### Appendix 1: Supplementary tables

#### Appendix to:

Queenan JA, Wong ST, Barber D, Morkem R, Salman S. <u>The Prevalence of Common Chronic</u> <u>Conditions seen in Canadian Primary Care: Results from the Canadian Primary Care Sentinel</u> <u>Surveillance Network.</u> Canadian Primary Care Sentinel Surveillance Network; April 2021.

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	Male	Female	All
	(n=493,777)	(n=641,203)	(n=1,134,980)
	Prevalence	Prevalence	Prevalence
	(age standardized <sup>1</sup> )	(age standardized <sup>1</sup> )	(age and sex standardized <sup>1</sup> )
	%	%	%
	[95% CI]	[95% CI]	[95% CI]
Without CPPSSN Validated	35.3	35.7	35.5
Chronic Condition <sup>2</sup>	[35.1, 35.4]	[35.5, 35.8]	[35.4, 35.6]
Chronic Kidney Disease	3.7	4.6	4.2
	[3.7, 3.7]	[4.6, 4.7]	[4.1, 4.2]
Chronic Obstructive	4.1	3.7	3.9
Pulmonary Disease	[4.1, 4.2]	[3.6, 3.7]	[3.8, 3.9]
Dementia	1.7	2.2	1.9
	[1.6, 1.7]	[2.1, 2.2]	[1.9, 1.9]
Depression	18.4	27.3	23
	[18.3, 18.5]	[27.2, 27.4]	[22.9, 23.1]
Diabetes Mellitus	11.9	9.7	10.8
	[11.8, 12]	[9.6, 9.7]	[10.7, 10.8]
Dyslipidemia	38.8	30.9	35.2
	[39.7, 39.5]	[30.8, 31]	[35.1, 35.3]
Epilepsy	1.6	1.5	1.5
	[1.5, 1.6]	[1.4, 1.5]	[1.5, 1.5]
Hypertension	22.7	21.5	22.1
	[22.6, 22.8]	[21.4, 21.6]	[22, 22.2]
Obesity	22.9	23.1	23
	[22.7, 23]	[22.9, 23.2]	[22.9, 23.1]
Osteoarthritis	7.9	10.9	9.4
	[7.8, 7.9]	[10.8, 10.9]	[9.4, 9.5]
Parkinson's Disease	0.4	0.3	0.4
	[0.4, 0.5]	[0.3, 0.3]	[0.4, 0.4]

Table A1: Sex-specific and age-standardized prevalence of CPCSSN validated chronic conditions in adults

Notes: Data source: Canadian Primary Care Sentinel Surveillance Network, Q4-2019. Patients with at least 1 clinical encounter between Jan 1, 2018 and Dec 31, 2019.

Chi square test (difference between males and females) was <.0001 for all disease groups.

<sup>1</sup>2016 Canadian Census. <sup>2</sup> Chronic Kidney Disease, Chronic Obstructive Pulmonary Disease, Dementia,

Depression, Diabetes Mellitus, Dyslipidemia, Epilepsy, Hypertension, Obesity, Osteoarthritis, Parkinson's Disease.

Table A2: Sex-specific and age-standardized prevalence of CPCSSN validated chronic conditions in children

	Male	Female	All
	(n=135,267)	(n=131,130)	(n=266,397)
	Prevalence	Prevalence	Prevalence
	(age standardized <sup>1</sup> )	(age standardized <sup>1</sup> )	(age and sex standardized <sup>1</sup> )
	%	%	%
	[95% CI]	[95% CI]	[95% CI]
Without CPPSSN Validated	75.3	80	77.6
Chronic Conditions <sup>2</sup>	[74.8, 75.8]	[79.5, 80.5]	[77.3, 77.9]
Asthma	19.8	15.7	17.8
	[19.6, 20.1]	[15.5, 15.9]	[17.7, 18]
Diabetes Mellitus	0.4	0.5	0.4
	[0.4, 0.4]	[0.4, 0.5]	[0.4, 0.5]
Obesity	6.3	5.1	5.7
	[6.2, 6.5]	[5, 5.2]	[5.6, 5.8]

Notes: Data source: Canadian Primary Care Sentinel Surveillance Network, Q4-2019. Patients with at least 1 clinical encounter between Jan 1, 2018 and Dec 31, 2019.

