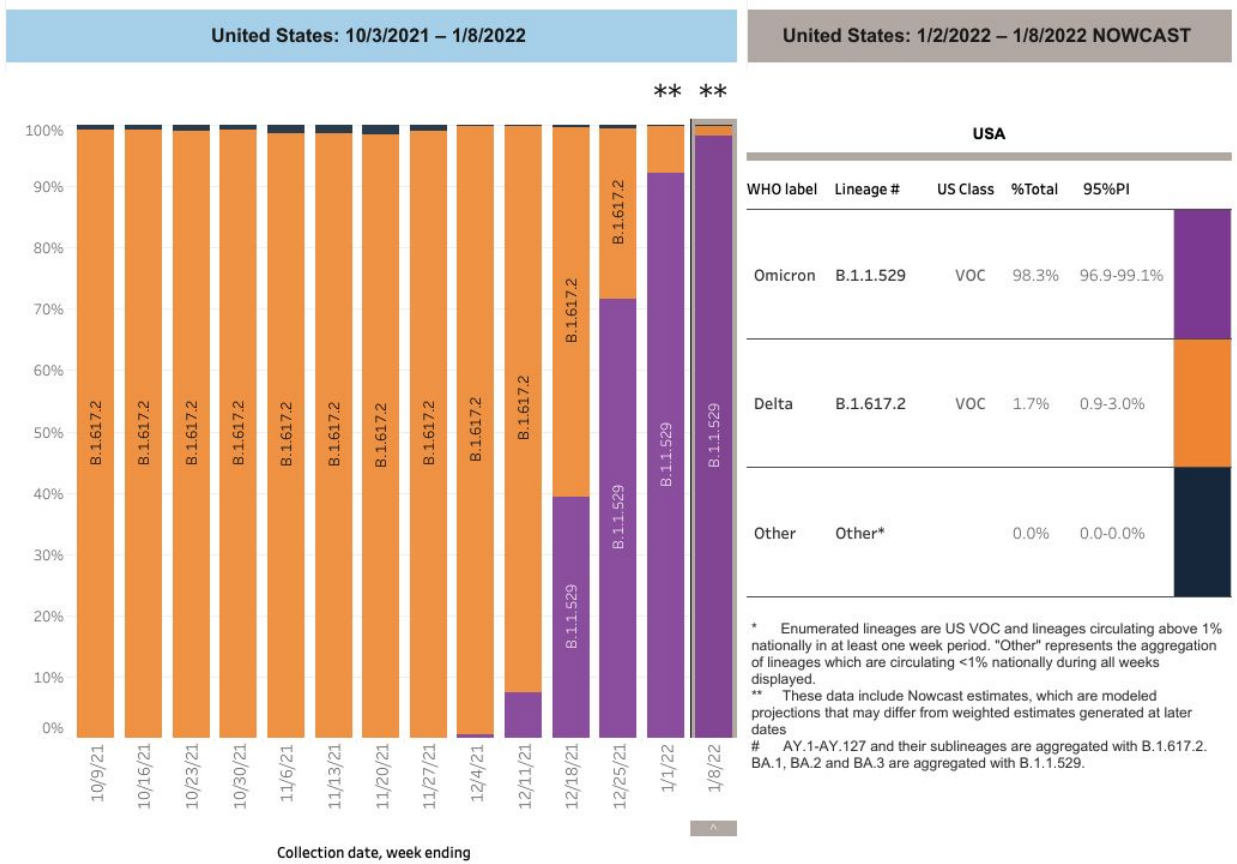
Covid-19 Health Metrics

January 13, 2022

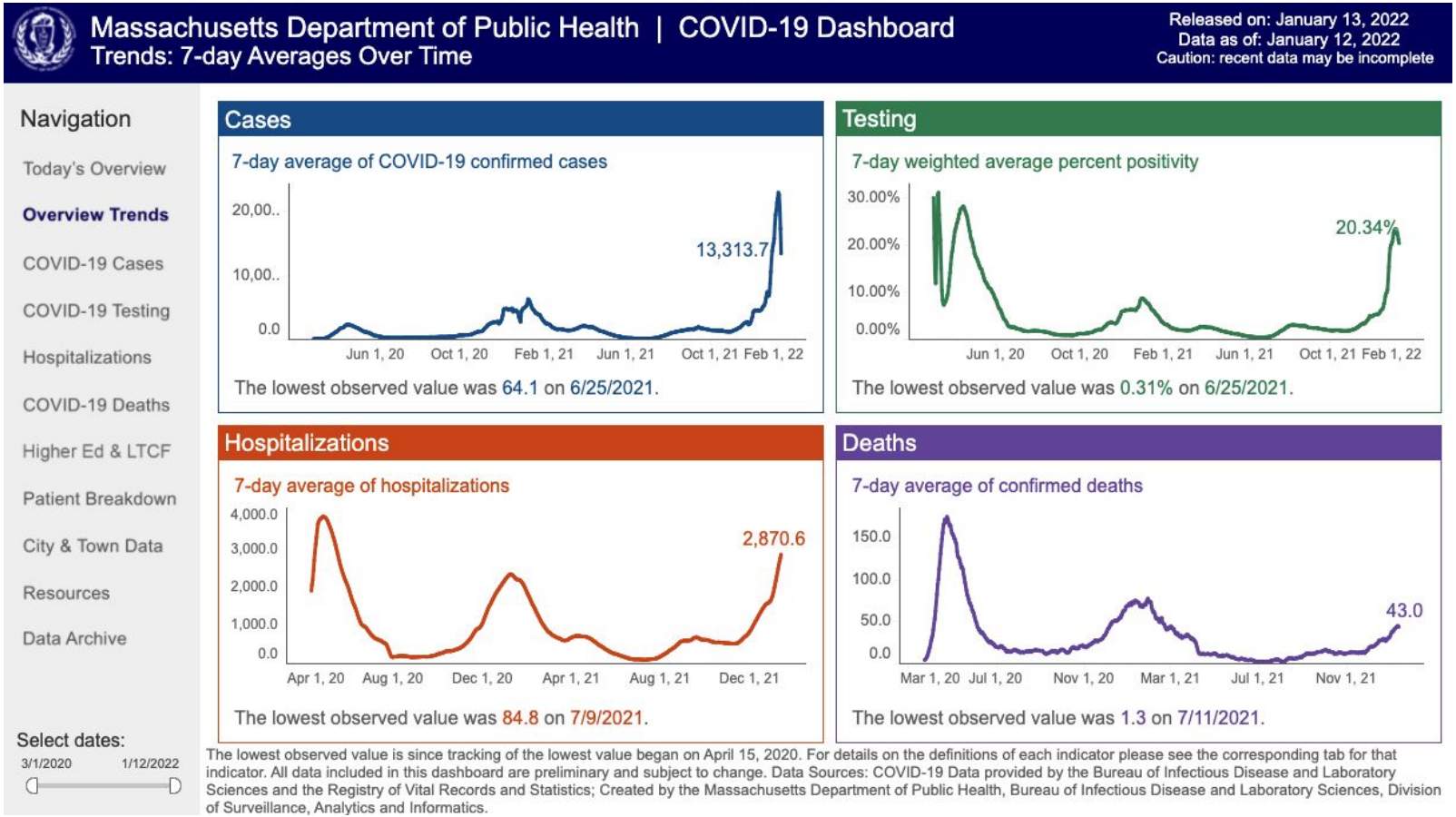
Prepared by Katrina Wilcox Hagberg, MPH

Omicron is here



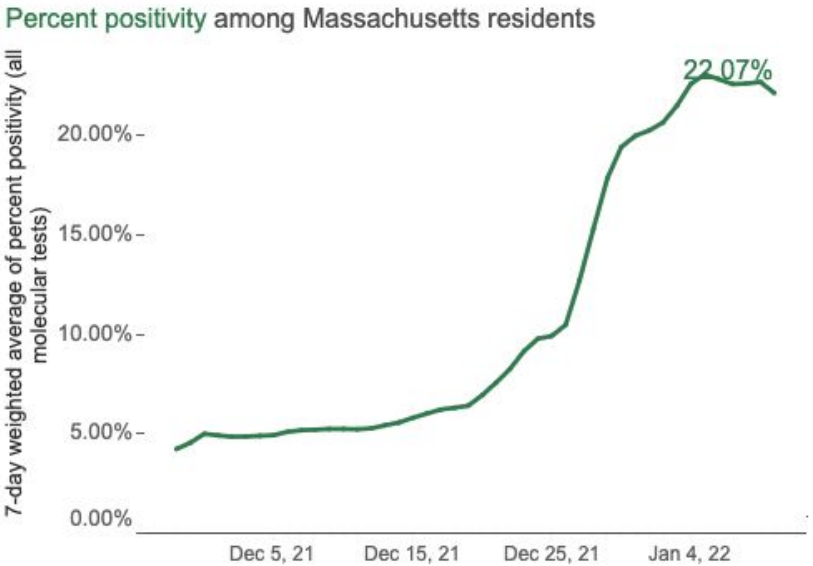
Source: https://covid.cdc.gov/covid-data-tracker/#variant-proportions

