NCDHHS COVID-19 Vaccine Readiness Discussion

Carrie.Blanchard@dhhs.nc.gov

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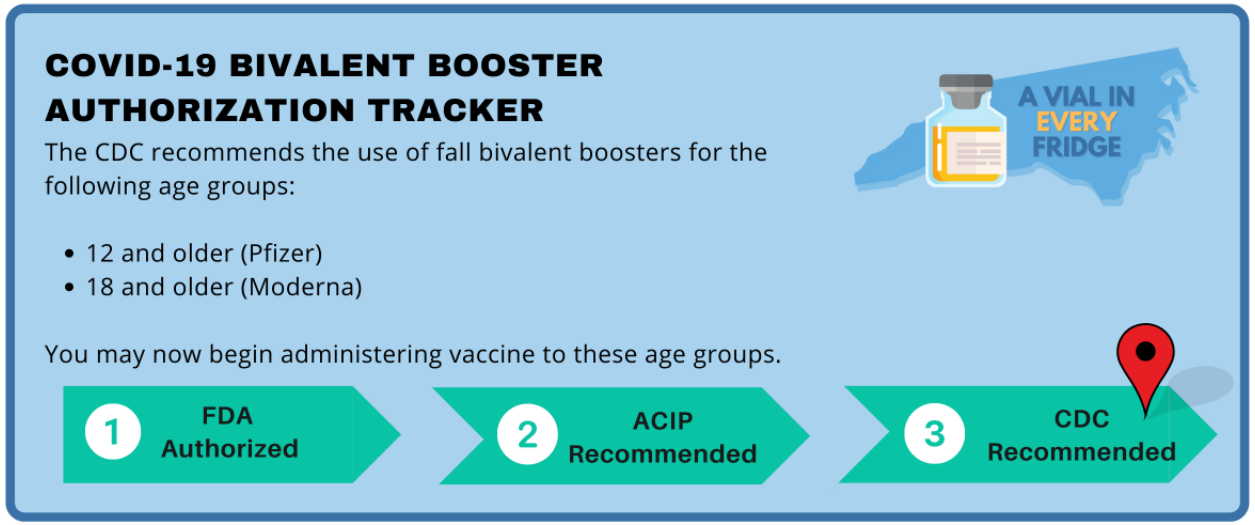
FALL BIVALENT BOOSTER AUTHORIZATION PROGRESS

The Centers for Disease Control and Prevention (CDC) has officially recommended the following products, following FDA emergency use authorization:

- The Pfizer-BioNTech COVID-19 bivalent booster dose for those 12+.
  - ❑ Pfizer Statewide Standing Order
- The Moderna COVID-19 bivalent booster dose for those 18+.
  - ❑ Moderna Statewide Standing Order



- **The monovalent mRNA COVID-19 vaccines are no longer authorized as booster doses for individuals 12 years of age and older. Eligible children 5-11 years old can still receive the original Pfizer booster.**
- **You may now begin administering bivalent booster doses.**

WHEN ARE YOU UP TO DATE?

✓ You are **up to date** with your COVID-19 vaccines if you have completed a COVID-19 vaccine primary series and **received the most recent booster dose** recommended for you by CDC.

✓ **To strengthen and extend protections against COVID-19, boosters are available to North Carolinians ages 5+.**

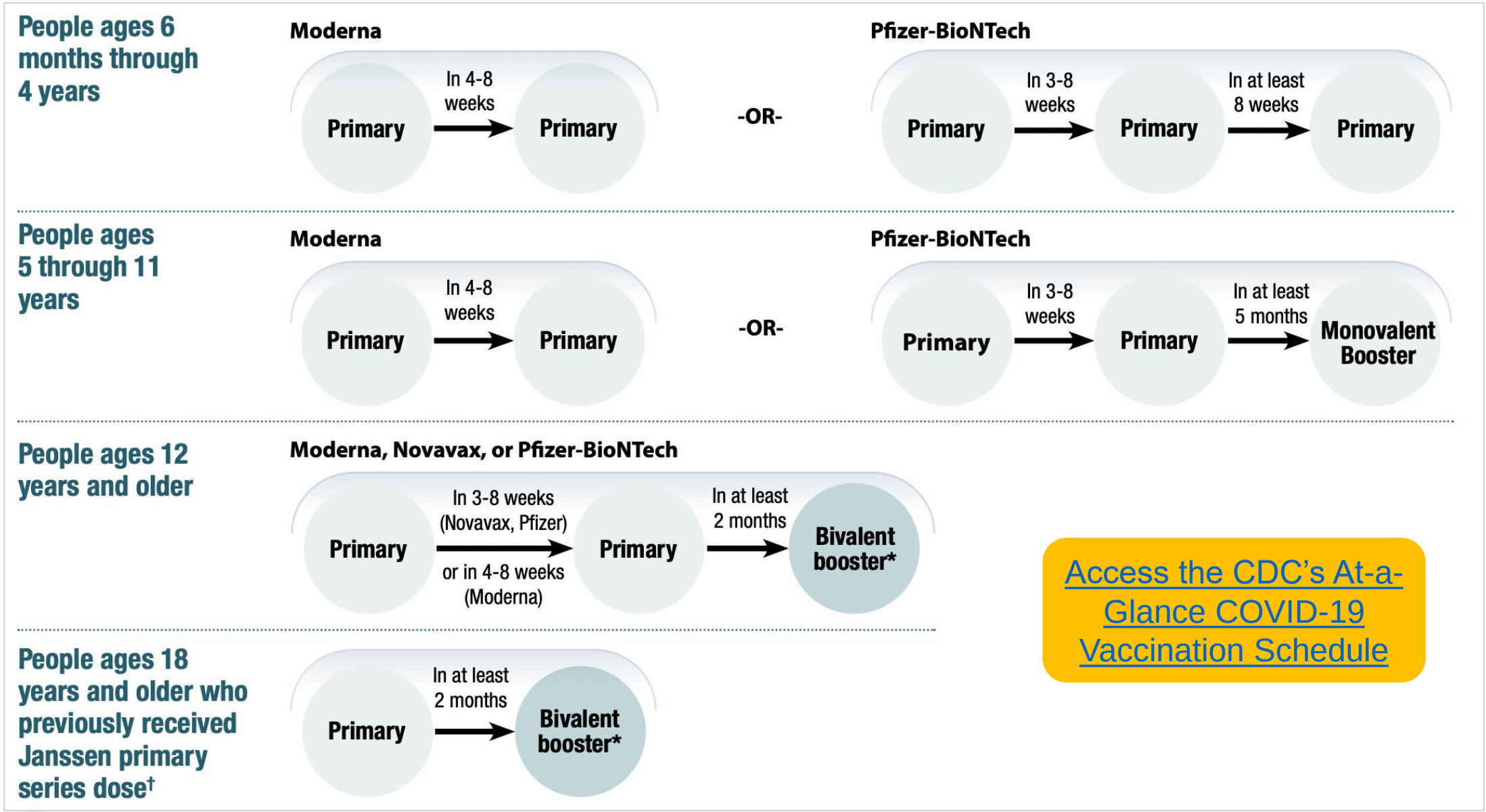
You should get a booster now if you are eligible based on the following:

- You are **5 to 11 years old**, and you got a **second dose of the Pfizer** vaccine at least **5 months** ago.
- You are **12 or older**, and you got the last dose in your primary series or any booster at least **2 months** ago.

CDC's Staying Up to Date (Boosters Included) Guidance

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

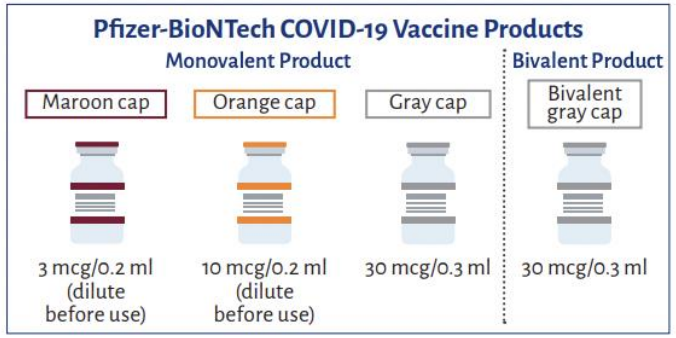
NON-IMMUNOCOMPROMISED COVID-19 VACCINE SCHEDULE

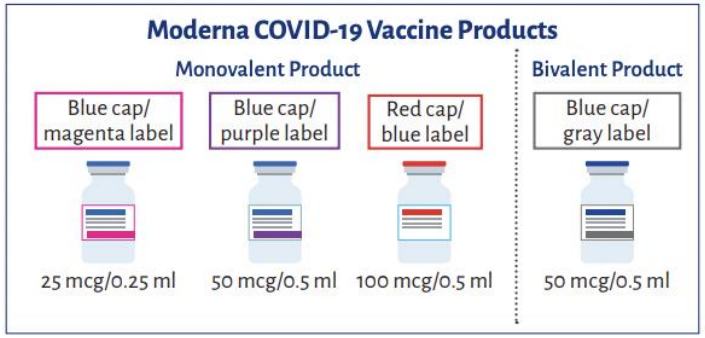


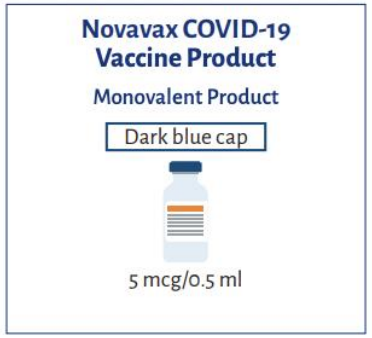
Access the CDC's At-a-Glance COVID-19 Vaccination Schedule

