primary Care Physicians

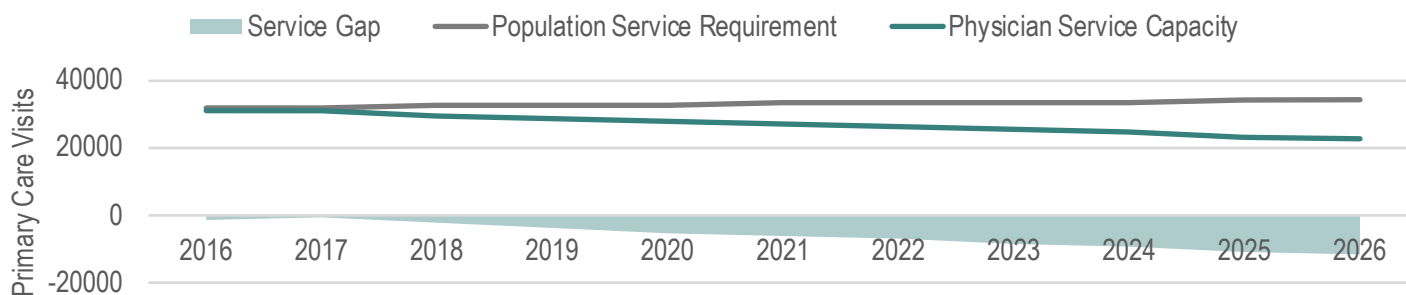
2016	(1-5)
2017	(1-5)

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	3,748	4,749	5,750	6,751	7,752	8,753	9,754
Comprehensive Care Physicians' At-Risk Service Capacity	13,528	12,845	12,162	11,479	10,796	10,113	9,430
Non-Comprehensive Care Physicians' Service Capacity	2,933						
Total Service Capacity	20,209	20,527	20,845	21,163	21,481	21,799	22,117



Primary Care Workforce Planning

Neighbourhood Profile: Morningside



Need (2021)
33,152 Visits

Current State Gap (2021)
-6,235 Visits

Capacity (2021)
26,917 Visits

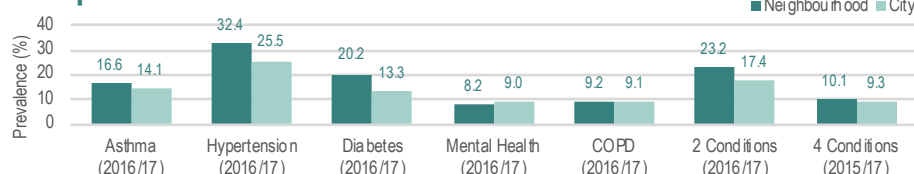
Need (2026)
34,376 Visits

Future State Gap (2026)
-11,614 Visits

Capacity (2026)
22,762 Visits

Population (2016)			
Children	Youth	Working Age	Seniors
2,875	2,655	9,235	2,695
16.5 %	15.2 %	52.9 %	15.4 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	17,455	Neigh: 0.06 % - 0.09 % City: 1.60 % - 2.50 %
2021	17,530 - 17,535	
2026	17,604 - 17,615	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	4	4
Residential Instability	2	5
Dependency	3	1
Ethnic Concentration	4	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 29,688 Non-Resident Visits

Yearly Outgoing Demand: 64,208 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	72.8	71.6
ACSC Hospitalization / 100,000	225.6	244.4
Low Urgency ED (%)	87.1	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	6			11	54	0	14	18	0	208	118	0	548	991	0	13
2017	(1-5)			17	35	0	0	18	16	222	45	0	624	1,095	0	13
2018				42	48	0	12	0	22	41	0	0	618	1,295	0	0



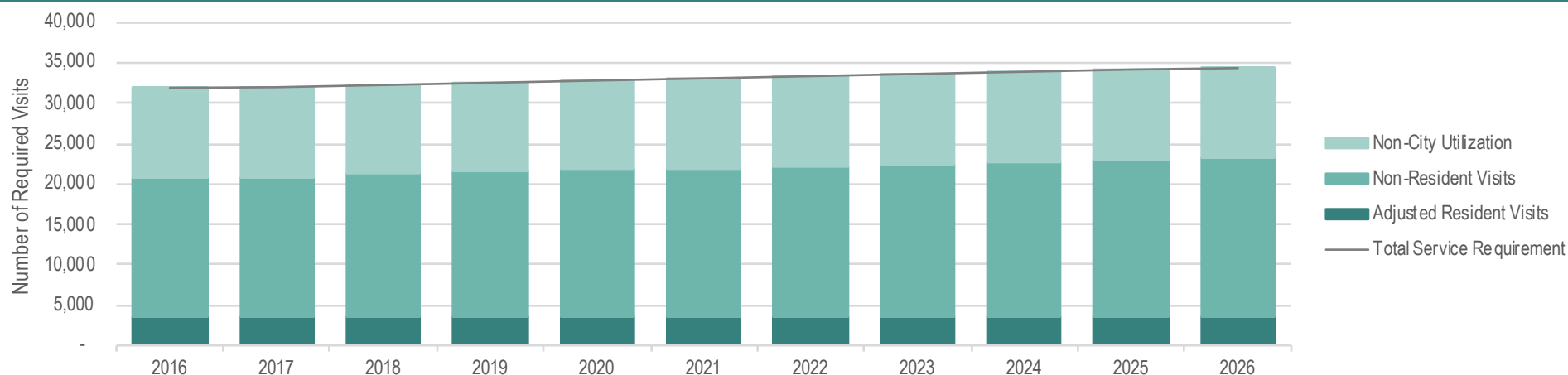
Primary Care Workforce Planning

Service Requirements Module: Morningside

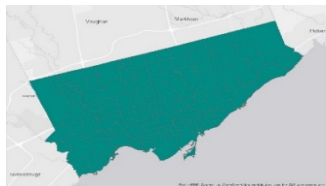
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
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- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	17,807	17,823	17,839	17,855	17,871	17,887	17,903	17,919	17,935	17,951	17,967
Resident Visits	67,361	67,368	67,482	67,543	67,603	67,664	67,724	67,785	67,845	67,906	67,966
Proportion of Care Accessed Within Home Neighbourhood	5.1%										
Resident Visits Adjusted for Spatial Patterns of Utilization	3,435	3,436	3,442	3,445	3,448	3,451	3,454	3,457	3,460	3,463	3,466
Non-Resident Visits	17,346	17,437	17,829	18,070	18,312	18,553	18,795	19,037	19,278	19,520	19,761
Non-City Utilization	11,148										
Total Service Requirement	31,929	32,021	32,418	32,663	32,908	33,152	33,397	33,642	33,886	34,131	34,376



Primary Care Workforce Planning

Service Capacity Module: Morningside

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

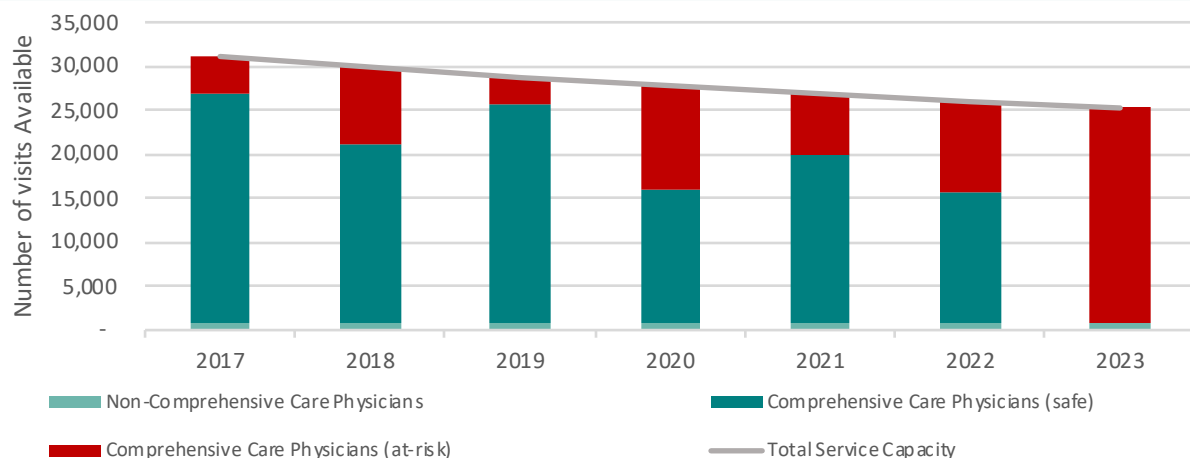
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

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Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

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Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



