



## IHS, Pediatrics, & the Pandemic Part III 2021—First Six (6) Months



Presented By...

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## Key Points & Objectives

- COVID-19 Strategies and Actions for 2021 and Beyond
- Prevention Strategies
  - Triad
    - Distance-Time-Numbers
  - Handwashing & Masks
  - Vaccines
- Leveraging Tools & Technology
  - Data = > Monitor Performance

# 2020 Calendar Year Ends

## United States

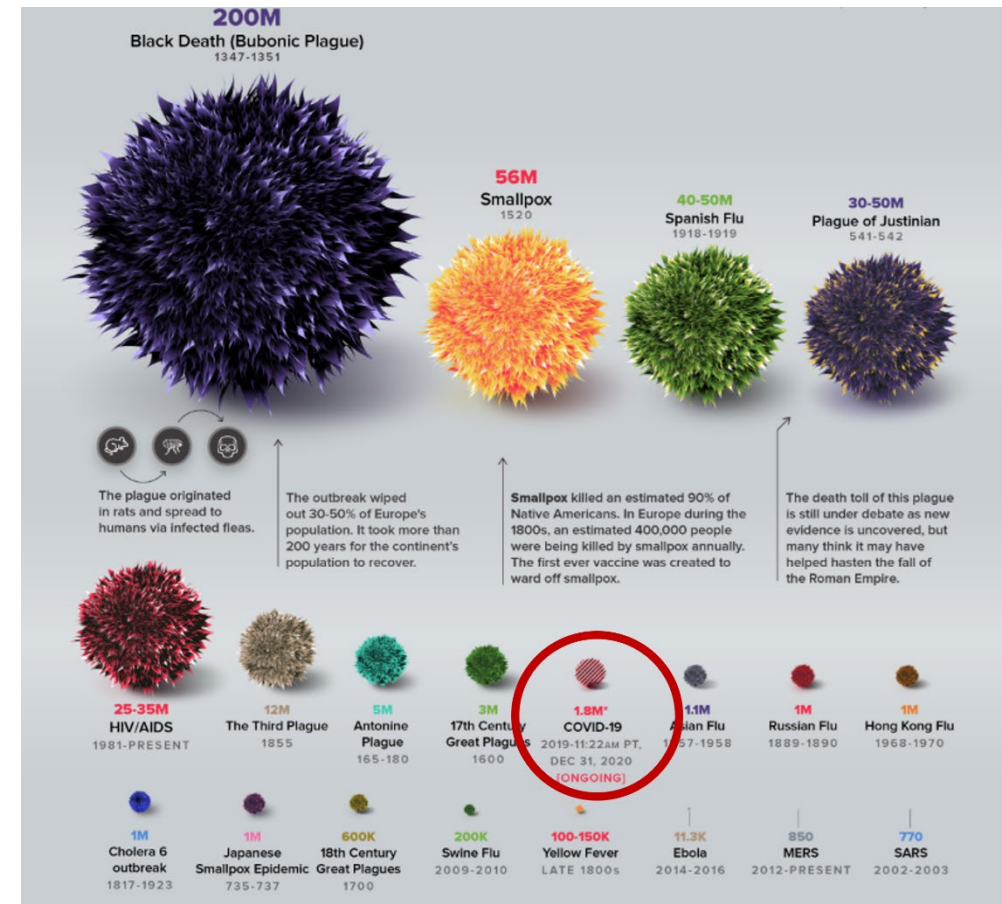
>20 M  
>346,000

Infections  
Deaths

## Globally

>83.8 M  
1.8 M

Infections  
Deaths



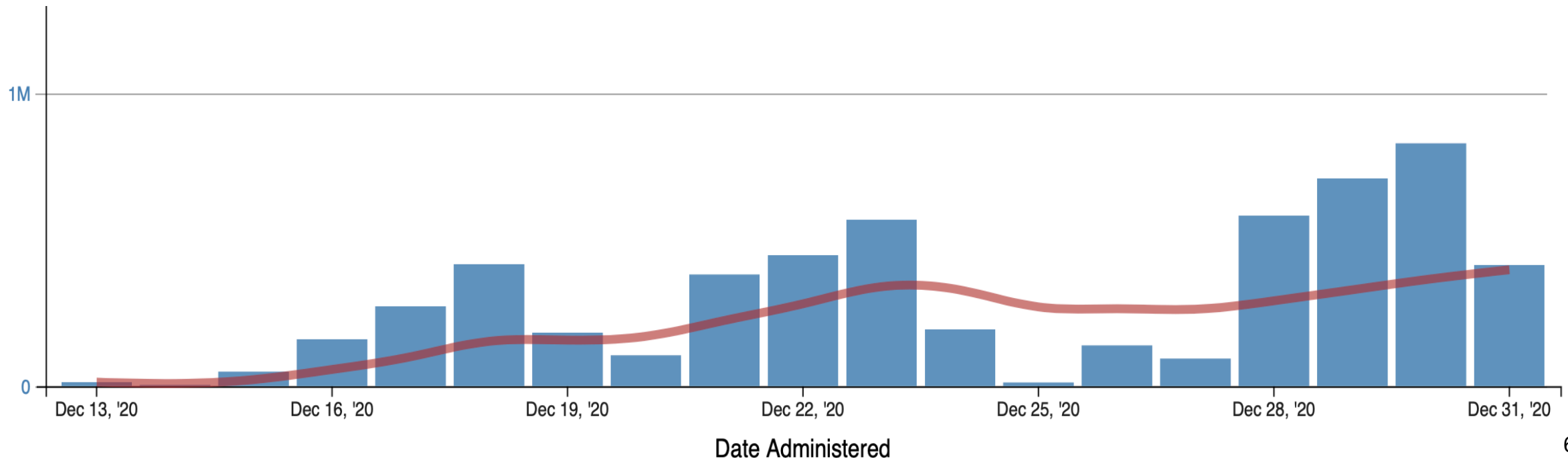


# 2020 Calendar Year Ends 2021 Begins

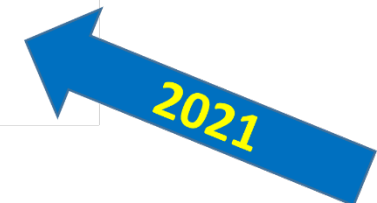
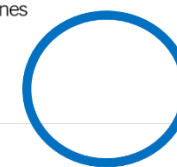
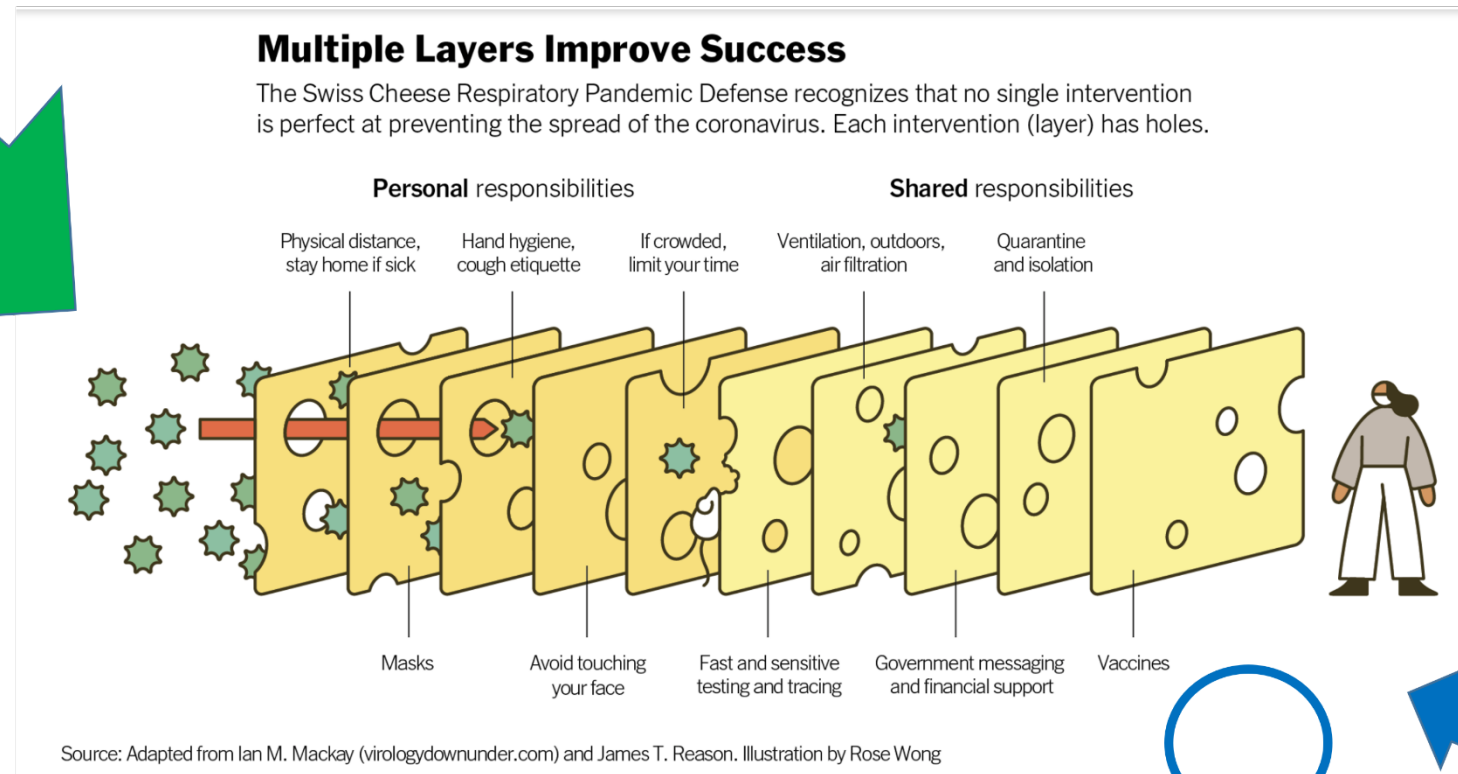
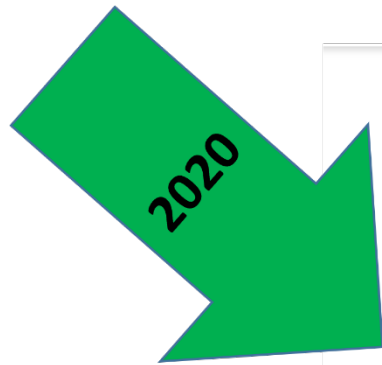
- Despite Numbers === > Hope and even Optimism
- 2020 Pandemic across USA 340 M without VACCINE
- **VACCINES = NEW & BEST TOOL** to Impact Pandemic

# Vaccine Data "SAFETY FIRST"

- Maurice Hilleman, the father of modern vaccines said ...  
    **"I never breathe a sigh of relief until the first 3 million doses are out there."**
- By the end of 2020 --- DONE! > 3 M Administered



# COVID-19 Strategies = ANY Contagious Disease





## 2021 Calendar (con't)

**January**

**February**

**March**

DEMAND >>>>> SUPPLY

### **PHASE 1**

- Healthcare Workers
- Essential Workers
- People at High Risk of Disease/Death
- = Elderly 75+

### **Quick & Easy**

Local View

- IMM VAC
- QMAN





## 2021 Calendar

January

February

March

3 M  
Vaccinated



29.5 M  
Dose #1

### 2 VACCINES

- Pfizer & Moderna

### BOTH

- mRNA
- 2 doses
- EUA
- tested on 1,000's
- **SAFE**
- **EFFECTIVE >90%**

### **Federal Vaccine**

No Cost to patient  
“VFC-like”

### **Admin cost**

Covered by insurance  
or  
Feds CAF



# RPMS Data Tools

RPMS = “Really Powerful at Measuring Suff”

## IMM VAR

- Super Quick & Easy
- Choose Dates
- January 1 – 31
- Lot # detail
- Ages are “set”

