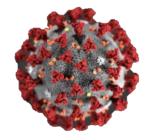
# New Hampshire COVID-19 Healthcare Provider and Public Health Partner Call

April 14, 2022





#### Healthcare Provider & Public Health Partner Calls

- Changing to once a month on the 2<sup>nd</sup> Thursday of each month from 12:00-1:00 pm (Next call will be May 12th)
- Webinar/call information (unchanged):
  - Zoom link: <a href="https://nh-dhhs.zoom.us/s/94059287404">https://nh-dhhs.zoom.us/s/94059287404</a>
  - Webinar ID: 940 5928 7404
  - Passcode: 353809
  - Telephone: 646-558-8656



### Agenda

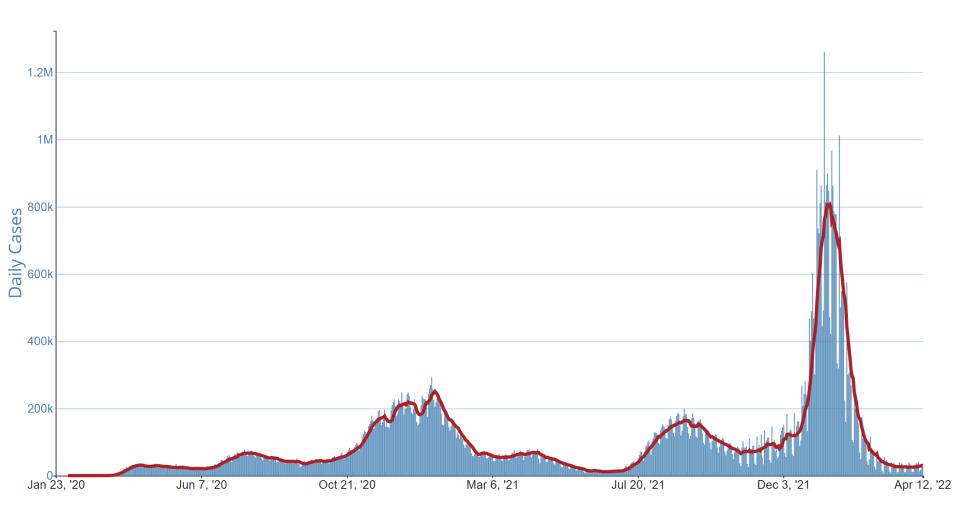
- Epidemiology update
- COVID-19 vaccination guidance update
- Changes to CARES Act test reporting requirements
- COVID-19 association with diabetes and neurological symptoms
- Q&A



## **Epidemiology Update**

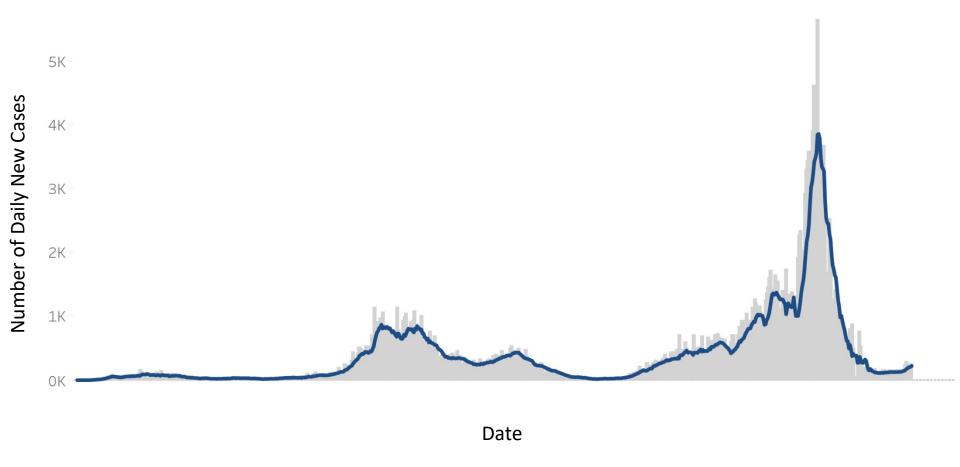


#### U.S. National Daily Incidence of COVID-19

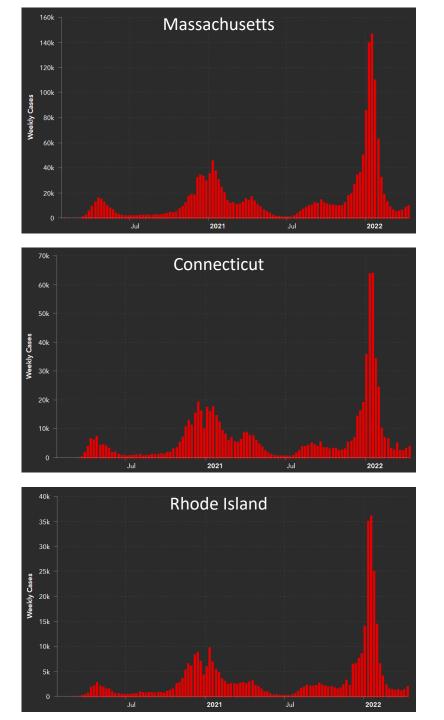


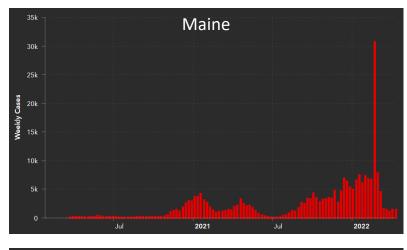


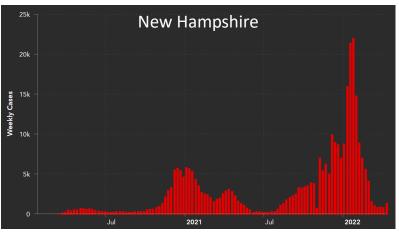
#### Number of New COVID-19 Cases per Day in NH

