



BOSTON PUBLIC HEALTH COMMISSION (BPHC)

Communicable Disease Control Division

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Boston COVID 19 Report For the Week Ending 4/9/2020

1/3/2020 - 4/9/2020

COVID-19 Cases (Boston Residents)	#
Active Cases	2474
Recovered Cases	339
Deaths	35
TOTAL CASES	2848

COVID-19 Confirmed Hospitalizations (through 4/9/2020)	
YEAR	# HOSPITALIZED
2020	277

Boston ED CLI ¹ Syndromic Surveillance	
This Week Overall % CLI (4/3-4/9/2020)	10.3%
Last Week Overall % CLI (3/27-4/2/2020)	9.1%

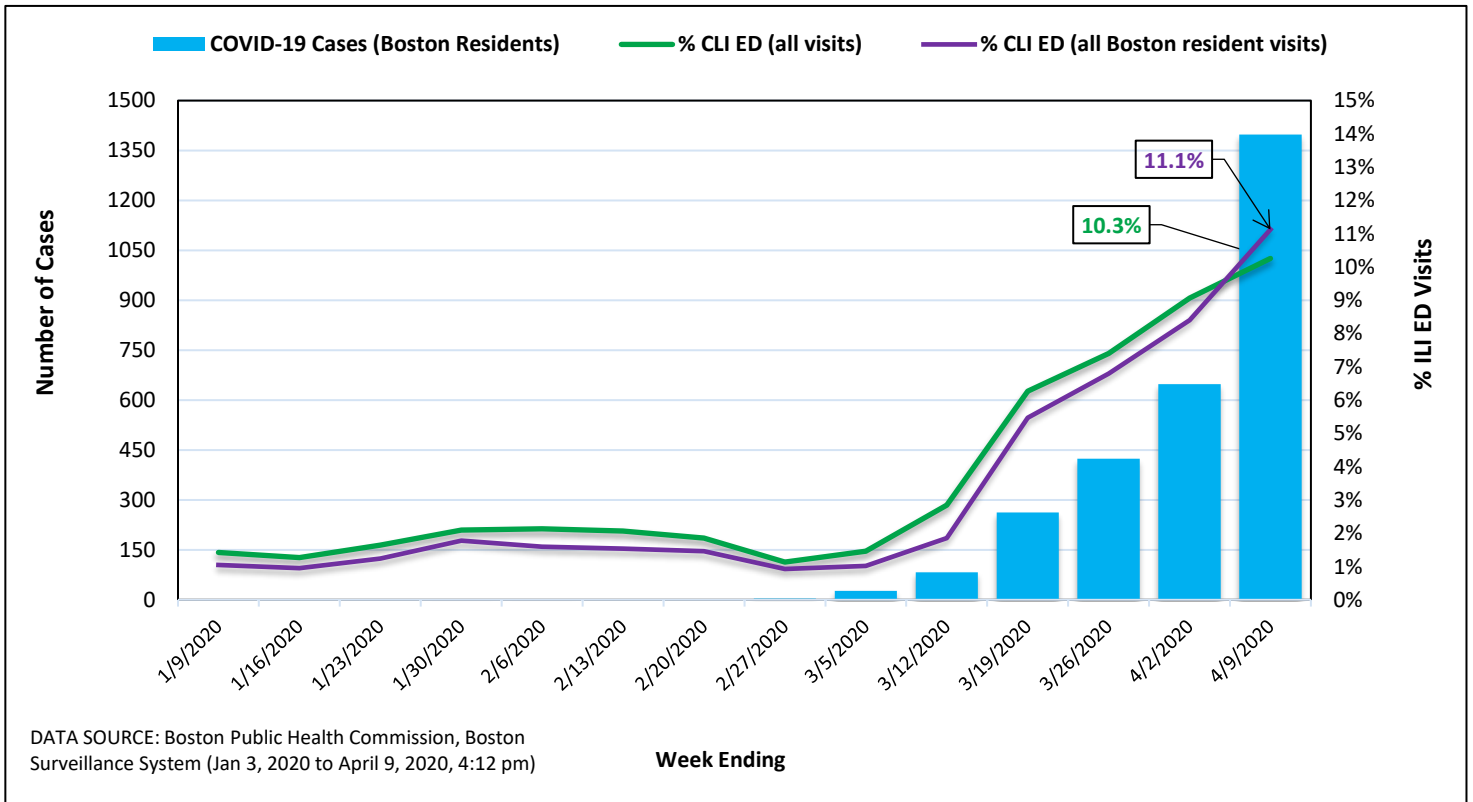
Summary: As of 4:12 pm on 4/9/2020, a total of 2848 cases of laboratory-confirmed COVID-19 among Boston residents have been reported to the Boston Public Health Commission (BPHC). This represents an increase of 131% in cases from the previous week's report. Of these, 277 required hospitalizations. Thirty-five residents have died. Three hundred and thirty-nine (11.9%) have recovered.