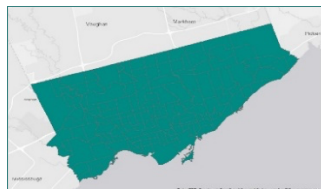
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiroprodists	11	17	42
Dieticians	54	35	48
Midwives	0	0	0
NPs	14	0	12
OTs	18	18	0
Optometrists	0	16	22
Pharmacists	208	222	41
PTs	118	45	0
Psychologists	0	0	0
RNs	548	624	618
RPNs	991	1,095	1,295
RTs	0	0	0
SLPs	13	13	0

Number of Comprehensive Primary Care Physicians

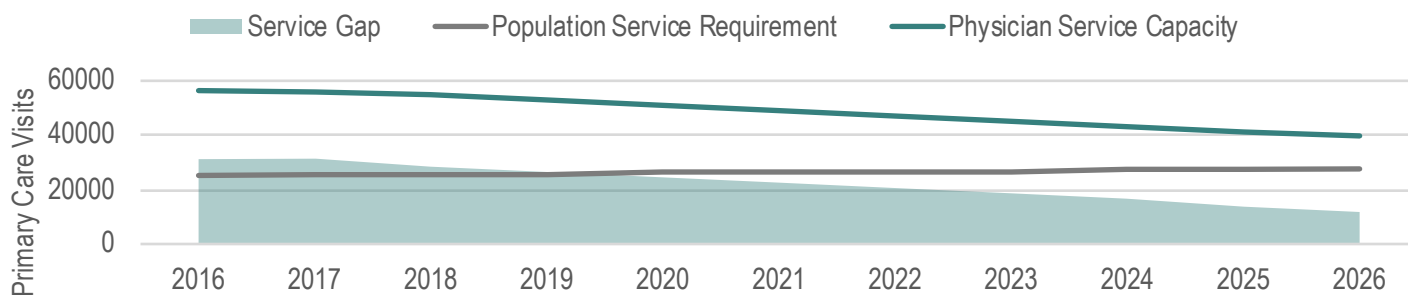
2016	6
2017	(1-5)

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	25,913	20,119	24,751	14,954	19,162	14,670	0
Comprehensive Care Physicians' At-Risk Service Capacity	4,322	8,888	3,028	11,919	6,880	10,541	24,380
Non-Comprehensive Care Physicians' Service Capacity	875						
Total Service Capacity	31,110	29,882	28,654	27,748	26,917	26,086	25,255



Primary Care Workforce Planning

Neighbourhood Profile: West Hill



Need (2021)
26,408 Visits

Current State Gap (2021)
+22,564 Visits

Capacity (2021)
48,972 Visits

Need (2026)
27,610 Visits

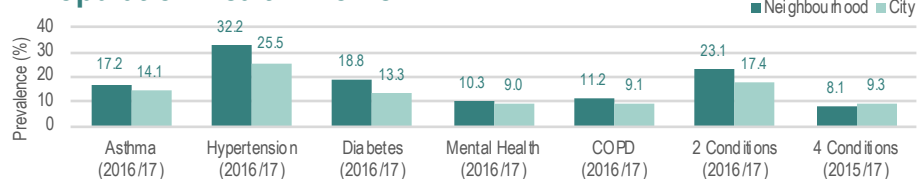
Future State Gap (2026)
+12,132 Visits

Capacity (2026)
39,742 Visits

Population (2016)

Children	Youth	Working Age	Seniors
4,665	3,930	14,575	4,210
17.0 %	14.4 %	53.2 %	15.4 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	27,392	Neigh: 0.45 % - 0.71 % City: 1.60 % - 2.50 %
2021	28,264 - 28,359	
2026	29,135 - 29,325	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	5	4
Residential Instability	2	5
Dependency	4	1
Ethnic Concentration	4	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 21,337 Non-Resident Visits

Yearly Outgoing Demand: 102,579 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	73.2	71.6
ACSC Hospitalization / 100,000	311.6	244.4
Low Urgency ED (%)	88.1	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	12		2016	32	6	0	0	0	0	451	69	0	168	180	0	0
2017	9		2017	36	0	0	0	0	30	479	60	0	167	207	0	0
			2018	46	5	0	0	0	43	104	36	0	135	219	0	0



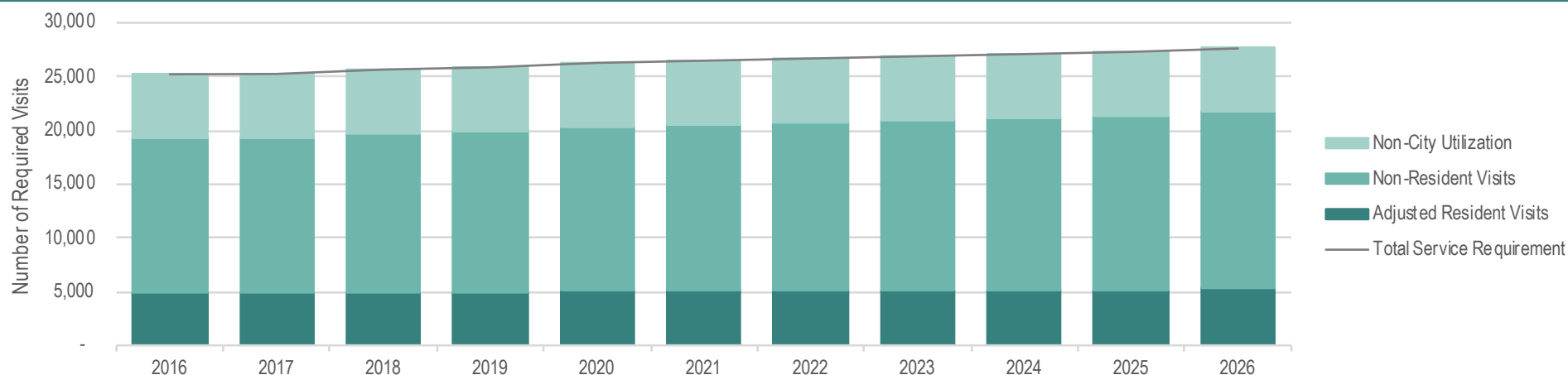
Primary Care Workforce Planning

Service Requirements Module: West Hill

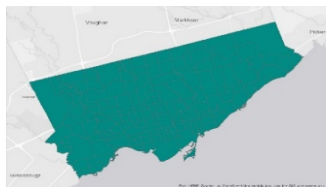
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
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- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	27,278	27,469	27,660	27,850	28,041	28,232	28,423	28,614	28,804	28,995	29,186
Resident Visits	103,988	104,856	105,443	106,171	106,898	107,625	108,353	109,080	109,807	110,535	111,262
Proportion of Care Accessed Within Home Neighbourhood	4.7%										
Resident Visits Adjusted for Spatial Patterns of Utilization	4,887	4,928	4,956	4,990	5,024	5,058	5,093	5,127	5,161	5,195	5,229
Non-Resident Visits	14,390	14,453	14,802	15,008	15,214	15,421	15,627	15,833	16,039	16,245	16,451
Non-City Utilization	5,929										
Total Service Requirement	25,206	25,310	25,687	25,927	26,168	26,408	26,648	26,889	27,129	27,369	27,610



Primary Care Workforce Planning

Service Capacity Module: West Hill

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

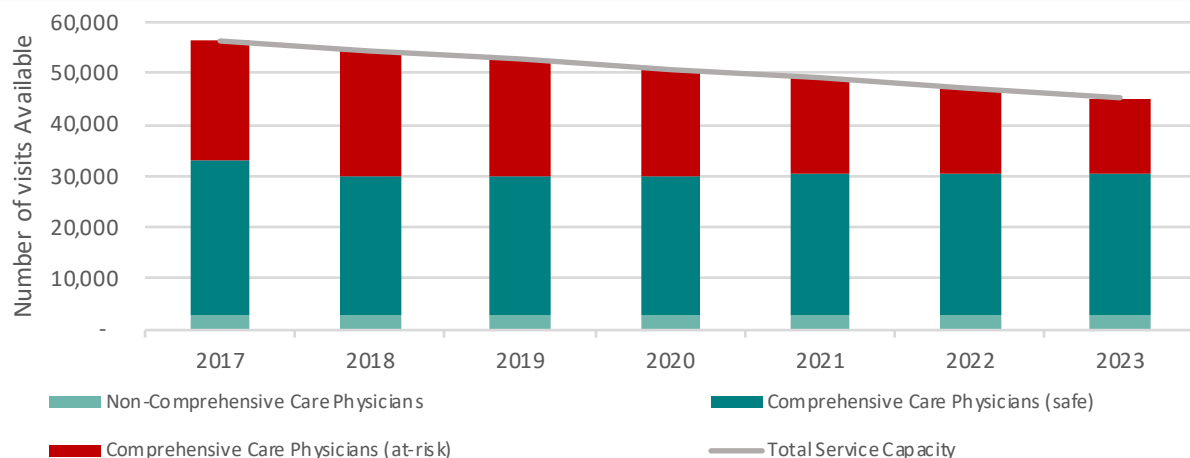
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