Chi square test (difference between males and females) was <.0001 for all disease groups.

<sup>1</sup>2016 Canadian Census. <sup>2</sup> Asthma, Diabetes Mellitus, Obesity.

# Table A3: Median number of primary care service days between Jan 1, 2019 and Dec 31, 2019 in adults for CPCSSN validated conditions

	Male			Female			All			
	(n=493,///)				(n=641,203)			(n=1,134,980)		
	Median	IQR	Range	Median	IQR	Range	Median	IQR	Range	*p-
		(Q1, Q3)			(Q1, Q3)			(Q1, Q3)		value
Without CPPSSN	0	2	102	1	3	140	1	2	140	<0.0001
Validated Chronic		(0,2)			(0,3)			(0,4)		
Condition <sup>1</sup>										
Chronic Kidney	4	6	245	4	7	230	4	6	245	0.0738
Disease		(1,7)			(1,8)			(1,7)		
Chronic Obstructive	3	7	128	4	8	174	3	7	174	<0.0001
Pulmonary Disease		(0,7)			(0,8)			(0,7)		
Dementia	3	7	216	3	7	237	3	7	237	0.0709
		(0,7)			(0,7)			(0,7)		
Depression	2	5	171	3	6	237	3	6	237	<0.0001
		(0,5)			(0,6)			(0,6)		
Diabetes Mellitus	3	5	299	4	7	217	3	5	299	<0.0001
		(1,6)			(0,7)			(1,6)		
Dyslipidemia	2	5	216	3	4	237	2	5	237	<0.0001
		(0,5)			(1,5)			(0,5)		
Epilepsy	2	5	245	3	5	154	3	6	245	<0.0001
		(0,5)			(1,6)			(0,6)		
Hypertension	3	5	299	3	5	237	3	5	299	< 0.0001
		(1,6)			(1,6)			(1,6)		
Obesity	2	4	299	2	5	230	2	5	299	< 0.0001
		(0,4)			(0,5)			(0,5)		
Osteoarthritis	3	5	165	3	6	174	3	5	174	<0.0001
		(1,6)			(1,7)			(1,6)		
Parkinson's Disease	3	7	76	3	7	105	3	7	105	0.6408
		(0,7)			(0,7)			(0,7)		
Note: Data source: Ca	inadian Prim	hary Care Sen	tinel Survei	llance Netv	vork, Q4-20	19. Patient	ts with at le	ast 1 clinica		

encounter between Jan 1, 2018 and Dec 31, 2019.

<sup>1</sup> Chronic Kidney Disease, Chronic Obstructive Pulmonary Disease, Dementia, Depression, Diabetes Mellitus, Dyslipidemia, Epilepsy, Hypertension, Obesity, Osteoarthritis, Parkinson's Disease.

\*Wilcoxon rank sum test. The Wilcoxon rank sum tests for differences in the sum of ranks. With large samples it is possible that significant p values can be calculated when the medians are equal and there are small differences in the sum of ranks between the groups. NB: the Wilcoxon rank sum test and Mann-Whitney are synonymous.

See: Introduction to SAS. UCLA: Statistical Consulting Group.

from https://stats.idre.ucla.edu/sas/modules/sas-learning-moduleintroduction-to-the-features-of-sas/ (accessed August 22, 2016). FAQ: Why Is The Mann-Whitney Significant When The Medians Are Equal?