## QMAN

- Quick & Not Hard
- Look at
  - “User Pop”
  - COVID Vaccine
  - Estimate Vaccine Rate
  - Flexible Age Ranges (8)

Pre-Set Ages											
< 1	1	2	3 - 5	6	7 - 10	11 - 12	13 - 18	19-24	25 - 44	45 - 64	65+ 10



# IMM Vaccine Accountability Report

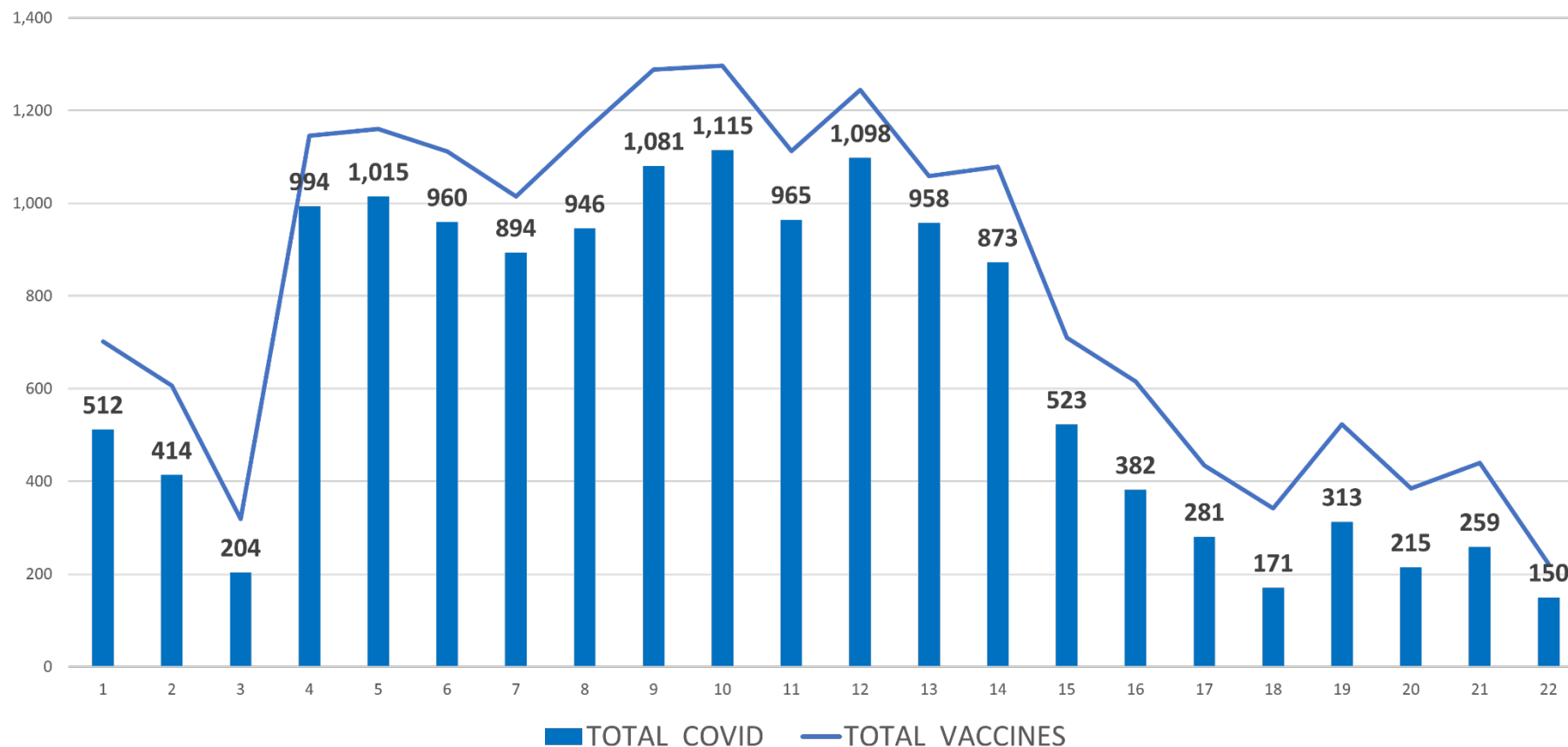
## Lots of Options – Timeframe, Vaccine, Lot#

January 1 - June 30 VAR (including Hx)		
TOTAL Vaccine	TOTAL COVID	COVID %
19,244	14,922	78%

Janssen - all lots	Janssen - no lot #	Moderna - all lots	Moderna - no lot #	Pfizer - all lots	Pfizer - no lot #	NOS
367	15	13,957	371	596	44	2