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Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

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Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



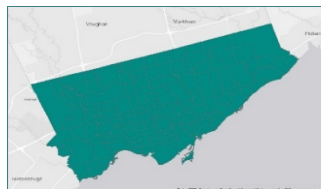
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	32	36	46
Dieticians	6	0	5
Midwives	0	0	0
NPs	0	0	0
OTs	0	0	0
Optometrists	0	30	43
Pharmacists	451	479	104
PTs	69	60	36
Psychologists	0	0	0
RNs	168	167	135
RPNs	180	207	219
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

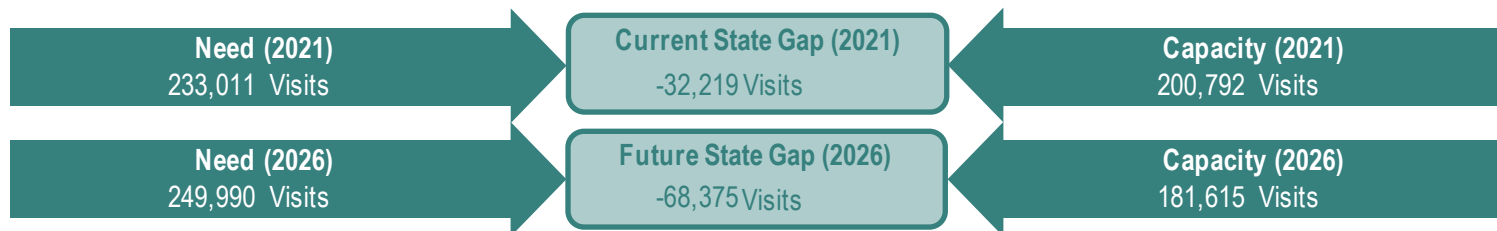
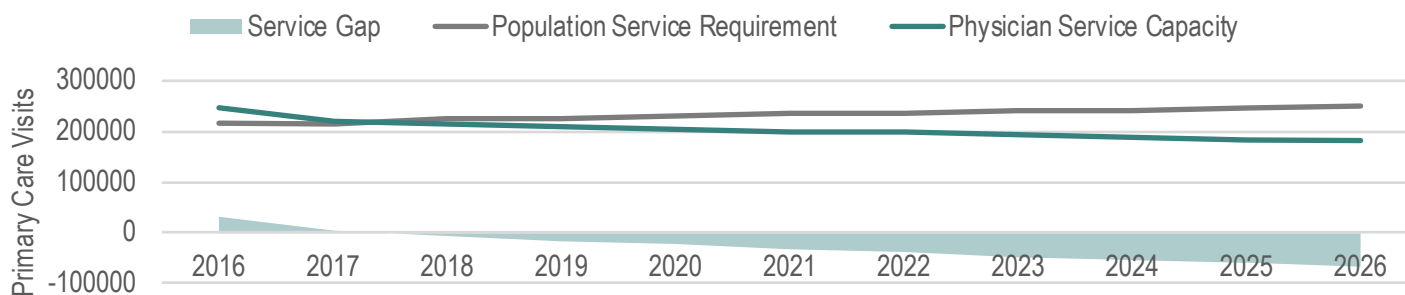
2016	12
2017	9

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	30,043	27,256	27,324	27,392	27,460	27,528	27,596
Comprehensive Care Physicians' At-Risk Service Capacity	23,523	24,464	22,550	20,636	18,722	16,808	14,894
Non-Comprehensive Care Physicians' Service Capacity	2,790						
Total Service Capacity	56,356	54,510	52,664	50,818	48,972	47,126	45,280



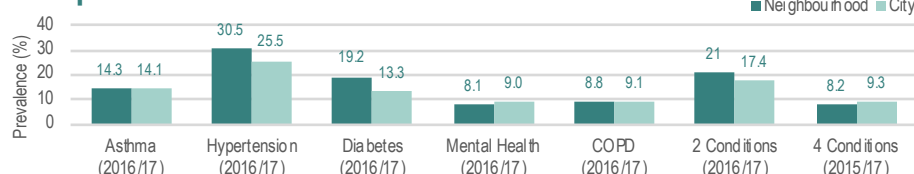
Primary Care Workforce Planning

Neighbourhood Profile: Woburn



Population (2016)			
Children	Youth	Working Age	Seniors
9,650	7,695	28,120	8,020
18.0 %	14.4 %	52.6 %	15.0 %

Population Health Profile



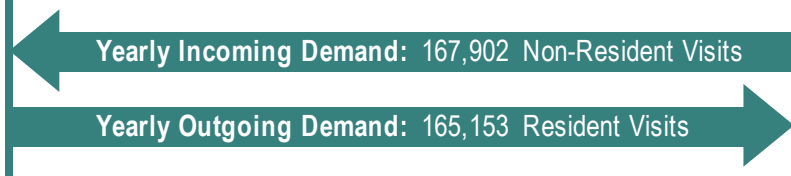
Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	53,485	Neigh: 2.12 % - 3.33 % City: 1.60 % - 2.50 %
2021	61,421 - 62,395	
2026	69,356 - 71,305	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	5	4
Residential Instability	2	5
Dependency	4	1
Ethnic Concentration	5	5

Spatial Patterns of Utilization



Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	67.9	71.6
ACSC Hospitalization / 100,000	262.9	244.4
Low Urgency ED (%)	69.1	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	41		2016	109	0	0	201	152	0	1,013	228	5	577	936	0	5
2017	34		2017	90	40	0	232	170	197	1,053	253	5	573	1,016	42	15
			2018	103	26	0	240	129	211	618	64	5	625	989	55	26



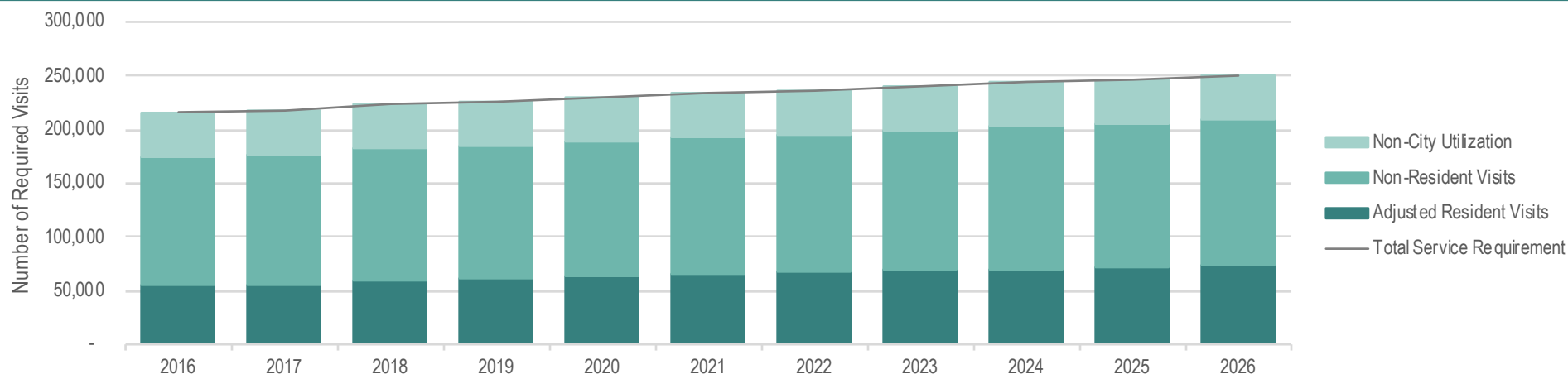
Primary Care Workforce Planning

Service Requirements Module: Woburn

Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	53,920	55,672	57,423	59,175	60,926	62,678	64,429	66,181	67,932	69,684	71,435
Resident Visits	198,388	198,328	211,277	217,721	224,166	230,610	237,054	243,498	249,943	256,387	262,831
Proportion of Care Accessed Within Home Neighbourhood	28.2%										
Resident Visits Adjusted for Spatial Patterns of Utilization	55,946	55,929	59,580	61,397	63,215	65,032	66,849	68,667	70,484	72,301	74,118
Non-Resident Visits	119,183	119,909	122,340	123,919	125,497	127,075	128,654	130,232	131,811	133,389	134,968
Non-City Utilization	40,904										
Total Service Requirement	216,033	216,741	222,824	226,220	229,616	233,011	236,407	239,803	243,199	246,594	249,990



