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These “updated” COVID-19 boosters will be ready to administer if the ACIP votes to recommend them (the ACIP meeting is [scheduled for September 1 and, if needed, September 2, 2022](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/acip/index.html__;!!CUhgQOZqV7M!nCGoj1eyXTjVPIkGg-fy9iHZlbVmjxRZpANDgeBhFO136faoM9N8KQeqKgWHet_JUDbKsjjSCQOBV1S8btYuzwYKlA$)), and after CDC endorses an ACIP recommendation. Administration of the bivalent COVID-19 boosters can begin only after CDC’s official recommendation.  From the FDA press release:   * Individuals 18 years of age and older are eligible for a single booster dose of the Moderna COVID-19 Vaccine, Bivalent, if it has been at least two months since they have completed primary vaccination or have received the most recent booster dose with any authorized or approved monovalent COVID-19 vaccine. * Individuals 12 years of age and older are eligible for a single booster dose of the Pfizer-BioNTech COVID-19 Vaccine, Bivalent, if it has been at least two months since they have completed primary vaccination or have received the most recent booster dose with any authorized or approved monovalent COVID-19 vaccine.     **An important note:** Monovalent mRNA CVOID-19 vaccines are NO LONGER authorized for use as boosters in people ages 12 years and older. From the FDA press release:   * With today’s authorization, the monovalent mRNA COVID-19 vaccines are not authorized as booster doses for individuals 12 years of age and older.     **Appointments for monovalent Pfizer-BioNTech or Moderna boosters in people 12 years of age and older must be rescheduled for when locations have the bivalent COVID-19 vaccines available.**  **Please update your vaccine appointment information for VaxFinder as soon as is possible through** [**this survey**](https://docs.google.com/forms/d/e/1FAIpQLScuaJ1GkFP-n9BvNf3GPnhW3DpflAuVe36F-Qt5yNTSCvTTEA/viewform)**.**  See the [FDA press release](https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-authorizes-moderna-pfizer-biontech-bivalent-covid-19-vaccines-use) for more details.  The new vaccines will have the same storage and handling parameters as the original vaccine products.    [Pfizer-BioNTech COVID-19 Vaccines](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/storage.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlh89fgjg$)   * Ultra-cold freezer storage (-90°C to -60°C) until expiry * NO FREEZER STORAGE * Refrigerate (2°C to 8°C) up to 10 weeks without puncturing     [Moderna COVID-19 Vaccines](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/info-by-product/moderna/storage.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmfwW7gwA$)   * NO ULTRA-COLD FREEZER STORAGE * Freezer storage (-25°C to -15°C) until expiry * Refrigerate (2°C to 8°C) up to 30 days without puncturing   **Four COVID-19 vaccines are currently approved under a BLA or authorized under an EUA by the FDA:**   * Pfizer-BioNTech is an mRNA vaccine, authorized (EUA) for people 6 months – 11 years and approved (BLA) for people ages 12 years and older. * Moderna is an mRNA vaccine, authorized (EUA) for people 6 months – 17 years and approved (BLA) for people ages 18 years and older. * J&J/Janssen is a viral vector vaccine, authorized (EUA) for people 18 years and older. * Novavax is an adjuvanted protein subunit vaccine, authorized (EUA) for people 12 years and older (primary series only).   **Vaccines Formulations Available for Ordering**  **New Bivalent COVID-19 Vaccine Ordering**  **Ordering for the new bivalent COVID-19 vaccine formulations are now open in the MIIS**. Please note the vaccines are still not recommended for use by the ACIP/CDC but as soon as they are, routine shipping will begin (early next week). For sites that placed pre-orders of vaccine your orders will be shipped first with anticipated arrival as soon as Tuesday 9/6.  **COVID Vaccine Available for ordering in the MIIS**  All providers enrolled Massachusetts COVID-19 Vaccine Program (MCVP) are able to place routine orders for all of the following COVID-19 vaccine formulations through the Massachusetts Immunization Information System (MIIS).   |  |  | | --- | --- | | |  | | --- | | Table  Description automatically generated | |  |  |  | | --- | --- | | |  | | --- | | * Initial shipments of the Pfizer-BioNTech vaccine for children aged 6m–4 years may state “2y to <5y” or “6m to <5y” on the vial or carton labels. Please note that vials or cartons with labels that state “2y to <5y” can be used for children aged 6m through 4 years. * Pfizer-BioNTech vaccine vial labels and cartons may also state that a vial should be discarded 6 hours after the first dilution however as stated in the EUA Fact Sheet the timeframe for use post-dilution is actually 12 hours just like orange and gray cap Pfizer vaccine formulations.     **\*Please Note:** For pediatric practices that are currently not supplying the Pfizer 5-11 year old formulation due to logistical challenges please consider supplying the new Moderna 6-11 year old formulation as it comes in only 5 dose vials, requires no reconstitution, and can be stored in a standard freezer until expiration. | | | **WHO TO VACCINATE**  **Everyone ages 6 months and older** should receive a COVID-19 **primary series** vaccination for the prevention of COVID-19.  **Everyone ages 5 years and older** should receive at least 1 **booster dose** of COVID-19 vaccine if eligible (i.e., if a booster dose is FDA-approved or FDA-authorized for use in a specified population). **Recommendations for booster dose(s) vary based on age, COVID-19 vaccine product, and immunocompetence.**  The recommended schedule and use of each COVID-19 vaccine product vary by the age and immune status of the recipient. There are two vaccination schedules: one for [people who are not moderately or severely immunocompromised](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html*not-immunocompromised__;Iw!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlzh-FKmg$) and one for [people who are moderately or severely immunocompromised](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html*immunocompromised__;Iw!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmAPdO08g$).    **QUESTION OF THE WEEK**  Q: **Why are COVID19 vaccines based on age and not on weight?**  A: Vaccine dosages are based on age and not size or weight because they work differently than other medications. This is true for COVID-19 vaccines and other routinely recommended vaccines, like influenza or hepatitis vaccines.  Medications are often based on weight because they are distributed through the bloodstream and work when a certain medication level is present. In this case, a person’s weight is important for the dosage. To achieve the same effects, a person weighing more will require more of a medication than a person weighing less.  Vaccines work differently and are not distributed through the bloodstream. Vaccines imitate an infection when administered, activating the body’s immune response, which typically occurs at or near the injection site. Immune cells are directed to the injection site to attack foreign cells or proteins and produce antibodies that travel throughout the body and will protect against future infection.  Because of how vaccines work, they typically require low quantities of active ingredients. Different dosages are evaluated during vaccine development to determine the lowest effective dose for the target age group. Clinical trials evaluate various dosing regimens to determine the best dosage and schedule that produces an adequate immune response which is both safe and effective.  Learn more about: [Understanding How Vaccines Work](https://www.cdc.gov/vaccines/hcp/conversations/understanding-vacc-work.html)  **Novavax approved down to 12 years of age**  On August 22, [CDC Director Rochelle Walensky signed a decision memo](https://urldefense.com/v3/__https:/www.cdc.gov/media/releases/2022/s0822-novax-vaccine.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmkQ85Hlw$) that Novavax’s COVID-19 vaccine be used as another primary series option for adolescents ages 12 through 17. This recommendation follows [FDA’s authorization](https://urldefense.com/v3/__https:/www.fda.gov/media/159902/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnJFDlwRw$) to authorize the vaccine for this age group under emergency use. Novavax’s COVID-19 vaccine, which is available now, is an important tool in the pandemic and provides a more familiar type of COVID-19 vaccine technology for adolescents. Having multiple types of vaccines offers more options and flexibility for the public, jurisdictions, and vaccine providers.  **Novavax COVID-19 Vaccine Characteristics**   * Age indication: 12 years and older, primary series only * Interval: 2 dose primary series 21 days apart * Dose: 5 mcg SARS-CoV-2rS 50 mcg Matrix-M™ adjuvant * Injection volume: 0.5 mL * Preparation: Do not dilute * Doses per vial: 10 doses * Injection route/site: Intramuscular/deltoid * Storage: Refrigerator 2° to 8°C (36°to 46°F) DO NOT FREEZE * Beyond use time: 6 hours after first puncture * Expiration: ***No*** *expiration date is printed on the vial or carton, it must be looked up on the Expiry Date Checker at* [*https://us.novavaxcovidvaccine.com/hcp*](https://urldefense.com/v3/__https:/us.novavaxcovidvaccine.com/hcp__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmNfQafCQ$) *(also accessible from* [*https://www.novavaxcovidvaccine.com/*](https://urldefense.com/v3/__https:/www.novavaxcovidvaccine.com/__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmvcOOxQA$) *and navigating to the HCP page)*     **Novavax Clinical Considerations**   * Adults ages 12+ should receive a Novavax 2-dose primary series separated by 3–8 weeks. Currently, a booster dose using any COVID-19 vaccine is not authorized for adults in this age group who receive a Novavax primary series. * For people who are *not* moderately or severely immunocompromised, first and second doses of Novavax should be administered **3-8 weeks apart**. * For people who *are* moderately or severely immunocompromised, first and second doses of Novavax should be administered **3 weeks apart**. * The following are **NOT** currently authorized for people receiving a Novavax COVID-19 Vaccine primary series: * 3rd primary dose for people who are moderately or severely immunocompromised * Booster dose using ANY COVID-19 vaccine after a Novavax primary series * CDC will provide clinical guidance for what FDA authorizes; once authorized, these doses can be added to the COVID-19 vaccination schedule     **Helpful Reference Materials**   * [Interim COVID-19 Immunization Schedule for 6 Months of Age and Older](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/COVID-19-immunization-schedule-ages-6months-older.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLn1MKOQtw$)   A helpful pdf summarizing products, schedules, doses, boosters   * [AAP’s Pediatric COVID-19 Vaccine Dosing Quick Reference Guide](https://urldefense.com/v3/__https:/downloads.aap.org/AAP/PDF/COVID*20Vaccine*20Dosing_Quick*20Reference.pdf__;JSUl!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkQx_euEA$) * [At-A-Glance COVID-19 Vaccination Schedule](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/COVID-19-vacc-schedule-at-a-glance-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLk60L2j3w$) (updated 8/22/2022)   A helpful pdf showing a graphic of the COVID-19 vaccine recommendations based on  primary series product, age, and immune status.   * [Moderna COVID-19 Vaccine for Children who Transition from a Younger to Older Age Group](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/Moderna-Child-Age-Transition-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLm835ogRw$) * [Pfizer-BioNTech for Children who Transition from a Younger to Older Age Group](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/Pfizer-Child-Age-Transition-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLm3fhfIdw$) * [Pfizer COVID-19 Vaccine Products At-A-Glance](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/vaccine-at-a-glance.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkmhPh9Sg$) * [Moderna COVID-19 Vaccine At-A-Glance](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/vaccine-at-a-glance.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkh6TBZNQ$)     **Standing Orders**   * Novavax (updated 8/22/2022)   <https://www.cdc.gov/vaccines/covid-19/info-by-product/novavax/downloads/novavax-standing-orders.pdf>   * CDC’s Moderna COVID-19 Vaccine info (including the standing orders below)   <https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/index.html>   * Moderna Blue cap with magenta bordered label – 6 months through 5 years of age   <https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/infant_standing-orders.pdf>   * Moderna Blue cap with purple-bordered label – 6 through 11 years of age   <https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/6-11-standing-orders.pdf>   * Moderna Red cap with blue-bordered label – 12 through 17 years of age   <https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/12-17-standing-orders.pdf>   * Moderna Red cap – 18 years of age and older (updated 5/24/2022)   <https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/downloads/standing-orders.pdf>   * CDC’s Pfizer COVID-19 