# 2021 VAR Week-by-Week Vaccination



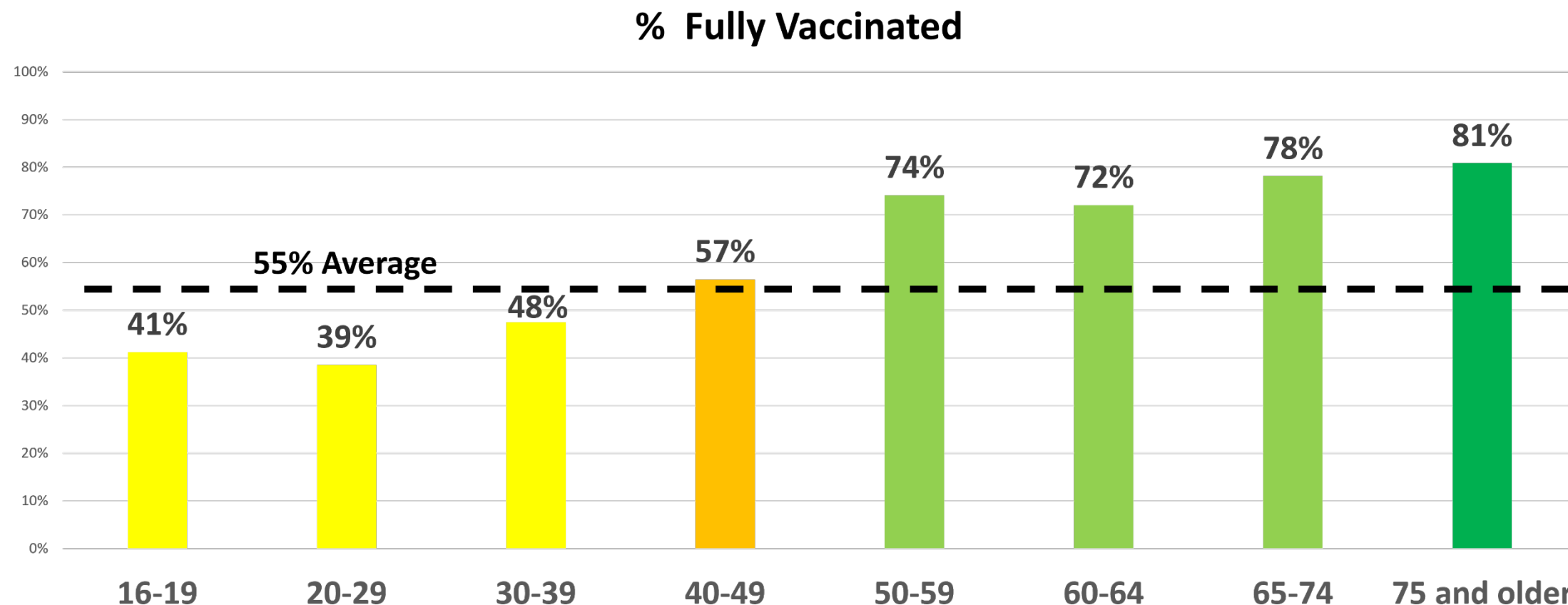


## QMAN “Rates” == > 6 Month Cumulative Activity

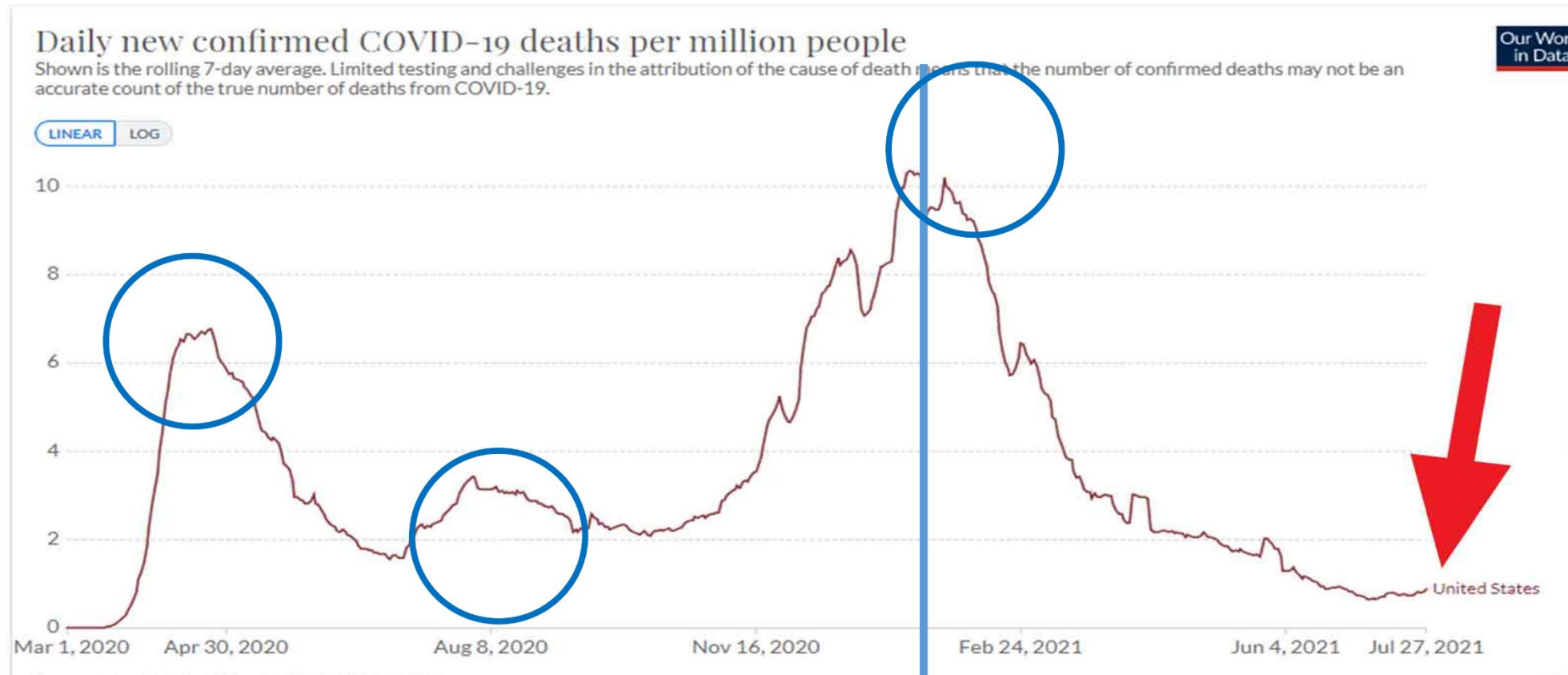
Age Range	Patients AIAN (GPRA Communities)	Complete	% Vaccinated
16-19	1169	482	41%
20-29	2476	954	39%
30-39	2490	1183	48%
40-49	1589	898	57%
50-59	1552	1151	74%
60-64	663	478	72%
65-74	824	644	78%
75 and older	324	262	81%
<b>Total</b>	<b>11087</b>	<b>6052</b>	<b>55%</b>