Primary Care Workforce Planning

Service Capacity Module: Woburn

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

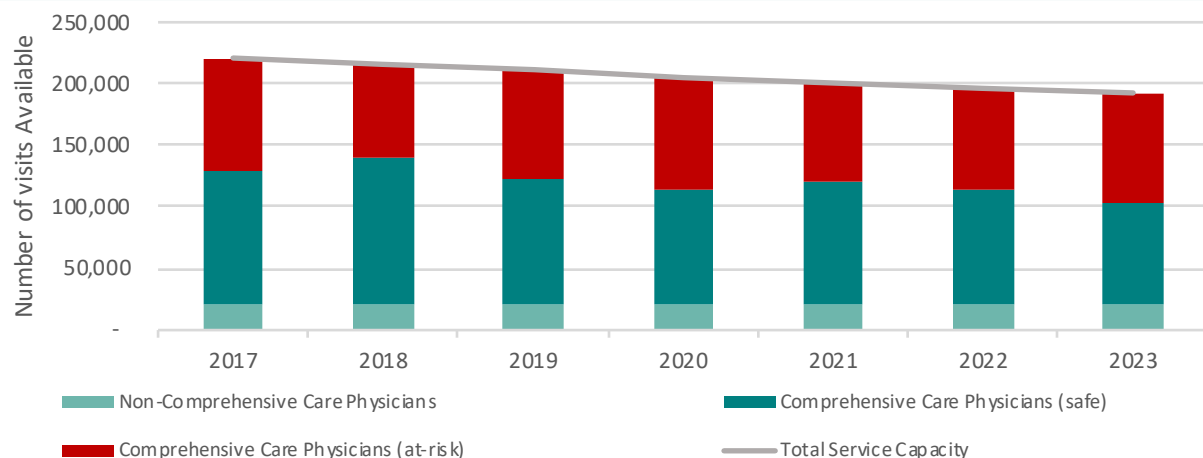
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



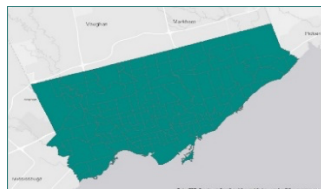
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiroprodists	109	90	103
Dieticians	0	40	26
Midwives	0	0	0
NPs	201	232	240
OTs	152	170	129
Optometrists	0	197	211
Pharmacists	1,013	1,053	618
PTs	228	253	64
Psychologists	5	5	5
RNs	577	573	625
RPNs	936	1,016	989
RTs	0	42	55
SLPs	5	15	26

Number of Comprehensive Primary Care Physicians

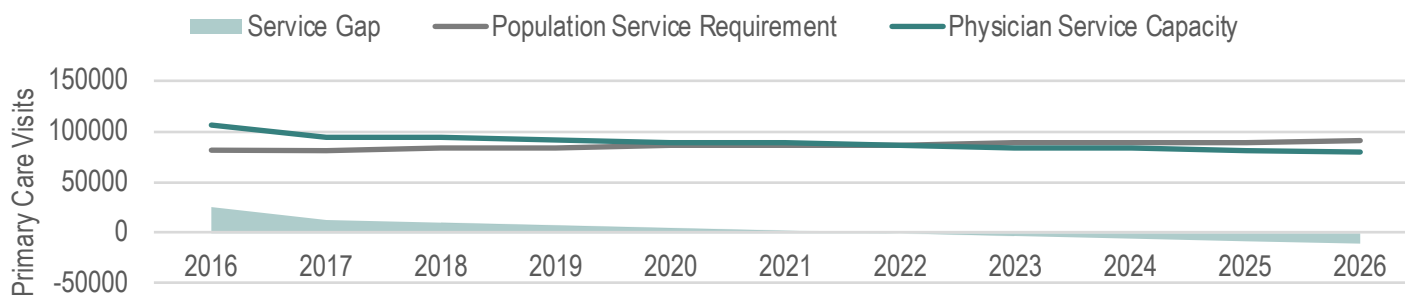
2016	41
2017	34

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	108,946	120,940	101,781	93,099	100,241	93,855	83,476
Comprehensive Care Physicians' At-Risk Service Capacity	91,942	74,818	88,847	92,399	80,487	82,448	89,077
Non-Comprehensive Care Physicians' Service Capacity	20,064						
Total Service Capacity	220,952	215,822	210,692	205,562	200,792	196,367	192,617



Primary Care Workforce Planning

Neighbourhood Profile: Eglinton East



Need (2021)
86,015 Visits

Current State Gap (2021)
+1,988 Visits

Capacity (2021)
88,003 Visits

Need (2026)
90,769 Visits

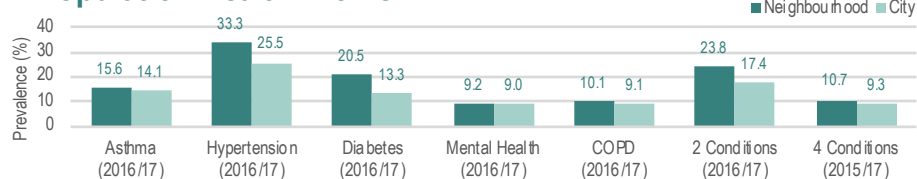
Future State Gap (2026)
-11,356 Visits

Capacity (2026)
79,413 Visits

Population (2016)

Children	Youth	Working Age	Seniors
4,180	3,130	11,965	3,495
18.3 %	13.7 %	52.5 %	15.3 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	22,776	Neigh: 0.29 % - 0.45 %
2021	23,245 - 23,293	City: 1.60 % - 2.50 %
2026	23,713 - 23,810	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	5	4
Residential Instability	3	5
Dependency	3	1
Ethnic Concentration	5	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 73,223 Non-Resident Visits

Yearly Outgoing Demand: 76,299 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	71.5	71.6
ACSC Hospitalization / 100,000	366.4	244.4
Low Urgency ED (%)	78.1	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	13															
2017	11															
2018																
2016	13		2016	17	30	392	28	0	0	304	18	0	357	916	0	0
2017	11		2017	13	16	288	26	0	0	218	24	0	481	1,058	0	0
			2018	18	13	213	53	0	0	66	0	0	447	940	0	0



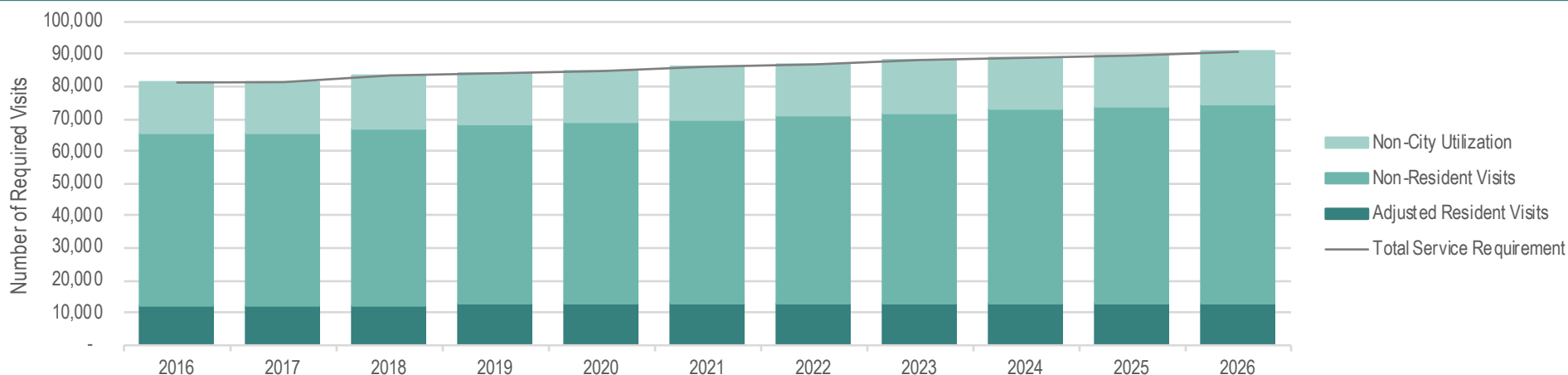
Primary Care Workforce Planning

Service Requirements Module: Eglinton East

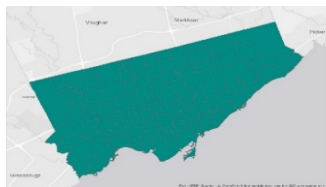
Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	22,872	22,974	23,076	23,178	23,280	23,382	23,483	23,585	23,687	23,789	23,891
Resident Visits	87,143	86,939	87,920	88,308	88,696	89,085	89,473	89,861	90,249	90,638	91,026
Proportion of Care Accessed Within Home Neighbourhood	14.3%										
Resident Visits Adjusted for Spatial Patterns of Utilization	12,462	12,432	12,573	12,628	12,684	12,739	12,795	12,850	12,906	12,961	13,017
Non-Resident Visits	52,875	53,187	54,665	55,560	56,456	57,351	58,246	59,141	60,036	60,932	61,827
Non-City Utilization	15,925										
Total Service Requirement	81,261	81,544	83,163	84,113	85,064	86,015	86,966	87,916	88,867	89,818	90,769