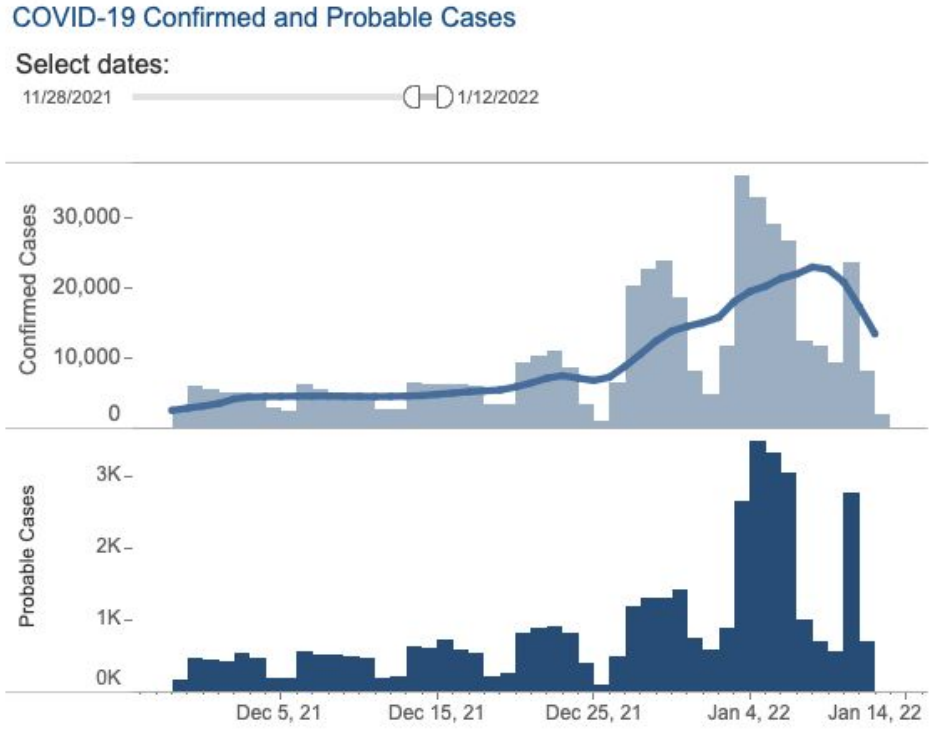
MA State Data



Source: MA DPH Covid Dashboard - www.mass.gov/info-details/covid-19-response-reporting (Overview Trends) - accessed 1/13/2022

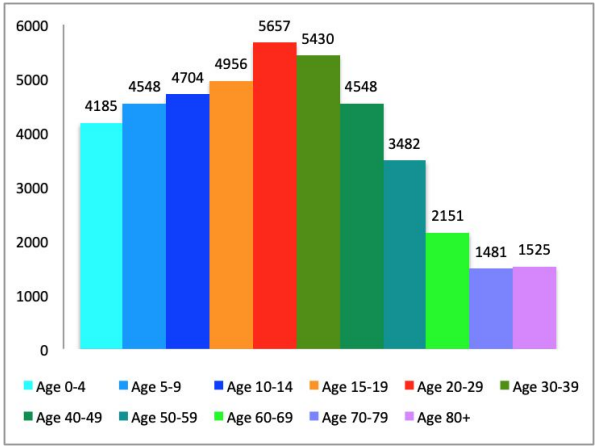
Covid Test Positivity and Cases, past 6 weeks