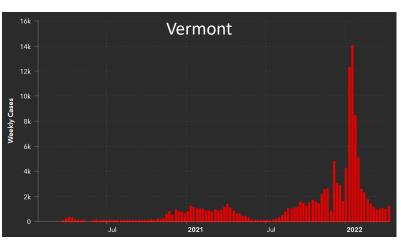




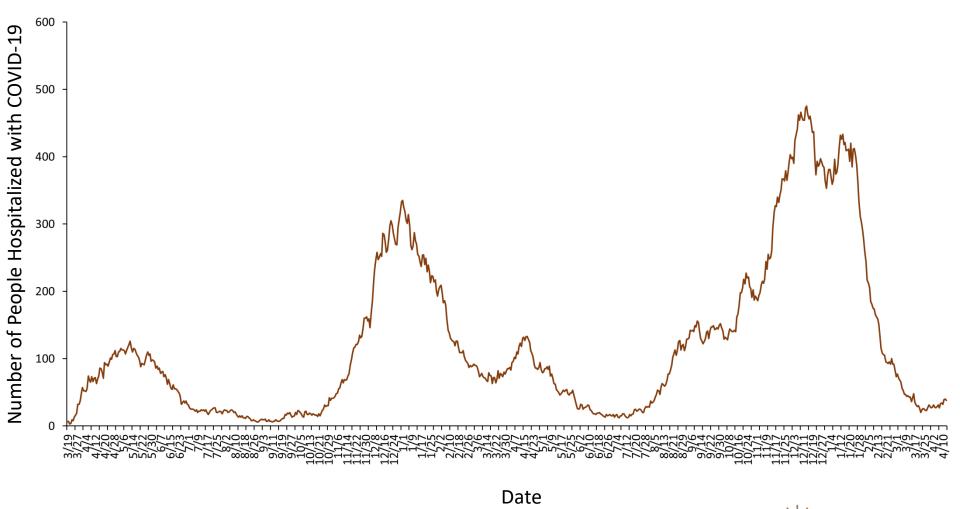




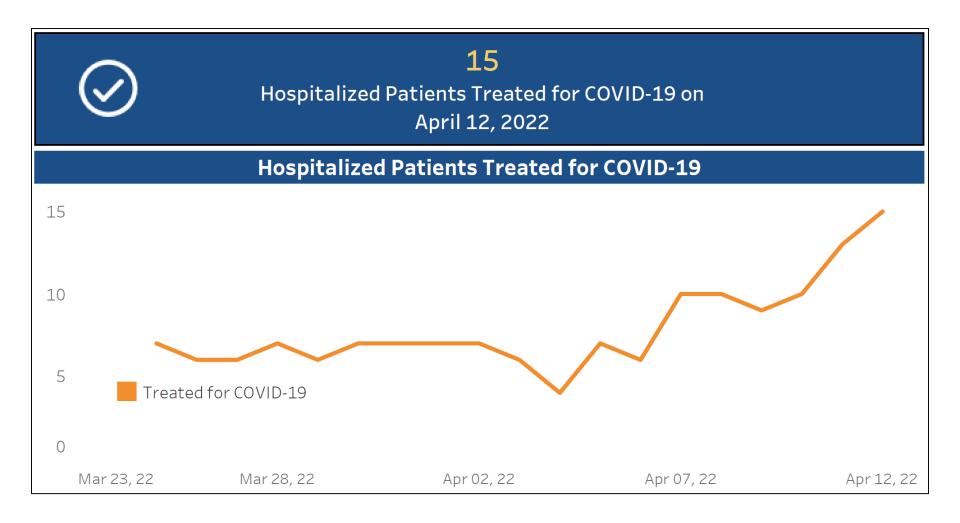




## Number of People Hospitalized with COVID-19 Each Day in NH (Hospital Census)

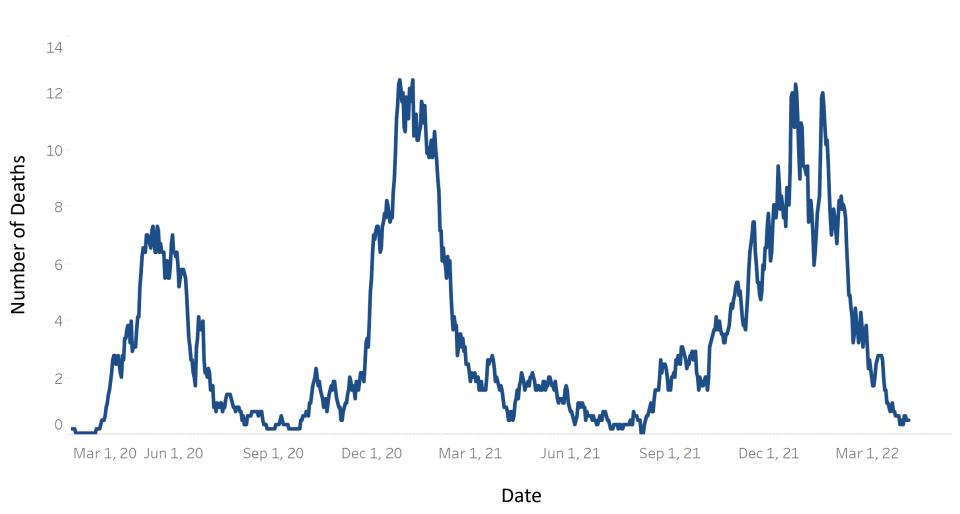


## Number of People <u>Hospitalized & Treated</u> for COVID-19 in NH

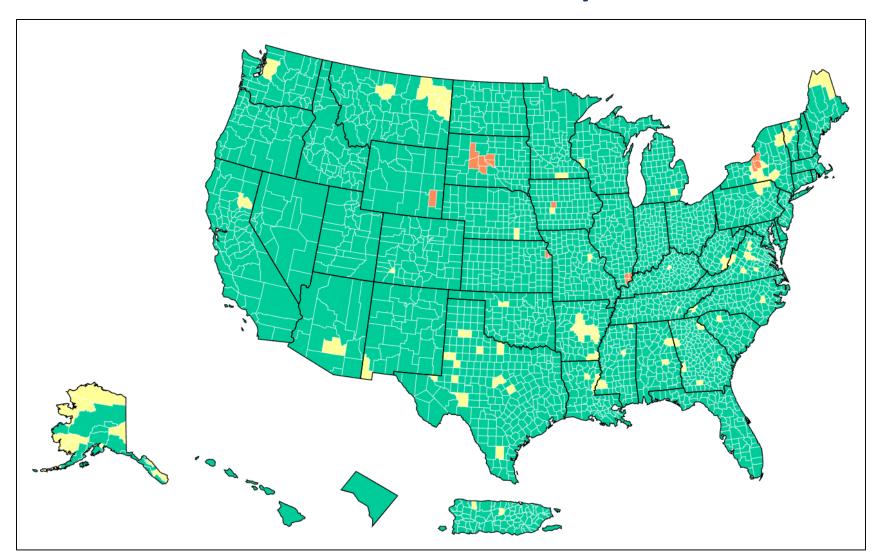




## Average Number of COVID-19 Deaths per Day in NH (Based on Date of Death)



## CDC's COVID-19 Community Levels





# **COVID-19 Vaccination Guidance Update**



#### THIS IS AN OFFICIAL NH DHHS HEALTH ALERT

Distributed by the NH Health Alert Network DHHS.Health.Alert@dhhs.nh.gov
March 31, 2022 Time 1700 (5:00PM EDT)
NH-HAN 20220331



#### COVID-19 Pandemic, Update # 59 Updated Vaccine Recommendations and Test Reporting Requirements

#### **Key Points and Recommendations:**

- The CDC has updated their <u>Interim Clinical Considerations for Use of COVID-19 Vaccines</u> to allow for a 2<sup>nd</sup> booster dose in certain persons (in addition to other updates):
  - Persons 12 years of age or older who are moderately or severely immunocompromised may choose to receive a 2<sup>nd</sup> mRNA booster at least 4 months after their 1<sup>st</sup> booster
  - All persons 50 years of age or older (regardless of immunocompromised status) may choose to receive a 2<sup>nd</sup> mRNA booster at least 4 months after their 1<sup>st</sup> booster
  - Persons 18-49 years of age (regardless of immunocompromised status) who received the Janssen COVID-19 vaccine for <u>both</u> their primary series and 1<sup>st</sup> booster may receive a 2<sup>nd</sup> mRNA booster at least 4 months after their Janssen booster
  - Providers should note that time intervals differ depending on the vaccine product a person received for primary vaccination, their immunocompromised status, and booster dose number (see COVID-19 vaccination schedules, and <u>Table 2</u> & <u>Table 3</u>)
  - Review updated guidance when vaccinating people with a <u>history of Multisystem</u> Inflammatory Syndrome in children (MIS-C) or adults (MIS-A)