Primary Care Workforce Planning

Service Capacity Module: Eglinton East

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

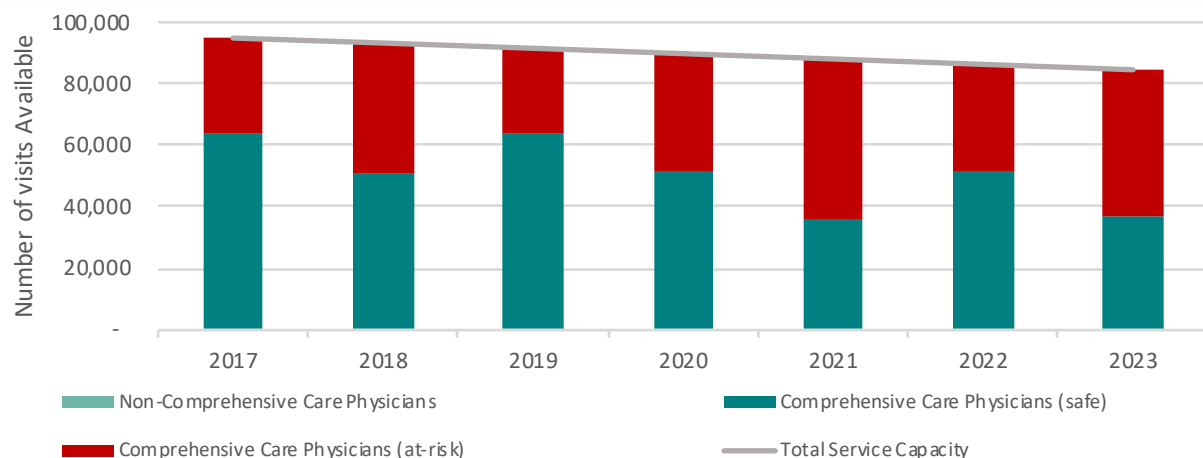
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



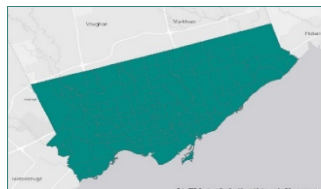
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiroprodists	17	13	18
Dieticians	30	16	13
Midwives	392	288	213
NPs	28	26	53
OTs	0	0	0
Optometrists	0	0	0
Pharmacists	304	218	66
PTs	18	24	0
Psychologists	0	0	0
RNs	357	481	447
RPNs	916	1,058	940
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

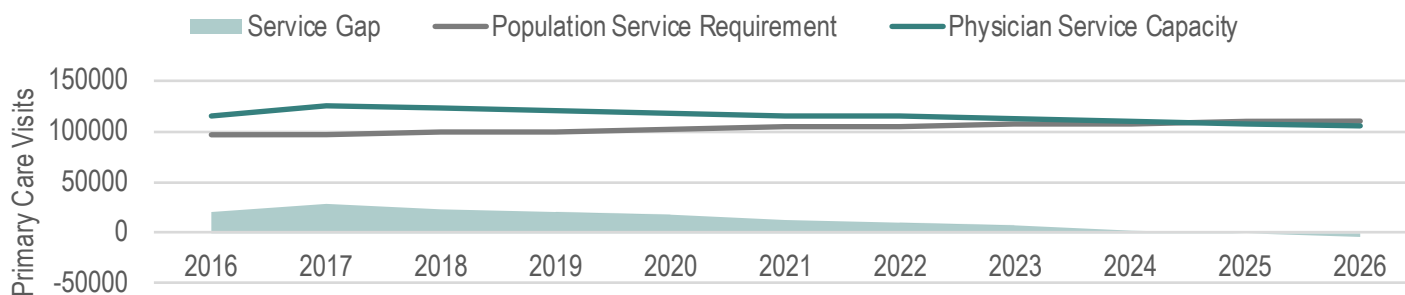
2016	13
2017	11

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	63,612	50,910	63,306	51,128	35,819	51,346	36,391
Comprehensive Care Physicians' At-Risk Service Capacity	30,935	41,919	27,805	38,265	51,856	34,611	47,848
Non-Comprehensive Care Physicians' Service Capacity	328						
Total Service Capacity	94,875	93,157	91,439	89,721	88,003	86,285	84,567



Primary Care Workforce Planning

Neighbourhood Profile: Scarborough Village



Need (2021)
103,294 Visits

Current State Gap (2021)
+13,098 Visits

Capacity (2021)
116,392 Visits

Need (2026)
110,070 Visits

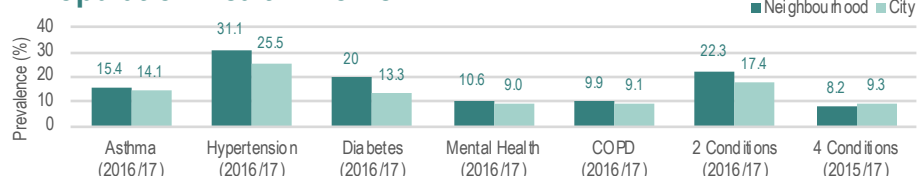
Future State Gap (2026)
-4,728 Visits

Capacity (2026)
105,342 Visits

Population (2016)

Children	Youth	Working Age	Seniors
3,360	2,375	8,755	2,235
20.1 %	14.2 %	52.3 %	13.4 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	16,724	Neigh: 1.42 % - 2.21 % City: 1.60 % - 2.50 %
2021	18,381 - 18,575	
2026	20,038 - 20,425	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	5	4
Residential Instability	3	5
Dependency	3	1
Ethnic Concentration	5	5

Spatial Patterns of Utilization

← **Yearly Incoming Demand:** 75,130 Non-Resident Visits

Yearly Outgoing Demand: 55,037 Resident Visits →

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	72.6	71.6
ACSC Hospitalization / 100,000	308.6	244.4
Low Urgency ED (%)	77.8	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiroprodists	Dieticians	Midwives	NPs	OTs	Optometristis	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
			2016	10	0	0	0	0	0	747	94	0	16	110	0	0
2016	22		2017	10	0	0	0	0	115	733	90	0	43	82	0	0
2017	18		2018	0	0	0	0	0	131	196	46	0	10	110	0	0
			2019	0	0	0	0	0	131	196	46	0	10	110	0	0



