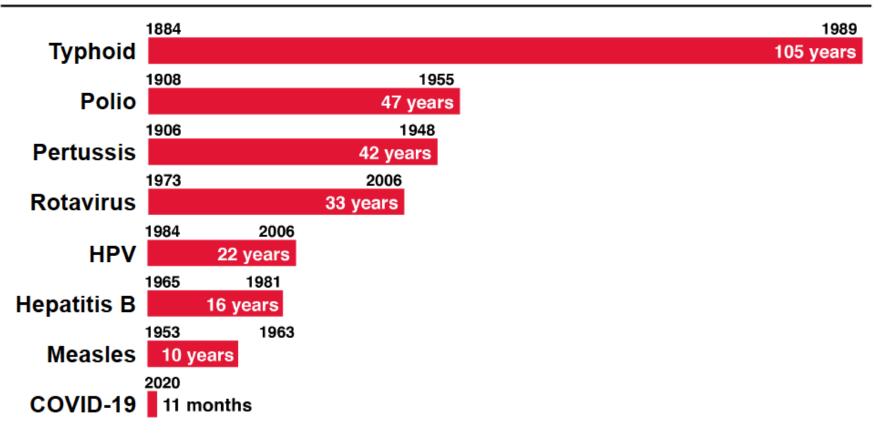
Vaccine Hesitancy Framework

Anna Maria Siega-Riz, PhD

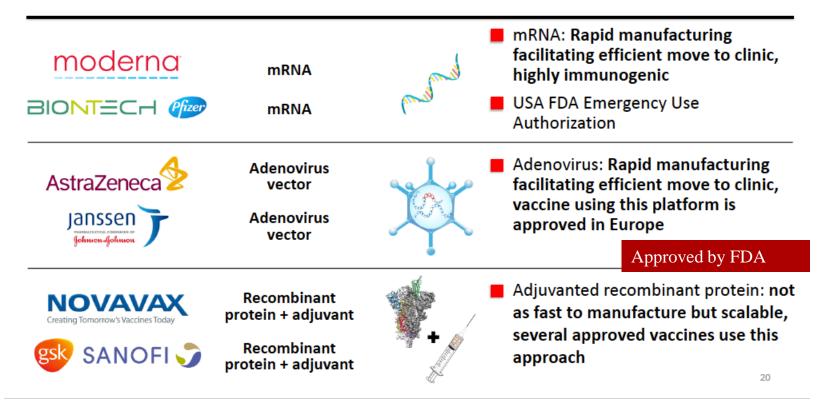
Dean and Professor Departments of Nutrition and Biostatistics & Epidemiology School of Public Health and Health Sciences University of Massachusetts Amherst

Time to Develop a Vaccine



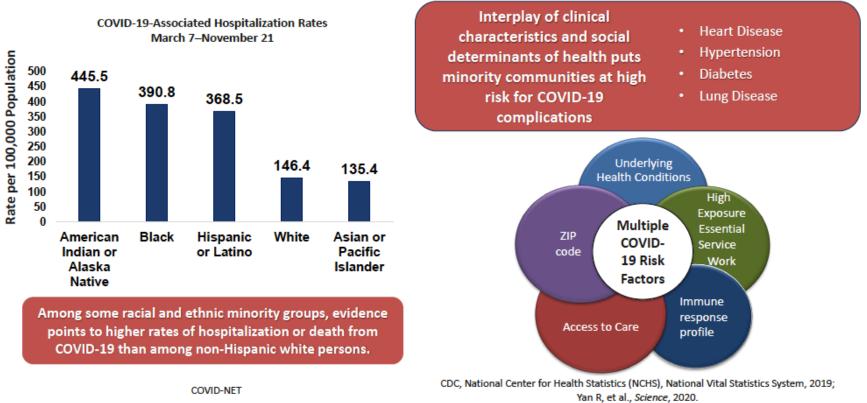
Duration between discovery of microbiologic cause of selected infectious diseases and development of a vaccine. Adapted from AVAC Slide from an NIH update given by Dr. Lawrence Tabak, Principal Deputy Director, NIH 1/29/21