One hundred and twenty-seven cases (4.5%) were healthcare workers.

Emergency Department (ED) visits for COVID-19-like illness (CLI) comprised 10.3% of all ED visits between 3/27/2020-4/2/2020, up from 9.1% the prior week.

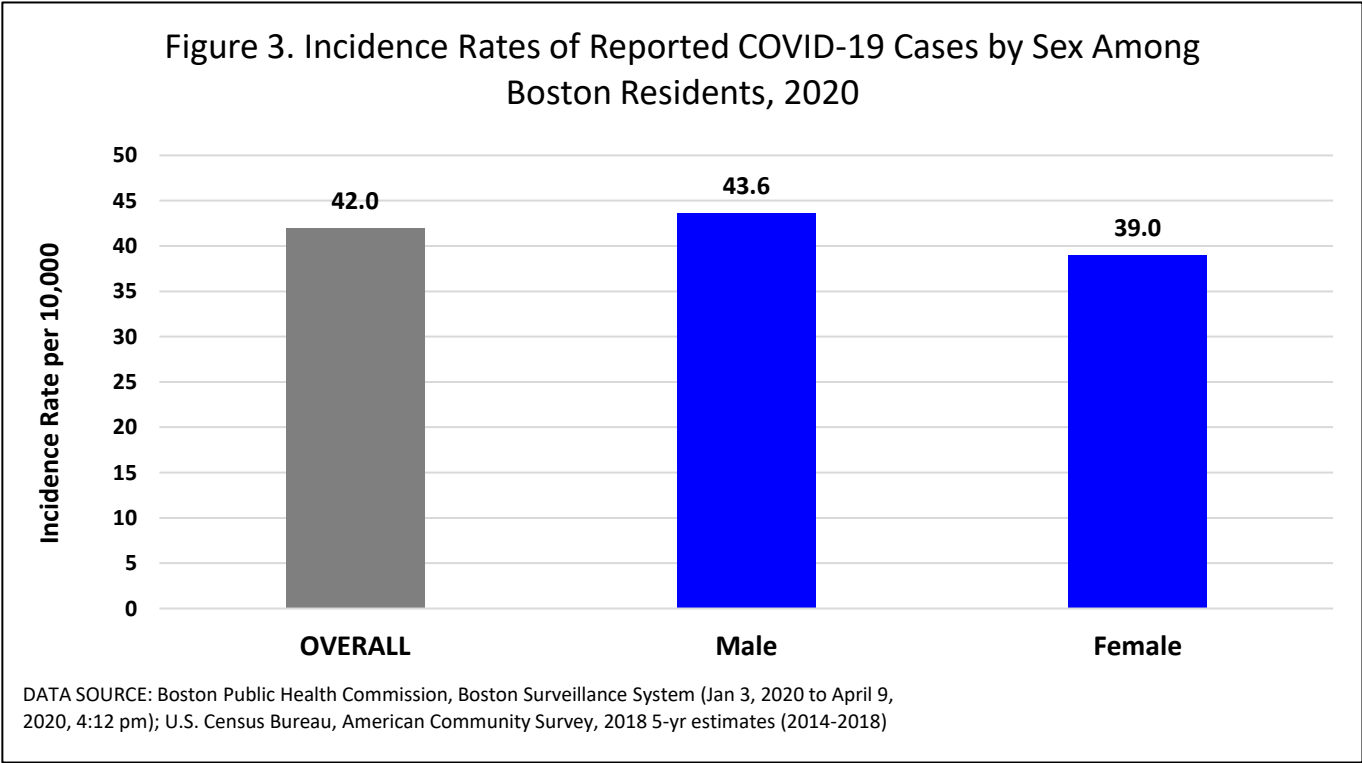
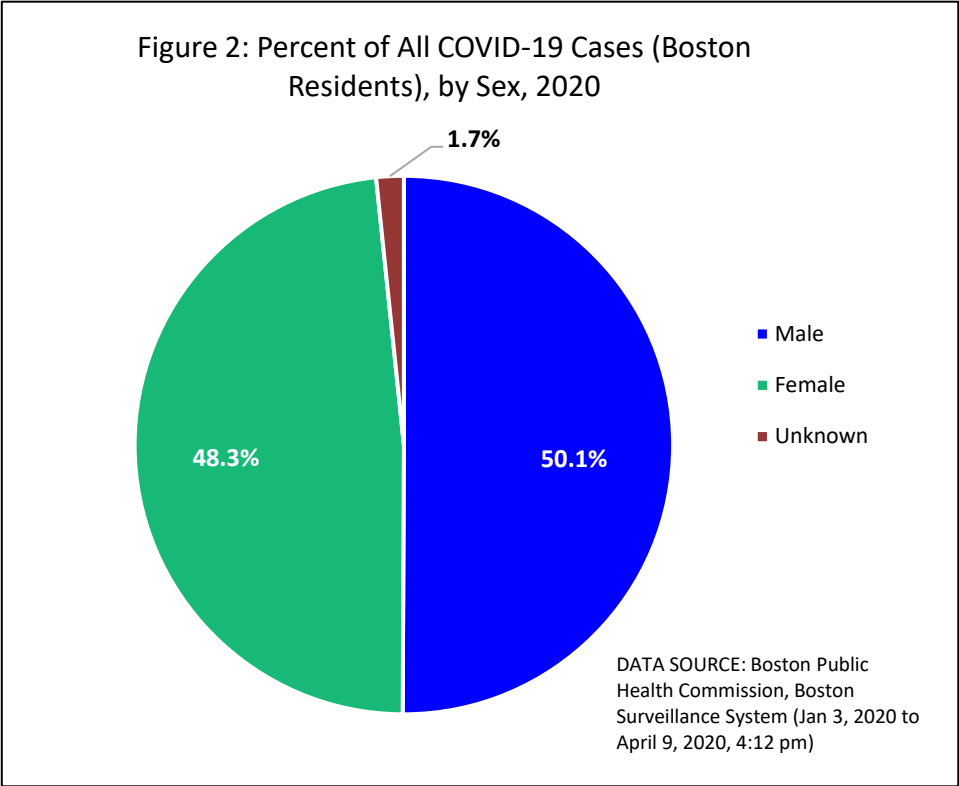
¹COVID-19-like illness (CLI) is defined as "Covid or (fever and (cough or respiratory distress))" in ED chief complaint data from Boston acute care hospitals, captured by BPHC Syndromic Surveillance System.