# QMAN—Current by Age Group (6 Months of Activity)

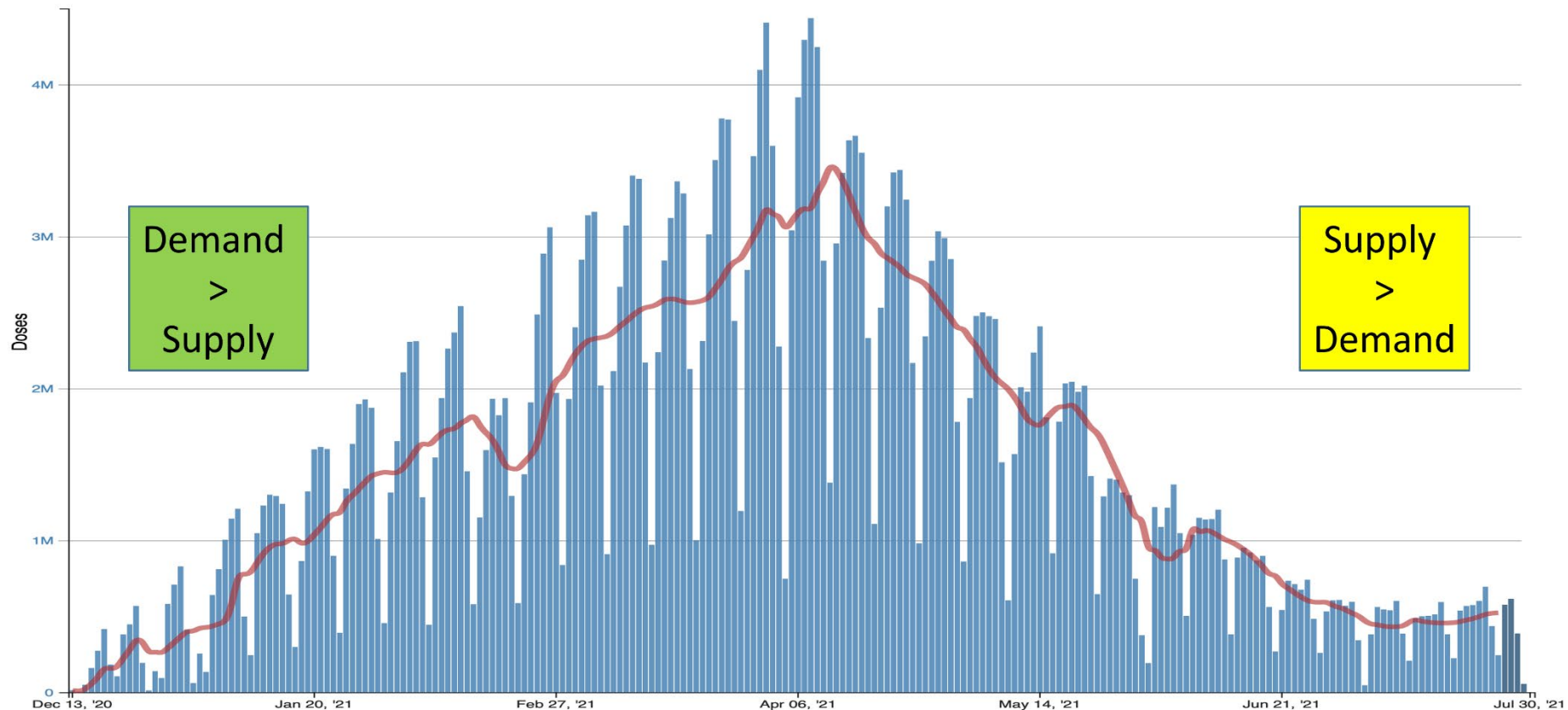


# Daily New Confirmed COVID-19 Deaths



# 2021 – Vaccinations > 345 Million (6/2021)

Daily Count of Total Doses Administered and Reported to CDC by Date Administered, United States







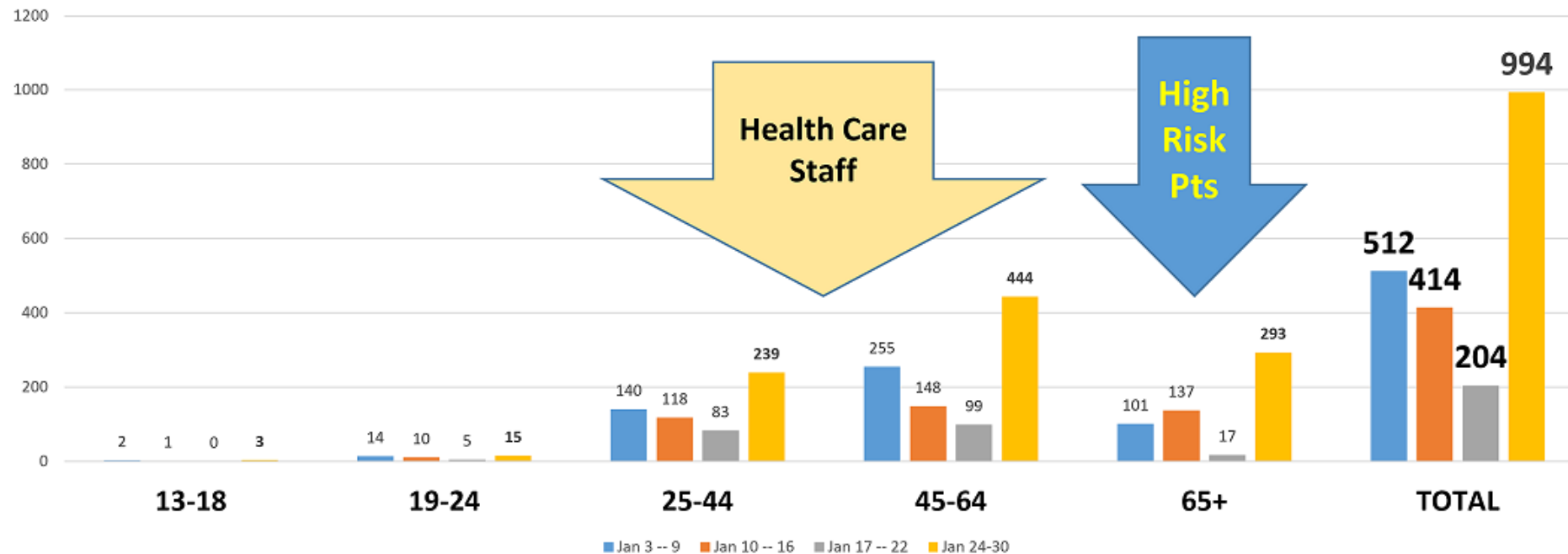
## 2021 Calendar (1)

