

**FSU**

**WELCOME**

# **2024 Postdoctoral Fall Symposium**

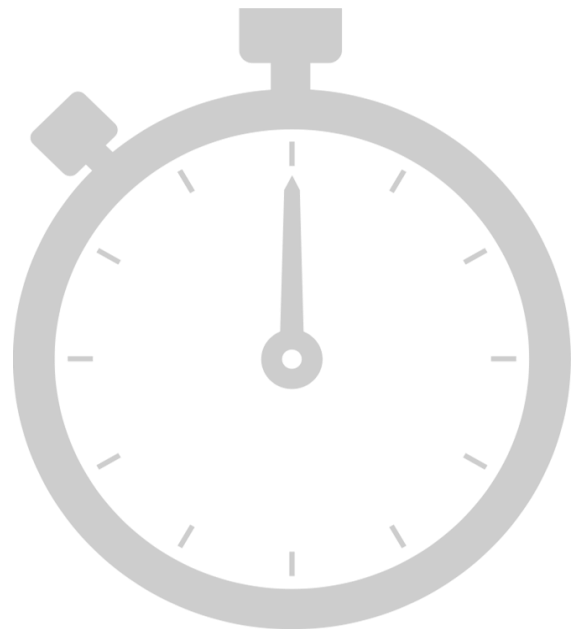
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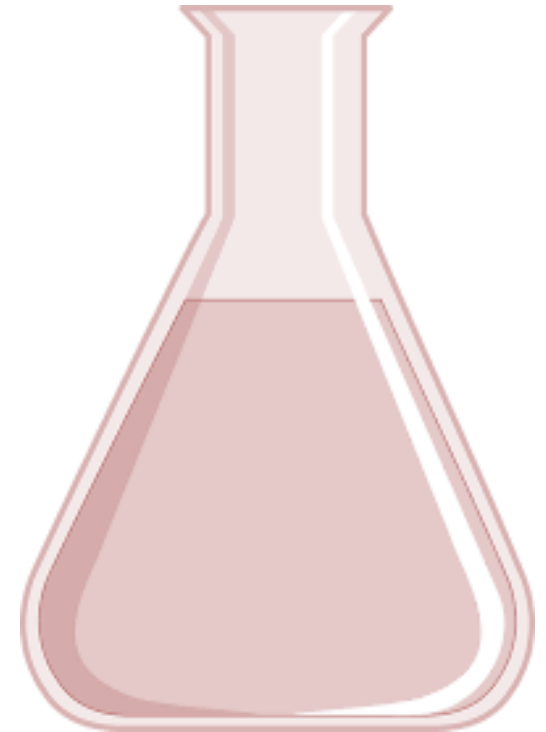
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*Presents:*



**FIVE  
MINUTE  
RESEARCH**  
POSTDOC COMPETITION



Florida State University

# THANK YOU TEAM!

Srivalli Dorasetty  
*Application Developer, Designer*

Francis Ebuara  
*Graduate Assistant - Office of Postdoctoral Affairs*

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Diana Paquette  
*College of Medicine Coordinator*

Geoset Studios!  
*Kyle Wilson*

Postdoctoral Association Leadership Team! - *Olivia Cook (President), Kasey Longley (Vice President), Betsy Mansfield (Senior Advisor), Luna Hiron (Past Senior Advisor), and Mohammad Nooranidoost (Past Senior Advisor)*

# THANK YOU JUDGES!

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*FSU Librarian Emeritus*

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*Director of Business Operations,  
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Professor of Physics*

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*RW Law Firm  
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# Yijiong Yang