# Table A4: Median number of primary care service days between Jan 1, 2019 and Dec 31, 2019 in children for CPCSSN validated conditions

	Male			Female			All			
	(1	n=135,267)		(	(n=131,130)		(n=266,397)			
	Median	IQR	Range	Median	IQR	Range	Median	IQR	Range	*p-value
		(Q1,Q3)			(Q1,Q3)			(Q1,Q3)		
Without CPPSSN	0	2	139	0	2	45	1	2	139	<0.0001
Validated Chronic		(0,2)			(0,2)			(0,2)		
Condition <sup>1</sup>										
Asthma	1	3	94	1	3	41	1	3	94	<0.0001
		(0,3)			(0,3)			(0,3)		
Diabetes Mellitus	0	2	18	1	2	22	0	2	22	0.1563
		(0,2)			(0,2)			(0,2)		
Obesity	1	2	23	1	2	28	1	2	28	0.0400
		(0,2)			(0,2)			(0,2)		
Note: Data source: Canadian Primary Care Sentinel Surveillance Network, Q4-2019. Patients with at least 1 clinical										
encounter between Jan 1, 2018 and Dec 31, 2019.										

<sup>1</sup> Asthma, Diabetes Mellitus, Obesity.

\*Wilcoxon rank sum test. The Wilcoxon rank sum tests for differences in the sum of ranks. With large samples it is possible that significant p values can be calculated when the medians are equal and there are small differences in the sum of ranks between the groups. NB: the Wilcoxon rank sum test and Mann-Whitney are synonymous.

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Male	Female	All					
(n=493,777)	(n=641,203)	(n=1,134,980)					
Prevalence	Prevalence	Prevalence					
(age standardized <sup>1</sup> )	(age standardized <sup>1</sup> )	(age and sex standardized <sup>1</sup> )					
%	%	%					
[95% CI]	[95% CI]	[95% CI]					
35.3	35.7	35.5					
[35.1, 35.4]	[35.5, 35.8]	[35.4, 35.6]					
26.8	27.5	27.2					
[26.7, 27]	[27.4, 27.7]	[27.1, 27.3]					
18.3	17	17.6					
[18.1, 18.4]	[16.9, 17.1]	[17.6, 17.7]					
19.6	19.8	19.7					
[19.5, 19.8]	[19.7, 19.9]	[19.6, 19.8]					
Canadian Primary Care	Sentinel Surveillance Ne	twork, Q4-2019. Patients with					
at least 1 clinical encounter between Jan 1, 2018 and Dec 31, 2019.							
erence between males	and females) was <.000	1 for all disease groups.					
	Male (n=493,777) Prevalence (age standardized <sup>1</sup> ) % [95% CI] 35.3 [35.1, 35.4] 26.8 [26.7, 27] 18.3 [18.1, 18.4] 19.6 [19.5, 19.8] Canadian Primary Care S counter between Jan 1, erence between males	Male    Female      (n=493,777)    (n=641,203)      Prevalence    Prevalence      (age standardized <sup>1</sup> )    (age standardized <sup>1</sup> )      %    %      [95% CI]    [95% CI]      35.3    35.7      [35.1, 35.4]    [35.5, 35.8]      26.8    27.5      [26.7, 27]    [27.4, 27.7]      18.3    17      [18.1, 18.4]    [16.9, 17.1]      19.6    19.8      [19.5, 19.8]    [19.7, 19.9]      Canadian Primary Care Sentinel Surveillance Nectounter between Jan 1, 2018 and Dec 31, 2019      Prevalence    peralex					

Table A5: Sex-specific and age-standardized prevalence of multiple chronic conditions in adults

<sup>1</sup>2016 Canadian Census. <sup>2</sup> Chronic Kidney Disease, Chronic Obstructive Pulmonary Disease,

Dementia, Depression, Diabetes Mellitus, Dyslipidemia, Epilepsy, Hypertension, Obesity, Osteoarthritis, Parkinson's Disease.