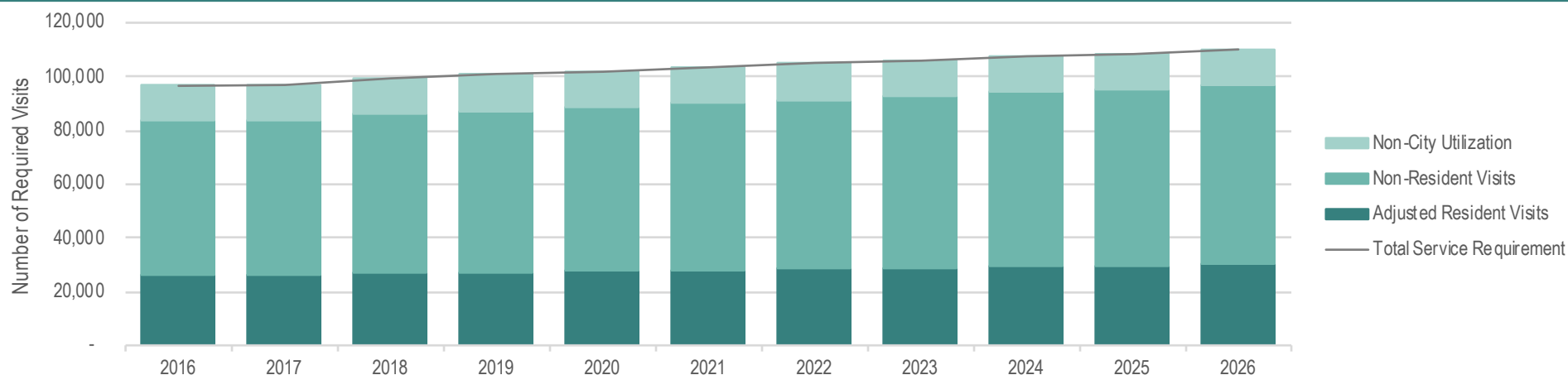
Primary Care Workforce Planning

Service Requirements Module: Scarborough Village

Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
+
- 2 - Non-Resident Visits:** Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
+
- 3 - Non-City Utilization:** Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	20,904	21,268	21,632	21,996	22,360	22,725	23,089	23,453	23,817	24,181	24,545
Resident Visits	76,479	77,777	79,144	80,476	81,808	83,140	84,472	85,804	87,136	88,468	89,800
Proportion of Care Accessed Within Home Neighbourhood	33.8%										
Resident Visits Adjusted for Spatial Patterns of Utilization	25,850	26,289	26,751	27,201	27,651	28,101	28,552	29,002	29,452	29,902	30,353
Non-Resident Visits	57,462	57,683	59,272	60,177	61,082	61,988	62,893	63,798	64,703	65,608	66,513
Non-City Utilization	13,205										
Total Service Requirement	96,517	97,177	99,228	100,583	101,939	103,294	104,649	106,004	107,360	108,715	110,070



Primary Care Workforce Planning

Service Capacity Module: Scarborough Village

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

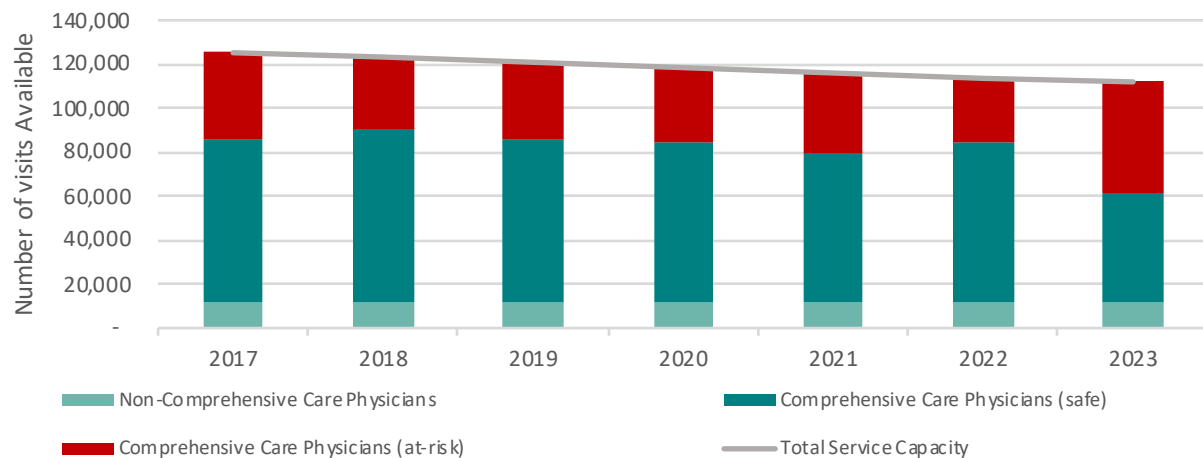
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



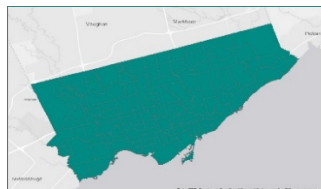
Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	10	10	0
Dieticians	0	0	0
Midwives	0	0	0
NPs	0	0	0
OTs	0	0	0
Optometrists	0	115	131
Pharmacists	747	733	196
PTs	94	90	46
Psychologists	0	0	0
RNs	16	43	10
RPNs	110	82	110
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

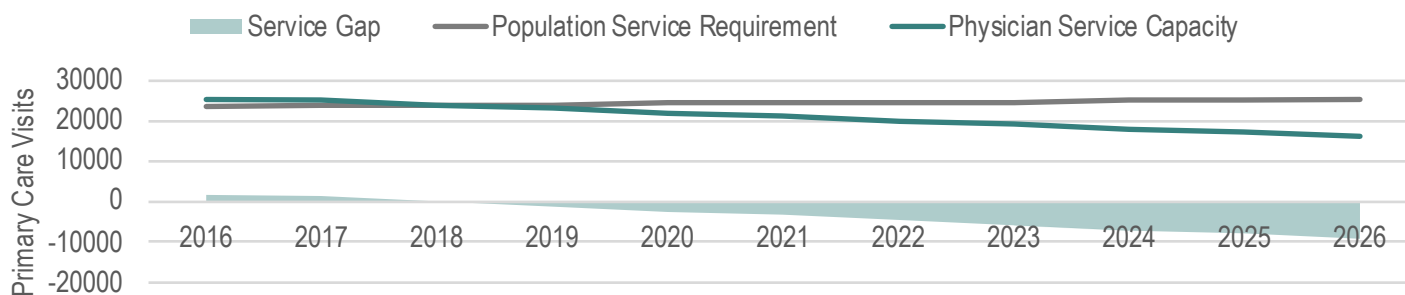
2016	22
2017	18

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	74,381	78,770	73,859	73,598	68,633	73,076	50,399
Comprehensive Care Physicians' At-Risk Service Capacity	39,552	32,953	35,654	33,705	36,460	29,807	50,274
Non-Comprehensive Care Physicians' Service Capacity	11,299						
Total Service Capacity	125,232	123,022	120,812	118,602	116,392	114,182	111,972



Primary Care Workforce Planning

Neighbourhood Profile: Guildwood



Need (2021)
24,510 Visits

Current State Gap (2021)
-3,401 Visits

Capacity (2021)
21,109 Visits

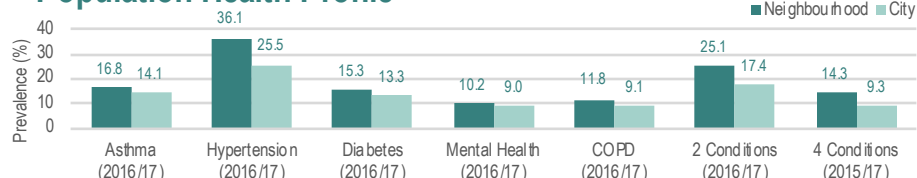
Need (2026)
25,382 Visits

Future State Gap (2026)
-9,133 Visits

Capacity (2026)
16,249 Visits

Population (2016)			
Children	Youth	Working Age	Seniors
1,300	1,080	4,900	2,635
13.1 %	10.9 %	49.4 %	26.6 %

Population Health Profile



Population Growth

Year	Population Estimates (Low-High)	Estimated Yearly Growth
2016	9,917	Neigh: 0.51 % - 0.80 % City: 1.60 % - 2.50 %
2021	10,273 - 10,316	
2026	10,629 - 10,715	

Ontario Marginalization Index (2016)

Indicator	Neigh. Quintile	City Quintile
Material Deprivation	2	4
Residential Instability	1	5
Dependency	5	1
Ethnic Concentration	1	5

Spatial Patterns of Utilization

Yearly Incoming Demand: 15,089 Non-Resident Visits

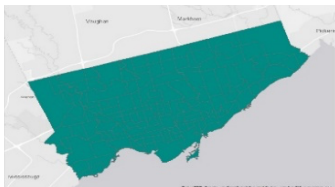
Yearly Outgoing Demand: 36,472 Resident Visits

Unmet Need for Primary Care

Indicator	Neigh.	City
PEM Attachment (%)	79.6	71.6
ACSC Hospitalization / 100,000	254.1	244.4
Low Urgency ED (%)	70.4	81.5

Primary Care Workforce Profile

Number of Comprehensive Primary Care Physicians		Average Weekly Hours Available	Year	Chiropractors	Dietitians	Midwives	NPs	OTs	Optometrists	Pharmacists	PTs	Psychologists	RNs	RPNs	RTs	SLPs
2016	(1-5)			9	15	0	0	0	0	42	18	0	334	597	0	0
2017	(1-5)			7	32	0	0	0	0	70	18	0	330	520	0	0
2017	(1-5)			6	33	0	6	0	0	34	12	0	309	486	0	0