Figure 1. Reported COVID 19 Cases and % CLI Emergency Department Visits, by Week, 2020



Notes:

- Dates associated with cases are "event dates." An event date is the earliest associated date corresponding to each disease event and is hierarchical based on available information. When available, symptom onset date serves as the earliest associated date. In the absence of an onset date, the test date is used. As additional information becomes available (e.g., reporting of symptom onset date), event dates may shift for reported cases. These numbers are rolling and subject to weekly variations based on case data availability.
- %CLI ED (all visits) is a percentage of CLI visits among all ED including irrespective of residence. %CLI ED (all Boston resident visits) is a percentage of CLI visits by Boston residents among all ED visits by Boston residents.



There was also a similar distribution of male cases and female cases (Figure 2). The incidence rate of COVID-19 among female residents was lower (39.0 cases per 10,000 female residents) compared with male residents (43.6 cases per 10,000 male residents; Figure 3).

FIGURE 4. PERCENT OF ALL COVID-19 CASES BY AGE AMONG BOSTON RESIDENTS

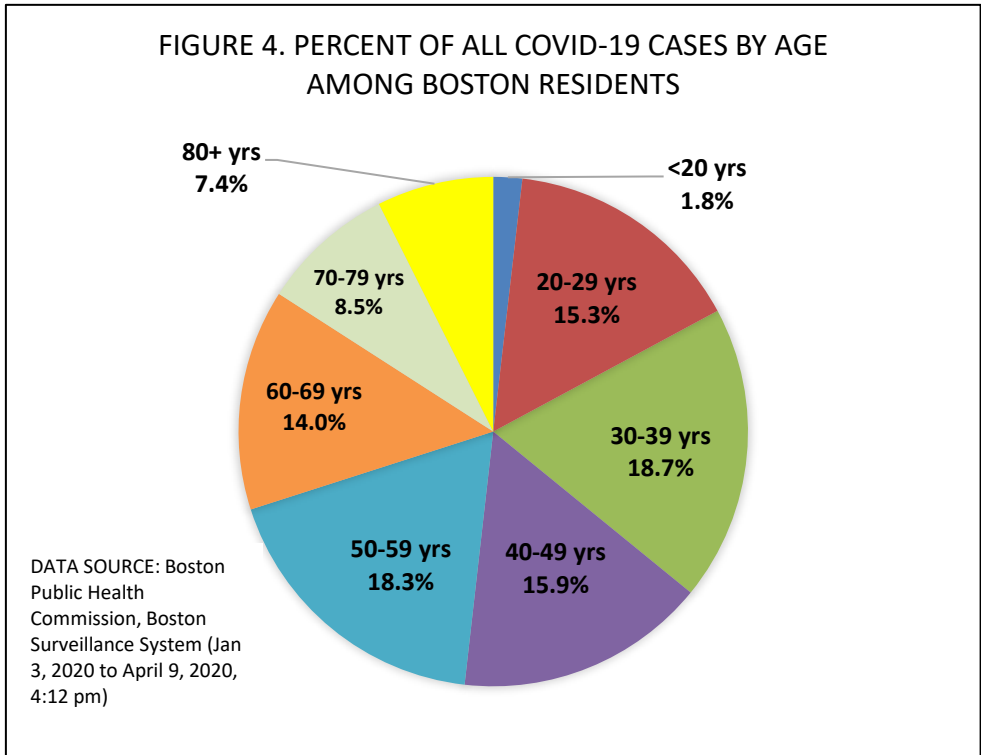
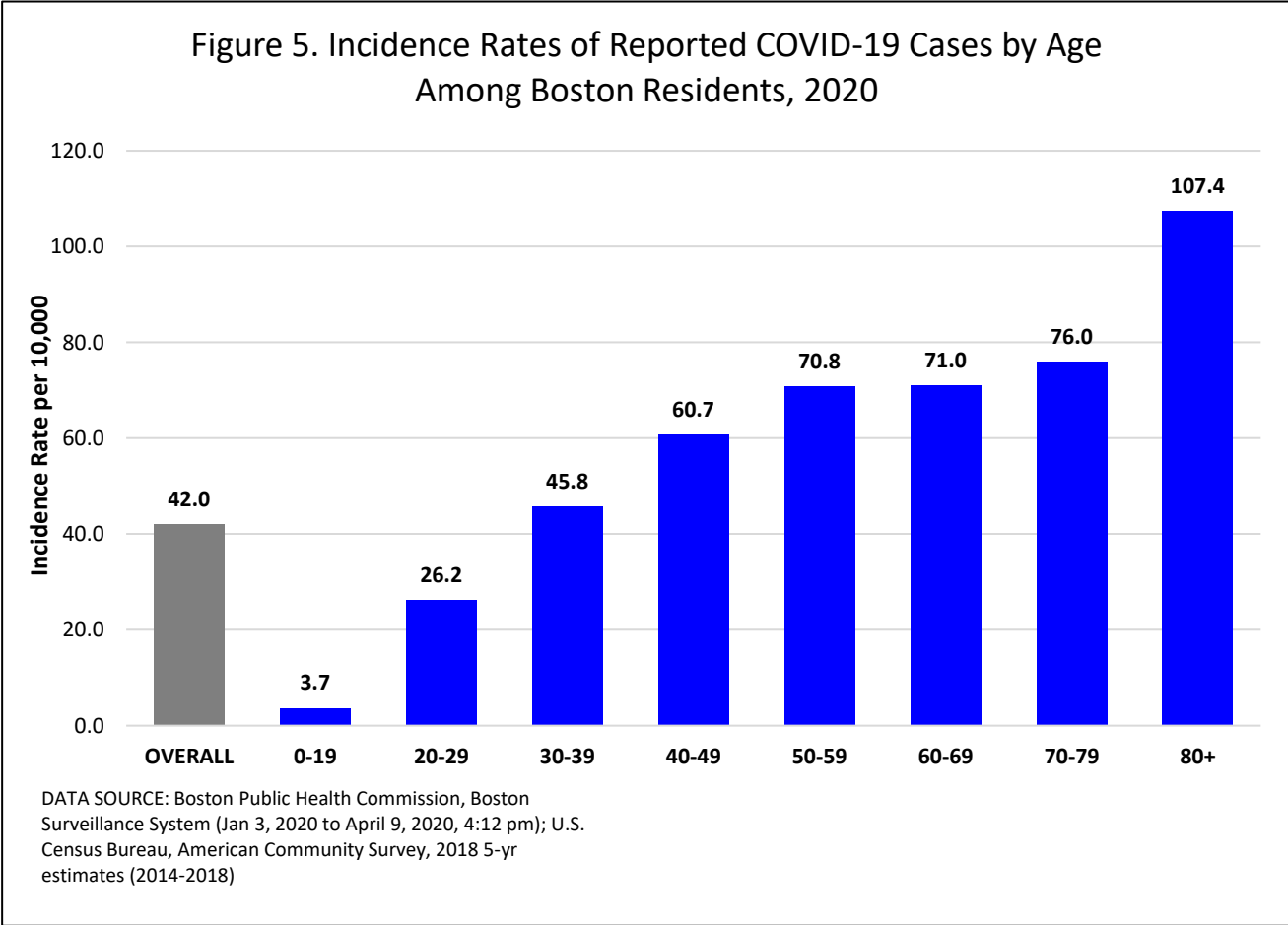
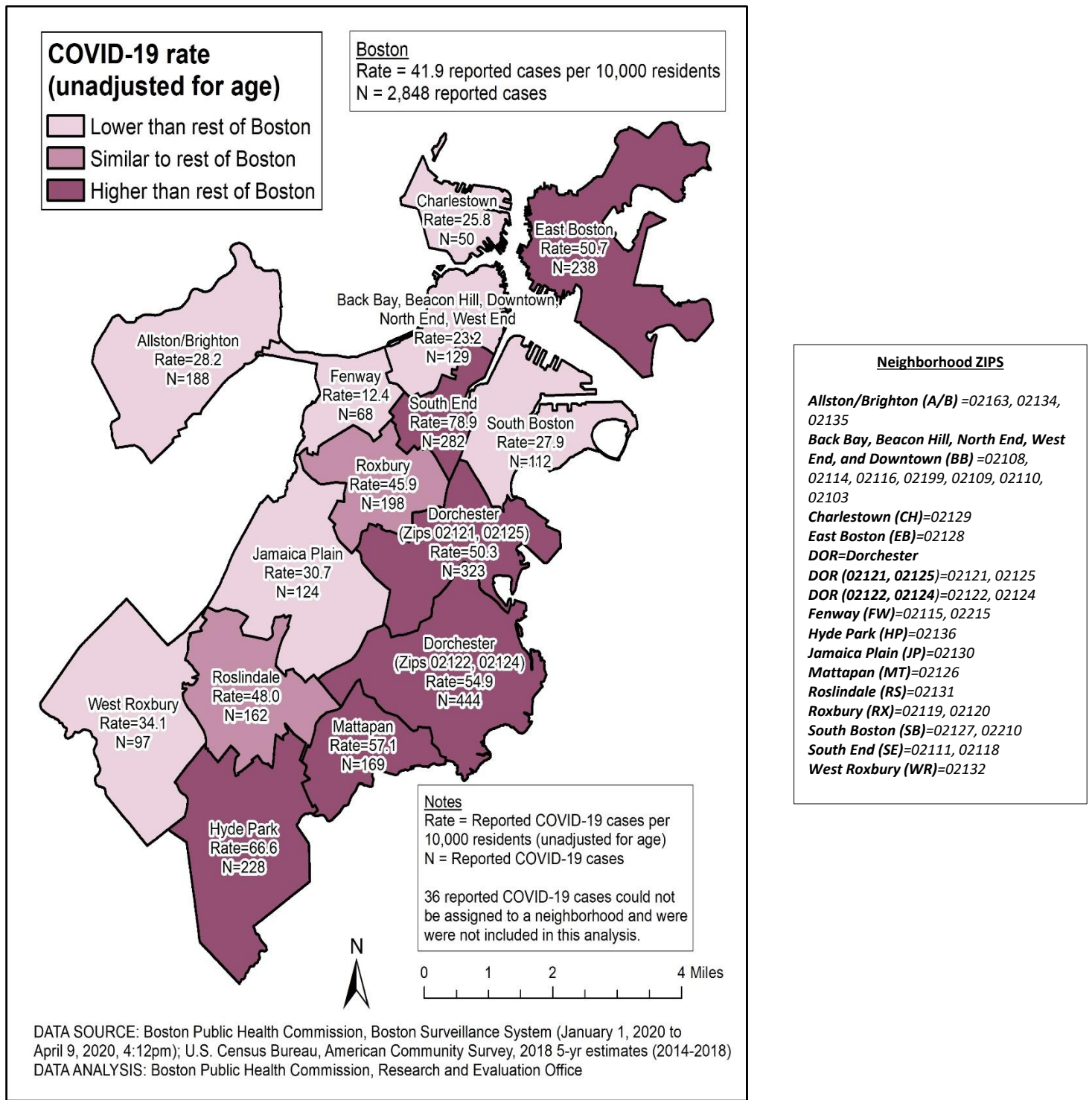