#### Table A6: Sex-specific and age-standardized prevalence of multiple chronic conditions in children

	Male	Female	All					
	(n=135, 267)	(n=131,130)	(n=266,397)					
	Prevalence	Prevalence	Prevalence					
	(age standardized <sup>1</sup> )	(age standardized <sup>1</sup> )	(age and sex standardized <sup>1</sup> )					
	%	%	%					
	[95% CI]	[95% CI]	[95% CI]					
Without CPPSSN validated	75.3	80	77.6					
chronic condition <sup>2</sup>	[74.8, 75.8]	[79.5 <i>,</i> 80.5]	[77.3, 77.9]					
1 condition	22.9	22.9	20.9					
	[22.6, 23.1]	[22.6, 23.1]	[20.7, 21]					
2-3 conditions	1.8	1.3	1.6					
	[1.8, 1.9]	[1.2, 1.3]	[1.5, 1.6]					
Note: Data source: Canadian	Primary Care Sentinel	Surveillance Network, C	4-2019. Patients with at least 1					
clinical encounter between Jan 1, 2018 and Dec 31, 2019.								
Chi square test (difference between males and females) was $< 0.001$ for all disease groups								

Chi square test (difference between males and females) was <.0001 for all disease groups. <sup>1</sup>2016 Can<u>adian Census</u>.<sup>2</sup> Asthma, Diabetes Mellitus, Obesity.

	<b>Male</b> (n=493, 777)			<b>Female</b> (n=641,203)			<b>All</b> (n=1,134,980)			
	Median	IQR	Range	Median	IQR	Range	Median	IQR	Range	*p-value
		(Q1,Q3)			(Q1,Q3)			(Q1,Q3)		
Without CPPSSN	0	2	102	1	3	140	1	2	140	< 0.0001
validated chronic		(0,2)			(0,3)			(0,2)		
condition <sup>1</sup>										
	1	3	171	2	4	101	1	3	171	< 0.0001
1 CPCSSN Condition		(0,3)			(0,4)			(0,4)		
2 CPCSSN	2	4	245	2	5	173	2	4	245	<0.0001
Conditions		(0,4)			(0,5)			(0,5)		
3 or more CPCSSN	3	5	299	3	5	237	3	5	299	< 0.0001
Conditions		(0,3)			(1,7)			(1,7)		
Note: Data source: Canadian Primary Care Sentinel Surveillance Network, Q4-2019. Patients with at least 1 clinical										
encounter between Ja	an 1, 2018 a	nd Dec 31, 2	2019.							
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#### Table A7: Median number of primary care service days between Jan 1, 2019 and Dec 31, 2019 in adults

<sup>1</sup> Chronic Kidney Disease, Chronic Obstructive Pulmonary Disease, Dementia, Depression, Diabetes Mellitus, Dyslipidemia,

Epilepsy, Hypertension, Obesity, Osteoarthritis, Parkinson's Disease.

\*Wilcoxon rank sum test. The Wilcoxon rank sum tests for differences in the sum of ranks. With large samples it is possible that significant p values can be calculated when the medians are equal and there are small differences in the sum of ranks between the groups. NB: the Wilcoxon rank sum test and Mann-Whitney are synonymous.

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#### Table A8: Median number of primary care service days between Jan 1, 2019 and Dec 31, 2019 in children

	Male				Female			All			
		(n=135 <i>,</i> 267	)		(n=131,130)			(n=266, 397)			
	Median	IQR	Range	Median	IQR	Range	Median	IQR	Range	*p-value	
		(Q1,Q3)			(Q1,Q3)			(Q1,Q3)			
Without CPPSSN validated chronic condition <sup>1</sup>	1	2	139	1	2	45	1	2	139	<0.0001	
1 CPCSSN Condition	1	2	94	1	3	41	1	3	94	<0.0001	
2 or more CPCSSN Conditions	1	3	23	1	3	23	1	3	23	0.0011	
Note: Data source: Canadian Primary Care Sentinel Surveillance Network, Q4-2019. Patients with at least 1 clinical											
encounter between Jan 1, 2018 and Dec 31, 2019.											
<sup>1</sup> Asthma, Diabetes Mellitus, Obesity.											