  - Review CDC's updated table of vaccine Contraindications and Precautions
  - Review <u>Appendix D</u> (Tables D1 and D2) for additional guidance on primary series and additional dose vaccination in people moderately or severely immunocompromised
  - There will soon be a <u>new multi-dose vial presentation</u> of the Moderna vaccine with a blue cap (see new <u>FDA Fact Sheet</u>) which is authorized for use ONLY as a 50 mcg booster dose (not for primary series vaccination); however, it is administered at a <u>different volume</u> then a 50 mcg booster dose given from a Moderna vial with a red cap (see separate <u>FDA Fact Sheet</u>)
- The federal <u>CARES Act</u> has updated COVID-19 test reporting requirements (see also CDC <u>Lab Advisory</u>). Beginning April 4<sup>th</sup>:
  - All Nucleic Acid Amplification Test (NAAT) results (positive, negative, inconclusive, etc.) which are performed in a facility certified by CLIA must continue to be reported
  - Only positive antigen (or other rapid non-NAAT) test results must be reported from providers and testing locations operating under a CLIA certificate; negative antigen tests do NOT need to be reported
  - At-home or self-administered tests do NOT need to be reported
  - Antibody test results do NOT need to be reported
  - See NH DPHS guidance for <u>reporting point of care test results</u>



## 2<sup>nd</sup> Booster Doses with an mRNA Vaccine Are Allowed ("May Choose") for Certain Persons

- Any person 50 years of age or older (regardless of immunocompromised status or which primary series vaccine a person received)
- Persons 12-49 years of age who are moderately-severely immunocompromised
- Persons 18-49 years of age (regardless of immunocompromised status) who received the Janssen COVID-19 vaccine for BOTH their primary series and 1<sup>st</sup> booster
  - Note: persons who received the Janssen vaccine for their primary vaccination followed by an mRNA booster do NOT qualify for a 2<sup>nd</sup> booster





