

COVID-19 Vaccination Modules: Understanding Key Terms and Up to Date Vaccination

This document defines key terms related to COVID-19 vaccination for the purpose of NHSN public health surveillance. Facilities can review these definitions when reporting data through the NHSN COVID-19 Vaccination Modules.

This document will be updated to reflect any changes as COVID-19 vaccination guidance evolves (for example, updates to CDC’s *up to date* vaccination definition). This document will be updated quarterly. Use the definitions for the reporting period associated with the reporting weeks included in your data submission.

Contents

COVID-19 Vaccination Modules: Understanding Key Terms and Up to Date Vaccination	1
Reporting Period Quarter 4 2022 (September 26, 2022 – December 25, 2022)	2
Reporting Period Quarter 3 2022 (June 27, 2022 – September 25, 2022).....	5
Reporting Period Quarter 2 2022 (May 30, 2022 – June 26, 2022).....	8
Appendix 1: Up to Date with COVID-19 Vaccines during the surveillance period of September 26, 2022 – December 25, 2022	10
Appendix 2a: Decision Tree on Determining Up to Date Vaccination Status for Reporting Period Quarter 3 2022 (June 27, 2022 – September 25, 2022)	11
Appendix 2b: Decision Tree on Determining Up to Date Vaccination Status for Moderately to Severely Immunocompromised individuals for Reporting Period Quarter 3 2022 (June 27, 2022 – September 25, 2022).....	12

Reporting Period Quarter 4 2022 (September 26, 2022 – December 25, 2022)

The following definitions apply when reporting data through the NHSN COVID-19 Vaccination Modules for the reporting period of Quarter 4, 2022 (representing vaccination data for **September 26, 2022 – December 25, 2022**).

Up to date with COVID-19 vaccines (*Please note that changes for **Quarter 4 2022** are highlighted in yellow.*)

*Individuals are considered up to date with their COVID-19 vaccines during the surveillance period of **September 26, 2022 – December 25, 2022** for the purpose of NHSN surveillance if they meet (1) of the following criteria:*

Received an **updated (bivalent)* booster dose**,

or

- a) Received their **last booster** dose **less than 2 months ago**, or
- b) Completed their **primary series** **less than 2 months ago**

* The updated (bivalent) Moderna and Pfizer-BioNTech boosters target the most recent Omicron subvariants. The updated (bivalent) boosters were recommended by the CDC on 9/2/2022. As of this date, the original, monovalent mRNA vaccines are no longer authorized as a booster dose for people ages 12 years and older.

Note: Up to date guidance for individuals ages 11 years and younger differs; please see [Stay Up to Date with COVID-19 Vaccines Including Boosters](#) for details.

Note: the NHSN surveillance definition for up to date is now the same regardless of immunocompromised status.

Primary vaccine series

Completing a primary vaccine series means receiving:

- A 2-dose series of a COVID-19 vaccine **OR**
- A single dose of Janssen COVID-19 vaccine

Booster dose

A booster dose is a subsequent dose of vaccine administered to enhance or restore protection which might have waned over time after primary series vaccination.

Additional dose

An additional dose is another dose of vaccine administered to people who were less likely to mount a protective immune response after initial vaccination (i.e., those who are moderately or severely immunocompromised).

*Note: Assume all doses received after primary series are booster doses unless you have specific documentation of an individual receiving an additional dose.