\*Wilcoxon rank sum test. The Wilcoxon rank sum tests for differences in the sum of ranks. With large samples it is possible that significant p values can be calculated when the medians are equal and there are small differences in the sum of ranks between the groups. NB: the Wilcoxon rank sum test and Mann-Whitney are synonymous.

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	(n=	<b>Male</b> =629,044)	(n:	<b>Female</b> =772.333)	<b>All</b> (n=1,401,377)					
	<b>T</b> - 1 - 1	<b>T</b> -1-1	<b>T</b> . t . t	Tabal	Total	Total				
	(observed)	(age standardized <sup>1</sup> )	(observed)	(age standardized <sup>1</sup> )	(observed)	(age and sex standardized <sup>1</sup> )				
	%	%	%	%	%	%				
	[95% CI]	[95% CI]	[95% CI]	[95% CI]	[95% CI]	[95% CI]				
	(n/N)	(n/N)	(n/N)	(n/N)	(n/N)	(n/N)				
Adult										
Chronic	5.0	3.7	5.4	4.6	5.3	4.2				
Kidney Disease	[4.9, 5.1] (24,786/493,777)	[3.6, 3.7] (496,920/13,450,920)	[5.4, 5.5] (34,859/641,203)	[4.6, 4.7] (660,932/14,260,795)	[5.2, 5.3] (59,645/1,134,980)	[4.1, 4.2] (1,157,853/27,711,715)				
Chronic	5.0	4.1	4.0	3.7	4.4	3.9				
Obstructive	[4.9, 5.1]	[4.0, 4.2]	[3.9, 4.0]	3.6, 3.7]	[4.4, 4.5]	[3.8, 3.9]				
Pulmonary	(24,817/493,777)	(552041/13,450,920)	(25,527/641,203)	(522,455/14,260,795)	(50,344/1,134,980)	(1,074,496/27,711,715)				
Disease										
Dementia	2.4	1.5	2.7	2.2	2.6	1.9				
	[2.3, 2.4]	[1.5, 1.5]	[2.7, 2.8]	[2.1, 2.2]	[2.5, 2.6]	[1.9, 1.9]				
Devenesieve	(11,/94/493,///)	(188,850/13,450,920)	(17,519/641,203)	(307,451/14,260,795)	(29,313/1,134,980)	(529,325/27,711,715)				
Depression	18.3				23.3					
	[18.2, 18.4] (00.194/402.777)	[18.3, 18.5] (2,472,680/12,450,020)	[Z/.1, Z/.3] (174 178/641 202)	[27.2, 27.4] (2805 275/14 260 705)	[23.2, 23.4]	[22.9, 23.1]				
Diabotos	(90,164/495,777)	(2,473,080/13,430,920)	10.1	(3895,275/14,200,795)	(204,502/1,154,960)	(0,508,955/27,711,715)				
Mollitus	13.0 [13.5, 13.6]	[11.8 12.0]		9.7 [9.6. 9.7]						
Wentus	(66.935/493.777)	(1.601.698/13.450.920)	(64.866/641.203)	(1.378.865/14.260.795)	131.801/1.134.980)	(2.980.564/27.711.715				
Dyslipidemia	42.8	39.7	31.7	30.9	36.5	35.2				
D yonprocernia	[42.6. 42.9]	[39.5. 39.9]	[31.6. 31.8]	[30.7. 31.0]	[36.5, 36.6]	[35.1. 35.3]				
	(211,169/493,777)	(5,337,272/13,450,920)	(203,503/641,203)	(4,405,586/14,260,795)	(414,672/1,134,980)	(9,742,858/27,711,715)				
Epilepsy	1.5	1.5	1.4	1.4	1.5	1.5				
	1.5, 1.6]	[1.5, 1.6]	[1.4, 1.5]	[1.4, 1.5]	[1.5, 1.5]	[1.5, 1.5]				