Morbidity and Mortality Weekly Report

March 29, 2022

Effectiveness of Homologous and Heterologous COVID-19 Booster Doses Following 1 Ad.26.COV2.S (Janssen [Johnson & Johnson]) Vaccine Dose Against COVID-19–Associated Emergency Department and Urgent Care Encounters and Hospitalizations Among Adults — VISION Network, 10 States, December 2021–March 2022

- The VISION Network: studied real-world vaccine effectiveness (VE) for the following groups:
  - Janssen primary + Janssen booster (2 Janssen)
  - Janssen primary + mRNA booster (1 Janssen/1 mRNA)
  - mRNA primary + mRNA booster (3 mRNA)
- Evaluated VE during time period of 12/16/21 3/7/22 (Omicron)
- Evaluated VE at preventing lab-confirmed COVID-19 associated ED/UC encounters and hospitalizations



### **Study Results**

TABLE 2. Vaccine effectiveness\* of 1 primary Janssen vaccine dose, homologous and heterologous boosters following primary Janssen vaccination, and 3 mRNA COVID-19 vaccine doses<sup>†</sup> against laboratory-confirmed COVID-19–associated emergency department and urgent care encounters and hospitalizations among adults aged ≥18 years<sup>§</sup> — VISION Network, 10 states, December 2021–March 2022<sup>¶</sup>

Medical event, vaccination status (days since most recent dose)	Total	Positive SARS-CoV-2 result, no. (%)	VE %* (95% CI)
<b>ED/UC events</b> (N = 80,287)			
Unvaccinated (Ref)	52,025	23,560 (45.3)	Ref
1 Janssen dose ≥14 days earlier (median = 262 days [range = 196–293])	4,514	1,652 (36.6)	24 (18–29)
2 Janssen doses (7–120 days)	467	135 (28.9)	54 (43–63)
1 Janssen/1 mRNA dose (7–120 days)	1,271	166 (13.1)	79 (74–82)
3 mRNA doses (7–120 days)	22,010	2,614 (11.9)	83 (82–84)
Hospitalizations (N = 25,244)			
Unvaccinated (Ref)	15,424	7,271 (47.1)	Ref
1 Janssen dose ≥14 days earlier (median = 264 days [range = 199–294])	1,451	518 (35.7)	31 (21–40)
2 Janssen doses (7–120 days)	164	47 (28.7)	67 (52–77)
1 Janssen/1 mRNA dose (7–120 days)	373	59 (15.8)	78 (70–84)
3 mRNA doses (7–120 days)	7,832	775 (9.9)	90 (88–91)

**Abbreviations:** ED = emergency department; UC = urgent care; Ref = referent group; VE = vaccine effectiveness.



## COVID-19 vaccination schedule for people who are **not** moderately or severely immunocompromised\*

Vaccine	0 month	1 month	2 month	3 month	4 month	5 month	6 month	7 month	8 month	9 month	10 month	11 month
Pfizer- BioNTech (ages 5-11 years)	1 <sup>st</sup> dose	2 <sup>nd</sup> dose (3 weeks after 1 <sup>st</sup> dose)										
Pfizer- BioNTech (ages 12 years and older)		2nd dose† (3-8 weeks after 1nd dos	se)				looster dose‡ at least 5 months after	' 2"d dose)		S	ee footnote <sup>5</sup>	
Moderna (ages 18 years and older)	1 <sup>st</sup> dose	2 <sup>nd</sup> dose† (4-8 weeks after 1	1 <sup>st</sup> dose)				Booster dose‡ (at least 5 months dose)	s after 2 <sup>nd</sup>			See footnote <sup>§</sup>	
Janssen (ages 18 years and older)	1st dose		Booster dose‡ (at least 2 months after 1st dose)				See footnote <sup>5</sup>					

## COVID-19 vaccination schedule for people who are moderately or severely immunocompromised

Vaccine	0 month	1 month	2 month	3 month	4 month	5 month	6 month	7 month	8 month	9 month
Pfizer- BioNTech (ages 5-11 years)	1 <sup>st</sup> dose	2 <sup>nd</sup> dose (3 weeks after 1 <sup>st</sup> dose)	3rd dose (at least 4 weeks after 2rd dose)							
Pfizer- BioNTech (ages 12 years and older)	1 <sup>st</sup> dose	2 <sup>nd</sup> dose (3 weeks after 1 <sup>st</sup> dose)	3rd dose (at least 4 weeks after 2rd dose)		Boos dose' (at lea 3 mon after dose)	ist oths				See footnote <sup>5</sup>
	1st dose	2 <sup>nd</sup> dose (4 weeks after 1 <sup>st</sup> dose)	3rd dose (at least 4 weeks after 2rd dose)			Booster dose* (at least 3 months after 3 <sup>nd</sup> dose)				See footnote <sup>§</sup>
Janssen (ages 18 years and older)	1 <sup>st</sup> dose	2 <sup>nd</sup> (additional) dose' using an mRNA COVID-19 vaccine (at least 4 weeks after 1st dose)		Booster dose* (at least 2 months after additional dose)				See footnote <sup>§</sup>		