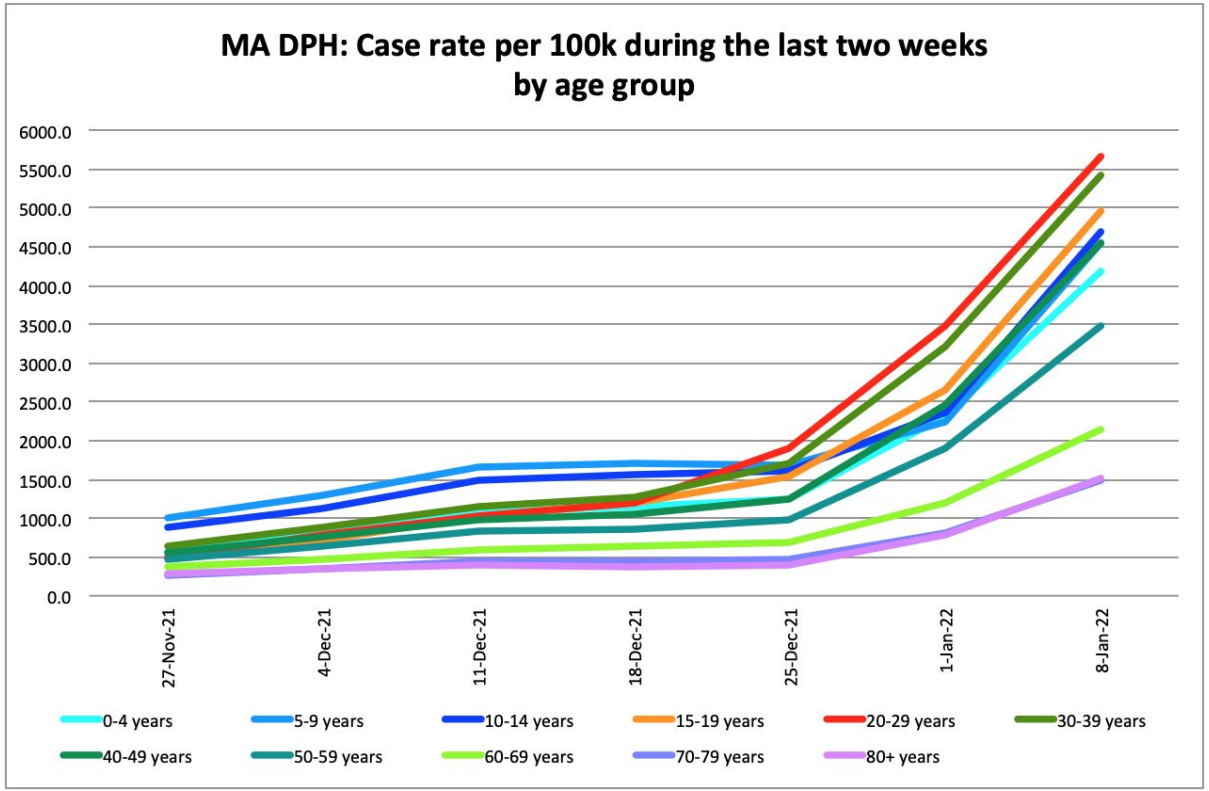




Source: MA DPH Covid Dashboard - www.mass.gov/info-details/covid-19-response-reporting (Overview Trends) - accessed 1/13/2022

Covid Case Rate per 100k by Age Group, last 6 weeks





Data Source: MA DPH Covid Dashboard www.mass.gov/info-details/covid-19-response-reporting (Patient Breakdown) - accessed 1/13/2022

Massachusetts Department of Public Health | COVID-19 Dashboard
Hospitalizations from COVID-19

Released on: January 13, 2022
Data as of: January 12, 2022
Caution: recent data may be incomplete

Navigation

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- **Hospitalizations**
- COVID-19 Deaths
- Higher Ed & LTCF
- Patient Breakdown
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- Resources
- Data Archive

Hospitalizations | ICU & Intubation | Patient Demographics | Bed Occupancy

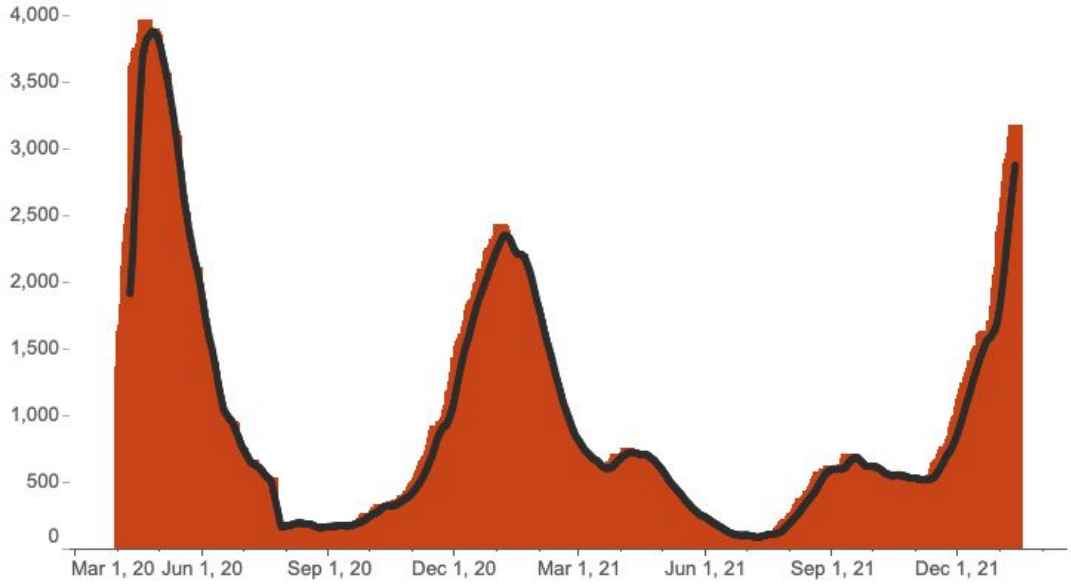
Hospitalizations

On January 12, 2022 there were 3,180 patients hospitalized for COVID-19.

Of those 3,180 patients, 1,505 were reported to be fully vaccinated for COVID-19 when they contracted COVID-19.

Select dates
4/4/2020 — 1/12/2022

Number and 7-day average of COVID-19 patients in the hospital



Hospitalization data provided by the MDPH hospital survey (survey data are self-reported by hospitals). All data included in this dashboard are preliminary and subject to change.
Created by the Massachusetts Department of Public Health, Bureau of Infectious Disease and Laboratory Sciences, Division of Surveillance, Analytics and Informatics.

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Hospitalizations | ICU & Intubation | Patient Demographics | Bed Occupancy

Select a date*:
1/12/2022

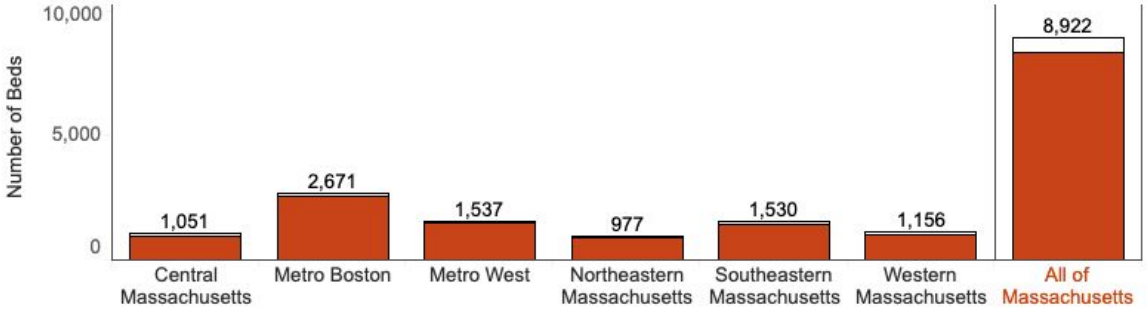
Occupied beds

As of today, 94% of medical/surgical beds are occupied and 87% of ICU beds are occupied.

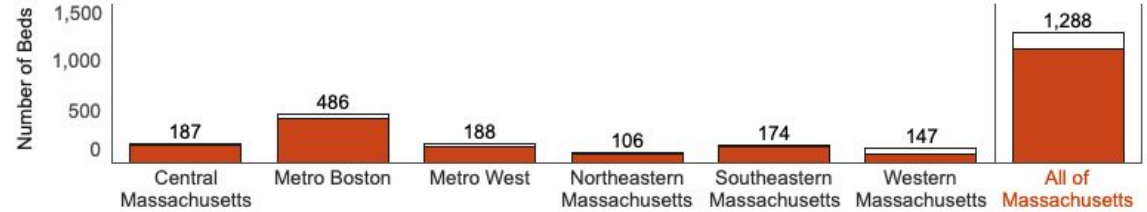
There are currently 0 beds occupied through alternate medical sites.

*The most recent 4 weeks of data are viewable on this page by using the "select a date" menu above. To view data outside of this range, please visit our data archive and download the raw data.

Available and occupied medical/surgical (not ICU) beds by region



Available and occupied ICU beds by region



Hospitalization data provided by the MDPH hospital survey (hospital survey data are self-reported). All data included in this dashboard are preliminary and subject to change. Created by the Massachusetts Department of Public Health, Bureau of Infectious Disease and Laboratory Sciences, Division of Surveillance, Analytics and Informatics.