Vaccine info (including the standing orders below)   <https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/index.html>   * Pfizer Maroon Cap: 6 months through 4 years of age   <https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/infant-standing-orders.pdf>   * Pfizer Orange Cap: 5 through 11 years of age (updated 5/24/2022)   <https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/Pfizer_PED_StandingOrders.pdf>   * Pfizer Gray Cap: 12 years of age and older (updated 5/24/2022)   <https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/downloads/gray-cap-Pfizer-BioNTech-standing-orders.pdf>    **Preparations and Administration Summaries**   * Novavax [https://www.cdc.gov/vaccines/covid-19/info-by-product/novavax/downloads/novavax-prep-admin-summary.pdf](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/info-by-product/novavax/downloads/novavax-prep-admin-summary.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmS8GIhaA$) * Pfizer [https://www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/administration.html](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/info-by-product/pfizer/administration.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkkQAN0VQ$) * Moderna [https://www.cdc.gov/vaccines/covid-19/info-by-product/moderna/administration.html](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/info-by-product/moderna/administration.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmV3RTeCQ$)     **Information for parents and caregivers:**   * [COVID-19 Vaccines for Children and Teens | CDC](https://urldefense.com/v3/__https:/www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/children-teens.html?CDC_AA_refVal=https*3A*2F*2Fwww.cdc.gov*2Fcoronavirus*2F2019-ncov*2Fvaccines*2Frecommendations*2Fadolescents.html__;JSUlJSUlJSU!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkfB9jY2A$) * [Frequently Asked Questions about COVID-19 Vaccination in Children | CDC](https://urldefense.com/v3/__https:/www.cdc.gov/coronavirus/2019-ncov/vaccines/faq-children.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLl-eqIMAQ$) * [6 Things to Know about COVID-19 Vaccination for Children | CDC](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/planning/children/6-things-to-know.html?CDC_AA_refVal=https*3A*2F*2Fwww.cdc.gov*2Fvaccines*2Fcovid-19*2Fplanning*2Fchildren*2F10-things-to-know.html__;JSUlJSUlJSU!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLn4H4jdWg$) * [V-safe After Vaccination Health Checker | CDC](https://urldefense.com/v3/__https:/www.cdc.gov/coronavirus/2019-ncov/vaccines/safety/vsafe.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnDCjkUdQ$) * [COVID-19 Vaccine: Frequently Asked Questions | American Academy of Pediatrics](https://urldefense.com/v3/__https:/www.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/covid-19-vaccine-for-children/about-the-covid-19-vaccine-frequently-asked-questions/__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLn2BtygXA$) | |  |  |  | | --- | --- | | |  | | --- | | **COVID-19 vaccine formulations currently or authorized in the United States** | | | |  | | --- | | Table  Description automatically generated | | | |  | | --- | | Table  Description automatically generated | | | |  | | --- | | Text  Description automatically generated | | | |  | | --- | | **COVID-19 vaccination schedule for people who are NOT moderately or severely immunocompromised**  For primary series and booster dose(s), an age-appropriate mRNA vaccine is preferred over the Janssen vaccine. The same mRNA vaccine product should be used for all doses of the primary series (see [Interchangeability of COVID-19 vaccine products](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html*Interchangeability__;Iw!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLleDl6hoA$)). All people ages 5 years and older should receive at least 1 booster dose if eligible (i.e., if a booster dose is FDA-approved or FDA-authorized for use in a specified population); an mRNA vaccine must be used for the second booster dose.    **While this** [**graphic**](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/COVID-19-vacc-schedule-at-a-glance-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLk60L2j3w$) **is a helpful visual, it does not include clinical details necessary for administering COVID-19 vaccines. For clinical detail see the** [**Clinical Considerations**](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlcdmHTpg$) **and guidance for** [**people who are not immunocompromised**](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html*not-immunocompromised__;Iw!