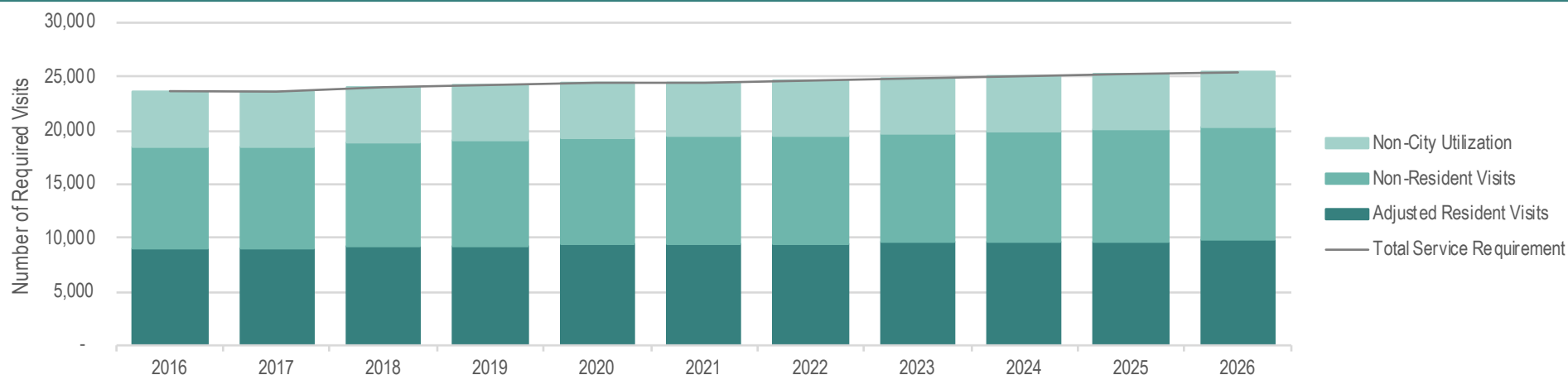
Primary Care Workforce Planning

Service Requirements Module: Guildwood

Examine the Sources of Service Requirements at a Neighbourhood Level

Total Service Requirements =

- 1 - Resident Visits:** Number of resident visits expected to be accessed in their neighbourhood of residence based on baseline spatial patterns of utilization
 +
2 - Non-Resident Visits: Number of non-resident visits expected to be accessed in the neighbourhood based on baseline spatial patterns of utilization
 +
3 - Non-City Utilization: Number of visits expected to be utilized by non-city residents in the neighbourhood based on baseline spatial patterns of utilization



	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Number of Residents	10,974	11,053	11,132	11,210	11,289	11,368	11,447	11,526	11,604	11,683	11,762
Resident Visits	44,349	43,966	44,986	45,304	45,623	45,941	46,259	46,578	46,896	47,215	47,533
Proportion of Care Accessed Within Home Neighbourhood	20.5%										
Resident Visits Adjusted for Spatial Patterns of Utilization	9,091	9,013	9,222	9,287	9,353	9,418	9,483	9,548	9,614	9,679	9,744
Non-Resident Visits	9,434	9,513	9,652	9,761	9,870	9,980	10,089	10,198	10,307	10,416	10,526
Non-City Utilization	5,112										
Total Service Requirement	23,637	23,638	23,986	24,161	24,335	24,510	24,684	24,859	25,033	25,207	25,382



Primary Care Workforce Planning

Service Capacity Module: Guildwood

Examine the Sources of Service Capacity at a Neighbourhood Level

Total Service Capacity =

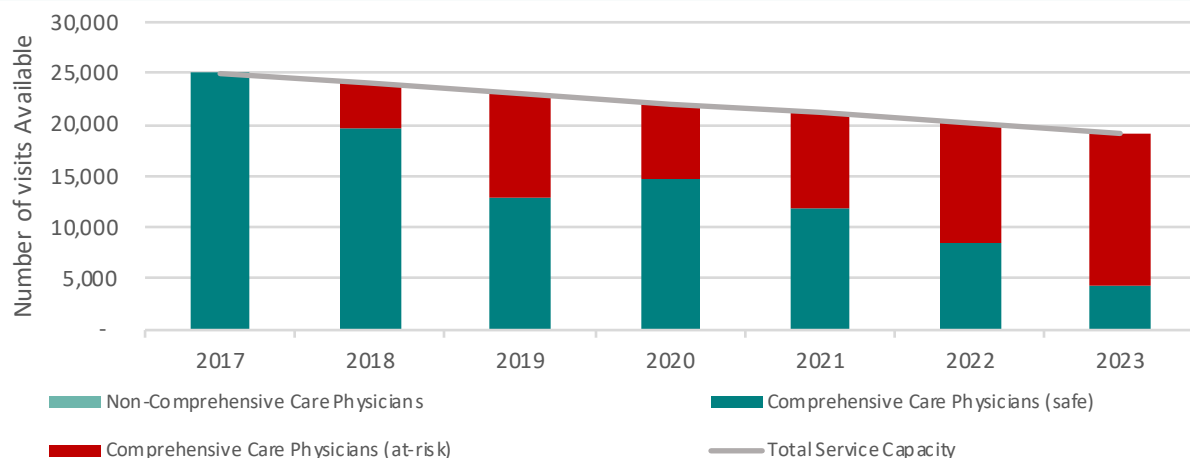
Comprehensive Care Physicians' Safe Service Capacity: Estimated number of services provided by comprehensive care physicians who are not expected to be at risk of exit from the workforce

+

Comprehensive Care Physicians' At-Risk Service Capacity: Estimated number of services provided by comprehensive care physicians who are considered to be at risk of exit from the workforce

+

Service Capacity Generated by Non-Comprehensive Care Physicians: Estimated number of services provided by non-comprehensive care physicians



Allied Health Professionals Average Weekly Hours Available

Profession	2016	2017	2018
Chiropractors	9	7	6
Dieticians	15	32	33
Midwives	0	0	0
NPs	0	0	6
OTs	0	0	0
Optometrists	0	0	0
Pharmacists	42	70	34
PTs	18	18	12
Psychologists	0	0	0
RNs	334	330	309
RPNs	597	520	486
RTs	0	0	0
SLPs	0	0	0

Number of Comprehensive Primary Care Physicians

2016	(1-5)
2017	(1-5)

	2017	2018	2019	2020	2021	2022	2023
Comprehensive Care Physicians' Safe Service Capacity	24,997	19,609	12,849	14,840	11,945	8,506	4,368
Comprehensive Care Physicians' At-Risk Service Capacity	0	4,416	10,204	7,241	9,164	11,631	14,797
Non-Comprehensive Care Physicians' Service Capacity	0						
Total Service Capacity	24,997	24,025	23,053	22,081	21,109	20,137	19,165

Toronto Region Primary Care Workforce Planning Toolkit

Technical Notes – Neighbourhood & Subregion Packages

Project Description

The Toronto Region Primary Care Workforce Planning Toolkit is a fit-for-purpose toolkit to support integrated primary care workforce planning in the Toronto Region. The toolkit is the result of a collaboration between the Health Analytics team at Ontario Health Toronto and consultants from the Canadian Health Workforce Network. A partnership with the City of Toronto, as well as extensive consultation with stakeholders, decision-makers, leaders, and frontline workers in Toronto, informed the development of the toolkit.

The toolkit provides a body of evidence around the current (and projected future) states of population health needs and primary care service provision at a neighbourhood level within the City of Toronto. The goal of the toolkit is to support evidence-based decision-making, particularly with regards to deployment of the primary care workforce and other health system resources. The toolkit looks at population needs and workforce capacity at the neighbourhood, sub-region, and whole city levels. It takes into account variations in population needs, workforce service capacity, and existing assets, and also addresses challenges specific to Toronto, such as patient mobility, anticipated rapid population growth, and physician retirement.

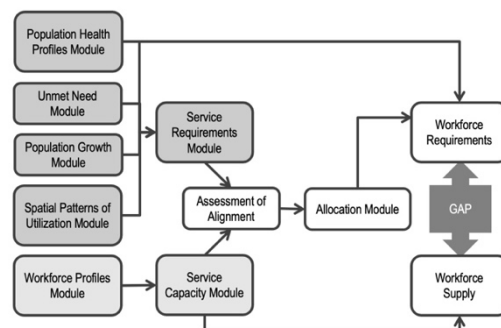
Methodology

The toolkit is composed of a series of modules that assemble information about primary care in the City of Toronto:

- The **Population Health Profiles Module** captures characteristics of the population that impact the need for primary care services.
- The **Population Growth Module** captures neighbourhood-level population growth projections generated by the City of Toronto, allowing us to adjust service requirements to account for anticipated population growth.
- The **Spatial Patterns of Utilization Module** captures a snapshot of primary care utilization patterns and allows us to adjust service requirements to account for patients' care-seeking behaviours.
- The **Unmet Need Module** captures information related to neighbourhood-level unmet healthcare need, which can contribute to an adjustment of service requirements.
- The **Service Requirements Module** estimates primary care service requirements using the CIHI Population Grouping Methodology.
- The **Workforce Profiles Module** captures information about the primary care workforce – including physicians and chiropodists, dieticians, midwives, nurse practitioners, optometrists, occupational therapists, pharmacists, psychologists, physiotherapists, registered nurses, registered practical nurses, respiratory therapists, and speech-language pathologists – practicing in each neighbourhood.
- The **Service Capacity Module** estimates the capacity of the workforce to provide primary care services.