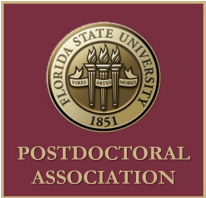
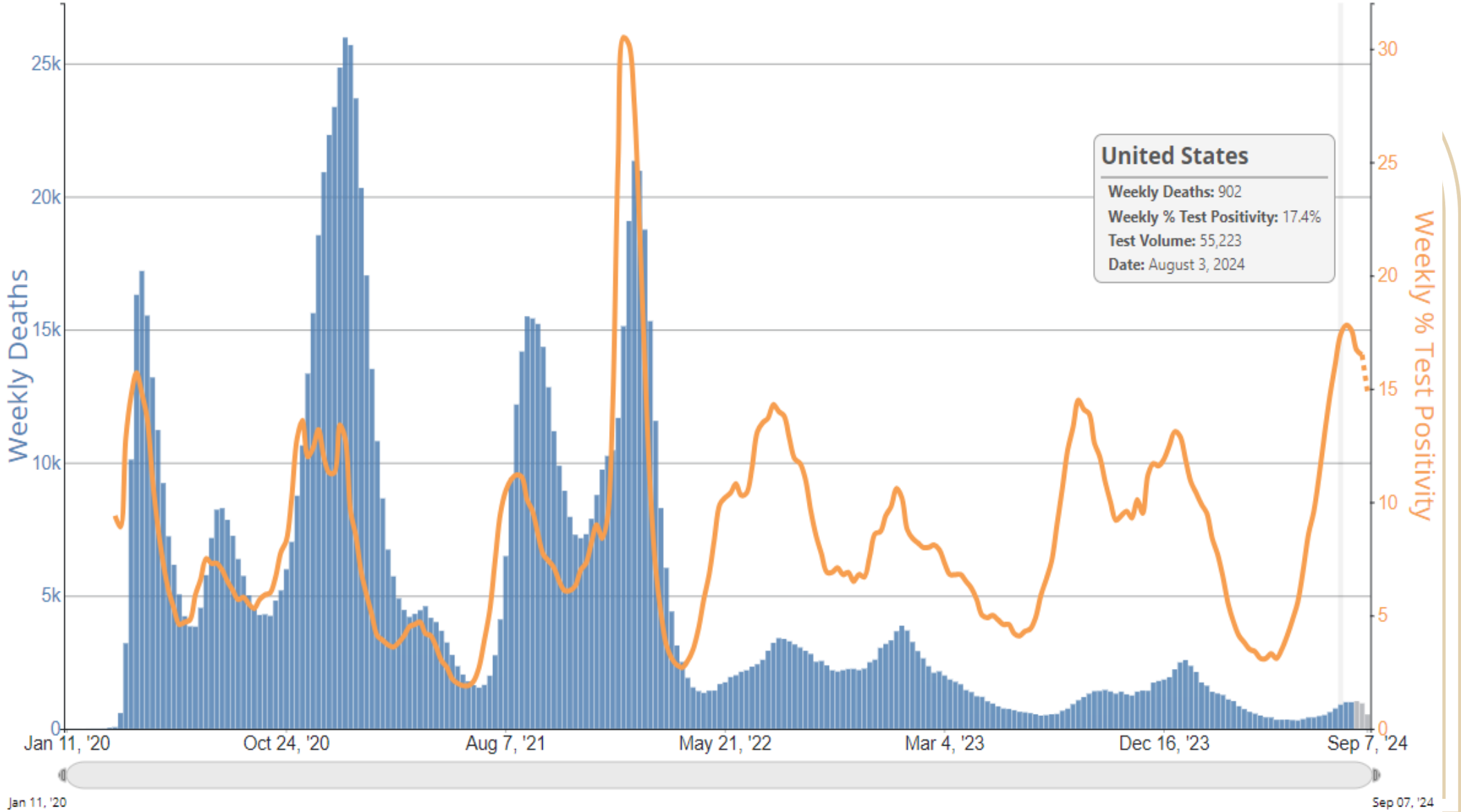
## Nursing

*Addressing ADRD and COVID-19 Vaccination  
Hesitancy: Strategies for Enhancing Health  
Outcomes*