COVID-19 Vaccines in OWS Development



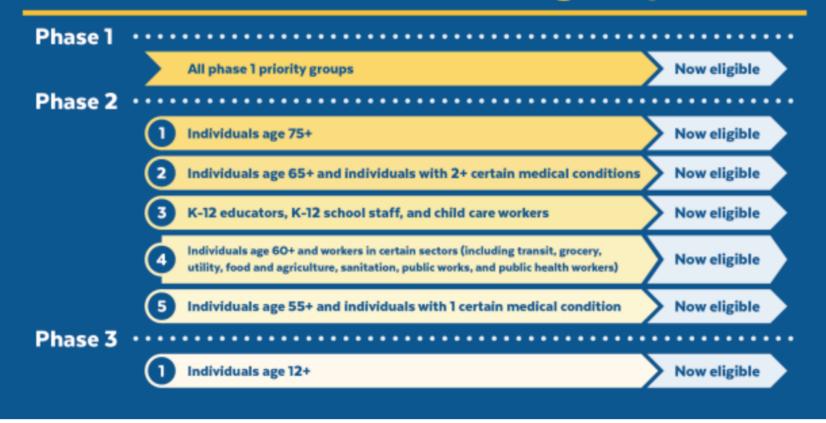
Slide from an NIH update given by Dr. Lawrence Tabak, Principal Deputy Director, NIH 1/29/21

The COVID-19 Pandemic in the U.S. Disproportionately Affects Communities of Color



Slide from an NIH update given by Dr. Lawrence Tabak, Principal Deputy Director, NIH 1/29/21

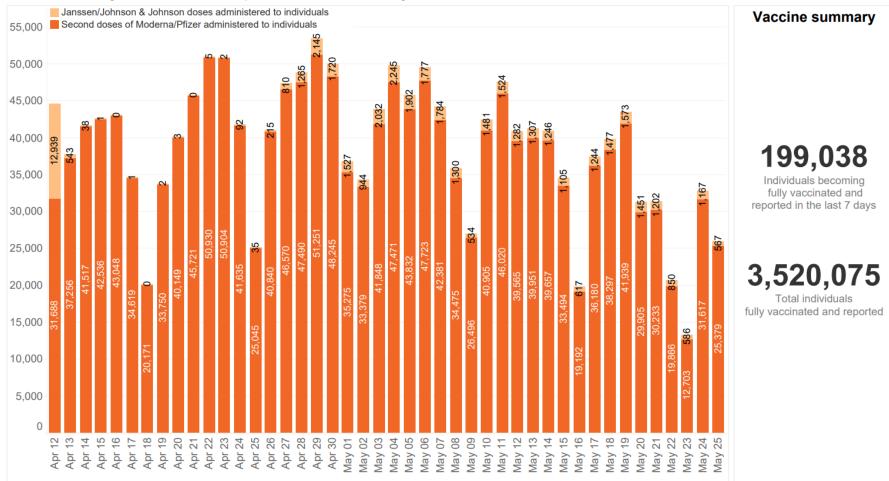
COVID-19 Vaccination in MA: Eligibility Status



Total Individuals Fully Vaccinated

Data as of May 25, 2021

Individuals fully vaccinated and reported in the last 45 days

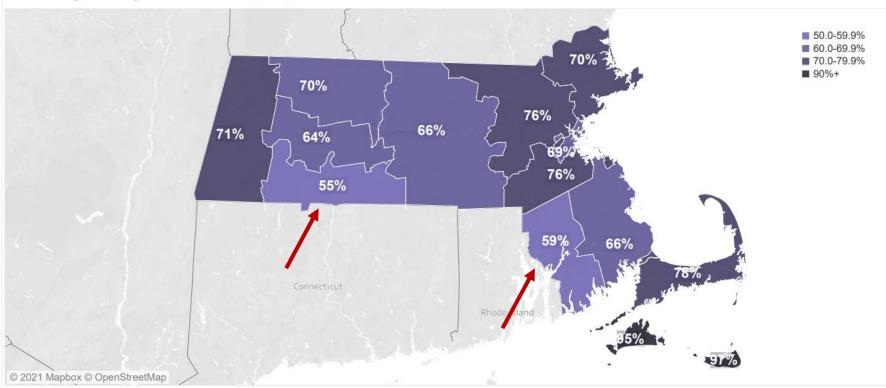


NOTE: Data from MIIS (see "definitions"). Data reflect individuals fully vaccinated (see "definitions"), including with Janssen/Johnson & Johnson beginning on 3/5/21; this is measured as the total number of 2nd doses of Moderna and Pfizer administered and reported plus the total number of Janssen/Johnson & Johnson doses administered and reported. Some individuals may receive a first or second dose of Moderna or Pfizer from a non-reporting provider and would not be included as fully vaccinated. Dates reflect the date doses were administered.

