

Template:

**❓ Question:**

For what portion of adults is an annual physical exam conducted in any given year? (Relates to CWC Family Medicine recommendation #8)

**❓ Team and list of all team member names:**

NYFHT / UTOPIAN-CPCSSN:

Suja Arackal

Marjan Moeineddin

Babak Aliarzadeh

Michelle Greiver

(all team members must have agreed to challenge rules through registration)

**Describing the Data and Analysis**

Population: Patients age 18 or more as of December 31<sup>st</sup> 2014

Rostered to a physician at North York Family Health Team that participates in CPCSSN as of December 31<sup>st</sup> 2014 (N = 65 physicians)

**❓ Data Custodian Organization(s) and data sources:**

Data custodians:

Physicians at NYFHT that have provided consent for participation in CPCSSN

Data sources:

EMR data extracted and cleaned by CPCSSN and returned to NYFHT with Data Presentation Tool (DPT) to allow data mining

**☒ List of Datasets Used (e.g. names of database and/or data origins):**

Data extracted as of December 31<sup>st</sup> 2014 from EMRs used by physicians at NYFHT. EMRs are: Practice Solutions EMR (Telus); Nightingale EMR (ASP); Nightingale EMR (local database)

**☒ Exclusions:**

Physician not participating in CPCSSN (N = 5)

Patient not rostered to participating physician

Patient under age 18 as of December 31<sup>st</sup> 2014

**☒ Nature and Size of Cohort (e.g. geographic area covered, number of patients included):**

Primary care cohort, all patients rostered to large Family Health Team in Toronto, Ontario, Canada; adults (age 18 or more as of December 31<sup>st</sup> 2014); most patients are located in Greater Toronto Area. The patient and physician both agree to rostering; the patient signs a roster form. This is commonly understood as meaning that a relationship exists between a patient and their family physician, and provides a reasonable denominator.

N patients = 49,263

**☒ Data timeframe:**

All patients currently rostered to participating family physicians, regardless of date of last visit are included. Rosters are kept up to date by each office on a monthly basis. Roster list is reviewed for accuracy against Ministry of Health roster list and is updated on a yearly basis.

Date of last roster verification for current dataset: June 2014.

**Please provide a brief summary of the analysis methodology:**

Numerators and denominators extracted using DPT. Percentages obtained by dividing numerator by denominator.

Analyzed by age ranges.

**Describing the Findings**

☒ Numerator and Denominator (as specified in the question definition)

Numerator: All patients rostered to a participating NYFHT family physician, patients age 18 or more as of December 31<sup>st</sup> 2014

Denominator: All patients in the numerator with at least one billing code or diagnostic assessment indicating a general check up or complete assessment if present in 2014.

Billing codes included: K131A, K132A, A003A

Diagnostic assessment (billing or encounter diagnoses): ICD9 917 or V70.0

**☑ Please also provide a brief summary of the findings including any key limitations or interpretation issues (may also include one figure/table)**

North York Family Health Team

	Population N	age ranges						
		18-24	25-34	35-44	45-54	55-64	65-74	75+
Rostered, age 18 or more as of December 31 2014	49263	4937	7415	8649	9299	7857	5761	5345
Had K131, K132, 917, V70.0 in 2014	11553	655	1074	1775	2252	2230	2043	1524
OR A003	15953	871	1381	2261	3164	3141	2869	2266
Percentages								
Had K131, K132, 917, V70.0 in 2014	<b>23%</b>	13%	14%	21%	24%	28%	35%	29%
OR A003	<b>32%</b>	18%	19%	26%	34%	40%	50%	42%

We used billing and diagnostic codes commonly used in primary care to indicate that a periodic health exam was done

K131A: periodic health exam, age less than 65

K132A: periodic health exam, age 65 or more

A003A: General Assessment. This is sometimes billed instead of K131 as it carries a higher fee

917 (this is sometimes entered as V070.0): ICD9 diagnostic code for Annual Health Exam

Analysis without A003A (General Assessment): 23% of patients have had a periodic health exam in the past year. This is more specific but less sensitive

Analysis with A003A: 32% of patients have had a periodic health exam in the past year. This is more sensitive but less specific

As age increases (up to age 75 or more), a greater percentage of patients have periodic health exams.