Massachusetts Department of Public Health | COVID-19 Dashboard
Deaths Caused by COVID-19

Released on: January 13, 2022
Data as of: January 12, 2022
Caution: recent data may be incomplete

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Select dates:
3/10/2020 — 1/10/2022

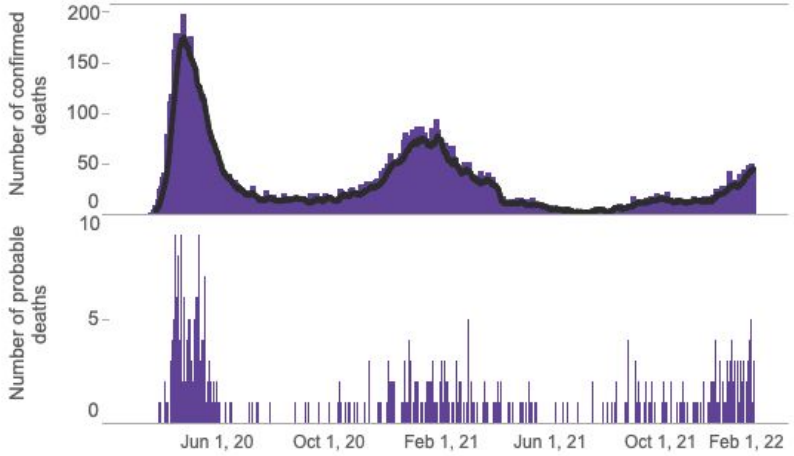
Confirmed Deaths

There were 36 new, confirmed deaths reported. There have been 20,386 confirmed deaths in total.

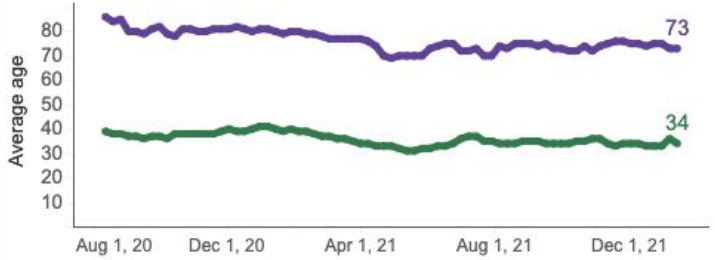
Probable Deaths

There were 1 new, probable deaths reported. There have been 486 probable deaths in total.

Number of COVID-19 confirmed deaths, probable COVID-19 deaths, and 7-day average of confirmed deaths



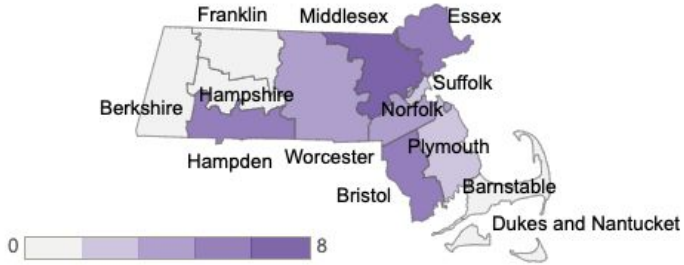
Average ages of people who tested positive for and died of COVID-19



New confirmed and probable deaths reported by county

Select new or total deaths: New confirmed and probable deaths

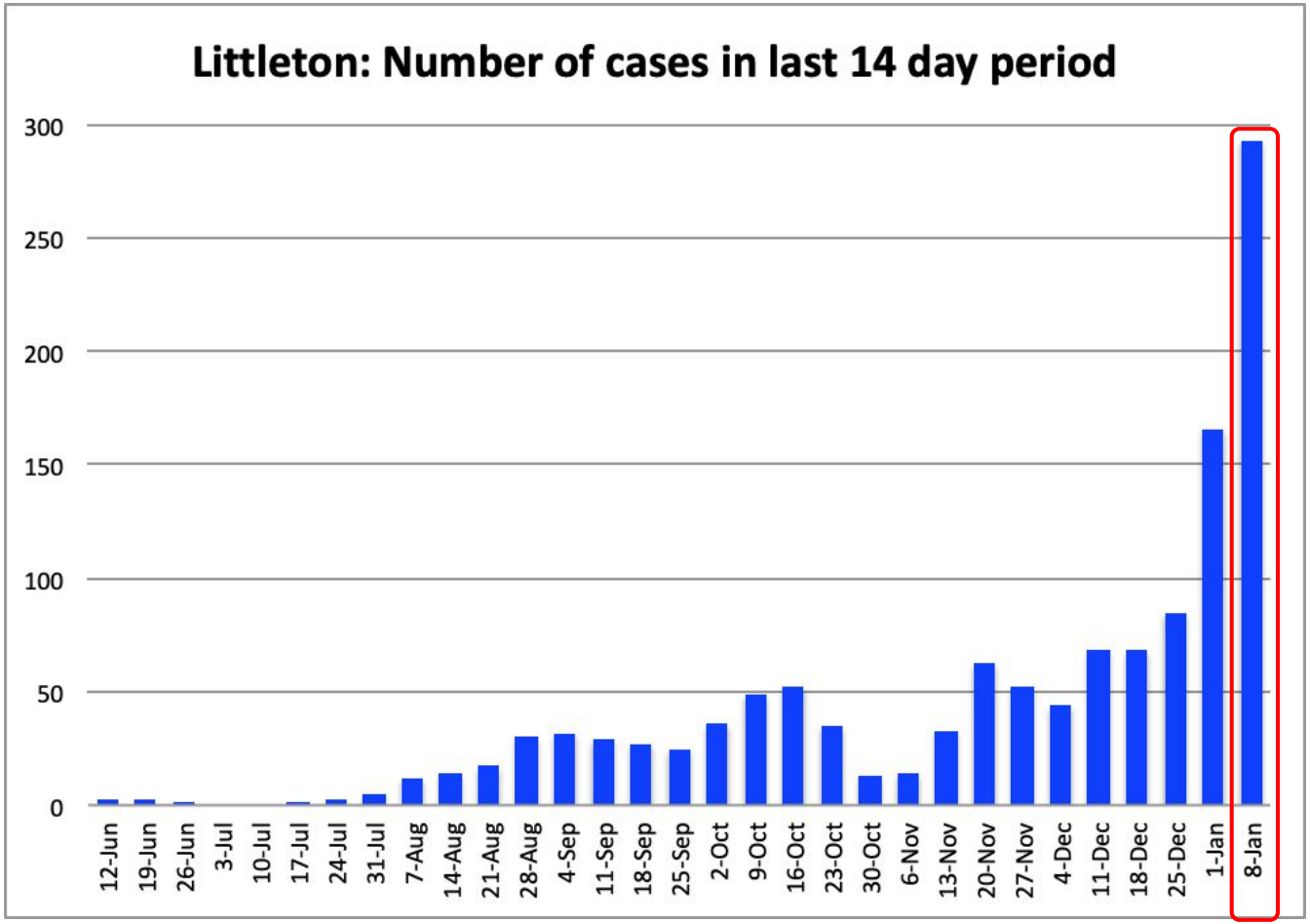
Select a date*: 1/13/2022



All data included in this dashboard re preliminary and subject to change. Data Sources: COVID-19 Data provided by the Bureau of Infectious Disease and Laboratory Sciences and the Registry of Vital Records and Statistics; Created by the Massachusetts Department of Public Health, Bureau of Infectious Disease and Laboratory Sciences, Division of Surveillance, Analytics and Informatics. Case counts for specific cities, towns, and counties change as data cleaning occurs (removal of duplicate reports within the system) and new demographic information (assigning cases to their city or town of residence) is obtained.