Outputs from these modules are synthesized and summarized in the three static dashboards – Neighbourhood Profiles, Service Requirements, and Service Capacity – that are included in the neighbourhood and subregion packages.

This information is a starting point for local stakeholders wishing to better understand the primary care landscape in their communities. Interpretation of these outputs should consider the local context (factors related to both the community and the local workforce). Engagement and consultation with local stakeholders and frontline healthcare providers are essential parts of the planning process.



Definitions

Sub-Regions: Smaller geographic planning regions within Ontario Regions, developed to help better understand and address patient and population needs at the local level. There are 5 central and 6 peripheral sub-regions in the City of Toronto. One sub-region overlaps with a neighbouring Region and only the part of this sub-region located in Toronto has been included in these analyses. More information about sub-regions is available at <http://www.torontocentrallhin.on.ca/forhsps/subregions.aspx>.

Neighbourhoods: The 140 City of Toronto neighbourhoods were built by the Social Development, Finance & Administration department at the City of Toronto using Statistics Canada Census Tracts. More information about neighbourhoods is available at <https://www.toronto.ca/city-government/data-research-maps/neighbourhoods-communities/neighbourhood-profiles/>.

Comprehensive care physician: Primary care physicians who provide comprehensive care according to the algorithm developed at ICES (<https://www.cmajopen.ca/content/5/4/E856>).

Non-comprehensive care physician: Primary care physicians who practice less than 44 days per year or who otherwise do not meet the criteria to be characterized as providing comprehensive primary care according to the algorithm developed at ICES (<https://www.cmajopen.ca/content/5/4/E856>).

Individual-level Service Requirements: Predicted number of visits to a primary care physician based on clinical and demographic profiles generated by the CIHI Population Grouping Methodology (https://www.cihi.ca/sites/default/files/document/infosheet_popgroupmethod_en_web_0.pdf).

Neighbourhood-level Service Requirements: Neighbourhood-level service requirements are a function of the number of visits to a primary care physician required by neighbourhood residents and by residents of other neighbourhoods in the City, adjusted for spatial patterns of utilization, along with the number of visits required by patients from outside the City of Toronto and an estimate of unmet need.

Total Service Capacity: Neighbourhood-level service capacity is a function of the estimated number of visits provided by comprehensive care physicians who are not expected to exit the workforce, plus the estimated number of visits provided by comprehensive care physicians who are considered to be at risk of retirement, plus the estimated number of visits provided by non-comprehensive care physicians.

Physician Service Capacity: Physician service capacity is estimated on an individual level (based on the total number of visits provided in 2017 (from IPDB)) with adjustment for age-based changes in workload (from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6516703/>) and aggregated to the neighbourhood level.

At-risk Service Capacity: Visits associated with physicians whose age-based risk of retirement is at least 20%.

Allied Health Provider: Allied health providers include Chiropractors, Dietitians, Midwives, Nurse Practitioners, Optometrists, Occupational Therapists, Pharmacists, Psychologists, Physiotherapists, Registered Nurses, Registered Practical Nurses, Respiratory Therapists, and Speech-Language Pathologists.

Primary Care Activities: Activities relating directly to primary care include General Service Provision, Continuing Care, Comprehensive Primary Care, Chronic Disease Prevention and Management, Public Health, Mental Health and Addiction, Primary Maternity Care, Geriatric Care, Infectious Disease Prevention and Control, and Palliative Care.

Average Weekly Hours Available: The average weekly hours of direct professional services in activities identified as relating directly to primary care, estimated based on past hours worked. Note that this estimate represents normal hours of service that the workforce undertook, not "potential" or "extra" available hours. These are descriptive estimates, not projections, and may not represent future workforce service capacity.

Sources of Data

- **Population Health Profiles:** Ontario Community Health Profiles Partnership (OCHPP)
- **Ontario Marginalization Index:** OCHPP
- **Population Growth:** City of Toronto Planning Department
- **Unmet Need:** OCHPP
- **Spatial Patterns of Utilization:** Utilization Matrix generated using data from ICES through an AHRQ request
- **Service Requirements:** CIHI Population Grouping Methodology outputs provided by the Ontario Ministry of Health
- **Primary Care Workforce Profile & Service Capacity (Physicians):** ICES Physician Database (IPDB) accessed through OCHPP
- **Primary Care Workforce Profile & Service Capacity (Other Health Professionals):** Health Professions Database (HPDB) outputs provided by the Ontario Ministry of Health

Assumptions

Service requirements are estimated assuming a Medium population growth scenario and a 10-year horizon.

We assume linear residential development and population growth between the base year and the horizon year.

In our baseline scenario, we assume that new residents of a neighbourhood will have a similar profile and service requirements to those currently residing within the neighbourhood.

We adjust for population mobility using a snapshot of spatial patterns of utilization observed in FY 2017/18.

We assume that providers' age-based changes in workload and retirement probabilities will be consistent with those observed in comprehensive primary care physicians practicing in Ontario between 1992 and 2013 (from <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6516703/>).

Limitations

Neighbourhood geographies are not specifically designed for primary care health workforce planning.

Some neighbourhoods are split between subregions. In these cases, neighbourhoods have been assigned to a single subregion as follows:

Neighbourhood Name (Number)	Split Between Sub-Regions	Assigned To
Kingsview Village-The Westway (6)	North Etobicoke Malton West Woodbridge & North York West	North Etobicoke Malton West Woodbridge
Willowridge-Martingrove-Richview (7)	North Etobicoke Malton West Woodbridge & North York West	North Etobicoke Malton West Woodbridge
Islington-City Centre West (14)	South Etobicoke & West Toronto	South Etobicoke
Victoria Village (43)	North York Central & East Toronto	East Toronto
Leaside-Bennington (56)	North Toronto & Mid-East Toronto	North Toronto
South Riverdale (70)	Mid-East Toronto & East Toronto	East Toronto
Waterfront Communities-The Island (77)	Mid-West Toronto & Mid-East Toronto	Mid-East Toronto
Yonge-St.Clair (97)	Mid-West Toronto & North Toronto	North Toronto
Clairlea-Birchmount (120)	East Toronto & Scarborough South	East Toronto
Birchcliffe-Cliffside (122)	East Toronto & Scarborough South	East Toronto

Sub-Region boundaries do not equate to Ontario Health Team (OHT) boundaries, but are used as a proxy to show the approximate catchment area served by OHTs.

Unmet need is currently not accounted for in the estimate of Service Requirements. A process to define quantitative estimates of unmet need through engagement with local stakeholders is in development for operationalization during the next phase of planning.

Estimates of service capacity for physicians are in *visits*, while estimates of service capacity for allied health providers are in *hours per week*.

The information in the HPDB was provided on an "as-is" basis. The data were originally obtained by the Ministry of Health directly from health regulatory Colleges. The Ministry therefore cannot and does not warrant or represent that the information is accurate, complete, reliable or current.

Spatial patterns of utilization and the primary care workforce are not independent; there is an interaction and observed patterns can change over time. For more information about the neighbourhood- and sub-region-level spatial patterns of utilization methodology, results, and visualizations, please contact Ontario Health Toronto.

Due to the data lags associated with the use of administrative data for planning, the most recent year of data input into this planning exercise is for FY 2018/19 and trends that have since emerged are not reflected in our analysis.

Our workforce model projects forward current capacity available within the system and does not model the impact of entry of new health care providers into the workforce. The neighbourhood-level gaps between service capacity and service requirements illustrated in our outputs can be used to identify neighbourhoods where additional resources are required to meet primary care needs.

Abbreviations

ACSC – Ambulatory Care Sensitive Condition
AHRQ – Applied Health Research Question
CIHI – Canadian Institute for Health Information
COPD – Chronic Obstructive Pulmonary Disease
ED – Emergency Department
FY – Fiscal Year
NP – Nurse Practitioner
OCHPP – Ontario Community Health Profiles Partnership
OHT – Ontario Health Teams
OT – Occupational Therapist
PEM – Patient Enrolment Model
PT – Physiotherapist
RN – Registered Nurse
RPN – Registered Practical Nurse
RT – Respiratory Therapist
SLP – Speech & Language Pathologist

Contact

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