

# Kids & the COVID-19 Vaccine

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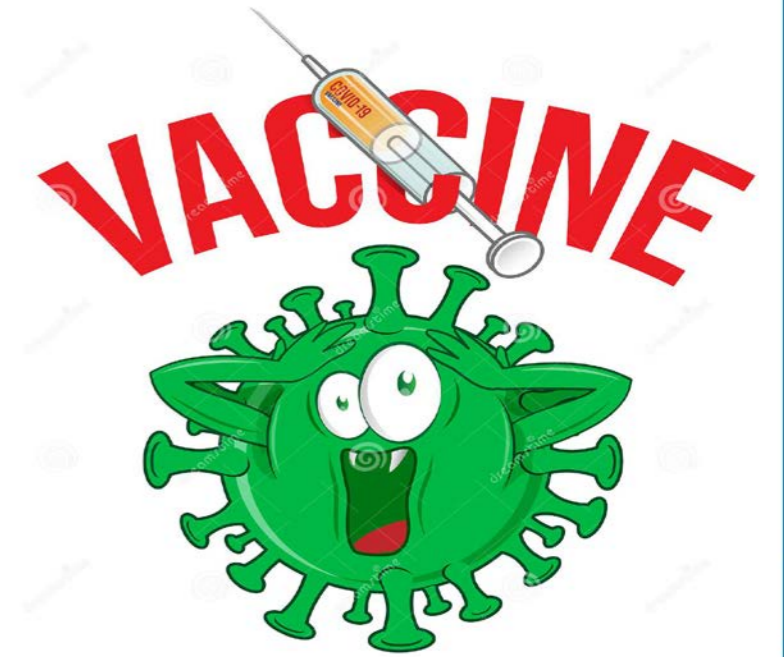
SONOMA VALLEY COMMUNITY HEALTH CENTER



# Vaccines: How They Work...



# mRNA Vaccines (Pfizer/Moderna): 60 years in the Making



**1961**

## Discovery

Jacob, Brenner, and Meselson discover mRNA.

**1994**

## Self-Amplifying mRNA

SAM vaccines produce strong immune response.

**2007**

## Vaccine Stability

Engineering mRNA shown to help with stability.

**2017**

## Personalized Immunotherapy

Vaccine for melanoma shows promise.

**1990**

## Therapeutics

Scientists first express a therapeutic protein from mRNA.

**2003**

## Cancer Vaccine

First human trials show promise for immunotherapy.

**2010**

## Commercialization

Biotech company Moderna founded to commercialize mRNA research.

**2020**

## COVID-19

Two mRNA vaccines proven effective for COVID-19.

# Kids.... Authorizations & Dates

- ▶ Current Authorizations / Approvals
  - ▶ Full FDA Approval: Pfizer 16 & Older
  - ▶ FDA EUA Authorization: Pfizer 12 & Older
- ▶ **5-11 y/o Pfizer FDA EUA Approval**
  - ▶ **October 26** FDA Advisory Committee Meeting
  - ▶ **November 2 & 3** CDC Advisory Committee Meeting
- ▶ ETA: Early 2022
  - ▶ 2 & up FDA EUA Approval
- ▶ ETA Unknown:
  - ▶ Under 2



# Kids...expected EUA for Pfizer vaccine

## ▶ Pfizer Vaccine

- ▶ 10 mcg dose = 1/3 the dose of the adult vaccine given as 2 doses 3 weeks apart
- ▶ Mild Side Effects (extremely safe!)
  - ▶ Normal Side Effects (last 24-48 hours):
    - ▶ Injection site pain, redness, swelling
    - ▶ More Common: Fatigue, headache, chills
    - ▶ Less Common: Fever, muscle pain, joint pain
    - ▶ NO cases of myocarditis/pericarditis to date in study group (1500 who received the vaccine)
- ▶ Very Effective in ages 5-11
  - ▶ 90.7% efficacy rate in preventing symptomatic infection
  - ▶ NO Severe Illness
  - ▶ Breakthrough infections MILD amongst vaccinated compared to unvaccinated (placebo)



# RISK vs. BENEFIT...

## COVID-19 VACCINATION:

- ▶ **Mild** side effects **24-48 hours**
- ▶ **Rare** Myocarditis / Pericarditis (treatable)
  - ▶ 0 Cases in 5-11 y/o trial
- ▶ **NO** Long Term Side Effects to Date
- ▶ **NO** Deaths
- ▶ Ability to Infect Others **DECREASED**
- ▶ Fertility: **NO** Effect

## COVID-19 INFECTION:

- ▶ Possible **SEVERE** Illness for **1-21 days**
- ▶ Myocarditis / Pericarditis **6x MORE likely**
- ▶ Multi-system Inflammatory Syndrome-C
  - ▶ ~2600 cases US kids age 5-11 to date
- ▶ ~150 Deaths (US kids age 5-11 to date)
- ▶ Ability to Infect Others **HIGH**
- ▶ **Increased** Miscarriage rates & Pre-term deliveries

# COVID-19 Vaccine Myths



## MYTH #1



### The vaccine can affect my DNA

**Why it's false:** The genetic material in COVID-19 vaccines cannot interact with or change your DNA in any way.

## MYTH #5

COVID-19  
**POSITIVE**



### I don't need the vaccine because I've already had COVID-19

**Why it's false:** You may experience some level of immunity after having COVID-19, but it's unclear how long this protection might last.