Cumulative Percentage of Eligible Individuals (12+) with at Least One Dose Administered by County of Resident Address

Data as of May 25, 2021

Percentage of Eligible Individuals (12+) with at Least One Dose Administered



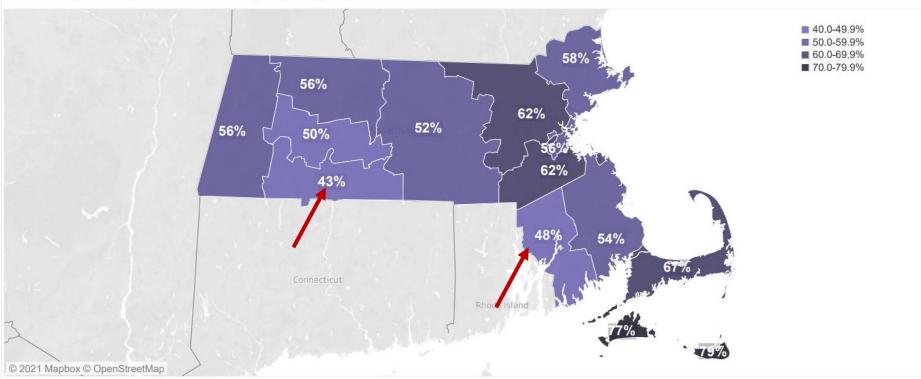
NOTE: Data from MIIS (see "definitions"). Data reflect doses administered and reported (see "definitions"), including Janssen/Johnson & Johnson beginning on 3/5/21. An individual is counted as having at least 1 dose if they have received one or more doses of vaccine. This is measured as the total number of 1st doses of Moderna and Pfizer vaccine administered and reported, plus the total number of Janssen/Johnson & Johnson doses administered and reported. Doses without address records are not included in this view. These proportions use Donahue population estimates from 2019. Colors may be reindexed as data evolve.

Massachusetts Department of Public Health COVID-19 Dashboard - Thursday, May 27, 2021

Cumulative Percentage of Eligible Individuals (12+) who are Fully Vaccinated by County of Resident Address

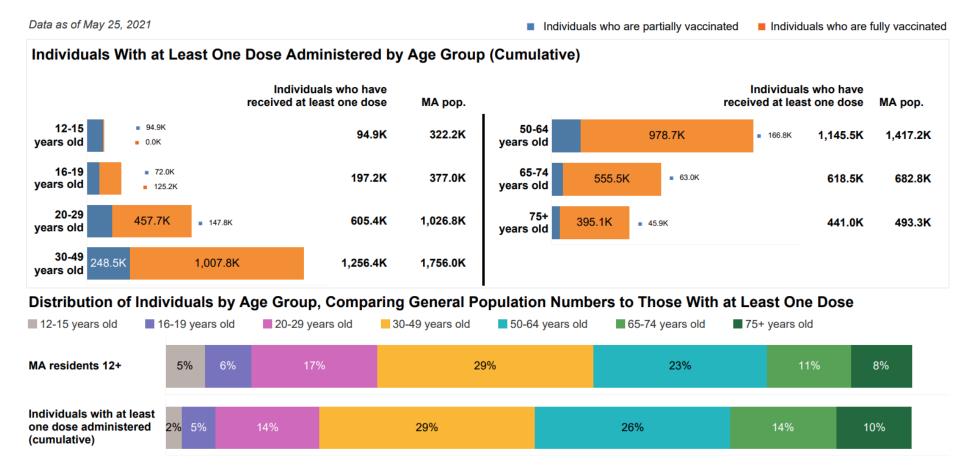
Data as of May 25, 2021

Percentage of Eligible Individuals (12+) Fully Vaccinated



NOTE: Data from MIIS (see "definitions"). Data reflect doses administered and reported (see "definitions"), including Janssen/Johnson & Johnson beginning on 3/5/21. An individual is counted as fully vaccinated if they have received the 2nd dose of Moderna or Pfizer or have received a dose of Janssen/Johnson & Johnson vaccine. Doses without address records are not included in this view. Some individuals may receive a first or second dose of Moderna or Pfizer from a non-reporting provider and would not be included as fully vaccinated. These proportions use Donahue population estimates from 2019. Colors may be reindexed as data evolve.