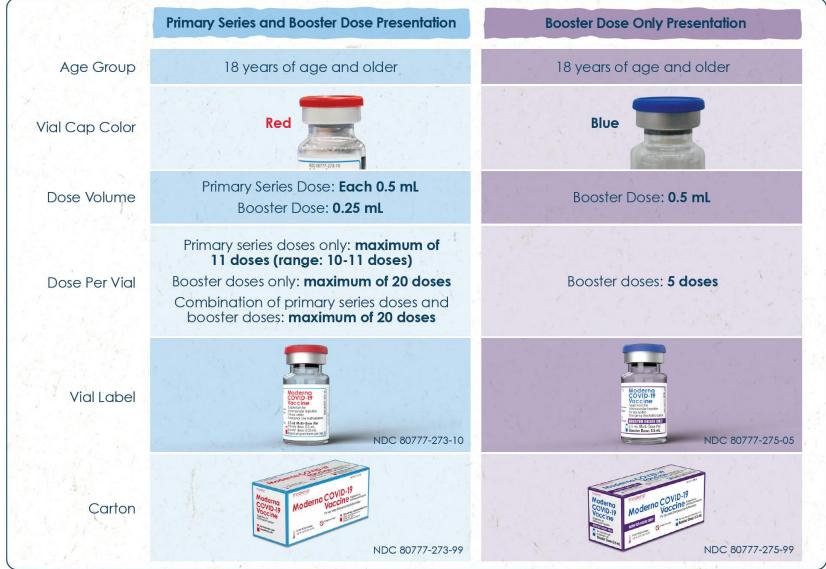
#### D1. People who are moderately or severely immunocompromised and initiate a Janssen COVID-19 Vaccine primary series

COVID-19 vaccination history	And	Then	Next dose due
1 dose	The dose was Janssen COVID-19 Vaccine	Administer a second (additional) dose using an mRNA vaccine at least 28 days after the 1st dose.  • Pfizer: 0.3mL, or  • Moderna 0.5mL (red cap)	Administer a booster dose at least 2 months after the 2nd dose.*+  • Pfizer: 0.3mL, or  • Moderna: 0.25mL (red cap) or 0.5 mL (blue cap), or  • Janssen: 0.5mL (mRNA is preferred over Janssen)
2 doses	Both doses are Janssen COVID-19 Vaccine	Administer a third (additional) dose using an mRNA vaccine at least 2 months after the 2nd dose.  • Pfizer: 0.3mL, or  • Moderna: 0.5mL (red cap)	No additional vaccinations needed.†
	1 dose of Janssen COVID-19 Vaccine and 1 dose of an mRNA COVID-19 vaccine (given as booster dose, i.e., Pfizer 0.3mL or Moderna 0.25mL [red cap], or Moderna 0.5mL [blue cap]) ‡	Administer a third (additional) dose using an mRNA vaccine at least 2 months after the 2nd dose.  • Pfizer: 0.3mL, or  • Moderna: 0.5mL (red cap)	No additional vaccinations needed.+
	1 dose of Janssen COVID-19 Vaccine and 1 dose of an mRNA COVID-19 vaccine (given as additional dose, i.e., Pfizer 0.3mL or Moderna 0.5mL [red cap]) ‡	Administer a booster dose of any COVID-19 vaccine 2 months after the 2nd dose.  • Pfizer: 0.3mL, or  • Moderna: 0.25mL (red cap) or 0.5mL (blue cap), or  • Janssen: 0.5mL (mRNA is preferred over Janssen)	No additional vaccinations needed.†

#### D2. People who are moderately or severely immunocompromised and initiate an mRNA COVID-19 vaccine primary series

COVID-19 vaccination history	And	Then	Next dose due
1 dose	The dose was an mRNA vaccine	Administer a second primary series dose of the same mRNA vaccine  • 3 weeks after the first dose, if Pfizer-BioNTech  • 4 weeks after the first dose, if Moderna	Administer a third primary series dose of the same mRNA vaccine at least 4 weeks after the second dose. Then, administer a booster dose at least 3 months after the third dose.*+
2 doses	The 2 doses are the same mRNA vaccine (both Pfizer-BioNTech or both Moderna)	Administer a third primary series dose of the same mRNA vaccine at least 28 days after the second dose.	Administer a booster dose at least 3 months after the third primary series dose.*+
	The 2 doses are different mRNA vaccines (1 dose Pfizer-BioNTech and 1 dose Moderna)	Administer a third primary series dose of either mRNA vaccine at least 28 days after the second dose.	Administer a booster dose at least 3 months after the third primary series dose.*+
	The 2 doses are different types of vaccines (1 dose of an mRNA vaccine and 1 dose of Janssen )	This is considered a Janssen COVID-19 Vaccine primary series. Administer an additional dose of Pfizer-BioNTech or Moderna at least 28 days after the Janssen COVID-19 Vaccine.	Administer a booster dose at least 2 months after the additional mRNA vaccine dose.*+
3 doses	3 primary series doses of an mRNA vaccine (includes 3 doses of the same mRNA vaccine or a mixed mRNA vaccine series)	Administer a booster dose of any vaccine (mRNA preferred) at least 3 months after the last dose given.  • Pfizer: 0.3 mL, or  • Moderna 0.25 mL (red cap) or 0.5 mL (blue cap), or  • Janssen: 0.5 mL (mRNA is preferred over Janssen)	No additional vaccinations needed.+
	2 primary series doses of an mRNA vaccine and 1 booster dose of any vaccine	Administer a fourth dose of an mRNA vaccine at least 3 months after the last dose given.  • Pfizer: 0.3 mL, or  • Moderna 0.5 mL (red cap)	No additional vaccinations needed.†