Pediatric COVID-19 Vaccine Dosing Quick Reference Guide

American Academy of Pediatrics
DEDICATED TO THE HEALTH OF ALL CHILDREN®







Age at First Dose	Pfizer-BioNTech COVID-19 Vaccine			Moderna COVID-19 Vaccine			Novavax COVID-19 Vaccine		
6 months–4 years	**Dose 1** Maroon cap	**Dose 2** 3-8 weeks after dose 1 Maroon cap	**Dose 3** at least 8 weeks after dose 2 Maroon cap	**Dose 1** Blue cap/ magenta label	**Dose 2** 4-8 weeks after dose 1 Blue cap/ magenta label				
5 years	**Dose 1** Orange cap	**Dose 2** 3-8 weeks after dose 1 Orange cap	**Dose 3** at least 5 months after dose 2 Orange cap	**Dose 1** Blue cap/ magenta label	**Dose 2** 4-8 weeks after dose 1 Blue cap/ magenta label				
6–11 years	**Dose 1** Orange cap	**Dose 2** 3-8 weeks after dose 1 Orange cap	**Dose 3** at least 5 months after dose 2 Orange cap	**Dose 1** Blue cap/ purple label	**Dose 2** 4-8 weeks after dose 1 Blue cap/ purple label				
12–17 years	**Dose 1** Gray cap	**Dose 2** 3-8 weeks after dose 1 Gray cap	**Bivalent dose** at least 2 months after last dose† Bivalent gray cap	**Dose 1** Red cap/ blue label	**Dose 2** 4-8 weeks after dose 1 Red cap/ blue label	**Bivalent dose** at least 2 months after dose 2 **Pfizer's** Bivalent gray cap	**Dose 1** Dark blue cap	**Dose 2** 3-8 weeks after dose 1 Dark blue cap	**Bivalent dose** at least 2 months after dose 2 **Pfizer's** Bivalent gray cap
18 years and older	**Dose 1** Gray cap	**Dose 2** 3-8 weeks after dose 1 Gray cap	**Bivalent dose** at least 2 months after last dose† Bivalent gray cap **OR Moderna's** Blue cap/ gray label	**Dose 1** Red cap/ blue label	**Dose 2** 4-8 weeks after dose 1 Red cap/ blue label	**Bivalent dose** at least 2 months after last dose† Blue cap/ gray label **OR Pfizer's** Bivalent gray cap	**Dose 1** Dark blue cap	**Dose 2** 3-8 weeks after dose 1 Dark blue cap	**Bivalent dose** at least 2 months after dose 2 **Pfizer's** Bivalent gray cap **OR Moderna's** Blue cap/ gray label

[Access the AAP COVID-19 Vaccine Quick Guide Here!]

IMMUNOCOMPROMISED COVID-19 VACCINE SCHEDULE

People ages 6 months through 4 years

Moderna

Primary → (In 4 weeks) Primary → (In at least 4 weeks) Primary

-OR-

Pfizer-BioNTech

Primary → (In 3 weeks) Primary → (In at least 8 weeks) Primary

People ages 5 years through 11 years

Moderna

Primary → (In 4 weeks) Primary → (In at least 4 weeks) Primary

-OR-

Pfizer-BioNTech

Primary → (In 3 weeks) Primary → (In at least 4 weeks) Primary → (In at least 3 months) Monovalent Booster

People ages 12 years and older

Moderna or Pfizer-BioNTech

Primary → (In 3-8 weeks (Pfizer) or in 4 weeks (Moderna)) Primary → (In at least 4 weeks) Primary → (In at least 2 months) Bivalent booster*

-OR-

Novavax

Primary → (In 3 weeks) Primary → (In at least 2 months) Bivalent booster*

People ages 18 years and older who previously received Janssen primary series dose†

Primary → (In at least 4 weeks) Addl mRNA dose → (In at least 2 months) Bivalent booster*

Access the CDC's At-a-Glance COVID-19 Vaccination Schedule

MODERNA BOOSTER ALLOCATION UPDATE

- **CDC announced a delay in availability of Moderna bivalent booster doses.**
- This product likely won't be able to order until the week of **September 29th**.
- Pfizer Bivalent Booster is currently available.

Request Bivalent Booster Doses Here

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

MODERNA BIVALENT BOOSTER

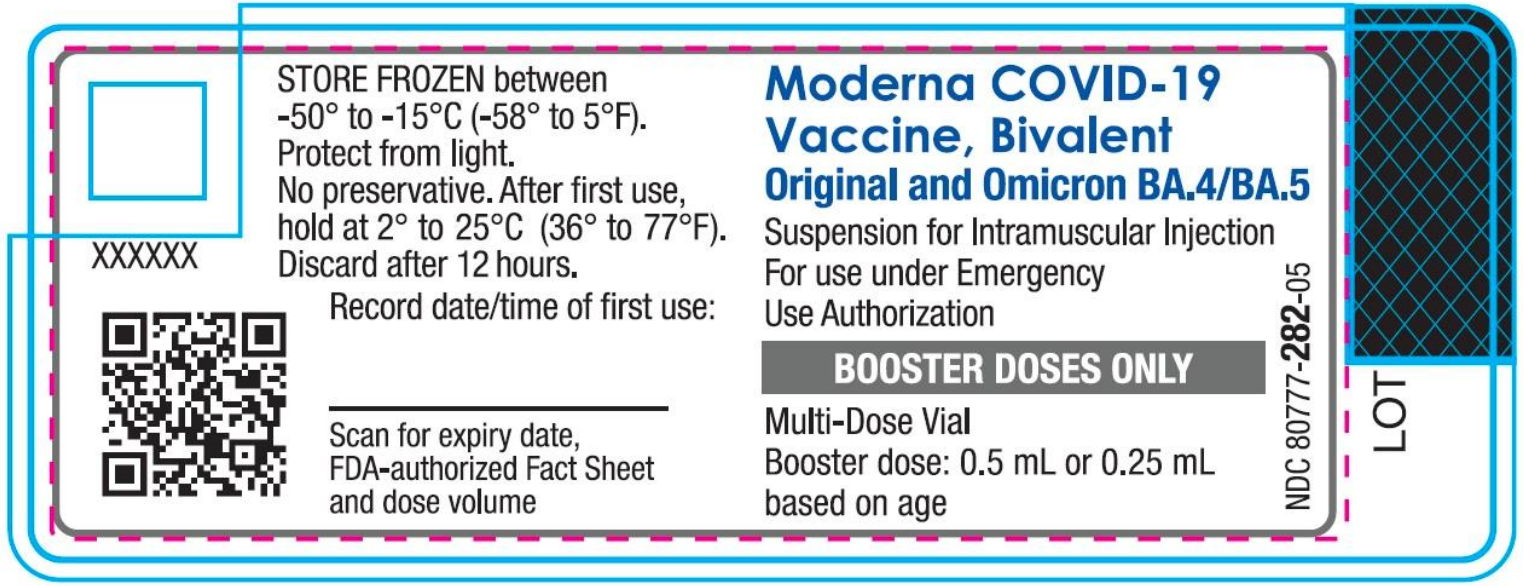
One Carton

- 10 vials in 1 carton
- 5 dose vials
- Dark blue cap with grey label
- MOQ of 100

Booster Dose: 0.5mL

- 50/50 mix of the original Wuhan strain and BA.4/5 variants
- Storage and handling is the same for all Moderna products
- Statewide Standing Orders are updated