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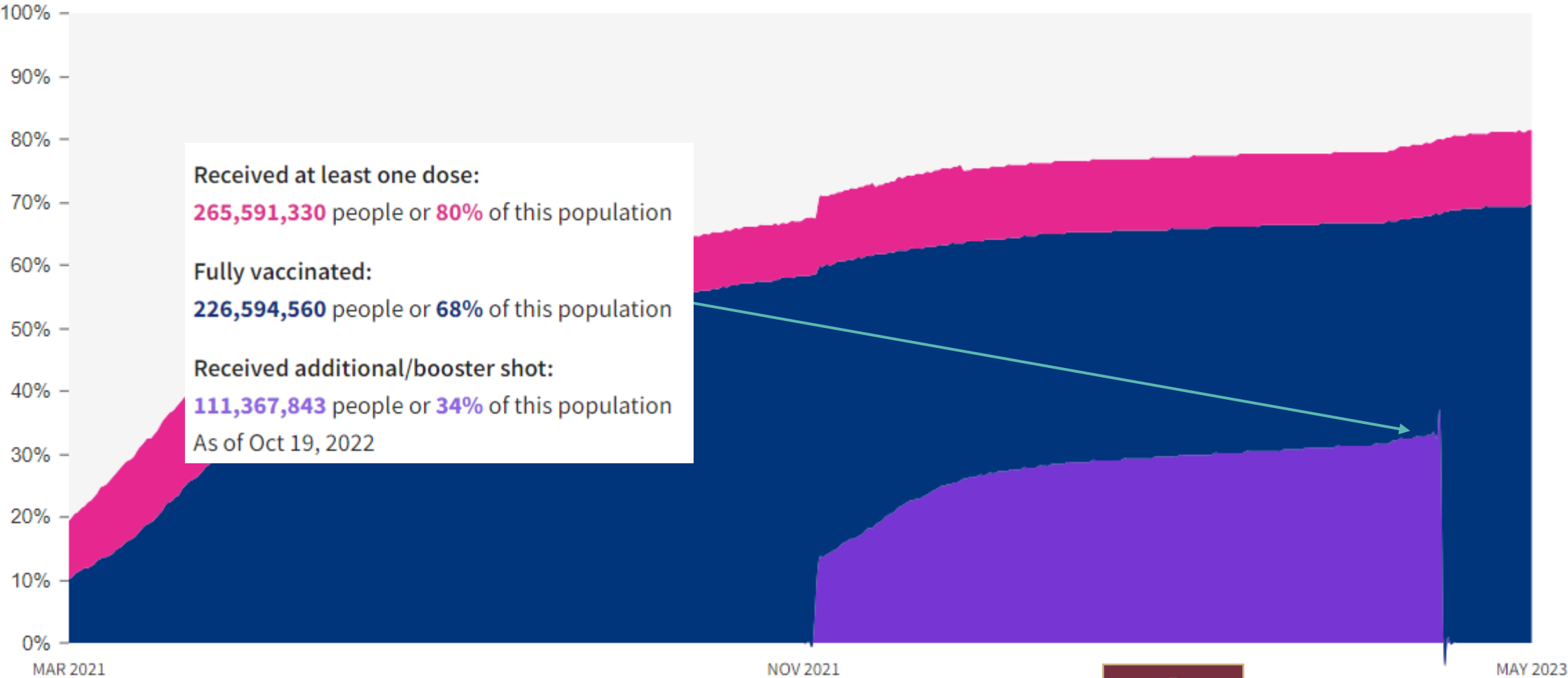
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Provisional COVID-19 Deaths and COVID-19 Nucleic Acid Amplification Test (NAAT) Percent Positivity, by Week, in The United States, Reported to CDC

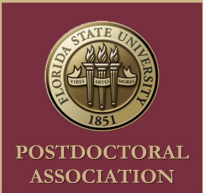


# Percent of people receiving vaccines in the US

One dose and incomplete   Two doses or equivalent   Three or more



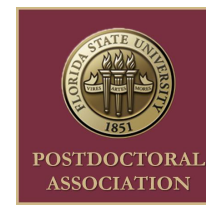
Sources: Centers for Disease Control and Prevention. [see more](#)







