

4. Access to Healthcare Appendix Data Tables

This chapter presents data on the following indicators related to access to healthcare services:

- 4.1. Uninsured
 - % of adults without health insurance (1999-2001, 2008-2010)
- 4.2. Cost
 - % of adults who could not see doctor due to cost (1999-2001, 2008-2010)
- 4.3. Primary Care
 - % of adults who had a check up in the past year (2007-2010)
- 4.4. Personal Healthcare Provider
 - % of adults with a personal healthcare provider (2002-2007)
- 4.5. Registered Physicians
 - Number of registered physicians - Total, Anesthesiology, Emergency Medicine, Family Practice, Internal Medicine, Obstetrics/Gynecology, Pediatrics/Adolescent, Psychiatry (Child and General), General Surgery, Ophthalmology, Orthopedic Surgery (2001, 2009)
 - Number of residents per registered physician (2001, 2009)

Presented for each indicator is an explanation of the indicator, the data, the source of the data, a Healthy People 2020 objective when available, and a comment on whether there are any statistically significant differences between each community in CHNA 18 and Massachusetts.

A note on determining statistical significance:

The 95% confidence interval (95% CI) is a range of values that has a 95% chance of including the observed percentage. Observed rates are subject to statistical variation; even if the observed percentages are identical in two populations, the populations may differ because of random variation. The confidence interval describes the precision of the observed rate as an estimate of the underlying risk, with a wider interval indicating less certainty about this estimate. The width of the interval reflects the size of the population and the number of cases; smaller populations with fewer cases lead to wider confidence intervals.

The **statistical significance** of differences between rates can be estimated based on whether the confidence intervals overlap. For example, if the 95% confidence intervals for the birth rate for a community and state do not overlap, it is safe to conclude that the rates are statistically different (i.e., the difference is very unlikely to be due to sampling error).

4.1 Uninsured

% Uninsured: This is the percent of respondents age 18 and over who indicated they did not have any health care coverage

Healthy People 2020 Objective: 0% of individuals do not have health insurance

Adults with no health insurance*

	% Uninsured (95% CI)	
	1999-2001	2008-2010
CHNA 18	1.7 (0.4 - 2.9)	1.3 (0 - 2.8)
Massachusetts	6.8 (6.2 - 7.3)	3.2 (2.9 - 3.6)
United States**	18.7 (18.1 - 19.2)	22.3 (21.6 - 23.0)

*Data for the CHNA does not include Brookline because the custom report did not allow the addition of Brookline

**Data from 2000 and 2010 only, this is the percent of individuals between the ages of 18 and 64 who are uninsured

Source: BRFSS (MassCHIP custom report); CDC/NCHS, National Health Interview Survey

Comment:

Are there any statistically significant differences over time or between the CHNA and Massachusetts?

- The number of adults without health insurance did not change over time in CHNA 18, however this number decreased in Massachusetts from 1999-2001 to 2008-2010 and increased in the United States
- From 2008-2010, CHNA 18 had a lower percent of adults who were uninsured compared to Massachusetts

4.2. Cost

% could not see a doctor: This is the percent of respondents ages 18 and over who said they were unable to see a doctor in the past year due to cost

Adults who could not see a doctor due to cost*

	% Could not see a doctor (95% CI)	
	1999-2001	2008-2010
CHNA 18	5.0 (2.6 - 7.5)	2.7 (1.3 - 4.0)
Massachusetts	6.9 (6.4 - 7.5)	6.7 (6.3 - 7.1)
United States**	NA	14.6

*Data for the CHNA does not include Brookline because the custom report did not allow the addition of Brookline

**Data for 2010 only

Source: BRFSS (MassCHIP custom report); Kaiser Family Foundation

Comment:

Are there any statistically significant differences over time or between the CHNA and Massachusetts?

- From 2008-2010, the percent of adults who could not see a doctor due to cost was lower in CHNA 18 compared to Massachusetts

4.3 Primary Care

% adults who had a checkup: This is the percent of respondents ages 18 and over who said they received a check-up within the past year

% Adults who had a checkup (95% CI)	
2007-2010	
Brookline	75.4 (68.9 - 81.0)
Dedham	81.7 (72.4 - 88.4)
Dover	NA*
Needham	79.8 (71.4 - 86.1)
Newton	80.7 (76.4 - 84.3)
Waltham	72.1 (64.1 - 78.8)
Wellesley	85.2 (77.9 - 90.3)
Weston	NA*
Westwood	81.2 (70.1 - 88.8)
CHNA 18	78.7 (76.2 - 81.0)
Massachusetts	77.5 (77.0 - 78.1)

*Cells are marked as NA when either: 1) Data are suppressed for confidentiality reasons, 2) The data is unavailable, or 3) The population on which the statistic is based on is too small to calculate reliable results

Source: BRFSS

Comment:

Are there any statistically significant differences between the CHNA and Massachusetts?