NDC Codes	80777-282-05 80777-282-99



PFIZER BIVALENT BOOSTER

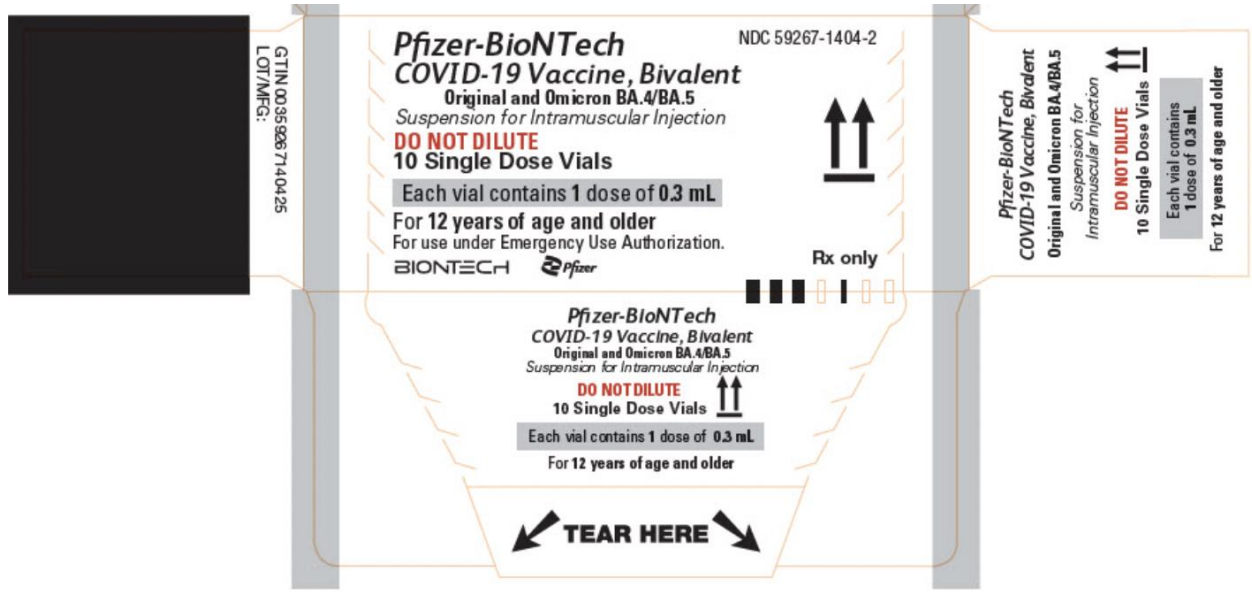
One Carton

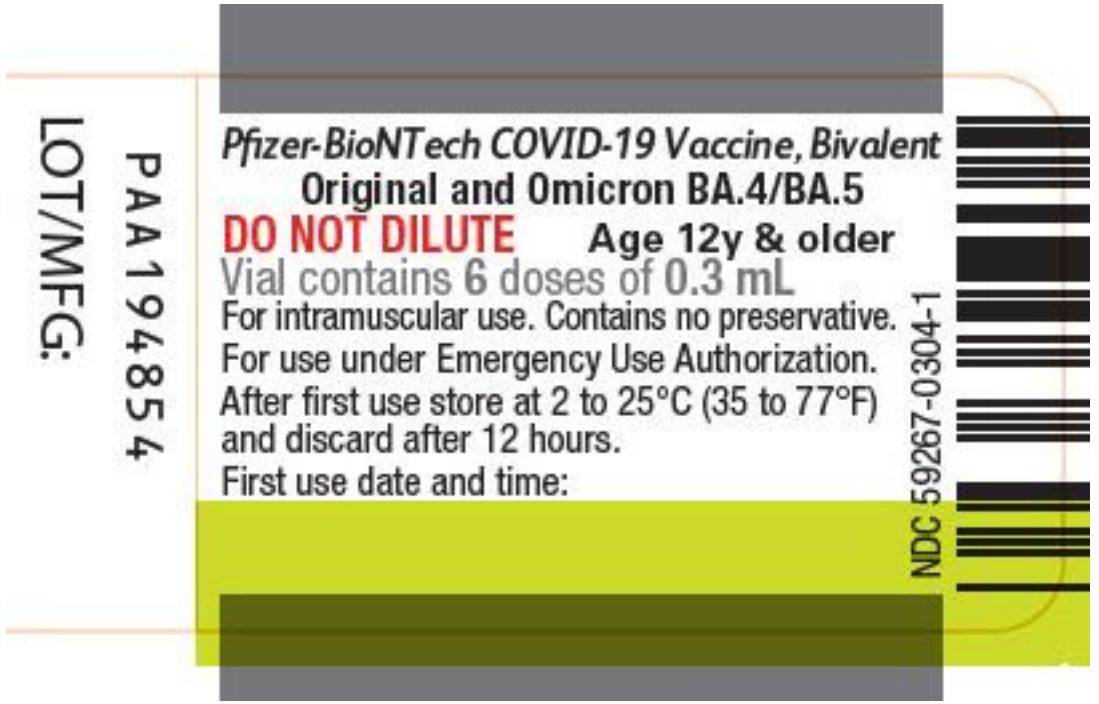
- 10 vials per carton
- 6 doses per vial
- Grey top label and carton
- MOQ of 300

Booster Dose: 0.3mL

- 50/50 mix of the original Wuhan strain and BA.4/5 variants
- Packing for the bivalent booster is differentiated by the writing on the carton
- Statewide Standing Orders are updated

NDC Codes	59267-0304-1 59267-0304-2 59267-1404-1 59267-1404-2





TRAINING ON PFIZER COVID-19 BIVALENT BOOSTERS

Pfizer is hosting training sessions on the use of the bivalent booster for individuals 12 years of age and older.

Sessions will cover the use of each currently authorized vaccine presentation including:

- Storage and handling
- Preparation and administration
- Q&A session

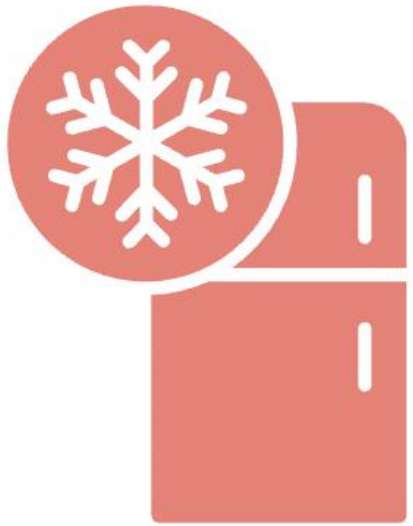
Access the Trainings Sessions Here

Upcoming Training Sessions
Wednesday, September 14th (12pm)
Thursday, September 15th (12pm)
Friday, September 16th (3pm)
Monday, September 19th (3pm)
Tuesday, September 20th (3pm)
Wednesday, September 21st (12pm)

FALL BOOSTER STORAGE AND HANDLING INFO

Pfizer-BioNTech COVID-19 Vaccines

- 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
- Expected to be packaged in 6-dose vials in cartons of 10 vials each (60 doses total), with a minimum order quantity of 300 doses.



Moderna COVID-19 Vaccines

- Freezer storage (-50°C to -15°C) until expiry
- **NO ULTRA-COLD FREEZER STORAGE**
- Refrigerate (2°C to 8°C) up to 30 days without puncturing
- Expected to be packaged in 5- dose vials in cartons of 10 vials each (50 doses total), with a minimum order quantity of 100 doses.

Appendix

UPDATED VACCINE EXPIRY LOOKUP LINKS

Use these links to check expiry dates on vaccine inventory!

NEW! Pfizer COVID-19 Vaccine Expiry Lookup

Moderna COVID-19 Vaccine Expiry Lookup

Janssen COVID-19 Vaccine Expiry Date Lookup

Novavax COVID-19 Vaccine Expiry Lookup

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES

K-12 IMMUNIZATION REQUIREMENTS CARDS

K-12 immunization age group requirement cards have been updated! Download these resources (English and Spanish) to learn more about immunizations and vaccine-preventable diseases.

[NC Back to School - Kindergarten Immunization Requirements]
[NC Back to School - 7th Grade Immunization Requirements]
[NC Back to School - 12 Grade Immunization Requirements]

NC BACK TO SCHOOL
Immunization Requirements

Grade Level Entry Vaccine Requirements*

K Kindergarten	DTaP	5 doses
	Polio	4 doses
	Hib **(4-YEAR-OLDS ONLY)**	4 doses
	MMR (or 2 measles, 2 mumps, 1 rubella)	2 doses
	Hepatitis B	3 doses
	Varicella (chickenpox)	2 doses
	Pneumococcal conjugate **(4-YEAR-OLDS ONLY)**	4 doses

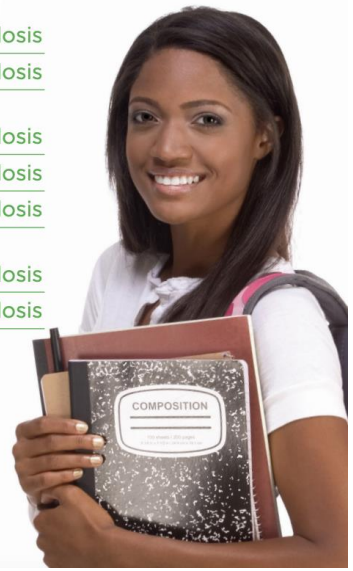
At all ages and grades, the number of doses required may vary by a child's age and when they were vaccinated.