	(7,675/493,777)	(207,959/13,450,920)	(9,288/641,203)	(207,035/14,260,795)	(16,963/1,134,980)	(41,4994/27,711,715)				
Hypertension	26.0	22.7	23.1	21.5	24.4	22.1				
	[25.9, 26.2]	[22.6, 22.8]	[23.0, 23.2]	[21.4, 21.6]	[24.3, 24.4]	[22.0, 22.2]				
	(128,586/493,777)	(3,053,350/13,450,920)	(14,7971/641,203)	(3,069,475/14,260,795)	(276,557/1,134,980)	(5,49,6442/27,711,715)				
Obesity	23.4	23.0	23.1	23.2	23.2	23.1				
	[23.3, 23.5] /115 655 /402 777)	[22.8, 23.1]	[23.0, 23.2]	[23.1, 23.3] (2.206, 212/14, 260, 705)	[23.1, 23.3] (262 576/1 124 090)	[2300, 23.2]				
Osteoarthritis	(113,033/493,777) Q 2	(3083,312/13,430,320)	11 7	10.9	10.6	(0,39,0730/27,711,713) Q A				
Osteoartinitis	[9.2, 9.4]	[7.8.7.9]	[11.6, 11.6]	[10.8, 10.9]	[10.6, 10.7]	[9.4.9.5]				
	(45.805/493.777)	(1.056.016/13.450.920)	(74.810/641.203)	(1.549.313/14.260.795)	(120.615/1.134.980)	(2.605.330/27.711.715)				
Parkinson's	0.6	0.4	0.4	0.3	0.5	0.4				
Disease	[0.6, 0.6]	[0.4, 0.5]	[0.4, 0.4]	[0.3, 0.3]	[0.5, 0.5]	[0.4, 0.4]				
	(2,938/493,777)	(59,810.8/13,450,920)	(2,386/641,203)	(46,208.8/14,260,795)	(5,324/1,134,980)	(106,020/27,711,715)				
Pediatric			-							
	19.6	19.8	15.6	15.7	17.7	17.8				
Asthma	[19.4, 19.9]	[19.6, 20.1]	[15.4, 15.8]	[15.5, 15.9]	[17.5, 17.1]	[17.7, 18.0]				
	(26,574/135,267)	(756,137/3,183,300)	(20,489/131,130)	(569,506/3,626,720)	(47,063/266,397)	(1,325,643/7,440,020)				
Diabetes	0.4	0.4	0.5	0.46	0.43	0.4				
Mellitus	[0.4,0.4]	[0.4, 0.4]	[0.4, 0.5]	[0.43, 0.50]	[0.40, 0.45]	[0.4, 0.5]				
Obacity	(531/13,5207)	(15,459.2/3,183,300)	(004/131,130) E 1	(10803.4/3,020,720)	(1135/200,397)	(32,322.7/7,440,020)				
Obesity	[6163]	[6 2 6 5]	[4 9 5 2]	[5 0 5 2]	5.0	5.7 [5.6.5.8]				
	(8.405/135.267)	(241.657/3.183.300)	(6.634/131.130)	(184,513/3,626,720)	(15.039/266.397)	(42.6170/7.440.020				
Chronic	5.0	3.7	5.4	4.6	5.3	4.2				
Kidney	[4.9, 5.1]	[3.6, 3.7]	[5.4, 5.5]	[4.6, 4.7]	[5.2, 5.3]	[4.1, 4.2]				
Disease	(24,786/493,777)	(496,920/13,450,920)	(34,859/641,203)	(660,932/14,260,795)	(59,645/1,134,980)	(1,157,853/27,711,715)				
Note: Data sour	ce: Canadian Primary C	Care Sentinel Surveillance Net	work, Q4-2019. Patient	s with at least 1 clinical encour	nter between Jan 1, 2018	and Dec 31, 2019. <sup>1</sup> 2016				
Canadian Census	Canadian Census.									

# Table A9: Observed and sex-specific age-standardized prevalence of CPCSSN validated conditions in adults and children with at least one clinical encounter between Jan 1, 2018 and Dec 31, 2019