## MYTH #2



### A vaccine developed so quickly can't be safe

**Why it's false:** Available vaccines have undergone thorough testing and external review. These vaccines may seem new, but there's decades of research behind them.

## MYTH #6



### I don't need the vaccine because I'm young and healthy

**Why it's false:** Even mild COVID-19 can cause uncomfortable and/or lingering symptoms. Plus, even those who are young and healthy must be vaccinated to achieve herd immunity.

## MYTH #3



### The vaccine can give me COVID-19

**Why it's false:** The mild side effects associated with the vaccines are a sign that your body is building immunity to the virus. These vaccines cannot give you COVID-19.

## MYTH #4



### The COVID-19 vaccine can affect my fertility

**Why it's false:** There's no data to suggest that these vaccines pose a risk to someone who is pregnant or wants to become pregnant.

## MYTH #7



### I don't need to wear a mask after being vaccinated

**Why it's false:** Until herd immunity is reached, wearing a mask and social distancing continue to be important safety measures.

# Vaccines & Religion

- ▶ Many religious organizations, including the Catholic Church, The Vatican, The Jewish Orthodox Union, and The Rabbinical Council of America have encouraged vaccination despite any connection to fetal stem cells.
- ▶ Remote use of stem cells ONLY in the TESTING of Pfizer & Moderna.
  - ▶ Same method as MOST common medications including acetaminophen, ibuprofen, Benadryl,
- ▶ NO fetal / stem cells used in the production of Pfizer / Moderna vaccines.
- ▶ No pork products are part of the Pfizer, Moderna, or Astra-Zeneca vaccines.



# Game Plan: Get Vaccinated



... and WEAR A MASK!

# Planned School Vaccination Sites

Updated: November 4, 2021

| Dates:     | School Site:   | Invited Schools:                        | Times:  |
|------------|----------------|---|---------|
| 11/12/2021 | Dunbar         | Dunbar                                  | 4 – 6pm |
| 11/15/2021 | Sassarini      | Sassarini & St Francis                  | 4 – 6pm |
| 11/16/2021 | Altimira       | Altimira & Woodland Star                | 4 – 6pm |
| 11/18/2021 | Flowery        | Flowery & Sonoma Charter                | 4 – 6pm |
| 11/19/2021 | Adele Harrison | Adele Harrison, Presentation, Presswood | 4 – 6pm |
| 12/3/2021  | Dunbar         | Dunbar                                  | 4 – 6pm |
| 12/6/2021  | Sassarini      | Sassarini & St Francis                  | 4 – 6pm |
| 12/7/2021  | Altimira       | Altimira & Woodland Star                | 4 – 6pm |
| 12/8/2021  | Flowery        | Flowery & Sonoma Charter                | 4 – 6pm |
| 12/9/2021  | Adele Harrison | Adele Harrison, Presentation, Presswood | 4 – 6pm |
| 12/13/2021 | El Verano      | El Verano                               | 4 – 6pm |
| 1/3/2022   | El Verano      | El Verano                               | 4 – 6pm |

# Know that...



**ONLY PFIZER VACCINE WILL BE AVAILABLE AT THESE SCHOOL EVENTS.**



**FAMILIES ARE ALSO WELCOMED TO BE VACCINATED.**



**WE PLAN TO SCHEDULE MORE SCHOOL BASED VACCINATION EVENTS IN 2022.**

# Community Resources

- ▶ **Sonoma Valley Hospital:** <https://www.sonomavalleyhospital.org>
- ▶ **Sonoma Valley Health Partners:** <https://www.svhpvaccines.org>
- ▶ **Sonoma Valley Community Health Center:** <https://svchc.org>
- ▶ **City of Sonoma:** <https://sonomacity.org>
- ▶ **Schedule Your Additional Dose or Booster:** <https://myturn.ca.gov>
- ▶ **Need A Copy of Your Vaccination Record:** <https://cairweb.org>
- ▶ **UCSF Covid-19 Resources:** <https://coronavirus.ucsf.edu>
- ▶ **CDC Vaccination for 5 – 11 Years Old:** <https://www.cdc.gov/vaccines/covid-19/planning/children.html>

# QUESTIONS?