NC Department of Health and Human Services • Division of Public Health • Immunization Branch • www.immunize.nc.gov/ • NCDHHS is an equal opportunity employer and provider. • 8/2022

DE REGRESO A CLASES EN CAROLINA DEL NORTE
Requisitos de Vacunación

Requisitos de vacunación para ingresar al año escolar*

12° Doceavo grado	Vacuna DTaP (contra difteria-tétanos-tosferina)	5 dosis
	Vacuna contra la polio	4 dosis
	Vacuna MMR (2 contra sarampión, 2 contra paperas y 1 contra rubéola)	2 dosis
	Vacuna contra la hepatitis tipo B	3 dosis
	Vacuna contra la varicela	1 dosis
	Vacuna Tdap (refuerzo contra difteria-tétanos-tos ferina)	1 dosis
	Vacuna antimeningocócica conjugada	2 dosis

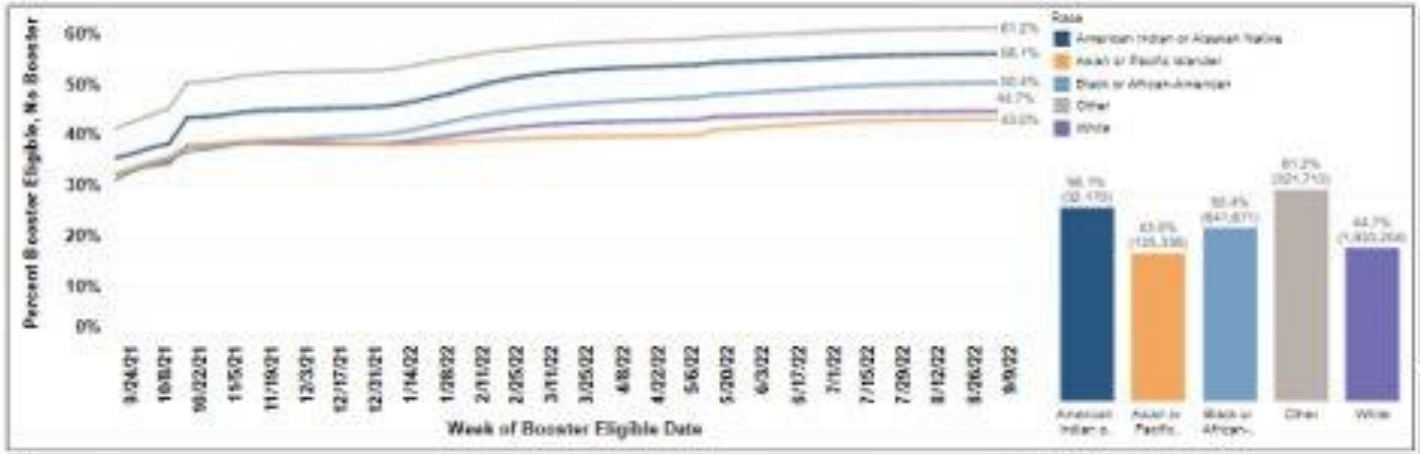


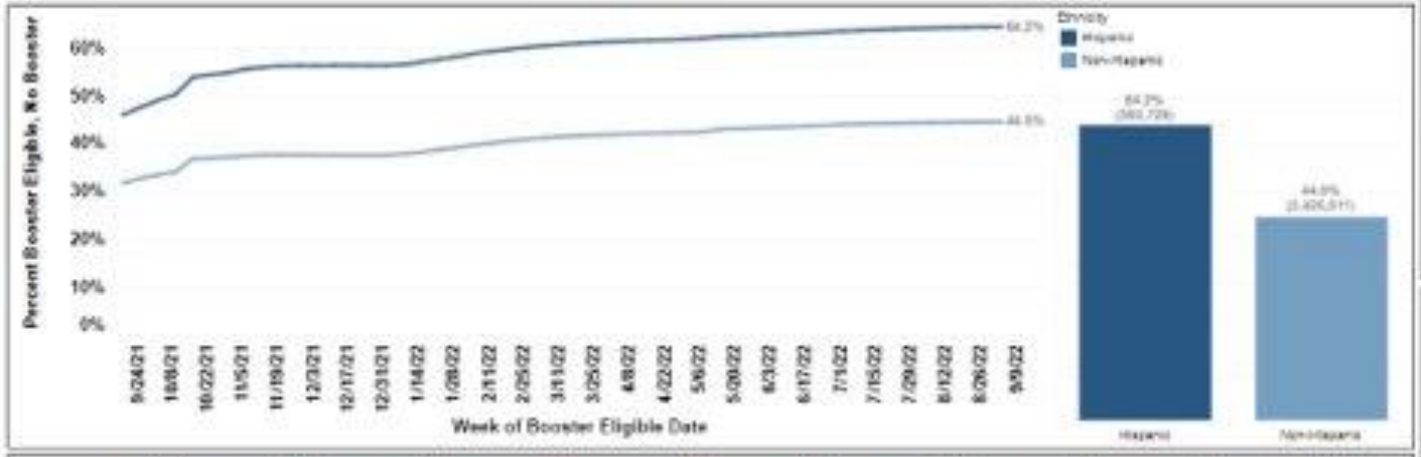
A cualquier edad y grado escolar, el número de dosis requerida puede variar dependiendo de la edad del menor y cuándo fue vacunado.

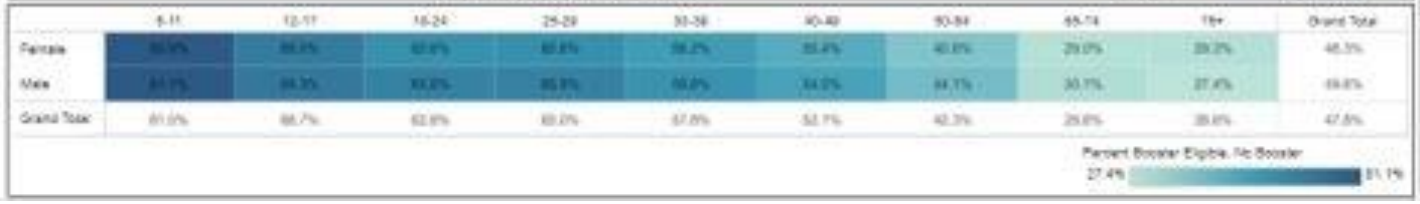
Departamento de Salud y Servicios Humanos de Carolina del Norte • Sección de Vacunaciones de Carolina del Norte • www.immunize.nc.gov/ • NCDHHS es un empleador y proveedor que ofrece igualdad de oportunidades. • 8/2022

Booster Eligible, No Booster - Breakdown

The visual below displays the percentage of individuals who have yet received a booster dose but are booster eligible according to CDC guidelines. Calculation logic can be found in the appendix. Data as of 9/8/2022.







Booster Eligible, No Booster

47.8%

(3,321,207)

Top 10 Counties	
ROBESON COUNTY	
DUPLIN COUNTY	
HOKE COUNTY	
ONSLOW COUNTY	
CURRITUCK COUNTY	
POLK COUNTY	
WILKES COUNTY	
HARNETT COUNTY	

Bottom 10 Counties	
ORANGE COUNTY	
DURHAM COUNTY	
BRUNSWICK COUNTY	
CHEROKEE COUNTY	
BUNCOMBE COUNTY	
TRANSYLVANIA COUNTY	
HYDE COUNTY	
WAKE COUNTY	
HENDERSON COUNTY	

Key Takeaways:

- Because nearly 64.5% of Latinx recipients are overdue for their booster dose, maintaining a supply of COVID-19 vaccine capable of boosting these individuals is part of providers' commitment to health equity.
- Slight decrease month-to-month

August data slides referring to 'boosters' are referencing the original monovalent booster

Note: Data does *not* include federal entity administrations

Statewide Vaccination Trends: Booster % Intersectional Breakdown

The visual below displays the percentage of individuals who have received a booster dose out of the booster eligible population according to CDC guidelines. Calculation logic can be found in the appendix. Data as of 9/8/2022.

Race by Age Group

		5-11	12-17	18-24	25-29	30-39	40-49	50-64	65-74	75+	Grand To..
American Indian or Alaskan Native	Female	15.5%	24.7%	31.9%	31.7%	35.2%	41.3%	50.4%	62.6%	65.4%	44.9%
	Male	15.5%	26.4%	28.9%	26.7%	35.4%	40.5%	47.2%	62.2%	64.9%	43.0%
Asian or Pacific Islander	Female	19.8%	45.4%	56.7%	52.3%	57.7%	63.0%	67.1%	72.2%	71.4%	58.3%
	Male	20.2%	42.9%	51.5%	47.6%	55.5%	62.0%	66.7%	70.9%	74.3%	55.8%
Black or African-American	Female	14.0%	26.1%	32.6%	29.6%	34.7%	47.2%	61.8%	74.5%	74.4%	51.7%
	Male	13.6%	25.1%	29.3%	27.5%	32.6%	42.3%	56.9%	72.0%	74.8%	47.3%
White	Female	22.1%	36.7%	42.6%	42.9%	47.8%	52.2%	60.1%	71.2%	71.7%	56.9%
	Male	21.7%	35.3%	36.9%	36.7%	43.8%	49.0%	57.1%	70.5%	73.3%	54.0%
Grand Total		19.0%	31.3%	37.2%	37.0%	42.2%	47.9%	57.7%	70.4%	71.4%	52.2%

Ethnicity by Age Group

		5-11	12-17	18-24	25-29	30-39	40-49	50-64	65-74	75+	Grand Tot..
Hispanic	Female	11.5%	23.8%	32.0%	31.6%	34.7%	40.3%	51.6%	60.4%	61.0%	38.2%
	Male	12.1%	22.5%	25.5%	26.5%	28.9%	34.6%	47.0%	61.3%	63.5%	33.6%
Non-Hispanic	Female	20.0%	36.0%	42.3%	41.6%	46.7%	52.7%	61.7%	72.4%	72.5%	57.0%
	Male	19.7%	34.6%	37.5%	36.9%	44.0%	50.0%	58.6%	71.2%	73.7%	54.2%
Grand Total		19.0%	31.3%	37.2%	37.0%	42.2%	47.9%	57.7%	70.4%	71.4%	52.2%