January

February

March

January Covid Vaccines VAR Age Groups

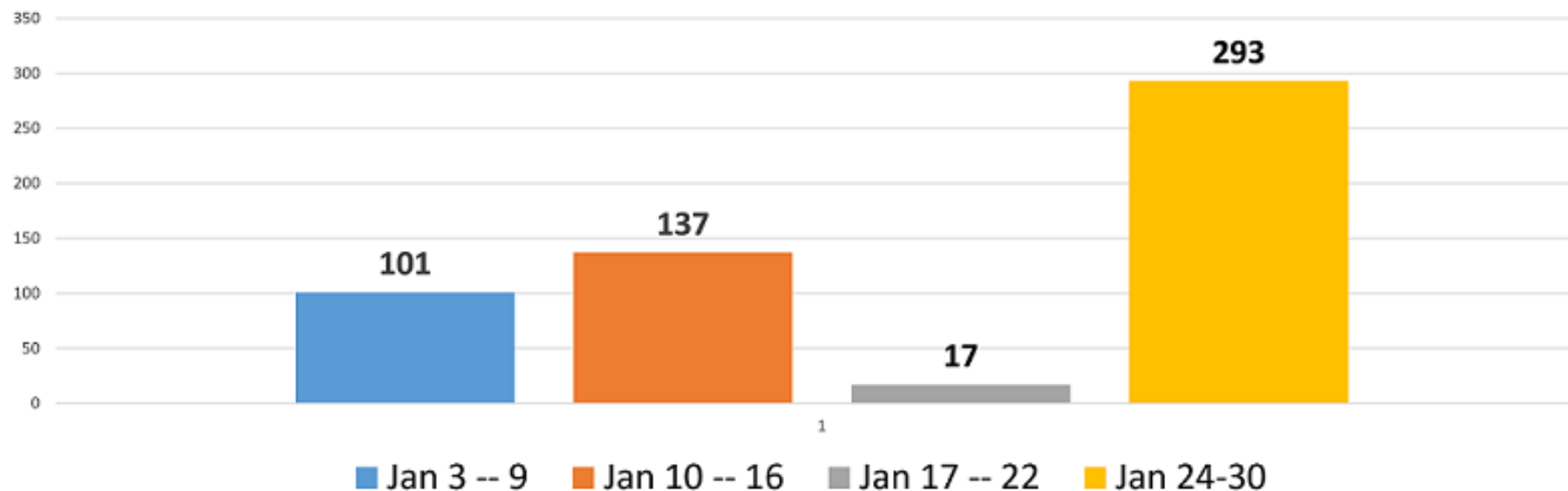




## 2021 Calendar (2)



65+ yo COVID Vaccines (Total 548)  
by week in January



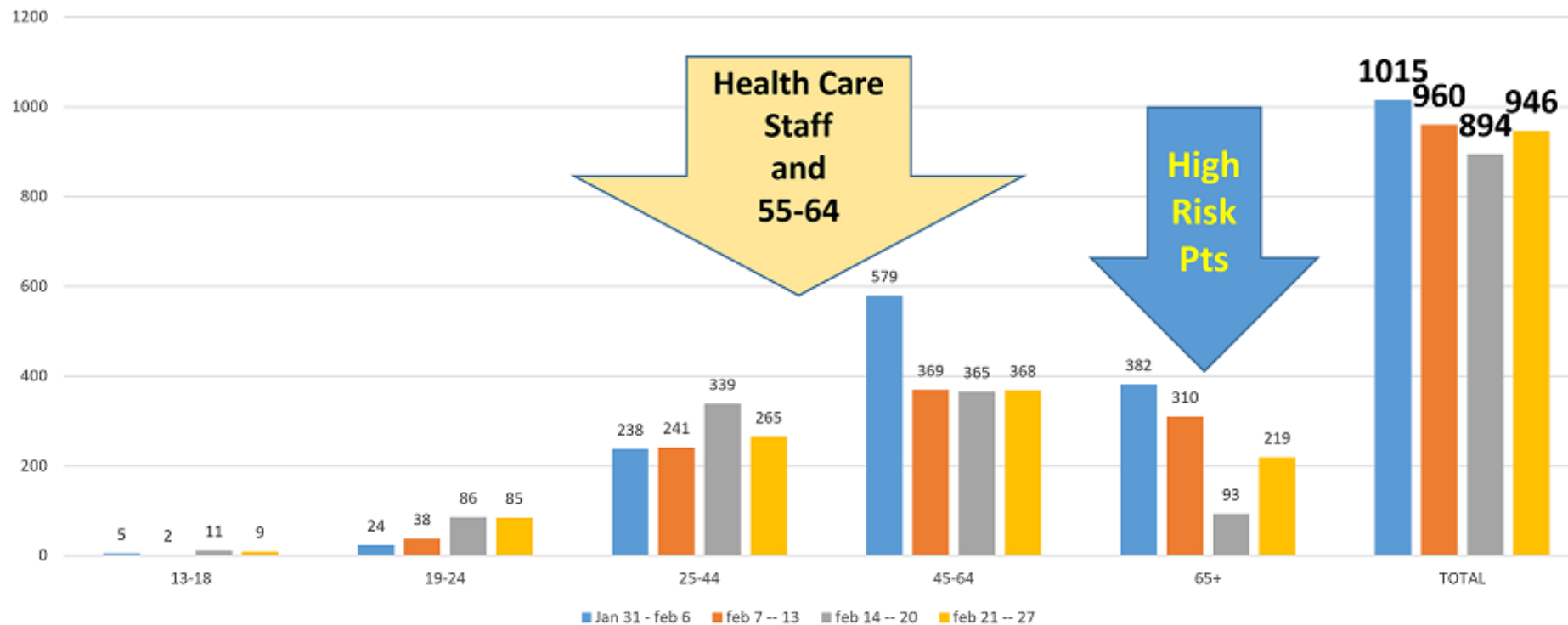
## 2021 Calendar (3)