### New Moderna Presentation/Vial (Blue Cap)



#### Nuanced Aspects of COVID-19 Vaccination

- Terminology: Primary series vs. "additional dose" vs. booster dose
  - The "additional dose" is for people who are moderately-severely immunocompromised
  - In certain situations the "additional dose" can be given after a "booster dose" (see Appendix D)
  - A single booster dose is recommended for everybody 12 years of age and older and now certain people are permitted ("may choose") to receive a 2<sup>nd</sup> booster dose
- Permissive vaccine recommendations ("may choose") for a 2<sup>nd</sup> booster dose for certain people
- "Self-attestation" process is recommended for people who are moderatelyseverely immunocompromised
- Number of doses permitted ranges from 2 doses up to 5 doses dependent on primary vaccine series product and immunocompromised status
- Moderna booster is a different dose compared to the primary series or "additional dose" (50 mcg booster vs. 100 mcg)



#### **Nuanced Aspects of COVID-19 Vaccination**

- Multiple <u>vaccine presentations/formulations</u> for the Pfizer-BioNTech COVID-19 vaccine (purple cap and gray cap vials for persons 12 years of age or older, and an orange cap vial pediatric formulation for children 5-11 years of age)
- Moderna has a new "presentation" (blue cap vial) which is only authorized for booster dose vaccination (50 mcg dose), but that dose is given as a different volume than when giving a booster dose from a red cap vial (0.5 mL from blue cap vial vs. 0.25 mL from red cap vial)
- Time interval for the 2<sup>nd</sup> dose in a primary series dose is a range: 3-8 weeks after first dose for Pfizer, 4-8 weeks after first dose for Moderna primary series (general public)
- Booster dose time intervals vary from 2-5 months depending on primary series vaccine received, immunocompromised status, and booster dose number
- Complicated list of medical screening questions and vaccine <u>contraindications</u> and <u>precautions</u>
- <u>Emergency Use Instructions</u> (EUI) for people who got vaccinated in another country with a non-FDA authorized COVID-19 vaccine (e.g., AstraZeneca COVID-19 vaccine)

# Changes to CARES Act COVID-19 Test Reporting Requirements



#### **CARES Act COVID-19 Test Reporting Updates**

- All Nucleic Acid Amplification Test (NAAT) results which are performed at a CLIA-certified facility must continue to be reported to NH DPHS
- Only positive antigen tests (or other rapid non-NAAT) test results need to be reported from providers and testing locations operating under a CLIA certificate
  - Negative antigen tests do NOT need to be reported
- At-home or self-administered tests do NOT need to be reported
- See NH DPHS guidance for <u>reporting point-of-care test results</u>



#### Additional Information for Laboratories

#### How to Report COVID-19 Laboratory Data

Updated Apr. 4, 2022 Print

#### Summary of Recent Changes

Updates as of April 4, 2022

• Effective April 4, 2022, HHS and CDC announced revisions to COVID-19 <u>laboratory reporting guidance</u> [287 KB, 9 pages]. Reporting of negative results for non-NAAT tests (rapid or antigen test results) is no longer required. However, testing sites must still report data for all positive diagnostic and screening testing completed for each individual test.



# **COVID-19 Association with Diabetes** and Neurological Symptoms



Table, Patient Characteristics During the	e Year of the COVID-19 Pandemica Compared With Prior	lears
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Characteristic	COVID-19 Year <sup>a</sup>	Pre-COVID-19 by 5 years <sup>a</sup>	P value
Total children, No.	187	641	NA
Age, mean (SD), y	9.6 (4.2)	9.7 (4.2)	.82
HbA <sub>1c</sub> at presentation, mean (SD), %	11.6 (1.8)	11.7 (1.9)	.52
Body mass index z score, mean (SD)	-0.4 (1.8)	-0.4 (1.6)	.72
Children requiring insulin infusion, % (95% CI)	49.7 (42.6-56.8)	40.7 <sup>b</sup>	.01
Children requiring PICU admission, % (95% CI)	8.6 (5.3-13.4)	6.4 <sup>b</sup>	.39

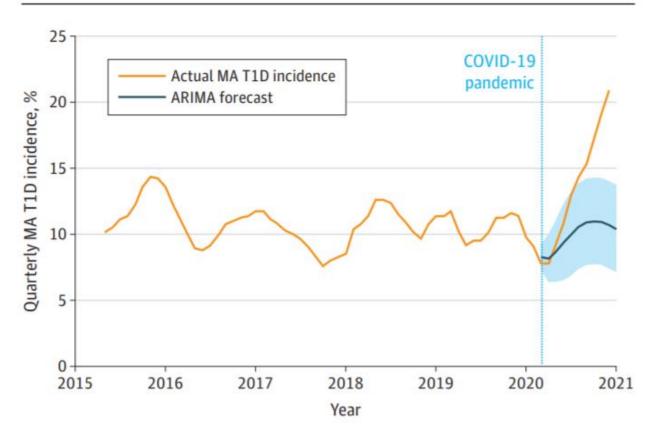
JAMA Pediatrics. Jan 24, 2022. doi:10.1001/jamapediatrics.2021.5801

Incidence of NewOnset Type 1 Diabetes
Among US Children
During the COVID-19
Global Pandemic