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlzh-FKmg$) | |  |  |  | | --- | --- | | |  | | --- | | Chart  Description automatically generated | |  |  |  | | --- | --- | | |  | | --- | | **Considerations for intervals for mRNA COVID-19 vaccine primary series**  **An 8-week interval may be optimal for people who are not moderately or severely immunocompromised and ages 6 months-64 years, especially for males ages 12–39 years** COVID-19 vaccines are FDA-approved or FDA-authorized for a 3-week (Pfizer-BioNTech vaccine) or 4-week (Moderna vaccine) interval between the first and second dose. A 3- or 4-week interval continues to be the recommended interval for people who are moderately or severely immunocompromised, adults ages 65 years and older, and in situations when the fullest possible protection needs to be achieved sooner (e.g., increased concern about [COVID-19 community levels](https://urldefense.com/v3/__https:/www.cdc.gov/coronavirus/2019-ncov/science/community-levels.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnC1H_DIA$) or an individual’s higher risk for severe disease).  mRNA COVID-19 vaccines are safe and effective at the FDA-approved or FDA-authorized intervals, but a longer interval may be considered for some populations. While absolute risk remains small, the risk for myocarditis is higher for males ages 12-39 years, and this risk might be reduced by extending the interval between the first and second dose. [Some studies](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/acip/meetings/downloads/slides-2022-02-04/11-COVID-Moulia-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLm2YAf_jw$) in adolescents (ages 12-17 years) and adults have shown the small risk of myocarditis associated with mRNA COVID-19 vaccines might be reduced and peak antibody responses and vaccine effectiveness may be increased with an interval longer than 4 weeks. Extending the interval beyond 8 weeks has not been shown to provide additional benefit. **In summary, an 8-week interval may be optimal for people who are not moderately or severely immunocompromised and ages 6 months-64 years, especially for males ages 12–39 years.**  **Transitioning from a younger to older age group**  CDC recommends vaccine recipients **receive the recommended age-appropriate vaccine product and dosage based on their age on the day of vaccination**. If a person moves from a younger age group to an older age group, once they qualify for the older age formulation they should receive the vaccine product and dosage for the older age group.    FDA authorization does allow for dosing options for certain age transitions. These options are considered acceptable, as opposed to recommended. Since these options are acceptable, they are not considered vaccine administration errors and do not need to be reported to VAERS. For more detail see the [Pfizer-BioNTech COVID-19 Vaccine for Children who Transition from a Younger to Older Age Group](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/Pfizer-Child-Age-Transition-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLm3fhfIdw$) and the [Moderna COVID-19 Vaccine for Children who Transition from a Younger to Older Age Group](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/Moderna-Child-Age-Transition-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLm835ogRw$), and the [Clinical Considerations](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html*timing-spacing-interchangeability__;Iw!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLl41SFlaw$).    **COVID-19 vaccination schedule for people who ARE moderately or severely immunocompromised**  People with immunocompromising conditions or people who take immunosuppressive medications or therapies are [at increased risk for severe COVID-19](https://urldefense.com/v3/__https:/www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkIiPeCZA$). Because the immune response following COVID-19 vaccination may differ in people who are moderately or severely immunocompromised at the time of vaccination, specific guidance for this population is provided.  