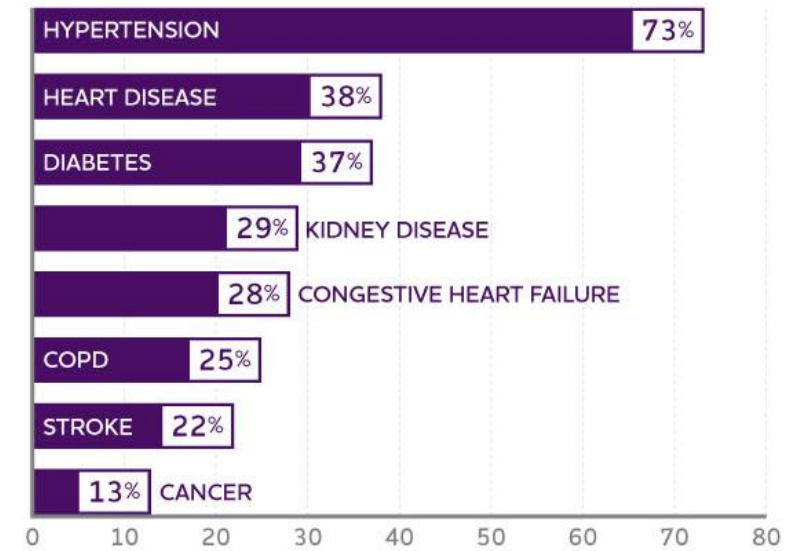
- **Patients with dementia are at a higher risk of breakthrough infections**
- **Vaccination rates among patients with dementia**
- **Accessible booster shots for dementia population with underlying health conditions and comorbidities**





Demographics	ADRD/MCI cohort (N=9718)	Non-ADRD/MCI cohort (N=110355)
<b>Chronic conditions, N (%)</b>		
Hypertension	7033 (72)	49 455 (45)
Coronary artery disease	2741 (28)	13 464 (12)
Cerebrovascular diseases	3086 (32)	7162 (6)
Heart failure	1962 (20)	8596 (8)
Myocardial infarction	1172 (12)	4998 (5)
Cerebral infarction	1181 (12)	3010 (3)
Overweight/obesity	4784 (49)	34 230 (31)
Diabetes	3498 (36)	21 586 (20)
Chronic obstructive pulmonary disease	1859 (19)	8318 (8)
Chronic kidney diseases	2010 (21)	9871 (9)
Chronic liver diseases	1198 (12)	6030 (5)
Cancer	3613 (37)	23 945 (22)
<b>Mental health status</b>		
Anxiety	5913 (61)	32 843 (30)
Major depressive disorders	6012 (62)	30 200 (27)
Bipolar disorders	1126 (12)	4381 (4)
Psychotic disorders	902 (9)	2676 (2)
Sleep disorders	6306 (65)	33 012 (30)
ADRD, Alzheimer's disease and related dementias; MCI, mild cognitive impairment.		

## Percentage of People with Alzheimer's or Another Dementia Who Also Have...



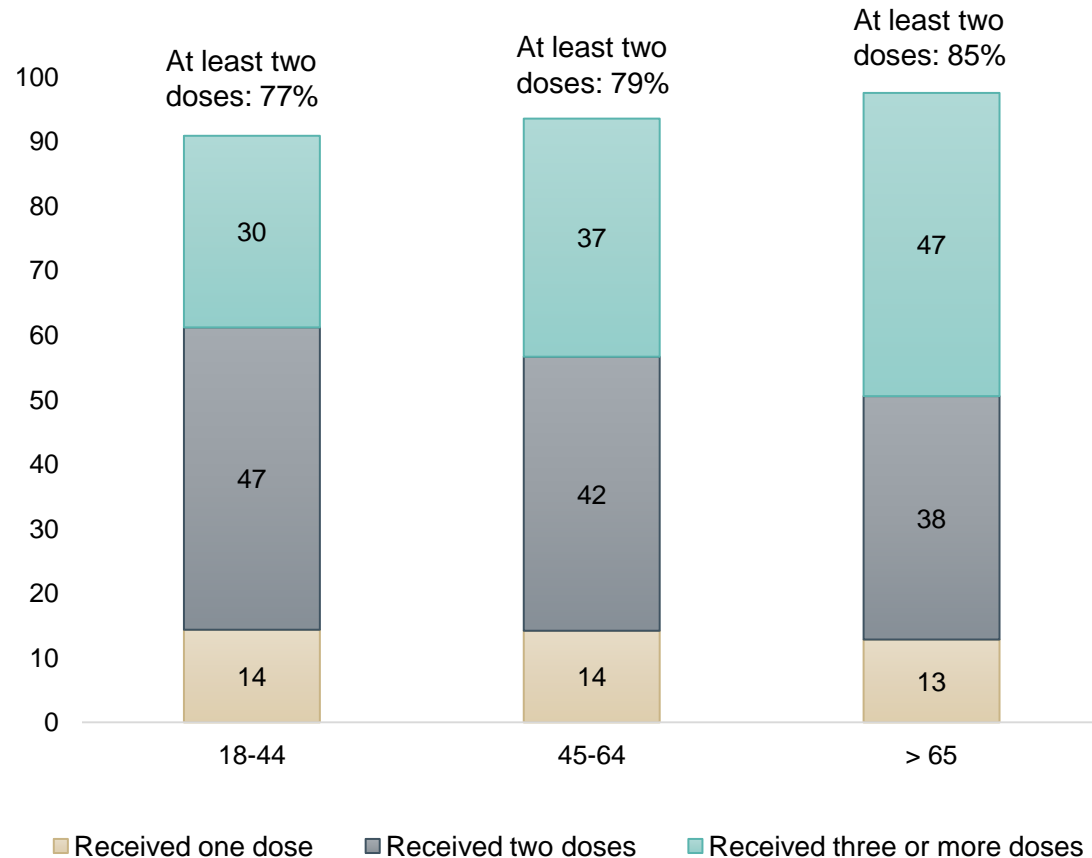
## Percentage of People with Alzheimer's or Another Dementia Who Also Have . . .