*The most recent 30 days of data are viewable on this map. To view data outside of this range, please visit our data archive and download the raw data.

Littleton Data



Data Source: MA DPH Covid Dashboard - www.mass.gov/info-details/covid-19-response-reporting (City and Town Data) - accessed 1/13/22

Littleton and Local Trends - Methods

Town Groupings:

- **Littleton**
- **Border Towns** - Littleton plus Acton, Ayer, Boxborough, Groton, Harvard, Westford
- **Surrounding Communities** - Border Towns plus, Bolton, Carlisle, Chelmsford, Concord, Dunstable, Lancaster, Lunenburg, Maynard, Pepperell, Shirley, Stow
- **495 Belt** - Surrounding Communities plus Ashby, Bedford, Berlin, Boylston, Clinton, Hudson, Leominster, Lincoln, Lowell, Marlborough, Northborough, Shrewsbury, Southborough, Sterling, Sudbury, Townsend, Tyngsboro, Wayland, West Boylston, Westborough, Weston
- **Middlesex County**
- **Massachusetts**

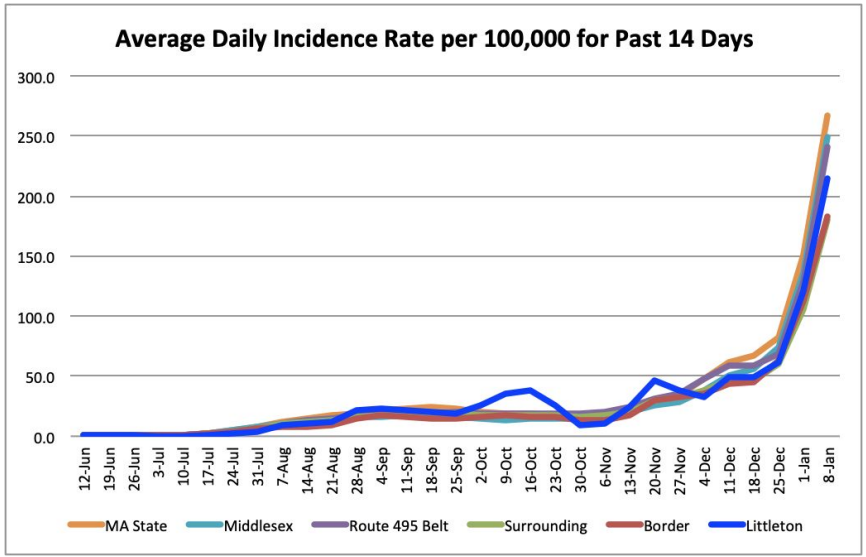
Data Source and Time Period:

- MA DPH Covid Dashboard - www.mass.gov/info-details/covid-19-response-reporting, City and Town Data
- Two week period (Sunday to Saturday) ending the Saturday before the DPH report is released on Thursdays

Calculations:

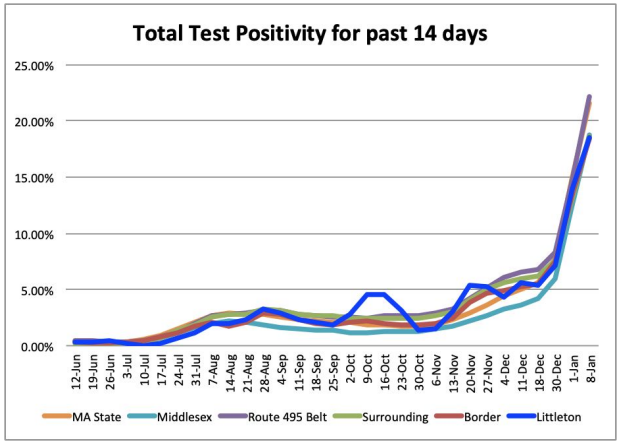
- **Average Daily Incidence Rate** = ((total cases in two week period / 14 days) / population))*100,000
- **Test Positivity** = total positive tests in last two week period / total tests conducted in last two week period

Littleton and surrounding area - trends



- Littleton's average daily incidence rate = 214.5 per 100k (double compared to prior week)
- All other areas we track continue to trend higher rapidly
- **Based on high test positivity, this is an undercount of spread**

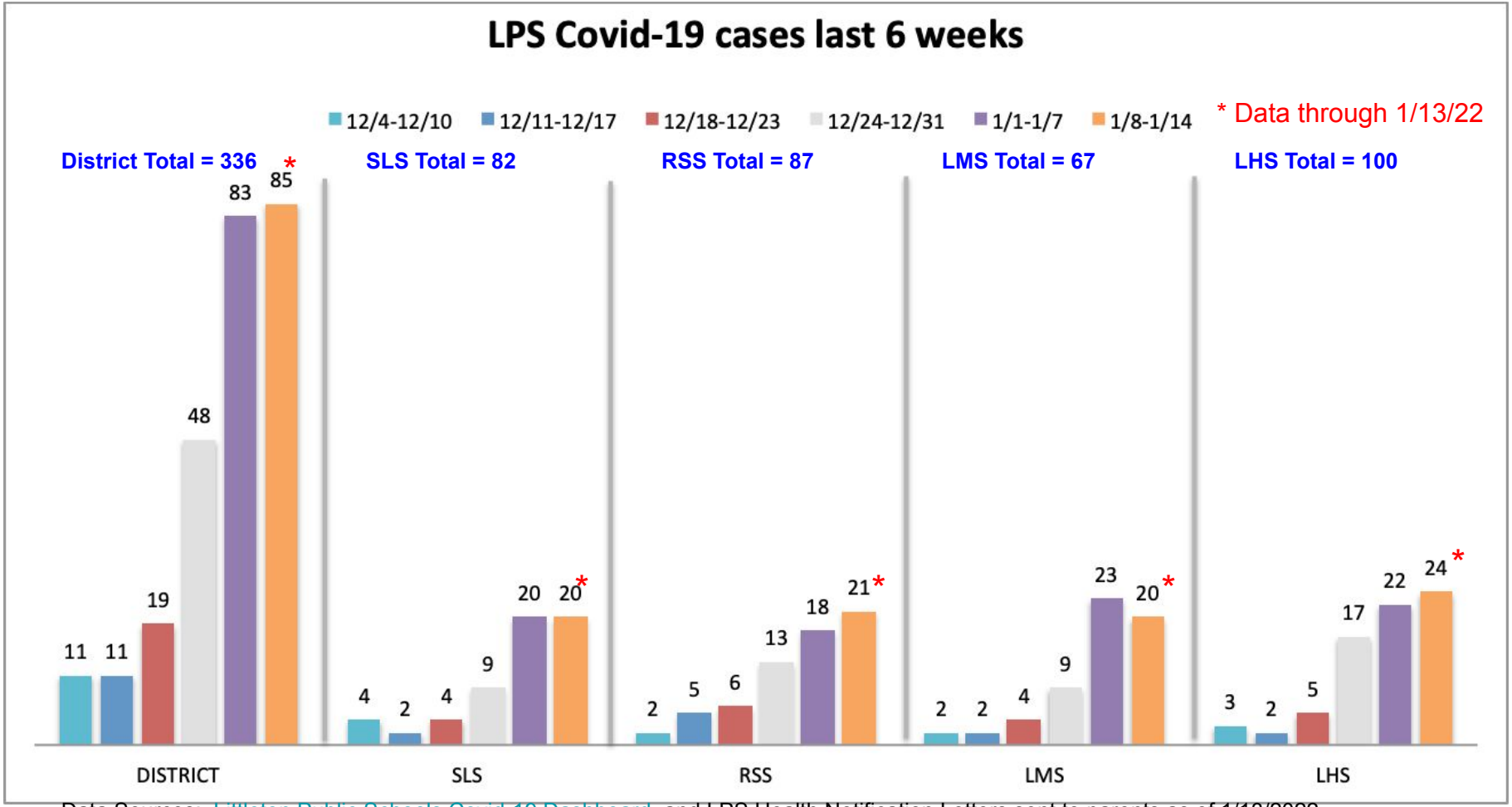
Data Source: MA DPH Covid Dashboard - www.mass.gov/info-details/covid-19-response-reporting (City and Town Data) - accessed 1/13/2022



