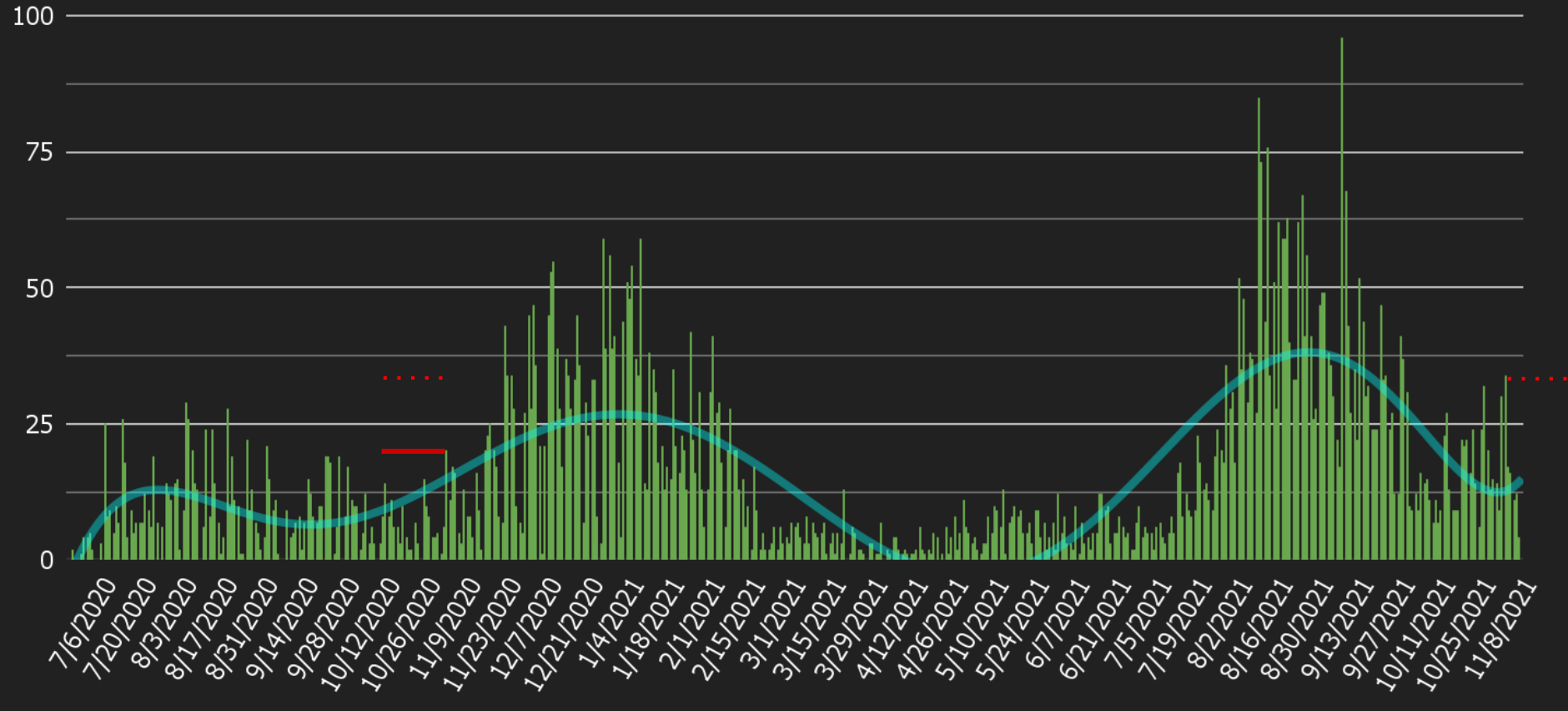
COVID-19 Presentation

Board of Supervisors Nov 9, 2021

Cases per day from Date Tested / Casos Diarios Según la Fecha de Prueba



Burden of COVID-19 in children 5-11 years of age

- **1.9 million** cases
- **8,300** hospitalizations
- **2,316** Multisystem Inflammatory Syndrome in Children (MIS-C) cases
- **94** deaths

- Burden extends beyond case counts; school interrupted, lives disrupted

Leading Causes of Death in Children 5-11 Years of Age, NCHS, 2019

Causes of Death	Death (n)	Crude rate per 100,000
Accidents (unintentional injuries)	969	3.4
Malignant neoplasms	525	1.8
Congenital malformations, deformations and chromosomal abnormalities	274	1.0
Assault (homicide)	207	0.7
Diseases of the heart	115	0.4
Chronic lower respiratory diseases	107	0.4
Influenza and pneumonia	84	0.3
Intentional self-harm (suicide)	66	0.2
Cerebrovascular diseases	56	0.2
Septicemia	48	0.2