People who are or who become moderately or severely immunocompromised should follow the COVID-19 vaccination schedule according to their age and immune status at the time of eligibility for doses. For example, people who become moderately or severely immunocompromised after completing a 2-dose mRNA or single-dose Janssen COVID-19 Vaccine primary series do not need additional primary doses; however, they should follow the schedule for people who are moderately or severely immunocompromised for booster doses.  **While this** [**graphic**](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/downloads/COVID-19-vacc-schedule-at-a-glance-508.pdf__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLk60L2j3w$) **is a helpful visual, it does not include clinical details necessary for administering COVID-19 vaccines. For clinical detail see the** [**Clinical Considerations**](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlcdmHTpg$) **and guidance for** [**people who are immunocompromised**](https://urldefense.com/v3/__https:/www.cdc.gov/vaccines/covid-19/clinical-considerations/interim-considerations-us.html*immunocompromised__;Iw!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmAPdO08g$)**.** | |  |  |  | | --- | --- | | |  | | --- | |  | |  |  |  | | --- | --- | | |  | | --- | | **CDC interactive tool for the public to assess need for first or second booster doses of COVID-19 vaccine**  CDC has an interactive tool to help users identify whether they (or someone else) need to receive a booster dose of COVID-19 vaccine. The “Find Out When You Can Get Your Booster” tool asks a series of simple questions about age, immunocompromise, number and type of previous doses of COVID-19 vaccines, and how long ago they received the most recent vaccination. From these answers, the tool reports whether a first or second booster dose may be beneficial and presents considerations for when to receive it. Find the tool [here](https://urldefense.com/v3/__https:/www.cdc.gov/coronavirus/2019-ncov/vaccines/booster-shot.html*when-you-can-get-booster__;Iw!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkqIhXZbA$).    **Watch for Expired Vaccine**  Providers should make it a practice to regularly check inventory for expired vaccine and immediately remove expired inventory to prevent it from being administered.  **Vaccine Expiration Date Lookup & Reference Information:**   * [Novavax Expiry Date Checker](https://urldefense.com/v3/__https:/us.novavaxcovidvaccine.com/hcp__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmNfQafCQ$) * **New** [Pfizer COVID-19 Vaccine Expiry Website](https://lotexpiry.cvdvaccine.com/) * [Moderna Vial Expiration Date Look-up Tool](https://urldefense.com/v3/__https:/www.modernatx.com/covid19vaccine-eua/providers/vial-lookup*vialLookUpTool__;Iw!!CUhgQOZqV7M!yGxVYV8BHtqcZ60FKi8HB3uTYxz3dJj1bcC-2OzWyfsACxpCz6nJTr6JC4lms1wWZFJCEE0%24) * [Janssen Expiration Date Lookup Tool](https://urldefense.com/v3/__https:/vaxcheck.jnj/__;!!CUhgQOZqV7M!yGxVYV8BHtqcZ60FKi8HB3uTYxz3dJj1bcC-2OzWyfsACxpCz6nJTr6JC4lms1wWIR4woRQ%24)     **EUA Fact Sheets**  Once a new EUA Fact Sheet is issued, it must be used. Previous ones no longer contain accurate information.  **Novavax EUAs**   * Novavax, HCP: [https://www.fda.gov/media/159897/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159897/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnSujfVIA$) * Novavax, Recipient: [https://www.fda.gov/media/159898/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159898/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlApryVPQ$) | | | |  | | --- | | **Pfizer EUAs**   * Pfizer, HCP, 6 months through 4 years, maroon cap (must dilute): <https://www.fda.gov/media/159312/download> * Pfizer, HCP-Dear Healthcare Provider Letter, 6 months through 4 years, maroon cap (must dilute): [https://www.fda.gov/media/159303/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159303/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlcOPUMEg$) * Pfizer, Recipient, 6 months through 4 years of age: [https://www.fda.gov/media/159313/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159313/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkYBSJwOg$) * Pfizer, HCP, 12 years of age and older, purple cap (must dilute): [https://www.fda.gov/media/153713/download](https://urldefense.com/v3/__https:/www.fda.gov/media/153713/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLn58cM72A$) * Pfizer, HCP, 12 years of age and older, gray cap (no dilution): [https://www.fda.gov/media/153715/download](https://urldefense.com/v3/__https:/www.fda.gov/media/153715/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmim6GQvg$) * Pfizer, HCP, 5 - 11 years of age, orange