Hypertension	56%
Heart Disease	46%
Chronic Kidney Disease	46%
Diabetes	37%
Congestive Heart Failure	34%
COPD	20%
Stroke	13%
Cancer	10%

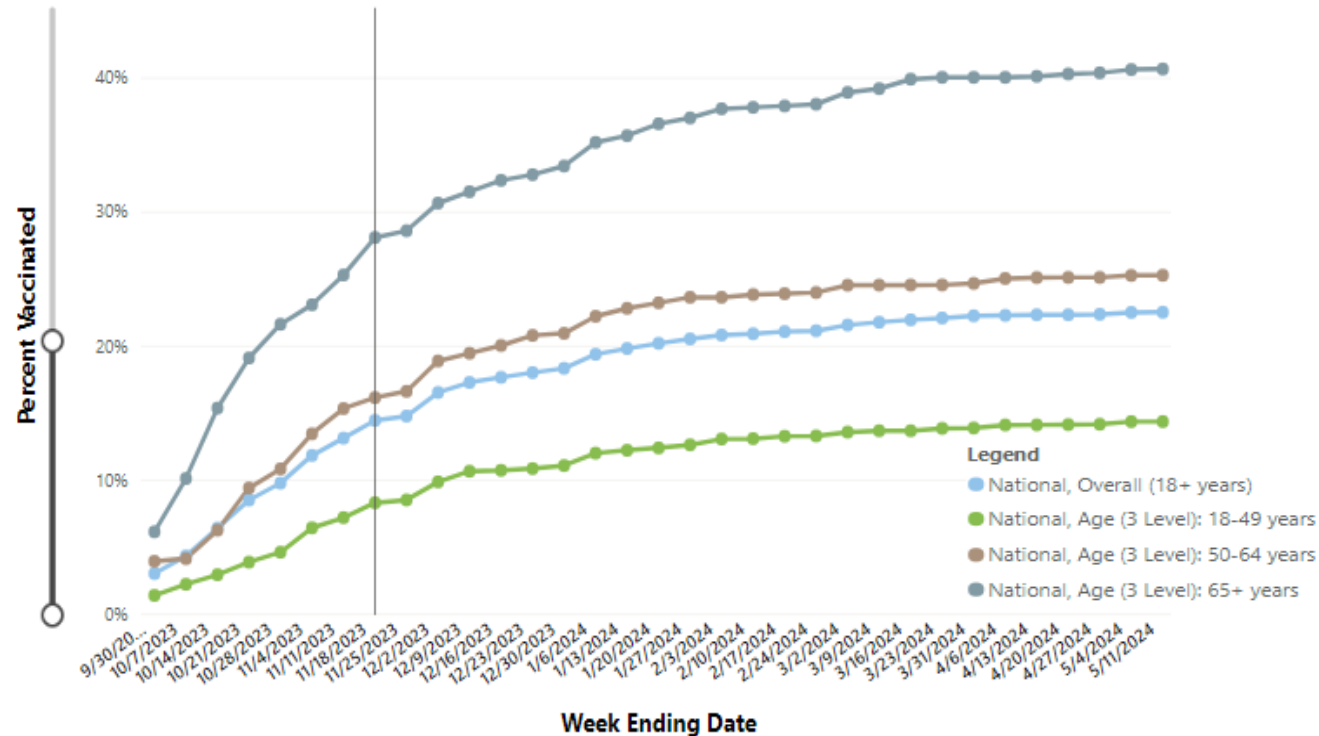
<https://www.alz.org/professionals/public-health/public-health-topics/chronic-diseases>