January

February

Feb COVID VAX by Age Groups

March





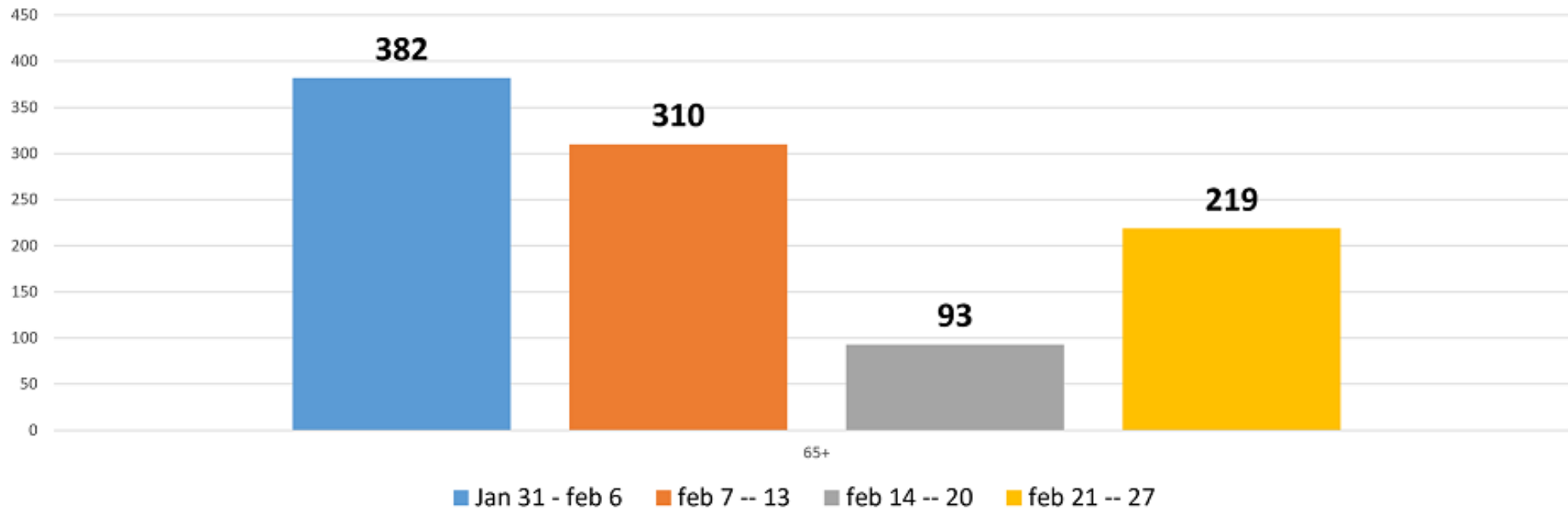
## 2021 Calendar (4)

January

February

March

65+ yo COVID Vaccines (Total 1,004)  
by week in February



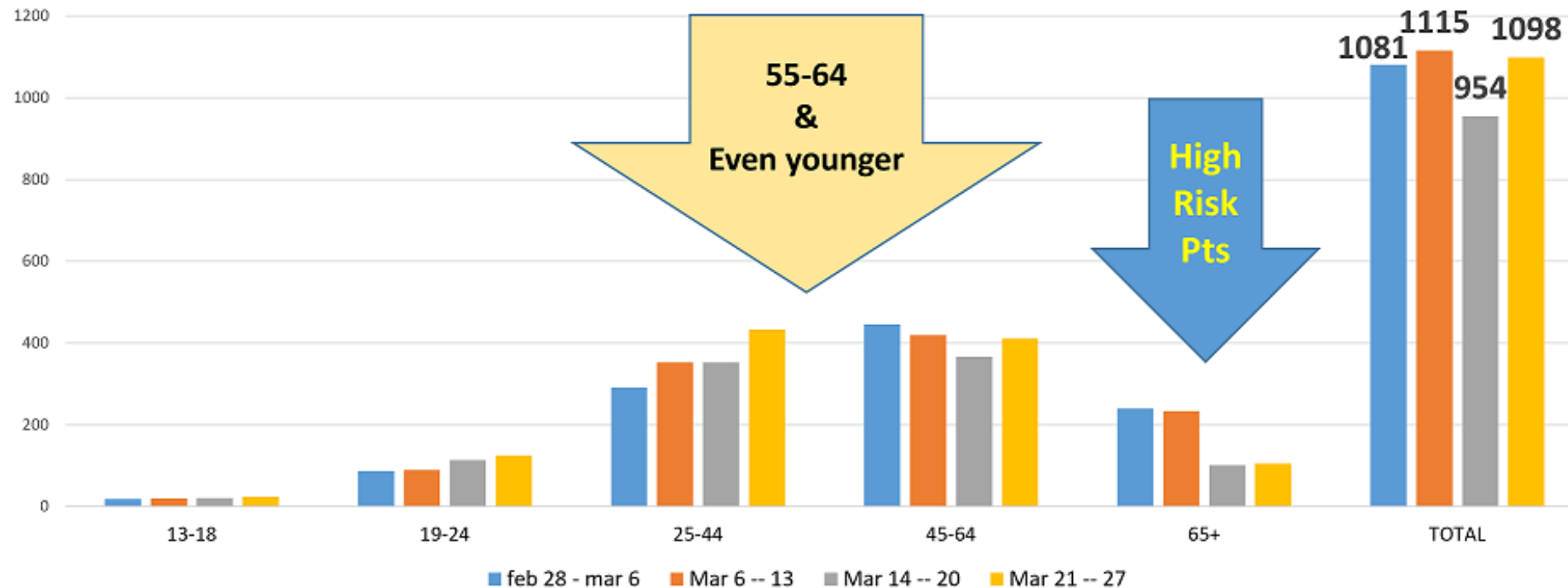
## 2021 Calendar (5)