Booster Received %

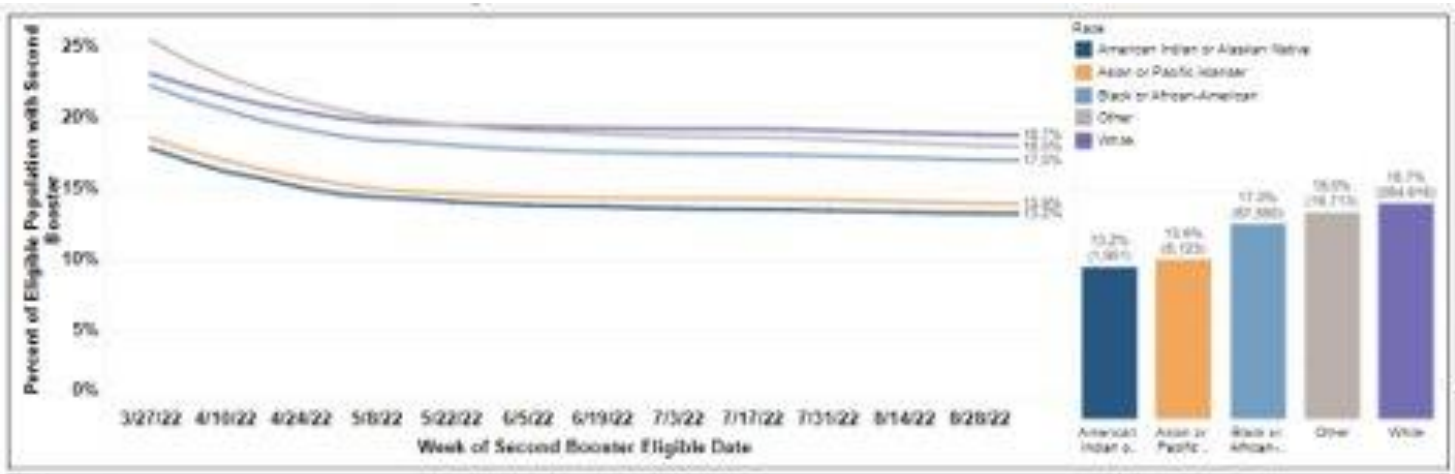
4.0% 80.0%

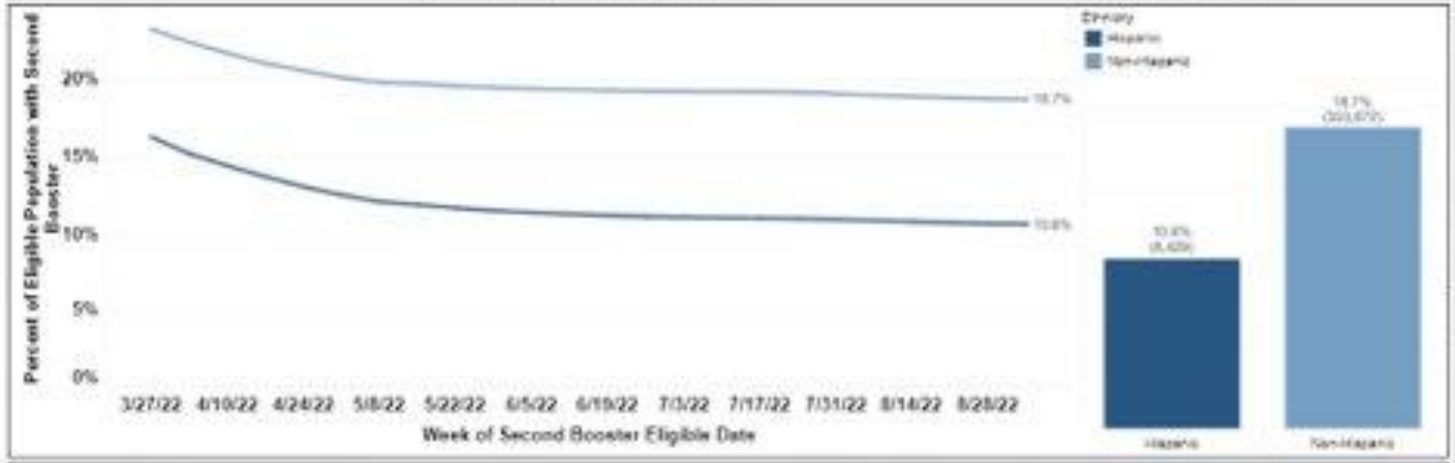
August data slides referring to 'boosters' are referencing the original monovalent booster

Note: Data does *not* include federal entity administrations.

Second Booster Dose - Breakdown

The visual below displays the percentage of individuals who have received a Second Booster dose out of the Second Booster eligible population according to CDC guidelines. Calculation logic can be found in the appendix. Data as of 9/8/2022.





Second Booster Dose

18.6% (404,912)

Top 10 Counties

AVERY COUNTY	30.6%
BUNCOMBE COUNTY	32.8%
TRANSYLVANIA COUNTY	32.6%
YANCEY COUNTY	32.4%
MADISON COUNTY	31.2%
HERTFORD COUNTY	30.9%
WATAUGA COUNTY	30.2%
BATES COUNTY	28.8%
HENDERSON COUNTY	28.6%
CLAY COUNTY	28.3%

Bottom 10 Counties

CUMBERLAND COUNTY	6.4%
ROWAN COUNTY	6.8%
CASWELL COUNTY	10.4%
REDELL COUNTY	12.2%
ROBESON COUNTY	12.7%
CALDWELL COUNTY	12.9%
DUPLIN COUNTY	12.9%
STANLY COUNTY	13.0%
NASH COUNTY	13.2%
LINCOLN COUNTY	13.5%

Key Takeaways:

- Because nearly all eligible second booster recipients have not received a second booster, maintaining a supply of COVID-19 vaccine capable of boosting these individuals is part of providers' commitment to health equity.
- Second Booster Dose % up 1.6% month-to-month

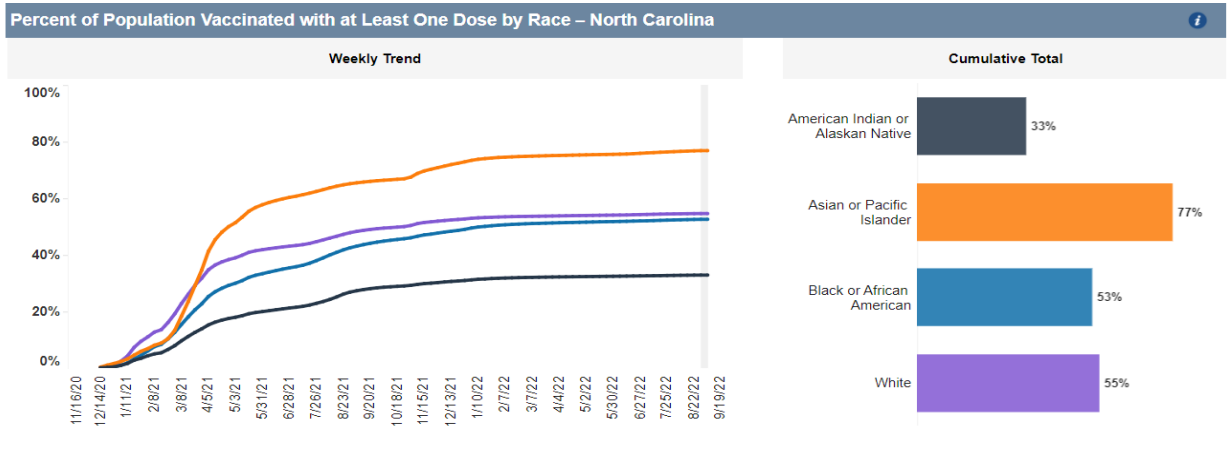
August data slides referring to 'boosters' are referencing the original monovalent booster

Note: Data does *not* include federal entity administrations.

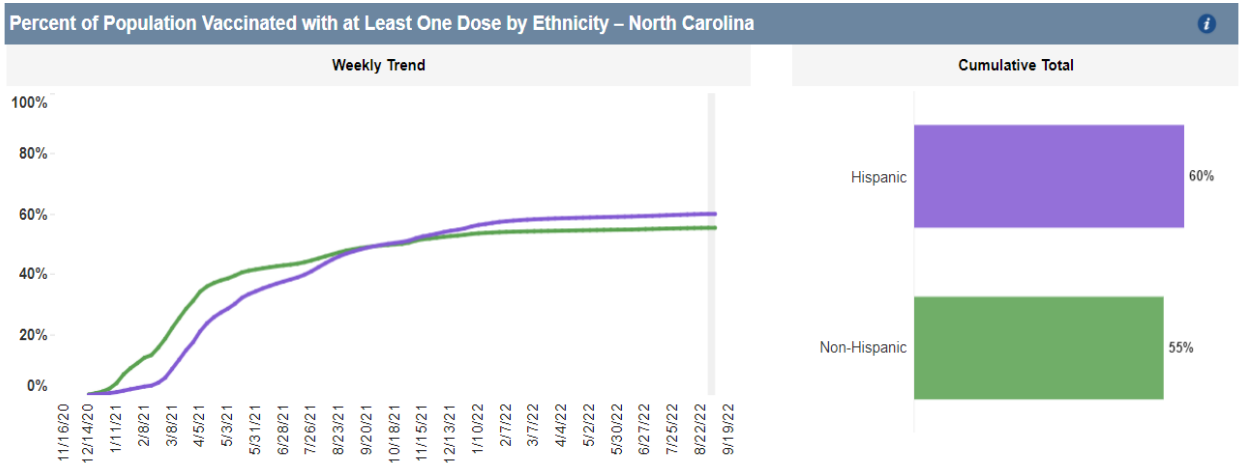
Statewide Vaccination Trends – Initial Series Complete

The visuals below are public dashboard reports with vaccinations data as of 9/8/2022.