Cumulative Individuals With at Least One Vaccine Dose Administered by Age Group



School of Public Health **UMassAmherst** & Health Sciences

OPINION

Meet the Four Kinds of People Holding Us Back From Full Vaccination

By Sema Sgaier May 18, 2021

In Massachusetts...

8% are Watchful. They're waiting to see what happens

3% are Cost-Anxious. They want the vaccine but can't afford the time or cost.

1% are System Distrusters. They feel the health care system doesn't treat them fairly.

7% are Covid Skeptics. They don't believe the threat.

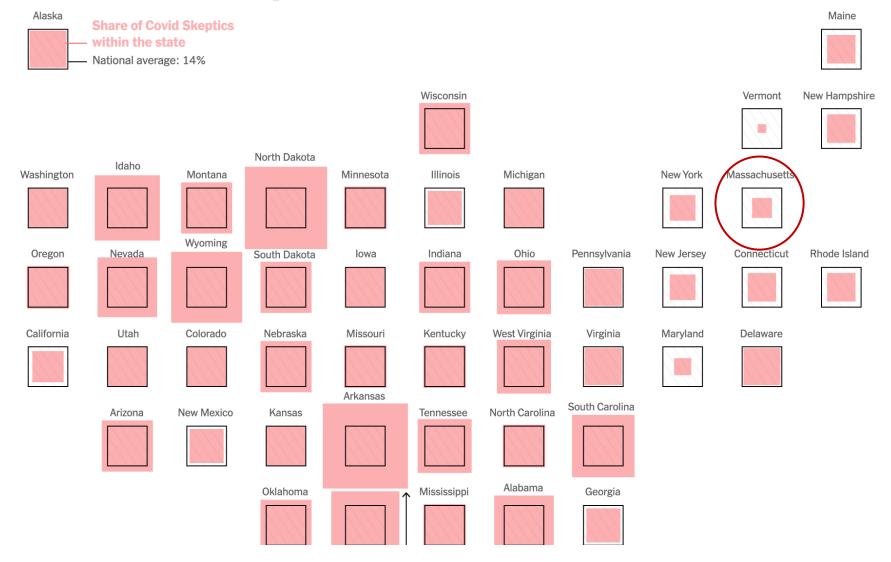




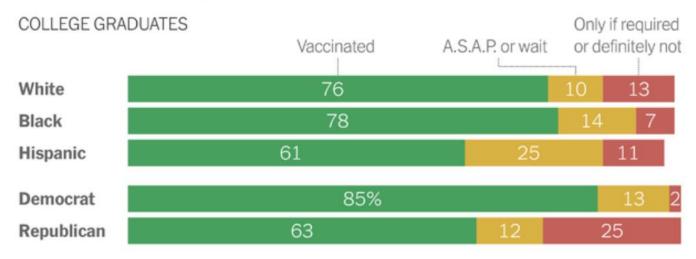
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Covid Skeptics



Vaccine Attitudes by Class



NON-GRADUATES

White	51	24	22	
Black	43	31	23	
Hispanic	45	37	17	
Democrat	58		30 1	1
Republican	39	26	31	

Random survey of 2,097 adults conducted from April 15 to April 29, 2021. Not all figures total to 100 percent; some people did not give an answer.

NY Times 5/24/21 by David Leonhardt Source: Kaiser Family Foundation

Issues to deal with:

- Why the distrust in science?
 - The concept that knowledge evolves overtime seems to hurt us in Public Health.
- Why so much mis-information?
- What are the next steps for reaching those who are not vaccinated?
- How can the lessons learned in MA be used to help other states?

Dayna Campbell, PhD, MPH

President, Board of Directors and co-Executive Director, Women of Color Health Equity Collective, Assistant Professor, American International College in the School of Health Sciences

Commissioner Monica Bharel, MD, MPH

Massachusetts Department of Public Health

Matilde Castiel, MD

Commissioner of Health and Human Services City of Worcester

Robert Finberg, MD

Distinguished Professor of Medicine, University of Massachusetts Medical School, Worcester

Thomas Mountain

Vice Chair, Republican Party