- Four studies higher rate of presenting with T1D in DKA during pandemic, reflective of delayed health-seeking
- San Diego Children's Hospital observed increase in T1D, conducted 6y retrospective incidence review
  - T1D Ab, HA1c, +/- DKA, +/- PICU adm, COVID test
- Mar 2020-2021, 57% increase in T1D; inc DKA
  - Only 4 had active COVID by PCR (no Ab)



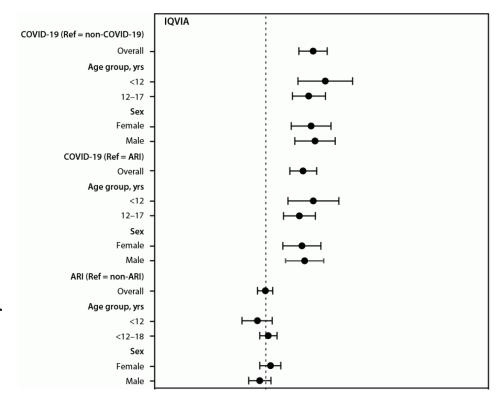
Figure. Autoregressive Integrated Moving Average (ARIMA) Forecast and Quarterly Moving Average (MA) of New Type 1 Diabetes (T1D) Cases



Another reason to vaccinate young children?

## New <u>CDC Study</u>

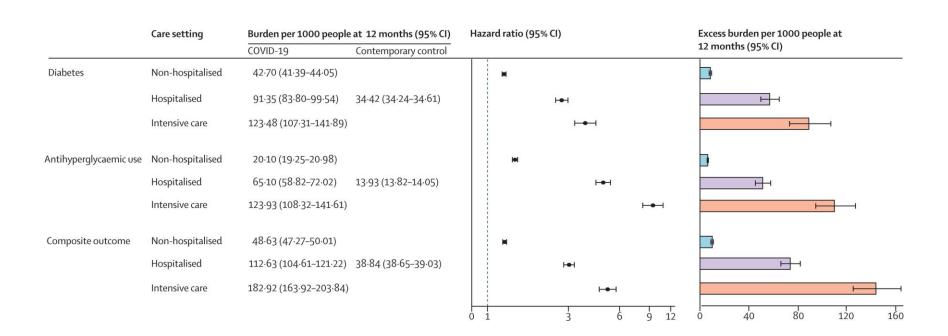
- Analysis of 2 national medical claim databases with info for >2.5M patients <18y Mar 1 2020 – Feb 26 2021
- Compared to those without COVID and those with AURI, children diagnosed with COVID-19 were 2.66 times more likely to receive new diabetes diagnosis >1mo after infection



## Type 2 Diabetes

- >181,000 US VA patients who survived for >1mo after COVID-19 were compared to >4.1M contemporary controls and >4.2M historic controls without infection
  - Predominantly white, male population with high rate of other comorbidities
- Patients with COVID were ~40% more likely to develop T2D or be on antihyperglycemic within a year
- HR 1.46, 95% 1.43-1.50
- Risk increased with increased severity
  - Severe cases 3X increased risk c/w persons without COVID

**Lancet Diabetes and Endocrinology** 



- Retrospective cohort analysis of Disease Analyzer
  - Representative panel of 1171 physicians' practices in Germany
  - o March 2020 to Jan 2021: 8.8M patients
- Newly diagnosed T1D, T2D, and ?prediabetes was defined based on ICD-10 codes during follow-up until July 2021
- Identified >35k COVID-19 patients (med 119 days) and >35k AURI controls (med 161 days)
  - Propensity score matching (1:1) for sex, age, health insurance, index month for Covid-19/AURI and comorbidity (obesity, hypertension, hyperlipidaemia, myocardial infarction, stroke)
  - Excluded patients using corticosteroids within 30d after

Diabetologia https://doi.org/10.1007/s00125-022-05670-0

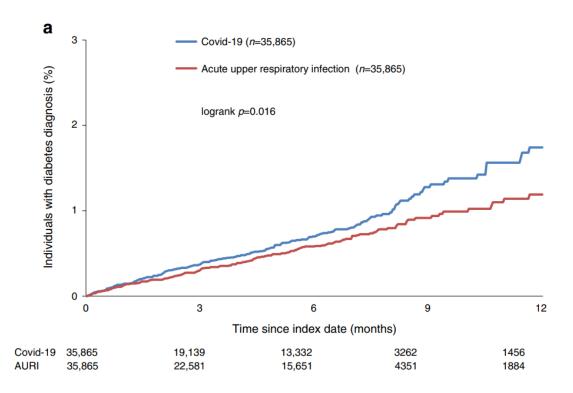
#### SHORT COMMUNICATION

#### Incidence of newly diagnosed diabetes after Covid-19

Wolfgang Rathmann  $^{1,2}$   $\bigcirc$  • Oliver Kuss  $^{1,2,3}$   $\bigcirc$  • Karel Kostev  $^4$ 

#### Increased Incidence of T2D After COVID-19

- T2D risk 15.8 vs 12.3 per 1000 person-years so estimated incident rate ratio 1.28 (95% CI 1.05, 1.57)
- May support active monitoring for glucose dysregulation after recovery even from mild COVID-19
- Pathophysiology, reversibility, remain to be proven, but theories are direct infection of beta cells resulting in acute cell death and transdifferentiation resulting in changed endocrine function; pandemic-associated weight gain and inactivity; stress hyperglycemia and use of steroids for severe disease



### Neuro Symptoms in PACS Well-Known



80% of patients recovering from <u>hospitalized</u>
COVID-19 <u>report</u> neurologic symptoms including memory impairment

Viral neurotropism? Virus-induced neuroinflammation? Neurovascular pathology? Hypoxia?

