

# SPACE COAST EMS

Memorandum ~ Medical Director's Office

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To: Field Personnel  
From: John R. McPherson, MD  
Date: December 9, 2020  
Subject: MEDICAL DIRECTOR COVID-19 – VACCINE SHORTAGE UPDATE-1

## VACCINE RATIONING

COVID-19 VACCINE PROGRESS			
	FDA STATUS	EXPECTED U.S. ROLL OUT	EFFICACY
	EXPECTED SUBMISSION LATE NOV/EARLY DEC	DECEMBER	94.5%
	SUBMITTED TO FDA NOV 20, FDA MEETING DEC 10	DECEMBER	95%
	DISCUSSING WITH REGULATORS	TBD	62-90%

- Pfizer has only 6.4 million doses of vaccines due to supply chain deficiencies
- These doses will be distributed to each state on 12/11 after FDA approval 12/10 in 500-dose lots in supercooled containers at -94°F
- Moderna vaccines should be approved for FDA Emergency Use Authorization by 12/15
- Moderna has 12.4 million doses of vaccines to be distributed proportionally to each state on 12/16

U.S. VACCINE SUPPLY PER OPERATION WARP SPEED		
	DOSES	PEOPLE
First Batch: (Pfizer)	6.4M	3.2M
By Year End: (Pfizer + Moderna)	40M	20M

COVID-19 VACCINE STORAGE		
	-20°C (-4°F) UP TO 6 MO.	2-8°C (36°-46°F) UP TO 30 DAYS
	-70°C (-94°F) UP TO 6 MO.	2-8°C (36°-46°F) UP TO 5 DAYS
	2-8°C (36-46° F) UP TO 6 MO.	

- 40 million doses by year end are promised by Pfizer/Moderna. Both vaccines require 2 doses so 20,000 individuals vaccinated
- There are 20 million+ health care workers and 6 million nursing home residents in the US who would be first in line
- Florida's allocation is not yet known
- Florida's allocation will go to Phase I – critical populations
  - Phase 1A – Pfizer vaccines to 5 FL large medical centers: 1 in Miami Dade, 1 in Broward, 1 in Orange, 1 in Hillsborough, 1 in Duval
    - 500-dose containers in specified freezers to -94°F. Multiple containers per hospitals to distribute to other affiliated smaller hospitals
    - Long term care facilities – Moderna vaccines in 100-dose lots per container requiring only standard freezer temperatures. CVS and Walgreens will be providing the vaccines at those facilities
  - Phase 1B – **likely to be available in January and February 2021**
    - **First responders (probably available through January)**
    - Child care workers
    - Adults with high-risk medical conditions
    - Age 65 or older
    - Law enforcement and teachers will be likely receiving vaccine from J&J some time in February 2021 after FDA EUA approval
- Moderna and Pfizer promise 100 million doses each = 100 million (2-dose) vaccinations by February 2021
- **Not adequate for the entire US population**
  - 30 million vaccinated in Moderna/Pfizer Phase III trials
  - 20 million vaccinated in December
  - 100 million vaccinated in January/February 2021
  - Total vaccinated 150 million of an estimated population of 250 to 300 million (excluding children and those refusing vaccine)
- US has option for 400 million Pfizer vaccine doses (200 million vaccinations) in June 2021 that has been declined
- Johnson & Johnson and AstraZeneca will be presenting Phase III clinical trial data late January 2021 with FDA evaluation for EUA shortly thereafter
- 100 million vaccine doses – contract with Johnson & Johnson (only one dose needed)
- 300 million vaccine doses (150 million vaccinations) – contract with AstraZeneca
- **If a shortage of vaccinations occurs due to delays in approval for J&J and/or AstraZeneca President Trump will issue the Defense Production Act to demand vaccines made in the US be retained for US citizens if necessary.**

### PERTINENT QUESTIONS

1. Shadow spreaders – it is unclear at this point if a vaccinated individual will not become infected or will become infected but be asymptomatic unable to spread the virus
2. Should individuals known to have had COVID-19 infections receive a vaccination? Yes, as determined by the CDC. Concern about hyper-reactivity to the vaccine if already immune has not been observed.