# COVID-19 Vaccination Coverage Among ADRD/MCI Patients by Demographics\*

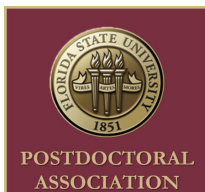
COVID-19 Vaccination Coverage Among ADRD/MCI Patients by Age Groups



Jurisdiction	Demographics	Week Ending	Estimate (%)	95% C.I.
National	18-49 years	5/11/2024	14.3%	13.8 - 14.8
National	18+ years	5/11/2024	22.5%	22.1 - 22.9
National	50-64 years	5/11/2024	25.2%	24.4 - 26.0
National	65+ years	5/11/2024	40.6%	39.6 - 41.6



To achieve herd immunity against COVID-19, at least 70% or more of the population would need to be immune.

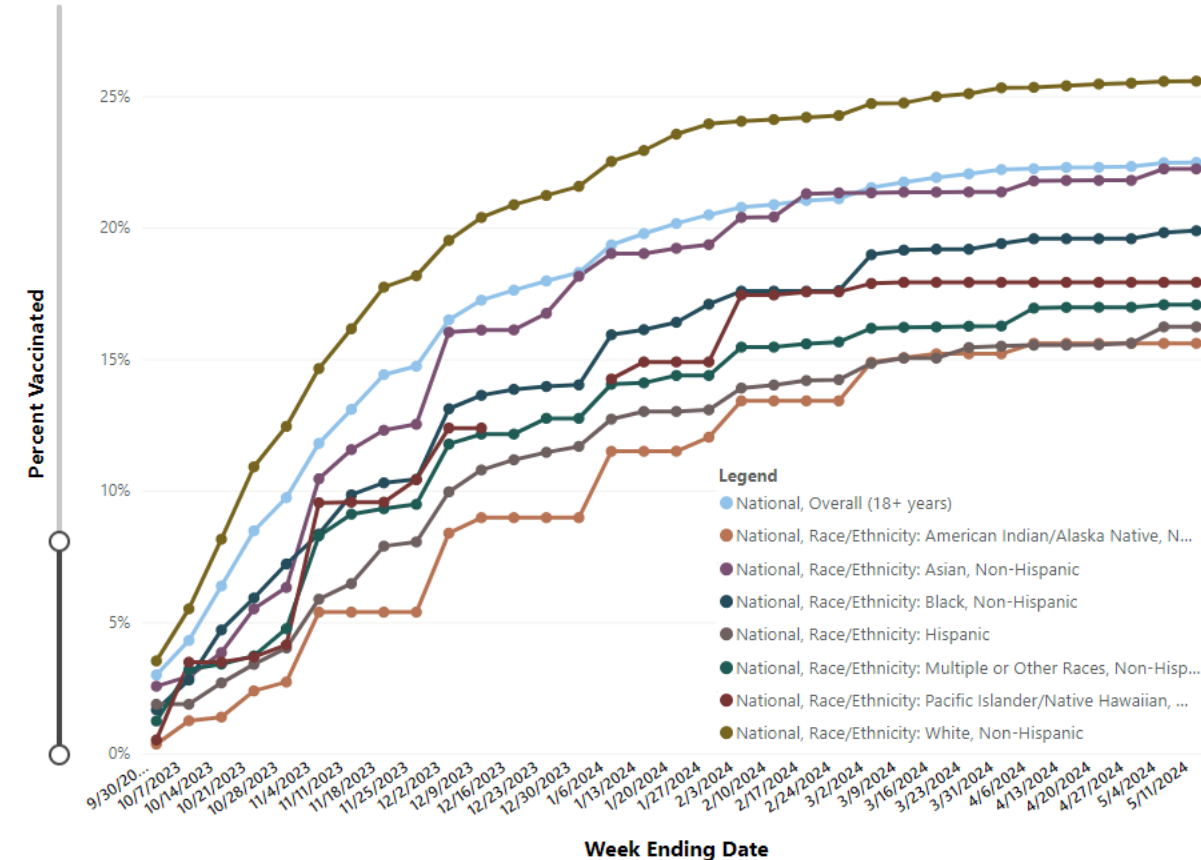
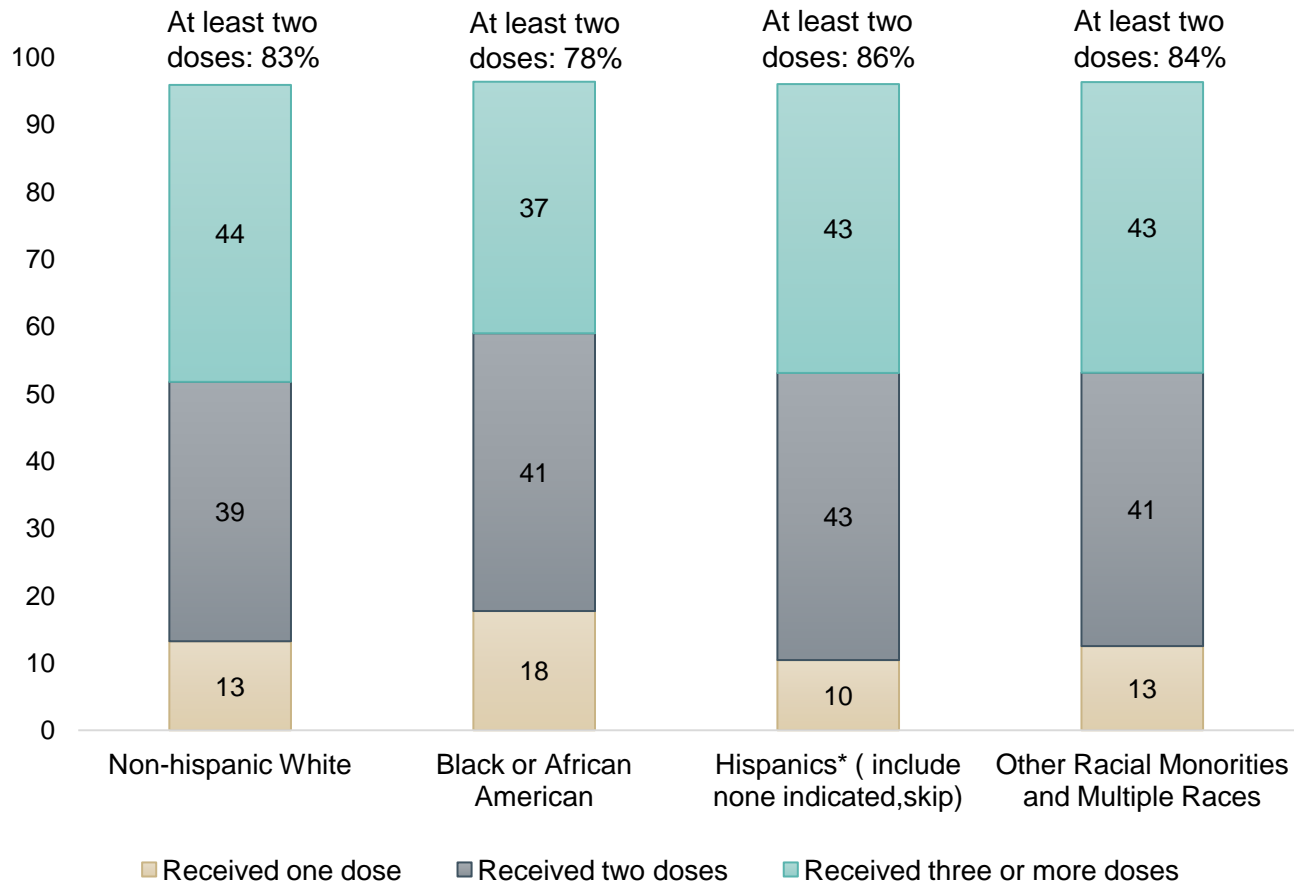


\*For AOU population with EHR Vaccine Records or COVID-19 Vaccine Minute Survey during summer, fall, winter of 2021 and new year 2022.