- Each community within the CHNA and CHNA 18 as a whole has the same percent of adults receiving a checkup compared to Massachusetts

4.4 Personal Healthcare Provider*

% having a personal healthcare provider: Respondents were asked if they had a person that they thought of as their personal doctor or health care provider. This is the percentage of respondents who reported that they did have a personal health care provider

Healthy People 2020 Objective: Increase the percent of individuals with a usual primary care provider to 83.9%

% having personal healthcare provider (95% CI)	
2002-2007	
CHNA 18	90.4 (88.2 - 92.5)
Massachusetts	87.8 (87.4 - 88.2)
United States**	76.3

*Data for the CHNA does not include Brookline because the custom report did not allow the addition of Brookline

**US data from 2007 only

Source: BRFSS Standard Report; US Healthy People 2020 Report

Comment:

Are there any statistically significant differences between the CHNA and Massachusetts?

- CHNA 18 has a significantly higher percent of adults who have personal healthcare provider compared to Massachusetts

4.5 Registered Physicians

Number of registered physicians: This is the Board of Medicine counts of licensed physicians representing the number of individual physicians with active and full licenses and a Massachusetts practice, but these are not necessarily full-time equivalents.

Residents per physician: This is the number of residents per licensed physician in each community

Number of Registered Physicians 2001	Brookline	Dedham	Dover	Needham	Newton	Waltham	Wellesley	Weston	Westwood		CHNA 18	Massachusetts
Total	621	59	9	109	594	169	202	57	33		1,853	20,554
Specialty												
Anesthesiology	32	0	1	3	31	4	4	1	9		85	972
Emergency Medicine	1	1	2	3	15	7	5	0	2		36	706
Family Practice	5	3	1	7	14	8	4	0	3		45	1,129
Internal Medicine	122	23	0	21	95	39	45	8	1		354	4,145
Obstetrics/Gynecology	51	6	0	7	22	12	19	8	0		125	935
Pediatrics/Adolescent	28	7	1	8	46	16	16	15	3		140	1,658
Psychiatry												
General	154	2	1	15	151	13	28	10	7		381	1,983
Child/Adolescent	8	1	0	4	13	0	8	2	1		37	186
Surgery												
General	15	1	0	3	20	6	3	0	0		48	659
Ophthalmology	15	1	0	4	14	5	4	1	0		44	516
Orthopedic	28	2	1	5	21	7	4	2	0		70	595
Other	107	6	2	19	84	34	37	8	5		302	4,066

Number of Registered Physicians 2009	Brookline	Dedham	Dover	Needham	Newton	Waltham	Wellesley	Weston	Westwood	CHNA 18	Massachusetts
Total	664	62	12	140	583	169	227	63	130	2,050	26,267
Specialty											
Anesthesiology	25	3	5	1	32	11	1	1	101	180	1,301
Emergency Medicine	5	1	1	1	18	6	2	0	0	34	1,078
Family Practice	14	3	0	6	11	11	10	0	1	56	1,491
Internal Medicine	120	18	1	47	108	45	53	12	4	408	6,105
Obstetrics/Gynecology	66	4	0	5	23	9	17	5	0	129	1,016
Pediatrics/Adolescent	42	9	1	8	36	23	15	20	7	161	2,283
Psychiatry											
General	172	3	2	18	137	7	37	10	6	392	2,210
Child/Adolescent	13	0	0	4	11	1	5	0	2	36	207
Surgery											
General	6	0	0	2	14	1	3	0	0	26	804
Ophthalmology	17	2	0	6	8	9	6	1	0	49	602
Orthopedic	31	2	0	5	19	1	5	0	0	63	296
Other	82	8	1	21	112	19	35	11	7	296	5,208

Source: Physicians Registered and Working in Massachusetts (MassCHIP Custom Report)

Residents per registered physicians

	Residents per physician	
	2001	2009
Brookline	92	88
Dedham	398	399
Dover	619	189
Needham	262	206
Newton	141	146
Waltham	351	359
Wellesley	134	123
Weston	202	179
Westwood	428	112
CHNA 18	168	153
Massachusetts	310	249
United States	NA	361

Source: Physicians Registered and Working in Massachusetts (MassCHIP Custom Report);
Census data from MassCHIP and US Census Bureau; Journal of Medical Regulation 94(4) 10-20