# **EMORY** HOSPITAL

# Answering the Call: Inpatient Vaccination for SARS-CoV2 Infection in an Academic Hospital

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### Introduction

- The CDC has reported that 787 patients per 100,000 people in the United States have been hospitalized due to COVID-19, with ~20% of those patients requiring intensive care<sup>1</sup>
- Despite being effective and widely available, primary series and booster vaccine administration rates have remained suboptimal 1
- Vaccine administration has been complicated by changing schedule recommendations, packaging in multi-dose vials, provider and patient hesitancy, and local and federal reporting requirements<sup>2</sup>
- Other institutions have demonstrated success with inpatient SARS-CoV2 vaccine programs utilizing a single vaccine only<sup>3,4</sup>
- Emory University Hospital (EUH) offered all authorized or approved SARS-CoV2 vaccines to admitted or emergency department (ED) patients through an integrated, decentralized model beginning in August 2021

## **Methods**

EUH initiated a hospital-based (inpatient or ED visit) SARS-CoV2 vaccination campaign utilizing the following procedure:





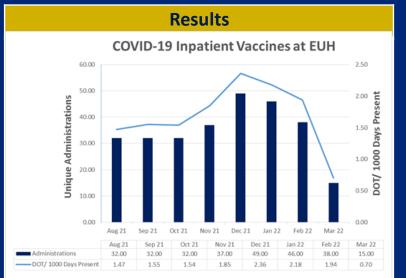








- Vaccine candidates were identified through provider interview or patient request, with patients in procedural areas, critically-ill or recently and significantly immunocompromised patients, and those with active COVID-19 isolation status excluded
- Vaccines provided included the authorized Pfizer-BioNTech and Comirnaty® (Pfizer), authorized Moderna and Spikevax® (Moderna), and Janssen (J&J) SARS-CoV2 vaccine formulations; they were delivered by pharmacy at a set time daily to limit waste
- A retrospective review of vaccine administration rates within EUH inpatient and ED areas from 8/2021 through 3/2022 was conducted



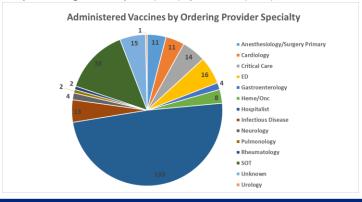
DOT: days of therapy (# of Vaccine Doses)

Month

Vaccine and Dose	Total Ordered	Total Administered	Completion
J&J 1st	1	1	100%
J&J Dose Unknown	13	8	62%
Moderna 1st	47	44	94%
Moderna 2nd	20	18	90%
Moderna 3rd	13	13	100%
Moderna Dose Unknown	16	0	0%
Moderna Booster	51	34	67%
Pfizer 1st	87	76	87%
Pfizer 2nd	27	24	89%
Pfizer 3rd	39	39	100%
Pfizer Booster	12	12	100%
Pfizer Dose Unknown	37	3	8%
All Vaccines	363	272	75%
Vaccine and Dose	Total Ordered	Total Administered	Completion
Moderna Primary	96	75	78%
Pfizer Primary	190	142	75%
Total Primary	<b>2</b> 86	217	76%
Moderna Booster	51	34	67%
Pfizer Booster	12	12	100%
Total Booster	63	46	73%

#### Results

- From 8/2021 to 3/2022, a total of 13362 patients were admitted or visited the ED, suggesting that at least 2% of patients received at least 1 SARS-CoV2 vaccine during that timeframe
- Vaccines were primarily ordered by hospitalists (37%), followed by solid organ transplant (SOT) specialists (10%)



# **Summary and Conclusions**

- SARS-CoV2 vaccination in hospitalized patients is possible with interdisciplinary support, with limitations of provider/patient interest and a need for waste minimization
- A wide range of provider specialties are willing to participate in SARS-CoV2 vaccination in patients admitted to the hospital

#### References

- 1) Centers for Disease Control and Prevention. COVID Data Tracker. CDC; 2022, May
- 2) Tenforde MW, et al. MMWR Morb Mortal Wkly Rep 2022;71:459-465.
- 3) Berger, Rebecca E., et al. NEJM Catalyst Innovations in Care Delivery 2.10 (2021).
- 4) Martinot, Martin, et al. Clinical Microbiology and Infection (2022).