- Test Positivity = Total Positive tests divided Total Tests Conducted
  - Dependent on access to tests, testing program dynamics, and reporting
  - **Indicates whether enough testing is being conducted and reported to calculate reliable case counts or rates**
  - When test positivity is high (>10%), indicates case counts or rates are an underestimate of true spread in the community
  - **Is <u>NOT</u> a proportion of the population infected**

- Littleton had 1652 tests conducted (higher)
- Littleton's test positivity = 18.5% (higher)
- Similar trend for other areas
- **Indicates case counts are an underestimate of true community spread**

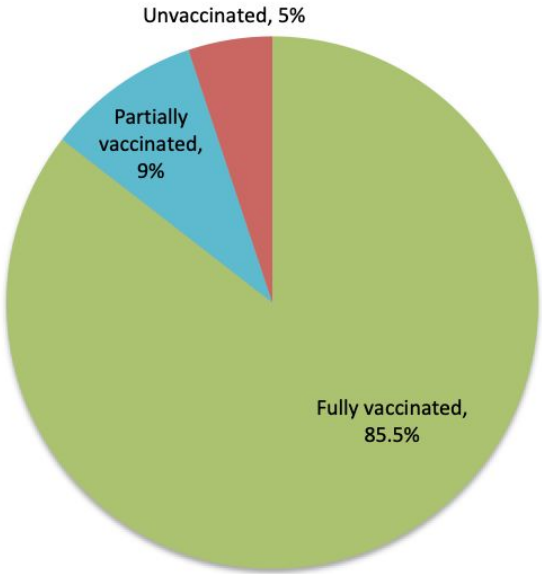
LPS Covid-19 cases last 6 weeks



Data Sources: [Littleton Public Schools Covid-19 Dashboard] and LPS Health Notification Letters sent to parents as of 1/13/2022

Littleton Vaccination Coverage

Age Group	Fully Vaccinated	Partially Vaccinated	Unvaccinated
0-4 years	Not eligible	Not eligible	Not eligible
5-11 years	567 (71%)	130 (16%)	102 (13%)
12-15 years	513 (>95%)	45 (9%)	*
16-19 years	469 (84%)	36 (6%)	54 (10%)
20-29 years	839 (92%)	129 (14%)	*
30-49 years	2143 (>95%)	207 (9%)	*
50-64 years	2206 (89%)	172 (7%)	110 (4%)
65-74 years	979 (>95%)	101 (10%)	*
75+ years	625 (80%)	93 (12%)	67 (9%)
Total	**8341 (85.5%)**	**917 (9%)**	**498 (5%)**



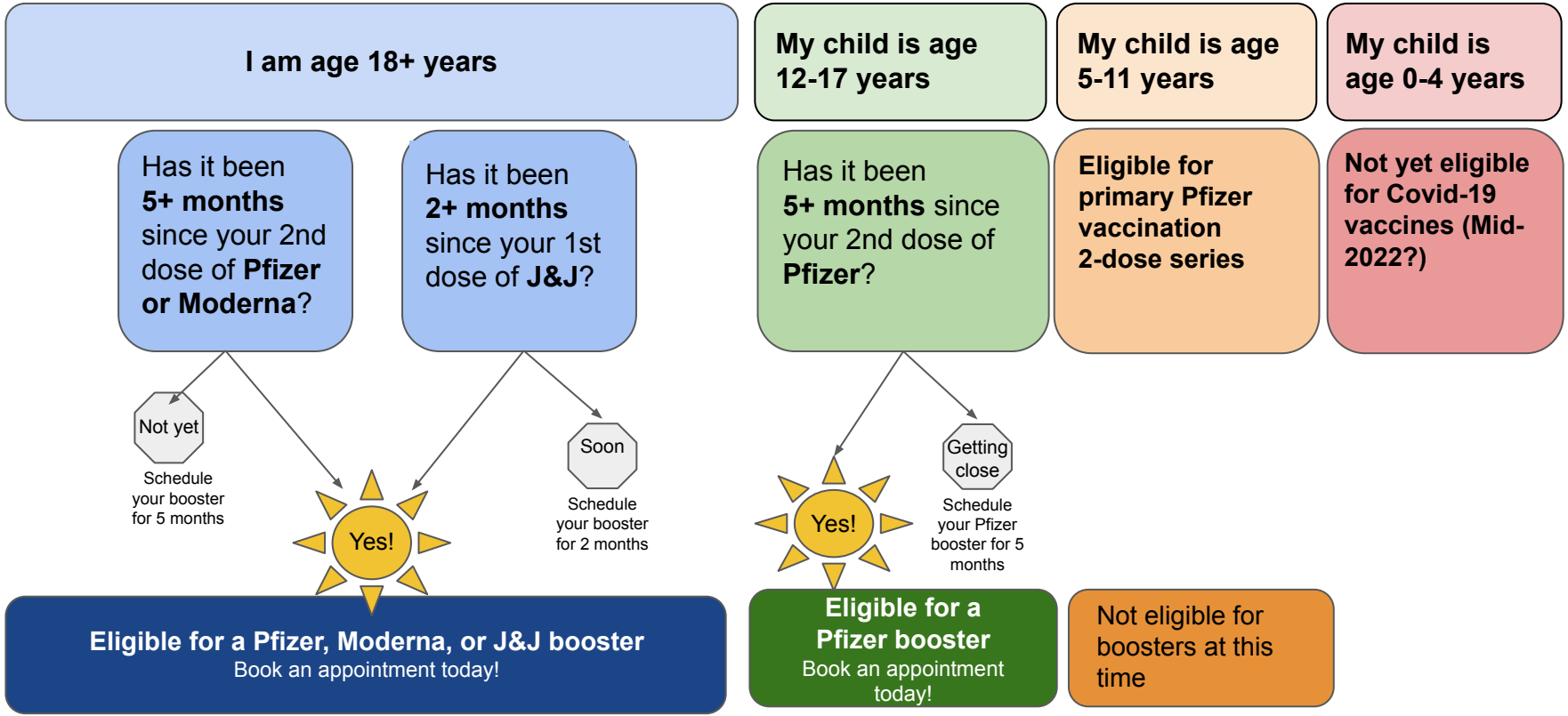
Data Source:
MA DPH Weekly Covid-19 municipality vaccination data - www.mass.gov/info-details/massachusetts-covid-19-vaccination-data-and-updates - accessed 1/13/22
Note: 0-4 data imputed based on population and eligibility.