Examples: Up to Date with COVID-19 Vaccines

Examples	Considered up to date?
<ul style="list-style-type: none"> • Mary received 2 doses of the Moderna COVID-19 vaccine. • Mary received a first booster dose of the Moderna COVID-19 vaccine 9 months ago. • Mary received a second booster dose of the Moderna COVID-19 vaccine 2.5 months ago. 	No, Mary is not up to date with COVID-19 vaccines because she has not yet received an updated (bivalent) COVID-19 booster dose, and she received her most recent booster more than 2 months ago.
<ul style="list-style-type: none"> • Tom received 2 doses of the Pfizer COVID-19 vaccine. • Tom received one booster dose of the Moderna COVID-19 vaccine 4.5 months ago. • Tom received an updated (bivalent) booster dose of COVID-19 vaccine 2 months ago 	Yes, Tom is up to date with COVID-19 vaccines because he received an updated (bivalent) booster dose.
<ul style="list-style-type: none"> • Jackie received 2 doses of the Moderna COVID-19 vaccine. • Jackie received one additional dose of Moderna COVID-19 vaccine due to being severely immunocompromised, one booster dose of the 	Yes, Jackie is up to date with COVID-19 vaccines because she received an updated (bivalent) booster dose.

Moderna COVID-19 vaccine, and one updated (bivalent) booster dose.	
<ul style="list-style-type: none"> Frank received 2 doses of Novavax vaccine with the last dose received one month ago. 	Yes, Frank is up to date with COVID-19 vaccines. He completed his primary vaccine series less than 2 months ago and is not yet eligible for an updated (bivalent) booster dose.
<ul style="list-style-type: none"> Sandy received 2 doses of Pfizer COVID-19 vaccine Sandy received an updated (bivalent) booster dose of COVID-19 vaccine 1 month ago 	Yes, Sandy is up to date with COVID-19 vaccine because she received an updated (bivalent) booster.
<ul style="list-style-type: none"> Jeff received 1 dose of Janssen COVID-19 vaccine 4 months ago Jeff received 1 Moderna booster dose of COVID-19 vaccine 1 month ago 	Yes, Jeff is up to date because his most recent booster was less than two months ago. He is not yet eligible to receive an updated (bivalent) booster dose.
<ul style="list-style-type: none"> Jane only received the first dose of the Pfizer-BioNTech COVID-19 vaccine. 	No, Jane is not up to date with COVID-19 vaccines because she did not receive all recommended doses in the primary vaccine series.

Reporting Period Quarter 3 2022 (June 27, 2022 – September 25, 2022)

The following definitions apply when reporting data through the NHSN COVID-19 Vaccination Modules for the reporting period of Quarter 3, 2022 (representing vaccination data for June 27, 2022 – September 25, 2022).

Up to date with COVID-19 vaccines (*Please note that changes for Quarter 3 2022 are highlighted in yellow.*)

Individuals are considered up to date with their COVID-19 vaccines during the surveillance period of June 27, 2022 through September 25, 2022 for the purpose of NHSN surveillance if they meet (1) of the following criteria*:

If Under 50 Years:	If 50 Years and Older:
<p>Received at least one booster dose</p> <p style="text-align: center;"><u>or</u></p> <p>Recently received all recommended doses in the primary vaccine series but is not yet eligible for a booster dose. This includes:</p> <ul style="list-style-type: none"> c) Those who completed their 2-dose primary series of an mRNA COVID-19 vaccine (Pfizer-BioNTech or Moderna) less than 5 months ago. d) Those who received a single dose of Janssen less than two months ago. 	<p>Received second booster dose (or received first booster dose less than 4 months ago and not yet eligible for a second booster dose)</p> <p style="text-align: center;"><u>or</u></p> <p>Recently received all recommended doses in the primary vaccine series** but is not yet eligible for a booster dose. This includes:</p> <ul style="list-style-type: none"> a) Those who completed their 2-dose primary series of an mRNA COVID-19 vaccine (Pfizer-BioNTech or Moderna) less than 5 months ago. b) Those who received a single dose of Janssen less than two months ago.

*Individuals with a moderately to severely immunocompromising condition are considered up to date in the following cases:

- 1) Received an additional dose less than three months ago, if primary series was the Moderna or Pfizer-BioNTech COVID-19 vaccine; or
- 2) Received an additional dose less than two months ago, if primary series was the Janssen COVID-19 vaccine; or
- 3) Received an additional dose and one booster dose **less than four months ago; or**
- 4) Received a **second booster dose**.