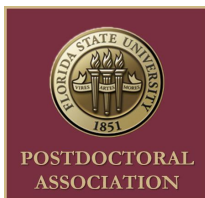
\*Cumulative Percentage of Adults 18 Years and Older Vaccinated with the Updated 2023-24 COVID-19 Vaccine. Data Source: National Immunization Survey-Adult COVID Module. <https://www.cdc.gov/covidvaxview/weekly-dashboard/adult-vaccination-coverage.html>

# COVID-19 Vaccination Coverage Among ADRD/MCI Patients by Demographics\*

COVID-19 Vaccination Coverage Among ADRD/MCI Patients by Race



To achieve herd immunity against COVID-19, at least 70% or more of the population would need to be immune.



\*For AOU population with EHR Vaccine Records or COVID-19 Vaccine Minute Survey during summer, fall, winter of 2021 and new year 2022.

\*Cumulative Percentage of Adults 18 Years and Older Vaccinated with the Updated 2023-24 COVID-19 Vaccine. Data Source: National Immunization Survey-Adult COVID Module. <https://www.cdc.gov/covidvaxview/weekly-dashboard/adult-vaccination-coverage.html>

# Acknowledgements



**Jing Wang**  
Dean and Professor  
PhD, MPH, RN, FAAN



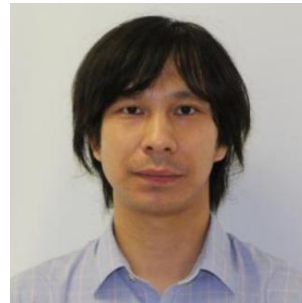
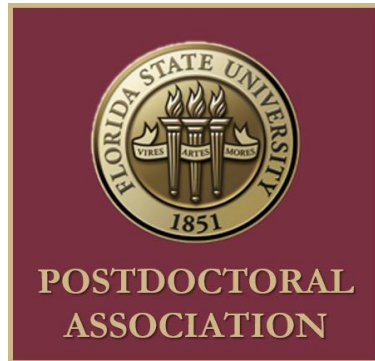
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**Hongyu Miao**  
Professor, Director of Brain  
Science & Symptom  
Management Center  
PhD



**Dan Song**  
Postdoctoral Scholar  
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**Chengdong Li**  
Data Scientist



**Buna Bhandari**  
Postdoctoral Scholar  
MPH, PhD



**Setor Kofi Sorkpor**  
Assistant Professor  
PhD, MPH, MSN, RN



**Brittany Lane**  
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PhD, MPH



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# PEOPLE'S CHOICE AWARD

**Vote for your favorite  
presentation!**

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# PEOPLE'S CHOICE AWARD

**To Vote = Scan the QR Code and Then  
Click Your Favorite Number!**



**1 – Ahinsa Ranaweera**

*The HIV Capsid: A Promising Target for Anti-HIV...*

**2 – Behrouz Ghazi Esfahani**

*SPOT-RASTR: A Novel Method To Prepare CRYO-EM Samples*

**3 – Herschel Chawdhry**

*Particle Physics and the Quest for High Precision*

**4 – Kasey Longley**

*Caring for Grandparent Caregivers: Identifying Support Needs for Older Adults Raising their Grandchildren*

**5 – Katherine Odegard**

*A Matter of Taste: Unveiling the “New” Region in Taste Processing*

**6 - Li Guo**

*How Does Overnutrition Lead to Diabetes?*

**7 - Pearl Rivers Key**

*Mate Choice Under the Sea: Exploring the Genetic Blueprint of Reproduction in Sea Urchins*

**8 – Shannon Griffin**

*Engineering Superconducting Magnets via Structural Simulations*

**9 – Stephen Yuwono**

*How Electrons Dance When Things Go Heavy and Fast*

**10 – Yijiong Yang**

*Addressing ADRD and COVID-19 Vaccination Hesitancy: Strategies for Enhancing Health Outcomes*

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# **AWARDS & RECEPTION**

**Please join us for refreshments  
and award presentations**

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PROGRAM END

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