Race



Ethnicity



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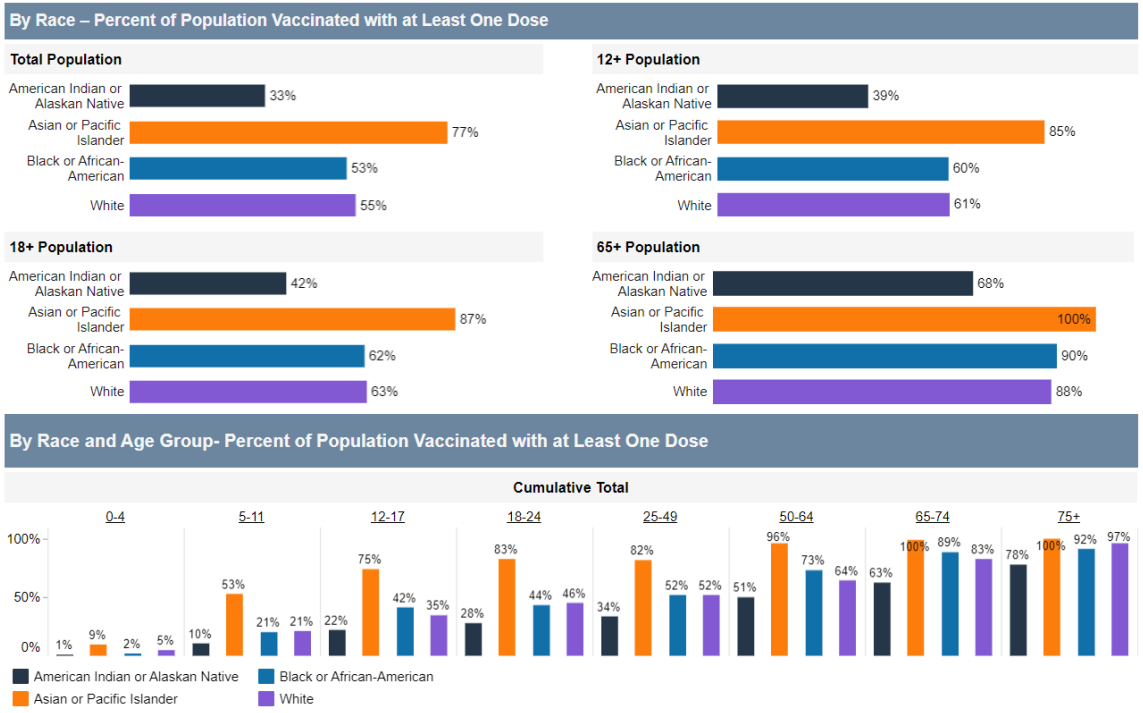

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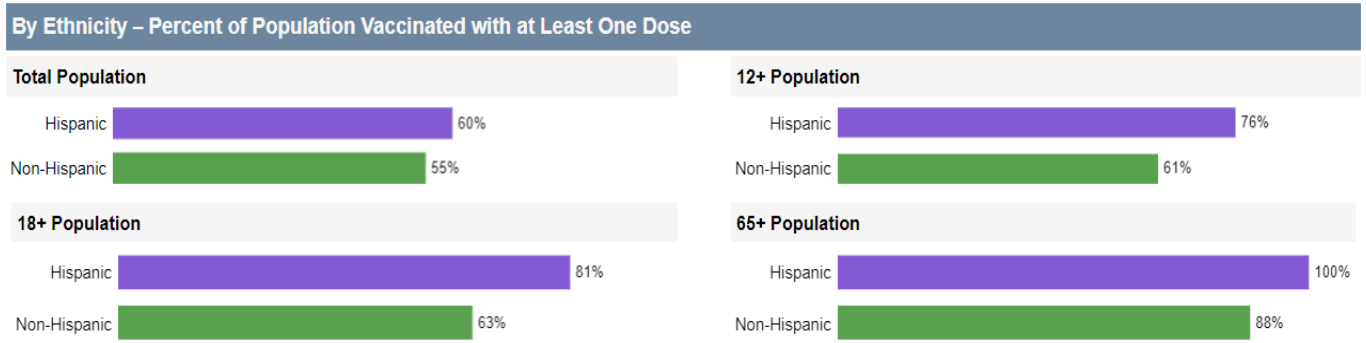
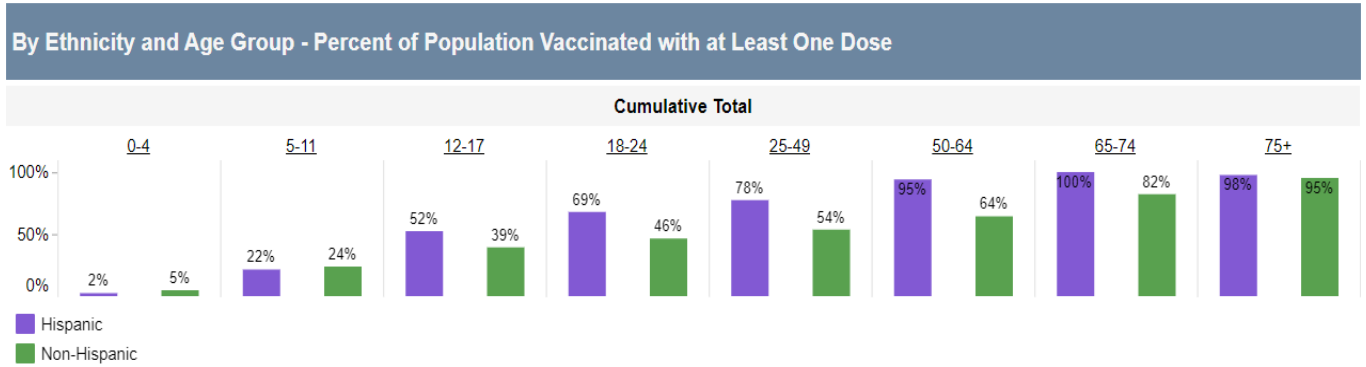




August data slides referring to 'boosters' are referencing the original monovalent booster

Hispanic Population Report – External (Able to Share)

The visual below is reflected of vaccinations data as of 9/7/2022

618,120	60.3%	81.3%	624,984	60.9%	83.3%	219,404	21.4%	31.7%
Vaccinated with at Least One Dose	Vaccinated with at Least One Dose	Population Ages 18+ Vaccinated with at Least One Dose	Initial Series Complete	Total Population Initial Series Complete	Population Ages 18+ Initial Series Complete	Received Boster Dose	Total Population Received Booster Dose	Population Ages 18+ Received Booster Dose

At Least One Dose: 618,120

	Percent of Total Administrations	
	Vaccinated With At Least One Dose	Initial Series Complete
Total Population	**9.3%** are Hispanic or LatinX, compared to **9.8%** of total NC population.	**8.9%** are Hispanic or LatinX, compared to **9.8%** of total NC population.
Population Ages 18+	**8.6%** are Hispanic or LatinX, compared to **7.8%** of total NC population.	**8.3%** are Hispanic or LatinX, compared to **7.8%** of total NC population.