**The Novavax COVID-19 Vaccine was approved by the FDA on July 13, 2022. The Novavax COVID-19 Vaccine, Adjuvanted is administered as a two-dose primary series. Individuals who complete the Novavax primary series are considered up to date two weeks after the final dose in their primary series, since a booster dose is not recommended at this time for anyone who has completed the Novavax primary series.

Primary vaccine series

Completing a primary vaccine series means receiving:

- A 2-dose series of a COVID-19 vaccine **OR**
- A single dose of Janssen COVID-19 vaccine

Booster dose

A booster dose is a subsequent dose of vaccine administered to enhance or restore protection which might have waned over time after primary series vaccination.

Additional dose

An additional dose is another dose of vaccine administered to people who were less likely to mount a protective immune response after initial vaccination (i.e., those who are moderately or severely immunocompromised).

*Note: Assume all doses received after primary series are booster doses unless you have specific documentation of an individual receiving an additional dose.

Examples: Up to Date with COVID-19 Vaccines

Examples	Considered up to date?
<ul style="list-style-type: none"> • Mary is 35 years old. • Mary received 2 doses of the Moderna COVID-19 vaccine. • Mary received one booster dose of the Moderna COVID-19 vaccine 2 months ago. 	Yes, Mary is up to date with COVID-19 vaccines because she is less than 50 years old and received one booster dose.
<ul style="list-style-type: none"> • Tom is 60 years old. • Tom received 2 doses of the Pfizer COVID-19 vaccine. • Tom received one booster dose of the Moderna COVID-19 vaccine 4.5 months ago. 	No, Tom is not up to date with COVID-19 vaccines because he is 60 years old (i.e., greater than 50) and received only one booster dose 4.5 months ago. Since it has been more than 4 months since his booster dose, Tom is now eligible for a second booster dose but has not yet received it.
<ul style="list-style-type: none"> • Jackie is 78 years old. • Jackie received 2 doses of the Moderna COVID-19 vaccine. • Jackie received two booster doses of the Moderna COVID-19 vaccine; last dose was 7 months ago. 	Yes, Jackie is up to date with COVID-19 vaccines because she received two booster doses.
<ul style="list-style-type: none"> • John is 23 years old. • John received 2 doses of the Moderna COVID-19 vaccine; last dose was 7 months ago. 	No, John is not up to date with COVID-19 vaccines because he has not received a booster dose even though he is eligible for it. It has been over 5 months since John received his second dose of the Moderna COVID-19 vaccine. Therefore, John is

	eligible for a booster dose. He has not yet received a booster dose, so he is not up to date.
<ul style="list-style-type: none"> Frank is 70 years old. Frank received 2 doses of the Pfizer-BioNTech COVID-19 vaccine; last dose was 3 months ago. 	Yes, Frank is up to date with COVID-19 vaccines. It has been three months since Frank received his second dose of the Pfizer-BioNTech COVID-19 vaccine. Therefore, Frank is not yet eligible for a booster dose at this time (but will be eligible in two months).
<ul style="list-style-type: none"> Jane is 19 years old. Jane only received the first dose of the Pfizer-BioNTech COVID-19 vaccine. 	No, Jane is not up to date with COVID-19 vaccines because she did not receive all recommended doses in the primary vaccine series.
<ul style="list-style-type: none"> Alice received 2 doses of the Moderna COVID-19 vaccine. Alice received an additional dose one month ago due to having a moderately immunocompromising condition. Alice did not receive any booster doses. 	Yes, Alice is up to date with COVID-19 vaccines because she received an additional dose less than three months ago. Therefore, Alice is not yet eligible for a booster dose at this time (but will be eligible in two months).

Reporting Period Quarter 2 2022 (May 30, 2022 – June 26, 2022)

The following definitions apply when reporting data through the NHSN COVID-19 Vaccination Modules for the reporting periods of Quarter 2, 2022 (representing vaccination data for May 30, 2022 through June 26, 2022).