66 COVID-19 associated deaths in children 5–11 10/3/20-10/2/2021

Total population 5-17 years, 2019: 52,715,248

CDC NCHS WONDER Online Database. Accessed at http://wonder.cdc.gov/ucd-icd10.html on May 6, 2021

Indirect impacts of COVID-19 pandemic on children

- Worsening of mental or emotional health

- Widening of existing education gaps

- Decreased physical activity and increased body mass index (BMI)

- Decreased healthcare utilization

- Decreased routine immunizations

- Increase in Adverse Childhood Experiences (ACEs)

- Loss of caregivers

Other pediatric vaccine preventable diseases:

Hospitalizations per year prior to recommended vaccines

	Hepatitis A[1]	Varicella[2] (Chickenpox)	Influenza[3]	COVID-19
Age	5–14 years	<20 years	5–17 years	5–11 years
Time period	2005	1988–1995	2003–2007	Oct 2020–Oct 2021
Hospitalization Burden (per 100,000 population)	**<1**	**4-31**	**30-80**	**25**

[1] https://www.cdc.gov/mmwr/preview/mmwrhtml/ss5603a1.htm

[2] Meyer PA, Seward JF, Jumaan AO, Wharton M. Varicella mortality: trends before vaccine licensure in the United States, 1970-1994. *J Infect Dis*. 2000;182(2):383-390. doi:10.1086/315714

[3] https://www.cdc.gov/flu/weekly/weeklyarchives2007-2008/07-08summary.htm

Other vaccine preventable diseases:

Deaths per year prior to recommended vaccines

	Hepatitis A[1]	Meningococcal (ACWY)[2]	Varicella[3]	Rubella[4]	Rotavirus[5]	COVID-19
Age	<20 years	11–18 years	5–9 years	All ages	<5 years	5–11 years
Time period	1990–1995	2000–2004	1990–1994	1966–1968	1985–1991	Oct 2020–Oct 2021
Average deaths per year	**3**	**8**	**16**	**17**	**20**	**66**

[1]Vogt TM , Wise ME, Bell BP, Finelli L. Declining hepatitis A mortality in the United States during the era of hepatitis A vaccination. J Infect Dis2008; 197:1282–8.
[2]National Notifiable Diseases Surveillance System with additional serogroup and outcome data from Enhanced Meningococcal Disease Surveillance for 2015-2019.
[3]Meyer PA, Seward JF, Jumaan AO, Wharton M. Varicella mortality: trends before vaccine licensure in the United States, 1970-1994. *J Infect Dis*. 2000;182(2):383-390. doi:10.1086/315714
[4]Roush SW , Murphy TV; Historical comparisons of morbidity and mortality for vaccine-preventable diseases in the United States. JAMA2007; 298:2155–63.
[5] Glass RI, Kilgore PE, Holman RC, et al. The epidemiology of rotavirus diarrhea in the United States: surveillance and estimates of disease burden. J Infect Dis. 1996 Sep;174 Suppl 1:S5-11.

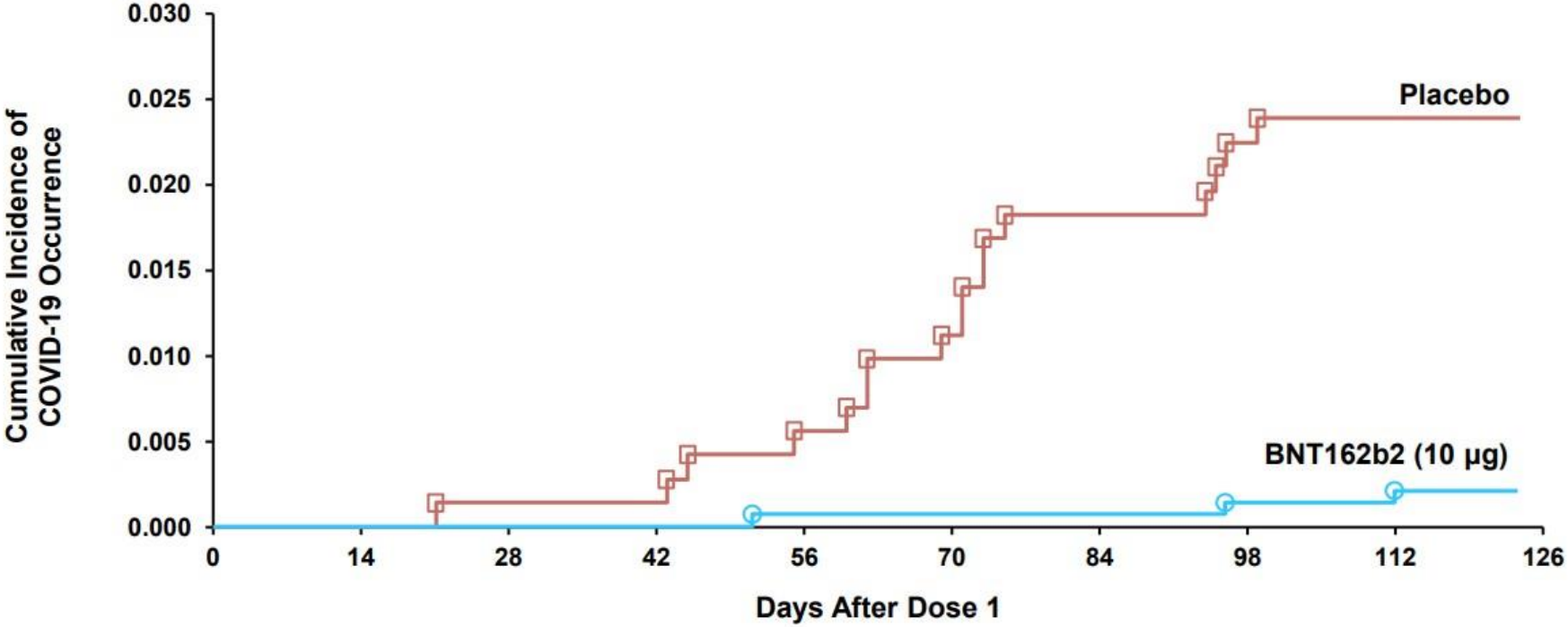
Adverse Events of Special Interest
Initial Enrollment Group and Safety Expanded Group