January

February

March

March COVID Vax by Age Groups

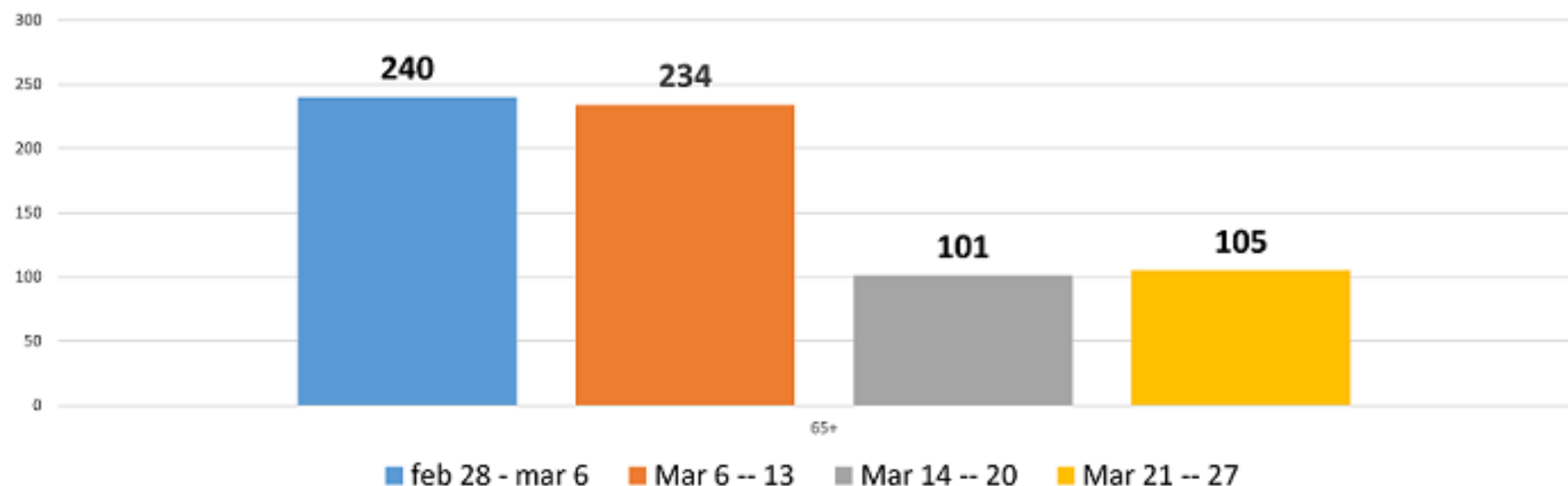




## 2021 Calendar (6)



65+ yo COVID Vaccines (Total 680)  
by week in March



# Pediatric Hospitalizations and Death in US from COVID vs. Selected Viral Illness', Prevaccination

Virus	Hospitalizations (per 100,000)	Death per year
COVID	22 (0-17 yrs old)	322 (as of May 27, 2021)
Influenza	34-92 (<4 yrs old) 20-41 (5-17 yrs old)	110-192 (2016-2020)
Varicella	4-13 (0-20 yrs old)	50 (1970-1994)
Rotavirus	1500 ( $\leq$ 5 yrs old)	20-60 (1999-2007)
Rubella	Not available	17 (1966-1968)
Hepatitis A	<1 (0-15 yrs old)	3 (1990-1995)

Courtesy of Evan Anderson, M.D., Emory University



Think about it.

Not only was COVID a leading cause of death in pediatrics in 2020, it is killing many more kids than most other [vaccine preventable diseases](#)!



## FDA request Pfizer/Moderna ==> MORE Pediatric Clinical Trials

- Pfizer 5–11-year-olds
  - September Results (Anticipate) from Current Trial
  - November ==> Approved/Eligible??
- Moderna
  - Trial Enrollment numbers NOT YET finalized





## Children and COVID-19

2020 ==> A Year Ago

3% of the U.S. Total

2021 == > Now AAP reports

22.4% (71,649 out of 319,601)



## Old Age & Children

- FACT: Old age ==> Key Risk Factor for COVID-19 Death
  - Death is not the only outcome of infection worth avoiding!
- Children <<<< less likely to die
- Infection/Disease Risks
  - Classic COVID
  - Long COVID
  - Multisystem Inflammatory Syndrome
  - Myocarditis
- **< 12 are not yet eligible to be vaccinated = 100% at Risk**
  - Depend completely upon older people for protection



## COVID-19 Testing & Vaccines

### COVID Testing 19,000 Athletes

3,018 had COVID

(16% == > 1 in 6)

Cardiac involvement

21 (0.7%)

Small Number – right? < 1%

**==> 7,000 per 1 M Cases**

### Per 1 M COVID Vaccines

Age	Boys	Girls
12–17	67	9
18–24	56	6
25–29	20	3



# COVID-19 Infections & Vaccines Children – Teenagers – Adolescents – Young Adults

- COVID-19 Infections - Children & Teenagers
  - Hospitalization > 10%
  - ICU 3%
  - Journal of the American Medical Association.
- Vaccination === > Adolescents & Young Adults
  - Best Way to turn the corner for CHILDREN < 12
    - Dr. Jim Versalovic, Chief Pediatrician, Texas Children's Hospital



## To Be Continued... 2021 Still a Long Way to Go

- Requests for Your Help – YOU have Frontline Knowledge & Experience
- Nationally IHS is looking at solutions/leveraging Technology to Help You
- How can IT help you?
- IMM – iCare – QMAN tools are powerful
- Take time & effort --- experience helps do faster & better, still . . .
- Focus on use of 21st century technology to show you “Immtelligence”
- What Report(s) would you like to see?

== > How Often?

== > Other Ideas?



# Questions & Discussions