Primary vaccine series

Completing a primary vaccine series means receiving:

- A 2-dose series of an mRNA COVID-19 vaccine (Pfizer-BioNTech and Moderna), **OR**
- A single dose of Janssen COVID-19 vaccine

Booster dose

A booster dose is a subsequent dose of vaccine administered to enhance or restore protection which might have waned over time after primary series vaccination.

Additional dose

An additional dose is another dose of vaccine administered to people who were less likely to mount a protective immune response after initial vaccination (i.e., those who are moderately or severely immunocompromised).

*Note: Assume all doses received after primary series are booster doses unless you have specific documentation of an individual receiving an additional dose.

Up to date with COVID-19 Vaccines

Individuals are considered up to date with their COVID-19 vaccines during the surveillance period of May 30, 2022 through June 26, 2022 for the purpose of NHSN surveillance if they meet (1) of the following criteria*:

1. An individual received all recommended doses in their **primary vaccine series** and received at least **one booster dose**. An individual does not need to receive a second booster dose to be considered up to date at this time.
2. An individual **recently** received all recommended doses in the **primary vaccine series** and is **not yet eligible for a booster dose**. Individuals who are not yet eligible to receive a booster dose include:
 - a. Those who received their second dose of a 2-dose primary series of an mRNA COVID-19 vaccine (Pfizer-BioNTech or Moderna) less than 5 months ago.
 - b. Those who received a single dose of Janssen less than two months ago.

*Individuals with a moderately to severely immunocompromising condition are considered up to date in the following cases:

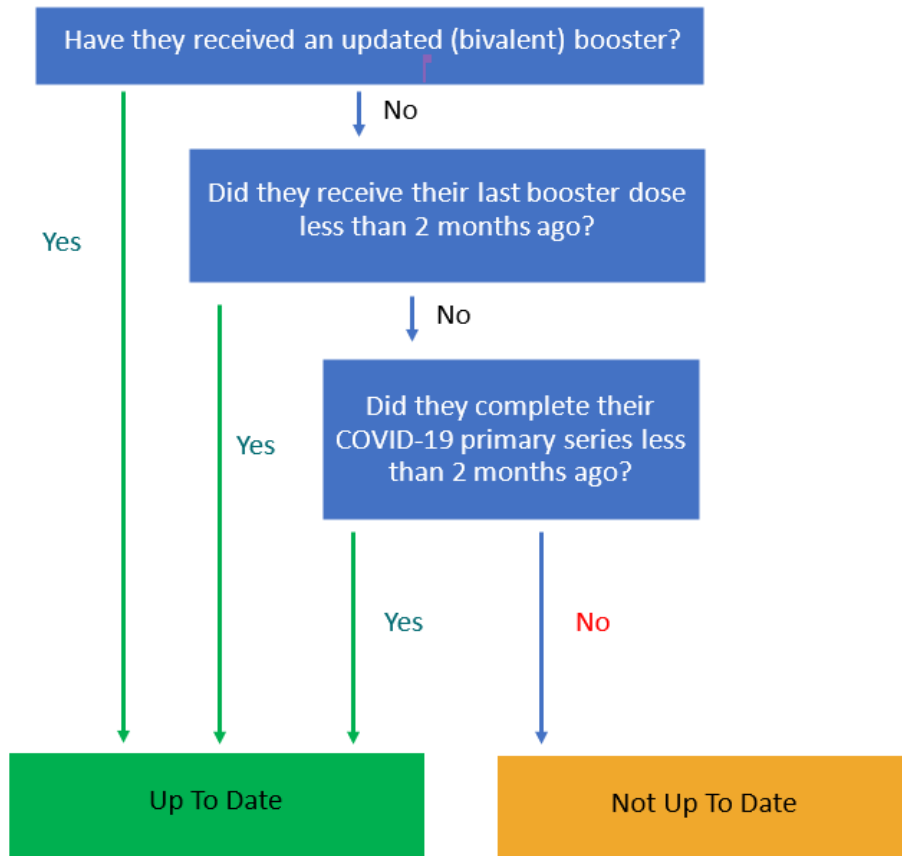
- 1) An individual received an additional dose less than three months ago, if primary series was the Moderna or Pfizer-BioNTech COVID-19 vaccine; or
- 2) An individual received an additional dose less than two months ago, if primary series was the Janssen COVID-19 vaccine; or
- 3) An individual received at least one booster dose after receiving an additional dose.