- **FDA AESIs:**
  - No anaphylaxis
  - No myocarditis/pericarditis
  - No Bell's palsy (or facial paralysis/paresis)
  - No appendicitis
- **CDC Defined AESIs:**
  - Potential hypersensitivity (angioedema, and predominantly rash and urticaria)
  - Arthritis (infective)
  - Vasculitis

Safety Conclusions for 5 to <12 Year Olds

- Reactogenicity was mostly mild to moderate, and short lived
- Observed mild to moderate local reactions (redness, swelling) captured by ediary were more common and systemic reactions (including fever) less common than those in 16-25 year olds
- The observed AE profile in this study did not suggest any safety concerns for BNT162b2 vaccination in children 5 to <12 years of age

Cumulative Incidence of COVID-19 After Dose 1: 5 to <12 Years of Age



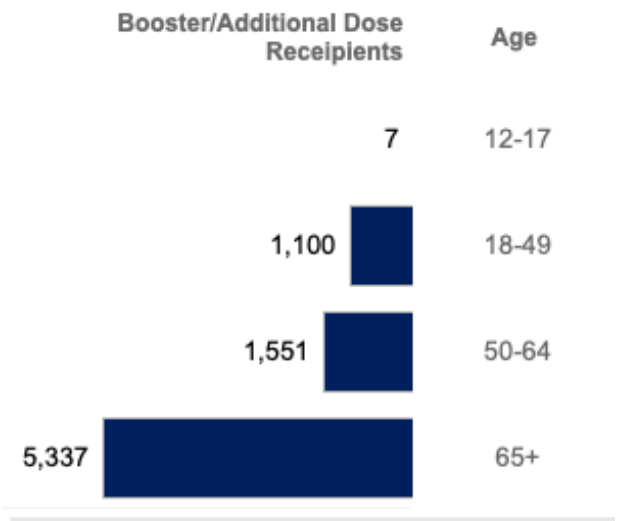
Vaccine status among Mendocino County residents, by eligible population and total population, through Nov 1, 2021

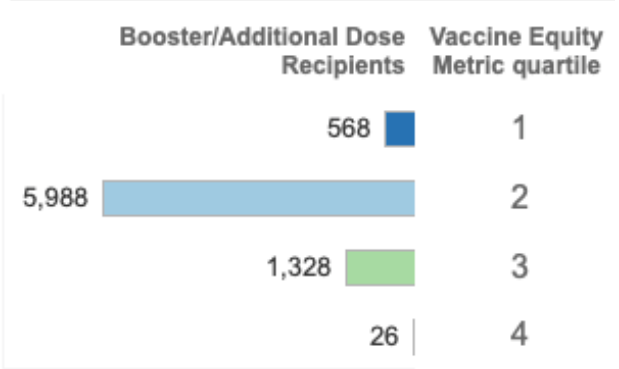
	n	% of the eligible pop. (N=75,764)	% of the total pop. (N=86,669)
Partially vaccinated	**6,800**	**9.0%**	**7.8%**
Fully vaccinated	**54,900***	**72.5%** (74.3% of CA residents)	**63.3%**
Total	**61,700**	**81.4%** (82.6% of CA residents)	**71.2%**

* +400 more fully vaccinated since Oct 26

8,000 residents have received booster doses (as of 11/1)

By age group





By race/ethnicity