Littleton Vaccination - Boosters

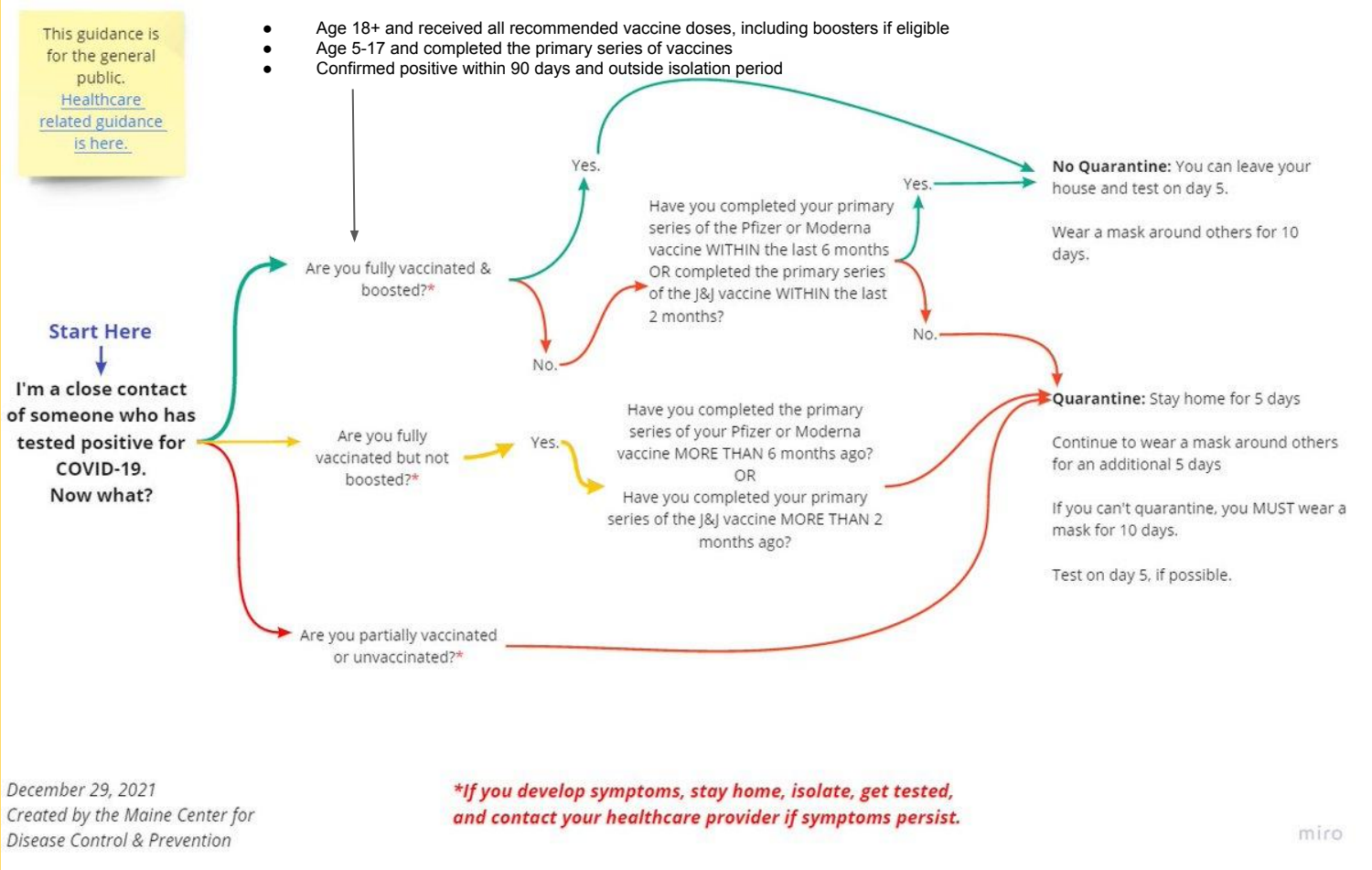
Age Group	Booster Eligible (Full Vax >5 mo)* N fully vax who are booster eligible / N fully vax (% booster eligible)	Boosted N (% eligible who were boosted by 1/13/2022)	Remaining eligible booster targets as of 1/13/2022 N (% eligible)
12-15	394 / 513 (77%) authorized 1/5/22	69 (17.5%)	325 (82%)
16-19	415 / 469 (88%)	226 (54%)	189 (46%)
20-29	743 / 839 (89%)	406 (55%)	337 (45%)
30-49	1893 / 2143 (88%)	1309 (69%)	584 (31%)
50-64	2096 / 2206 (95%)	1454 (69%)	642 (31%)
65-74	916 / 979 (94%)	777 (85%)	139 (15%)
75+	560 / 625 (90%)	445 (79%)	115 (21%)
Total	**7017 / 8341 (84%) are eligible for boosters***	**4686 (67%) of eligible residents have been boosted**	**2331 (33%) are eligible, but not yet boosted**

* conservative estimate because individuals vaccinated with J&J eligible >2 months after vaccination
Data from 1/13/2022 DPH report

Can I get a Covid-19 vaccine or booster?