August data slides referring to 'boosters' are referencing the original monovalent booster

American Indian Population Report

American Indian or Alaskan Native

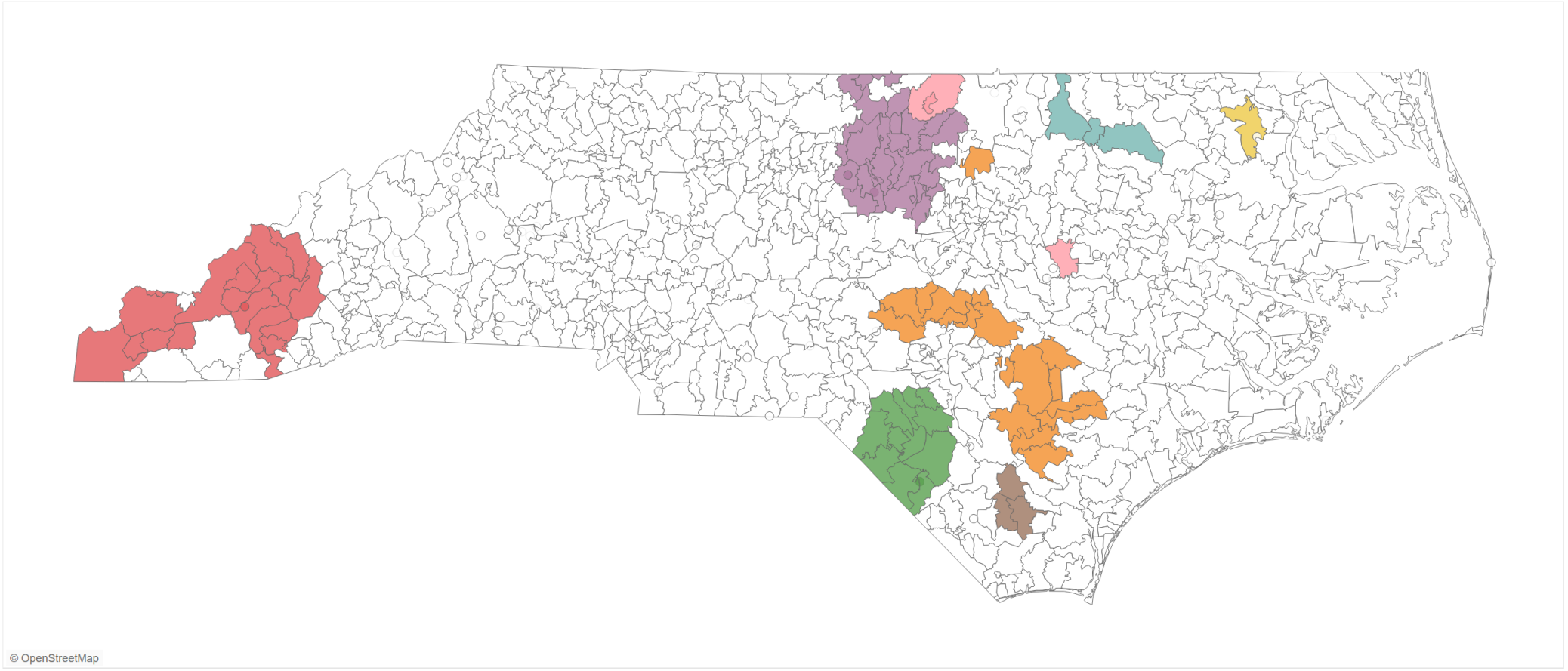
	Population	Vaccinated with At Least One Dose	Initial Series Complete	Vaccinated with Additional/Booster Dose
Total Population	177,169	71,525 (40%)	65,192 (37%)	29,945 (17%)

Data Note: The American Indian population reports includes NC administration data and Indian Health Services (HIS) data from the Eastern Band of Cherokees

August data slides referring to 'boosters' are referencing the original monovalent booster

American Indian Population Report

The graphic below is a plotted map of North Carolina zip codes. The overlayed color-code is an estimate of zip codes with highly dense Native populations or recognized tribes. These assignments are not official affiliations, and the Native tribes are not constrained to these locations. The map is based on tribal affiliations sourced internally through NC DHHS.



August data slides referring to 'boosters' are referencing the original monovalent booster

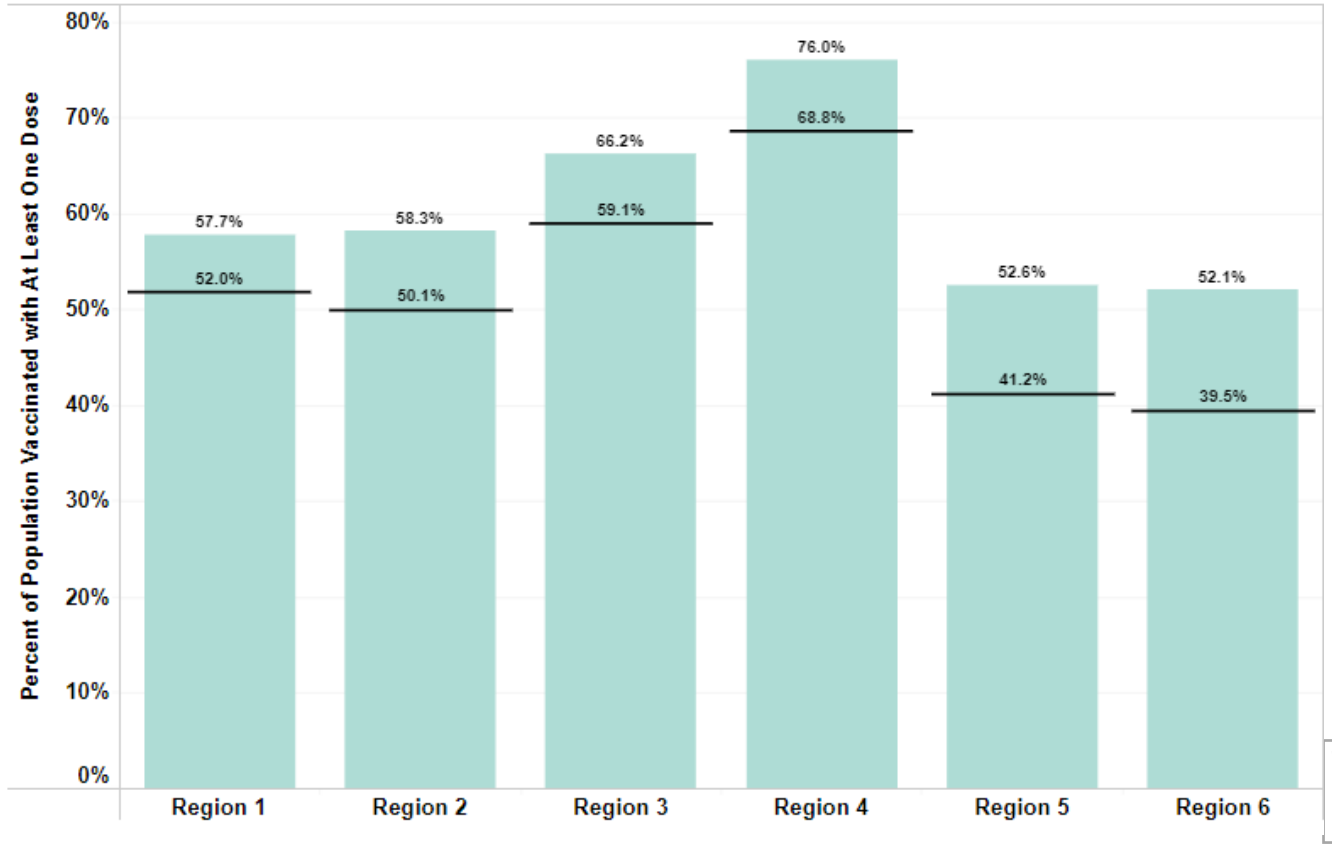
% of Childbearing Population with at Least One Dose – Region

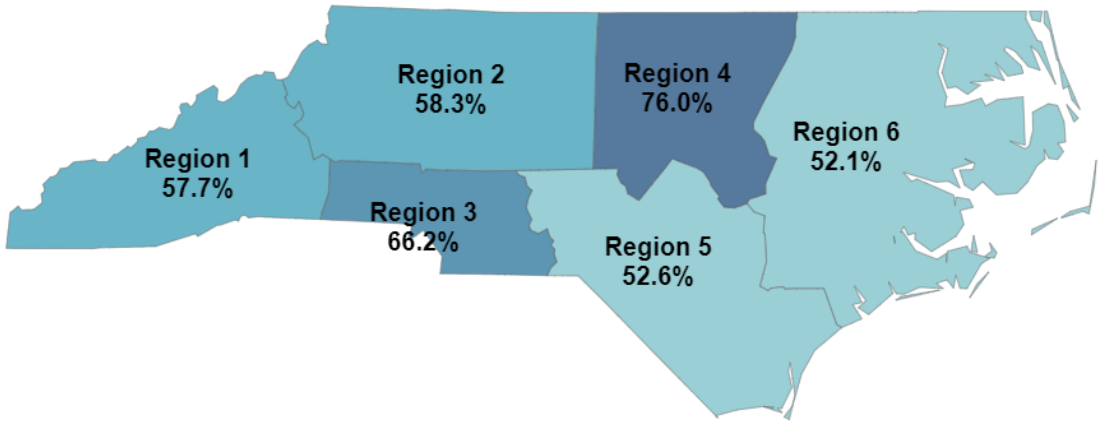
Childbearing Pop. At Least One Dose % = Sum of first doses administered to the childbearing pop. / Total childbearing pop.
Population totals are broken out by region in this chart. Data as of 9/3/2022.