Examples: Up to Date with COVID-19 Vaccines

Examples	Considered up to date?
<ul style="list-style-type: none"> Mary received 2 doses of the Moderna COVID-19 vaccine. Mary received one booster dose of the Moderna COVID-19 vaccine 2 months ago. 	Yes, Mary is up to date with COVID-19 vaccines because she received one booster doses
<ul style="list-style-type: none"> Jackie received 2 doses of the Moderna COVID-19 vaccine. Jackie received two booster doses of the Moderna COVID-19 vaccine; last dose was 7 months ago. 	Yes, Jackie is up to date with COVID-19 vaccines because she received one booster dose. (In this case, she received two booster doses.)
<ul style="list-style-type: none"> John received 2 doses of the Moderna COVID-19 vaccine; last dose was 7 months ago. 	No, John is not up to date with COVID-19 vaccines because he has not received a booster dose even though he is eligible for it. It has been over 5 months since John received his second dose of the Moderna COVID-19 vaccine. Therefore, John is eligible for a booster dose. He has not yet received a booster dose, so he is not up to date.
<ul style="list-style-type: none"> Tom received 2 doses of the Pfizer-BioNTech COVID-19 vaccine; last dose was 3 months ago. 	Yes, Tom is up to date with COVID-19 vaccines. It has been three months since Tom received his second dose of the Pfizer-BioNTech COVID-19 vaccine. Therefore, Tom is not yet eligible for a booster dose at this time (but will be eligible in two months).
<ul style="list-style-type: none"> Jane only received the first dose of the Pfizer-BioNTech COVID-19 vaccine. 	No, Jane is not up to date with COVID-19 vaccines because she did not receive all recommended doses in the primary vaccine series.
<ul style="list-style-type: none"> Matt received 2 doses of the Moderna COVID-19 vaccine. Matt received an additional dose due to having a severely immunocompromising condition. Matt received one booster dose after the additional dose. 	Yes, Matt is up to date with COVID-19 vaccines because he received a booster dose after the additional dose of his primary series for his immunocompromising condition.
<ul style="list-style-type: none"> Alice received 2 doses of the Moderna COVID-19 vaccine. Alice received an additional dose one month ago due to having a moderately immunocompromising condition. Alice did not receive any booster doses. 	Yes, Alice is up to date with COVID-19 vaccines because she received an additional dose less than three months ago. Therefore, Alice is not eligible for a booster dose at this time (but will be eligible in two months).