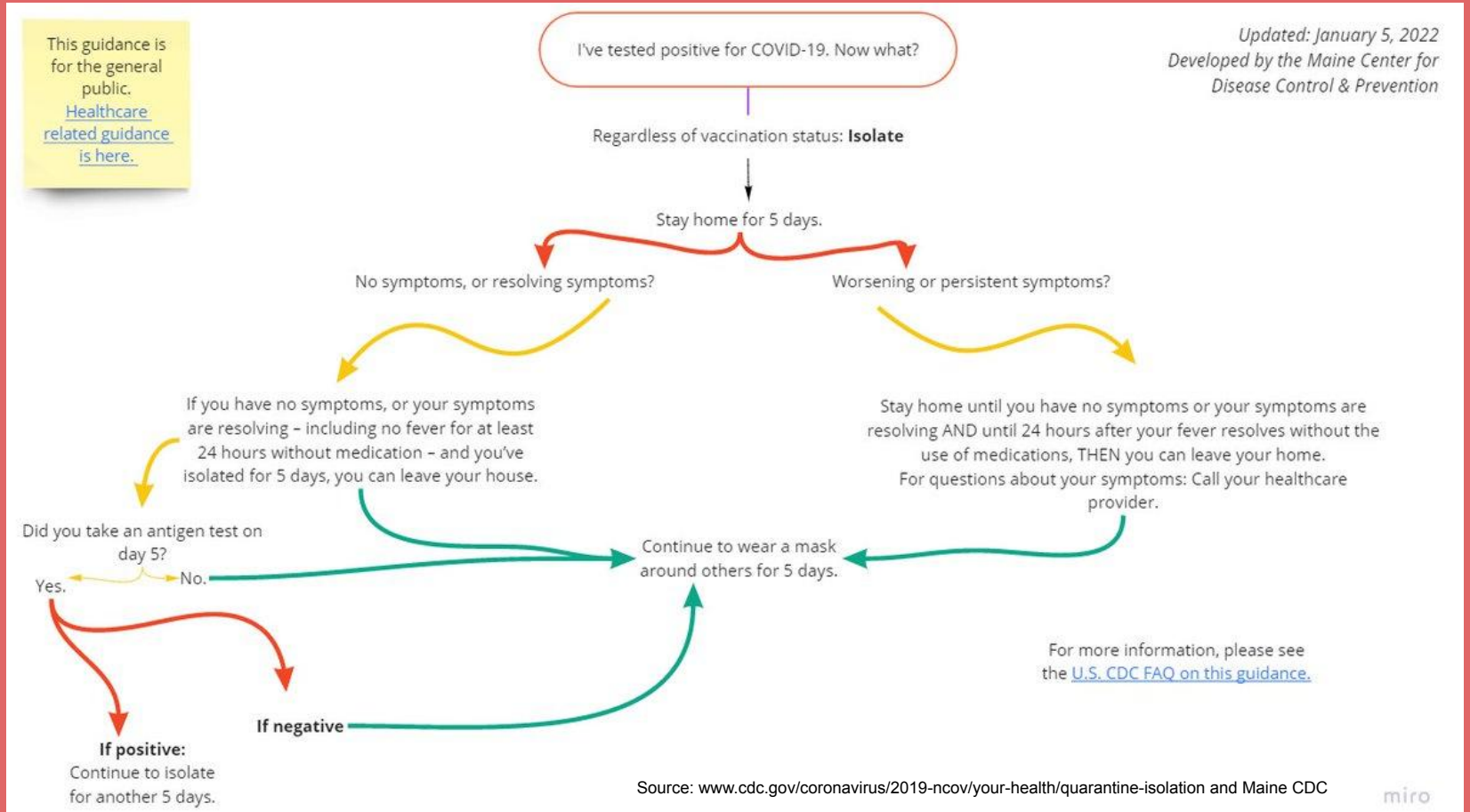


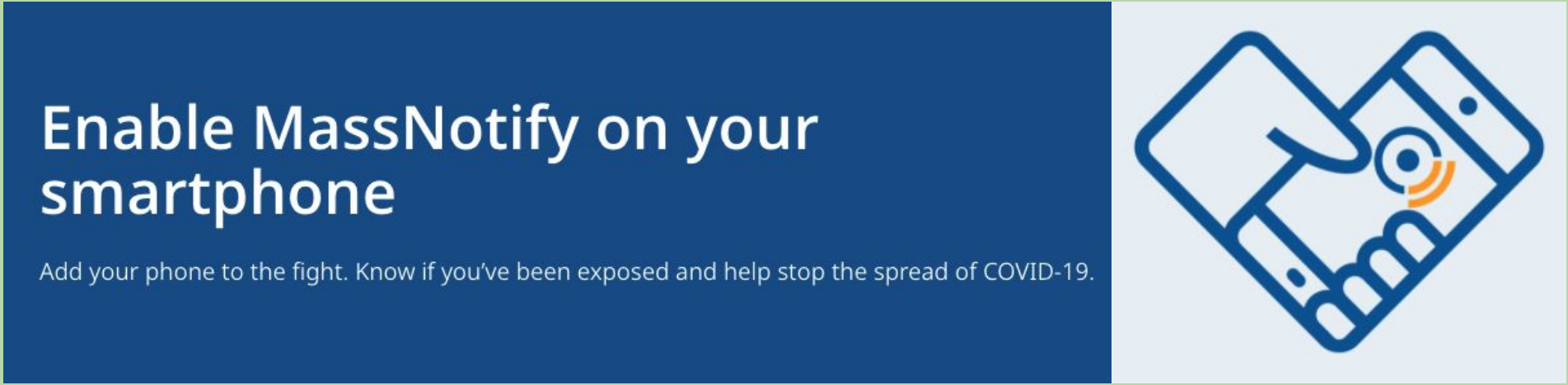
Exposed to someone with Covid-19 - Quarantine



Source: www.cdc.gov/coronavirus/2019-ncov/your-health/quarantine-isolation and Maine CDC

If you test positive for Covid-19 - Isolate



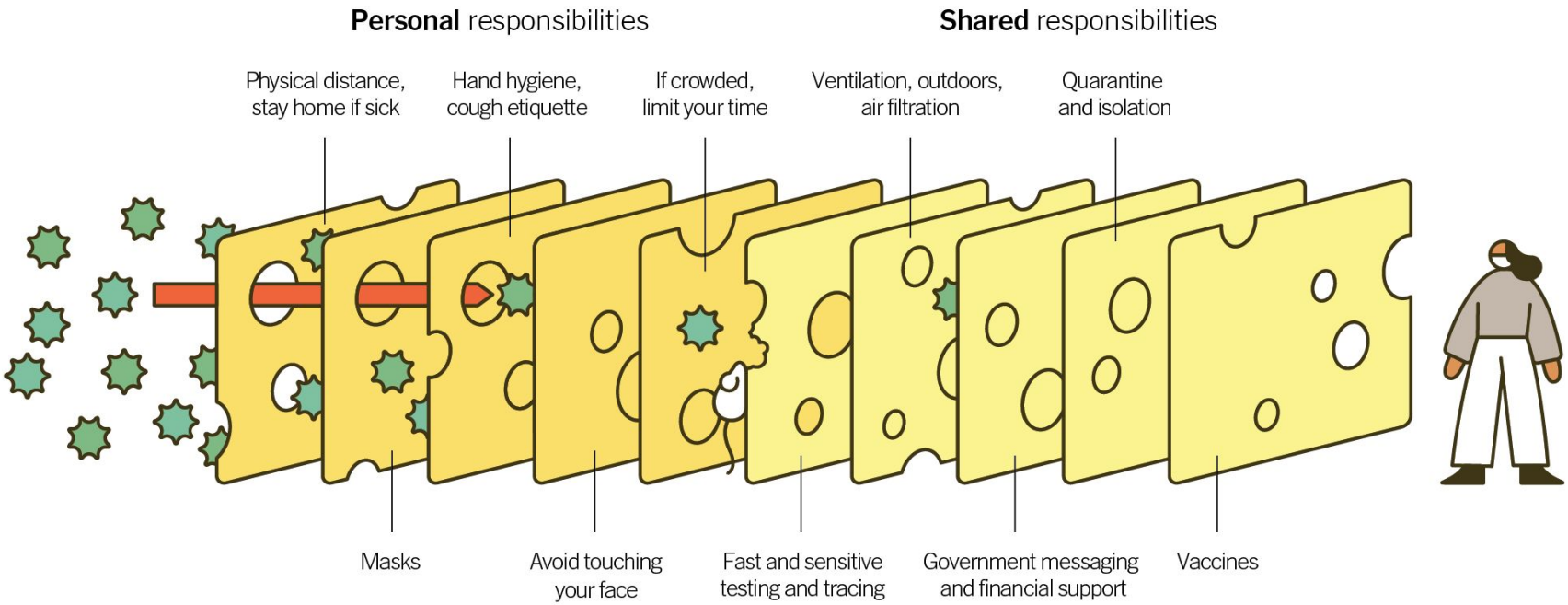


Enable MassNotify on your phone
Report positive case via MassNotify app

www.mass.gov/info-details/enable-massnotify-on-your-smartphone

Multiple Layers Improve Success

The Swiss Cheese Respiratory Pandemic Defense recognizes that no single intervention is perfect at preventing the spread of the coronavirus. Each intervention (layer) has holes.



Source: Adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason. Illustration by Rose Wong

Image from: www.nytimes.com/2020/12/05/health/coronavirus-swiss-cheese-infection-mackay.html