Figure 5. Incidence Rates of Reported COVID-19 Cases by Age Among Boston Residents, 2020



There continues to be a low percentage of Boston resident COVID-19 cases under 20 years of age (Figure 4). Nearly 30% of COVID-19 cases were in persons age 60 years and above. In general, COVID-19 rates increase with age.

Figure 6: Incidence Rates of Reported COVID 19 Cases by Neighborhood Among Boston Residents



The incidence rate of COVID-19 was higher for East Boston, Dorchester (zips 02121, 02125), Dorchester (zips 02122, 02124), Hyde Park, Mattapan, and the South End compared with the rest of Boston. The incidence rate of COVID-19 was lower for Allston/Brighton, Back Bay (including Beacon Hill, Downtown, the North End, and the West End), Charlestown, Fenway, Jamaica Plain, South Boston, and West Roxbury compared with the rest of Boston (Figure 6). To test neighborhood differences, an individual neighborhood is compared with the rest of Boston (i.e., all other neighborhoods combined), rather than to Boston overall so that individual neighborhood's contribution to the Boston overall rate does not mask a difference from the rest of Boston.

Table 1: Race/Ethnicity Distribution of COVID-19 Cases, Boston Residents, 2020			
Race/Ethnicity ¹	# of Cases	% of All Cases	% of Cases with Known Race/Ethnicity ²
Asian, nL/nH	83	2.9%	4.6%
Black, nL/nH	727	25.5%	40.6%
Latinx/Hispanic	293	10.3%	16.4%
Other, nL/nH ³	183	6.4%	10.2%
White, nL/nH	504	17.7%	28.2%
Unknown/Missing Data	1058	37.2%	

¹nL/nH=non-Latinx/non-Hispanic

² Total with Known Race/Ethnicity=1790 cases

³ Other, nL/nH includes American Indian/Alaska Native and multiracial

DATA SOURCE: Boston Public Health Commission, Boston Surveillance System (Jan 3, 2020 to April 9, 2020, 4:12 pm); U.S. Census Bureau, American Community Survey, 2018 5-yr estimates (2014-2018)

Of cases where race/ethnicity is known, 4.6% were Asian, 40.6% were Black, 16.3% were Latinx or Hispanic, 28.2% were White, and 10.2% were another race/ethnicity or multi-racial. When the percent of information that is missing or unknown is greater than 20%, percentages are calculated among the known cases, but both are presented here. Interpret this data with caution due to the high percentage missing and unknown.