Incidentally, consistent with SARS and MERS Co-V



Patients with nonhospitalized COVID-19 may also report persistent neurologic symptoms

In <u>survey</u> of 180 nonhospitalized patients, >50% have at least one symptom at mean of 125 days after symptom onset. Fatigue and anosmia 24%

In <u>prospective study</u> of 100 nonhospitalized patients with neuro symptoms that persisted for ≥6w, reported brain fog 81%, HA 68%, numbness/tingling 60%, dysgeusia 59%, anosmia 55% with demonstrated impairments in QOL domains, attention and working memory c/w nonCOVID controls

## What is the Pathophysiology?

- Among 785 UK patients aged 51-81y with baseline and f/u imaging (mean 141d after infx), 401 tested positive between scans
- COVID patients had
  - Greater reductions (0.2-2%) in gray matter thickness in orbitofrontal and parahippocampal cortices
  - Greater changes in markers of tissue damage in regions functionally connected primary olfactory cortex
  - Greater reduction in brain size
- COVID patients showed larger cognitive decline
- Findings held if excluded 15 hospitalized patients

#### nature

https://doi.org/10.1038/s41586-022-04569-5

#### **Accelerated Article Preview**

### SARS-CoV-2 is associated with changes in brain structure in UK Biobank

Received: 19 August 2021
Accepted: 21 February 2022

Accelerated Article Preview Published online: 07 March 2022 Gwenaëlle Douaud, Soojin Lee, Fidel Alfaro-Almagro, Christoph Arthofer, Chaoyue Wang, Paul McCarthy, Frederik Lange, Jesper L. R. Andersson, Ludovica Griffanti, Eugene Duff, Saad Jbabdi, Bernd Taschler, Peter Keating, Anderson M. Winkler, Rory Collins, Paul M. Matthews, Naomi Allen, Karla L. Miller, Thomas E. Nichols & Stephen M. Smith

Nature Re<sup>.</sup>

#### **Original Investigation**

ONLINE FIRST

FREE

March 8, 2022

# One-Year Trajectory of Cognitive Changes in Older Survivors of COVID-19 in Wuhan, China

#### A Longitudinal Cohort Study

Yu-Hui Liu, MD, PhD<sup>1</sup>; Yang Chen, MD<sup>1</sup>; Qing-Hua Wang, MD, PhD<sup>1</sup>; et al

JAMA Neurology

- 1,438 COVID-19 patients <u>></u>60y 12m after discharge from Wuhan's 3 COVID hospitals
- At 6 and 12m assessed using the Informant Questionnaire on Cognitive Decline in the Elderly and the Telephone Interview of Cognitive Status-40
- Cognitive trajectories were classified into 4 categories: stable cognition, early-onset cognitive decline, late-onset cognitive decline, and progressive cognitive decline

Table 2. Cognitive Trajectory of COVID-19 Survivors and Uninfected Control Individuals

	Changes in cognition <sup>a</sup>		No. (%) of parti	No. (%) of participants			P value <sup>b</sup>		
Category	0-6 mo	6-12 mo	Severe	Nonsevere	Control	Severe vs nonsevere	Severe vs control	Nonsevere vs control	
Stable cognitive function	Stable	Stable	77 (29.62)	796 (67.57)	335 (76.48)	<.001	<.001	<.001	
Early-onset cognitive decline	Declined	Stable	103 (39.62)	326 (27.67)	81 (18.49)	<.001	<.001	<.001	
Late-onset cognitive decline	Stable	Declined	25 (9.62)	42 (3.57)	12 (2.74)	<.001	<.001	.53	
Progressive cognitive decline	Declined	Declined	55 (21.15)	14 (1.19)	10 (2.28)	<.001	<.001	.11	

 <sup>&</sup>lt;sup>a</sup> Change in cognition from SARS-CoV-2 infection to 6 months of recovery was determined by the Chinese version of the short form of the Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE). An IQCODE score ≥ 3.5 indicates decreased cognition. An IQCODE score < 3.5 indicates stable or improved cognition. Change in cognition from 6 months to 12 months of recovery was determined by the IQCODE and the Telephone Interview of</li>

Cognitive Status-40 (TICS-40). A decreased TICS-40 score indicates decreased cognition. An unchanged or increased TICS-40 score indicates stable and improved cognition, respectively.

#### Adjusting for age, sex, education level, BMI, and comorbidities

- Nonsevere COVID-19 was associated with higher risk of early-onset cognitive decline (OR 1.71; 95% CI, 1.30-2.27)
- Severe COVID-19 was associated with higher risk of early-onset cognitive decline (OR 4.87; 95% CI 3.30-7.20), late-onset cognitive decline (OR 7.58; 95% CI 3.58-16.03), and progressive cognitive decline (OR 19.00; 95% CI 9.14-39.51)

<sup>&</sup>lt;sup>b</sup> Comparisons between groups: Pearson  $\chi^2$  test.

## Q&A



#### Healthcare Provider & Public Health Partner Calls

- Changing to once a month on the 2<sup>nd</sup> Thursday of each month from 12:00-1:00 pm (Next call will be May 12th)
- Webinar/call information (unchanged):
  - Zoom link: <a href="https://nh-dhhs.zoom.us/s/94059287404">https://nh-dhhs.zoom.us/s/94059287404</a>
  - Webinar ID: 940 5928 7404
  - Passcode: 353809
  - Telephone: 646-558-8656