cap (must dilute): [https://www.fda.gov/media/153714/download](https://urldefense.com/v3/__https:/www.fda.gov/media/153714/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLk0hU-MvA$) * Pfizer, Recipient, 12 years of age and older: [https://www.fda.gov/media/153716/download](https://urldefense.com/v3/__https:/www.fda.gov/media/153716/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLk24RCPHQ$) * Pfizer, Recipient, 5-11 years: [https://www.fda.gov/media/153717/download](https://urldefense.com/v3/__https:/www.fda.gov/media/153717/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLkuBYxBew$) | | | |  | | --- | | **Moderna EUAs**   * Moderna, HCP, 6 months through 5 years of age (magenta border): [https://www.fda.gov/media/159307/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159307/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLlyya5_4w$) * Moderna, Recipient, 6 months through 5 years of age (magenta border): [https://www.fda.gov/media/159309/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159309/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnkK1EN7w$) * Moderna, HCP, 6 years through 11 years of age (teal & purple border): [https://www.fda.gov/media/159308/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159308/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnO0ZqTsA$) * Moderna, HCP-Dear Healthcare Provider Letter, 6 years through 11 years of age (teal & purple border): [https://www.fda.gov/media/159305/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159305/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLndX9UOXg$) * Moderna, Recipient, 6 years through 11 years of age (teal & purple border): [https://www.fda.gov/media/159310/download](https://urldefense.com/v3/__https:/www.fda.gov/media/159310/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnngX84tA$) * Moderna, HCP, 12 years and older and booster doses for 18 years and older (light blue border): [https://www.fda.gov/media/157233/download](https://urldefense.com/v3/__https:/www.fda.gov/media/157233/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmJbRkzew$) * Moderna, Recipient, 12 years and older (black border): [https://www.fda.gov/media/144638/download](https://urldefense.com/v3/__https:/www.fda.gov/media/144638/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLm1Jaix_Q$) * Moderna, HCP, 18 years and older booster dose presentation only (purple border): [https://www.fda.gov/media/157232/download](https://urldefense.com/v3/__https:/www.fda.gov/media/157232/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmqB7j7OA$)   **Janssen EUAs**   * Janssen, HCP: [https://www.fda.gov/media/146304/download](https://urldefense.com/v3/__https:/www.fda.gov/media/146304/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLl1wUHVHA$) * Janssen, Recipient: [https://www.fda.gov/media/146305/download](https://urldefense.com/v3/__https:/www.fda.gov/media/146305/download__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLnZAY-aMw$)   **RESOURCES & LEARNING OPPORTUNITIES**  **New Novavax Office Hours**  Starting August 31, 2022, Novavax will begin a new series of weekly training webinars. Use this link to see dates and times, and to register: [**https://novav.ax/officehours**](https://urldefense.com/v3/__https:/novav.ax/officehours__;!!CUhgQOZqV7M!jZjsDBXpnyOQUOLw7QCoOEI4UISNGYDMJjLufV-CTqOTLX3jmq7FqIzeFSSzXVwbhuvgZDUttfvy_PCrDF2MLN_8og$)  **Pfizer COVID-19 Vaccine Medical Updates** on Current & Immunization Site Training  Pfizer Vaccines US Medical Affairs continues to host frequent *Medical Updates & Immunization Site Training for All Providers.* Session topics include:   * Use of vaccine for Children 6 months and Older * Storage, Handling, Preparation, & Administration for the multiple presentations of the vaccine * Recent medical updates regarding the vaccine * An overview of healthcare provider resources * Question and answer session   To access the training sessions, please visit: [https://www.pfizermedicalinformation.com/en-us/medical-updates](https://urldefense.com/v3/__https:/www.pfizermedicalinformation.com/en-us/medical-updates__;!!CUhgQOZqV7M!wnopdixLkKhCVeMjUiwcd-KVQVUN9jXipkisyDlTme9oe3pB9EYR1yJo7AhKgBWejq3FUBI%24)  **COVID-19 Vaccine Training Modules**  CDC’s four training modules (General Overview, Pfizer, Moderna, Janssen) can be found [here](https://urldefense.com/v3/__https:/www2.cdc.gov/vaccines/ed/covid19/__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmgOEuTAw$).  **COVID-19 Vaccine Webinar Series**  CDC is offering a series of brief (15-20 minute) webinars addressing topics around COVID-19 vaccination. These interactive, web-based training modules offer a real-world perspective on different issues around COVID-19 vaccines. Topics range from routine clinical and vaccine safety information to guidance for on-site clinic vaccination activities and having conversations with vaccine recipients. Each webinar includes self-test practice questions and lists additional resources related to the topic discussed. The landing page for all mini webinars is here: <https://www.cdc.gov/vaccines/covid-19/training-education/webinars.html>  **Morbidity and Mortality Weekly Report**, better known as MMWR, is CDC’s primary publication for disseminating the science it produces. The staff at MMWR have launched a [landing page](https://urldefense.com/v3/__https:/www.cdc.gov/mmwr/covid19_vaccine_safety.html__;!!CUhgQOZqV7M!nRUoQQ3O0sXDsoGrcKqMZNaYlntqzHaLjaVFFHDNRBSX8TjPyGoFcmPD-tBZlBdXf0iARx3zc_y54hIzVRIvIryBSLmguNExOQ$) to help people find the latest information on COVID-19 vaccine effectiveness and safety.    **Recent CDC MMWRs**  **August 26, 2022**   * [Laboratory-Confirmed COVID-19–Associated Hospitalizations Among Adults During SARS-CoV-2 Omicron BA.2 Variant Predominance — COVID-19–Associated Hospitalization Surveillance Network, 14 States, June 20, 2021–May 31, 2022](https://www.cdc.gov/mmwr/volumes/71/wr/mm7134a3.htm?s_cid=mm7134a3_w)   **August 19, 2022**   * [Safety Monitoring of Pfizer-BioNTech COVID-19 Vaccine Booster Doses Among Children Aged 5–11 Years — United States, May 17–July 31, 2022](https://www.cdc.gov/mmwr/volumes/71/wr/mm7133a3.htm?s_cid=mm7133a3_w) * [COVID-19 Outbreaks and Mortality Among Public Transportation Workers — California, January 2020–May 2022](https://www.cdc.gov/mmwr/volumes/71/wr/mm7133a4.htm?s_cid=mm7133a4_w) * [Summary of Guidance for Minimizing the Impact of COVID-19 on Individual Persons, Communities, and Health Care Systems — United States, August 2022](https://www.cdc.gov/mmwr/volumes/71/wr/mm7133e1.htm?s_cid=mm7133e1_w)   **MDPH RESOURCES**  **Massachusetts Resources**   * COVID-19 vaccinations for [children ages 6 months to 4 years old](https://www.mass.gov/info-details/covid-19-vaccinations-for-children-ages-6-months-to-4-years-old) * COVID-19 vaccinations for [children ages 5-11](https://www.mass.gov/info-details/covid-19-vaccinations-for-children-ages-5-11) * COVID-19 vaccinations for [people ages 12-17](https://www.mass.gov/info-details/covid-19-vaccinations-for-people-ages-12-17) * COVID-19 [Vaccine Information](https://www.mass.gov/covid-19-vaccine) * COVID-19 [booster information](https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions) and [booster frequently asked questions](https://www.mass.gov/info-details/covid-19-booster-frequently-asked-questions) * Search for Vaccine locations: <https://vaxfinder.mass.gov/> * COVID-19 Vaccine Resource Line/2-1-1 is available for individuals who are unable to use Vaxfinder, or have difficulty accessing the internet. Available in English and Spanish and has translators available in approximately 100 additional languages. * COVID-19 Vaccine Training and Education Resources for Providers: <https://www.mass.gov/info-details/covid-19-vaccine-training-and-education-resources-for-providers> * [Multilingual COVID-19 Materials](https://www.mass.gov/resource/multilingual-covid-19-materials). Resources related to Coronavirus Disease 2019 (COVID-19) in multiple languages. Includes videos and printables on topics like vaccine safety, pregnancy and the vaccine, and FAQs.   **Immunization Division Main Number**  For questions about immunization recommendations, disease reporting, etc.  Phone: 617-983-6800 (24/7 MDPH Epi line)  Fax: 617-983-6840  Website: <https://www.mass.gov/topics/immunization>  **MIIS Help Desk**  Phone: 617-983-4335  Fax: 857-323-8321  Email questions to: [miishelpdesk@mass.gov](mailto:miishelpdesk@mass.gov)  Website: <https://www.mass.gov/massachusetts-immunization-information-system-miis>    **MDPH Vaccine Unit**  Phone: 617-983-6828  Email questions to: [dph-vaccine-management@mass.gov](mailto:dph-vaccine-management@mass.gov)  Website: <https://www.mass.gov/service-details/vaccine-management>  **COVID-19 Email Box**  Email questions to: [COVID-19-Vaccine-Plan-MA@mass.gov](mailto:COVID-19-Vaccine-Plan-MA@mass.gov) | | | | | |
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