Total Population

66.0%

(Females 15-44)





August data slides referring to 'boosters' are referencing the original monovalent booster

Note: *Data includes NC provider and federal pharmacy administrations. It does not include federal entity administrations. Data excludes non-NC residents.*

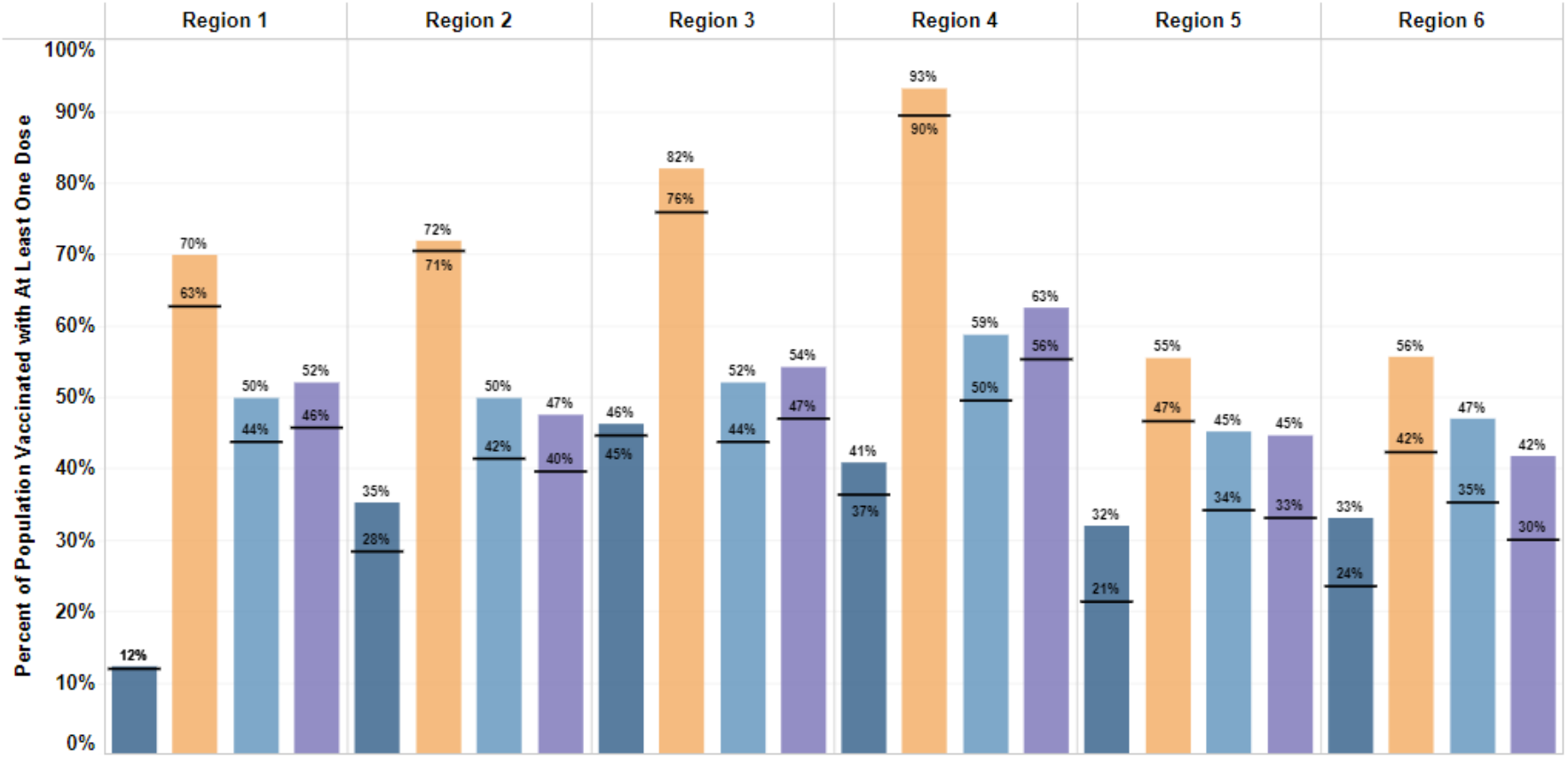
Note*: The childbearing population is defined as females ages 15-44. The At Least One Dose % is defined as the total population ages 15-44.*

% of Childbearing Population with at Least One Dose - Race

Childbearing Pop. At Least One Dose % = Sum of first doses administered to the childbearing pop. / Total childbearing pop. Population totals are broken out by region and race in this chart. Data as of 9/3/2022.

August data slides referring to 'boosters' are referencing the original monovalent booster

American Indian or Alaskan Native	Asian or Pacific Islander	Black or African American	White
34.8%	84.5%	53.6%	54.5%
(Females 15-44)	(Females 15-44)	(Females 15-44)	(Females 15-44)



Female 15-44

- American Indian or Alaskan Native
- Asian or Pacific Islander
- Black or African-American
- White

■ Male 15-44

Note: *Data includes NC provider and federal pharmacy administrations. It does not include federal entity administrations. Data excludes non-NC residents.*

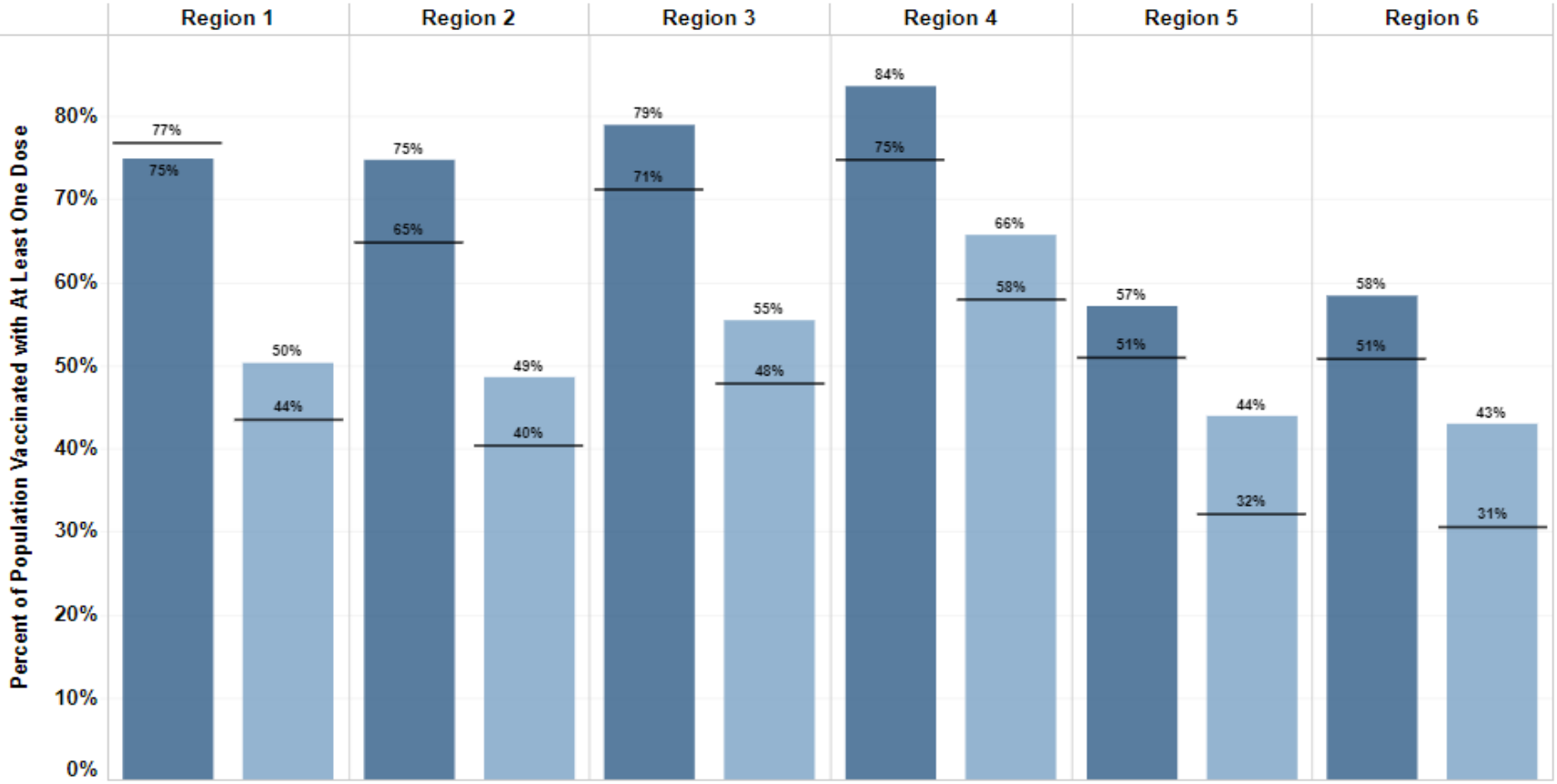
Note*: The childbearing population is defined as females ages 15-44. The At Least One Dose % is defined as the total population ages 15-44.*

% of Childbearing Population with at Least One Dose - Ethnicity

Childbearing Pop. At Least One Dose % = Sum of first doses administered to the childbearing pop. / Total childbearing pop. Population totals are broken out by region and ethnicity in this chart. Data as of 9/3/2022.

August data slides referring to 'boosters' are referencing the original monovalent booster

Hispanic or Latina	Non-Hispanic or Latina
76.6%	55.6%
(Females 15-44)	(Females 15-44)



Female 15-44
- Hispanic or Latina
- Non-Hispanic or Latina

Male 15-44

***Note**: Data includes NC provider and federal pharmacy administrations. It does not include federal entity administrations. Data excludes non-NC residents.*

***Note**: The childbearing population is defined as females ages 15-44. The At Least One Dose % is defined as the total population ages 15-44.*