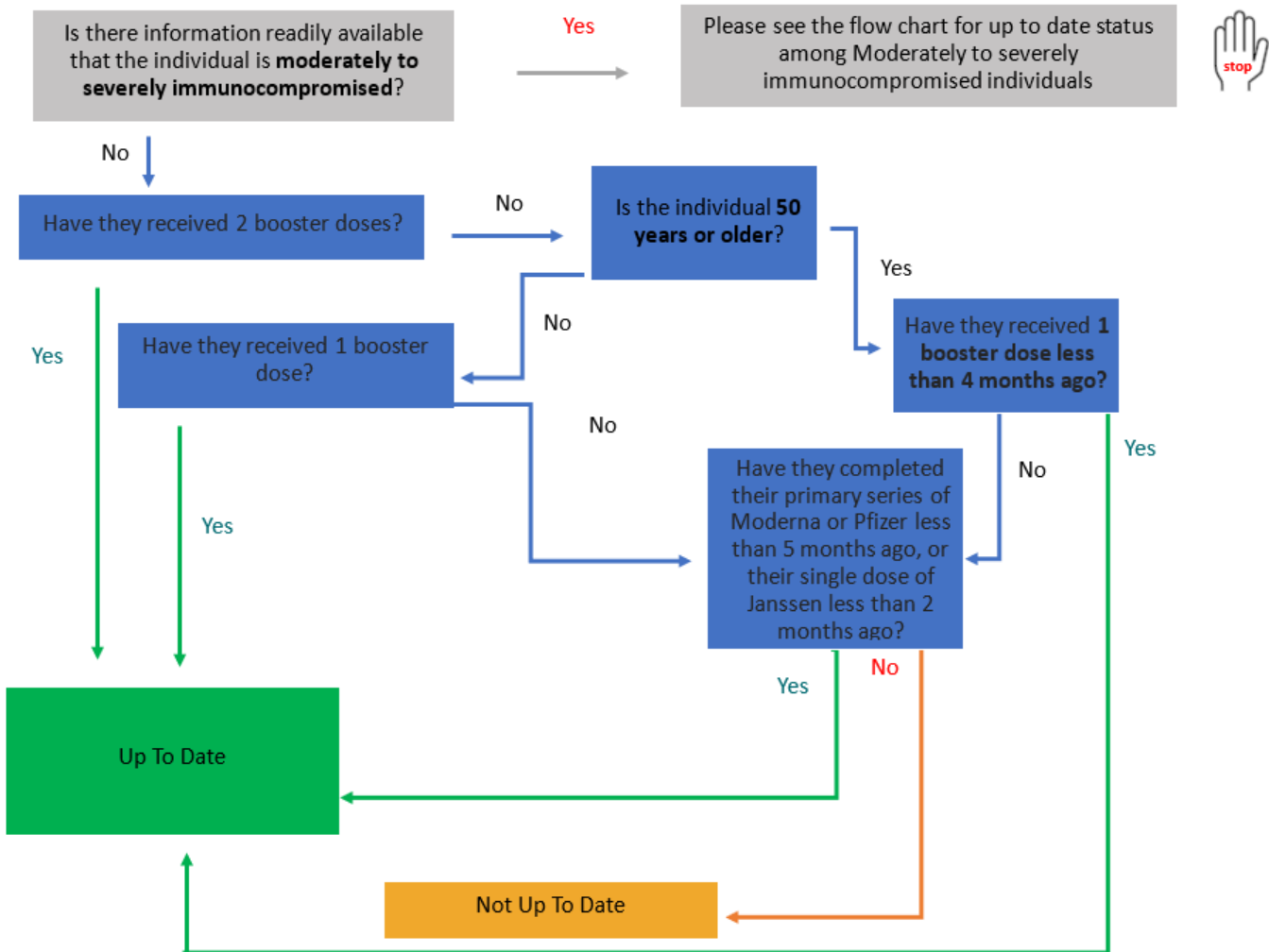
Appendix 1: Up to Date with COVID-19 Vaccines during the surveillance period of September 26, 2022 – December 25, 2022

Facilities can use the following decision tree to help determine up to date vaccination status. Please note this refers to reporting data through the NHSN COVID-19 Vaccination Modules for the reporting period of Quarter 4, 2022 (representing vaccination data for September 26, 2022 – December 25, 2022).



Appendix 2a: Decision Tree on Determining Up to Date Vaccination Status for Reporting Period Quarter 3 2022 (June 27, 2022 – September 25, 2022)

Facilities can use the following decision tree to help determine up to date vaccination status. Please note this refers to reporting data through the NHSN COVID-19 Vaccination Modules for the reporting period of Quarter 3, 2022 (representing vaccination data for June 27, 2022 through September 25, 2022).



Appendix 2b: Decision Tree on Determining Up to Date Vaccination Status for Moderately to Severely Immunocompromised individuals for Reporting Period Quarter 3 2022 (June 27, 2022 – September 25, 2022)

Facilities can use the following decision tree to help determine up to date vaccination status. Please note this refers to reporting data through the NHSN COVID-19 Vaccination Modules for the reporting period of Quarter 3, 2022 (representing vaccination data for June 27, 2022 through September 25, 2022)

