

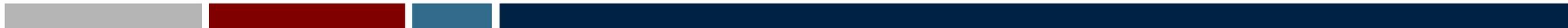


# 18<sup>th</sup> Focus on Melanoma Patient conference

## Update on COVID-19 infection and COVID-19 Vaccine for Cancer Patients

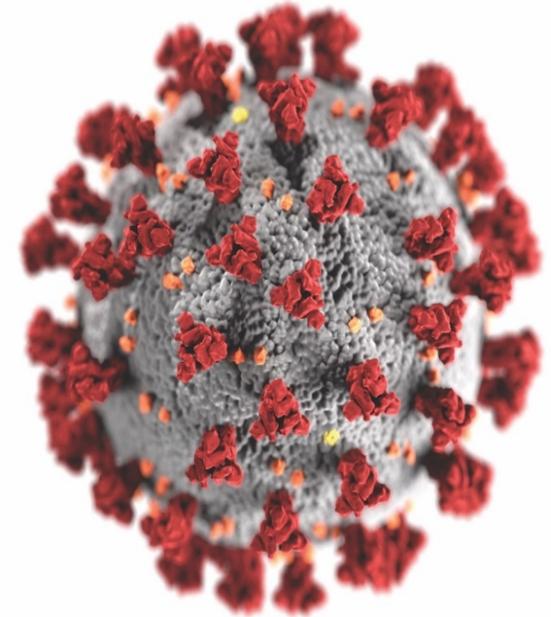
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# SARS-CoV-2 and COVID-19

- ▶ Identified in Wuhan, China in 2019
- ▶ Declared a pandemic in March, 2020
- ▶ Cases in US > 32 Million
- ▶ Deaths in US > 575,000
- ▶ Very clear early on, that patients with cancer are increased risk for complications of COVID and death from COVID
- ▶ 60% Adults in US with at least one dose of COVID vaccine



# GUIDING PRINCIPLES: CARE OF CANCER PATIENTS

- ▶ Timely and high quality care of cancer patients
- ▶ Protect patients from COVID-19 infection
- ▶ Reduce complications of COVID-19 infection in patients with cancer
- ▶ Protect all physicians, nurses, health care workers



# COVID-19 Vaccine- Prioritization

- ▶ Cancer patients at increased risk for complications from COVID-19
  - Age  $\geq$  65
  - Patients on active therapy (chemotherapy, immunotherapy, targeted therapy)
  - Patients with advanced cancer-metastatic
  - Patients with Hematological Malignancies regardless of treatment status
  - Patients with Lung Cancer



# Efficacy of COVID-19 Vaccines

Company	Platform	Doses	Non-clinical results	Number of people who got vaccine	Protection from hospitalizations /death	Protection from severe disease (may not be hospital)	Efficacy against milder disease
 Moderna	mRNA-1273 mRNA in lipid nanoparticle	2	Neutralizing Abs; Strong Th1 response; protection from challenge	~15,000	100%	100% (30 cases in placebo arm; 0 in vaccine)	94.1%
 Pfizer	BNT162b2 mRNA in lipid nanoparticle	2	Neutralizing Abs; Strong Th1 and Th2 response; protection from challenge	~18,600	100%	100% (9 cases in placebo arm; 0 in vaccine)	95%
 AstraZeneca	AZD 1222 Non-replicating Chimp Adenovirus-DNA	2	Neutralizing Abs; Strong Th1 and Th2 response; protection from challenge	~5800	100%	100% (10 in placebo; 0 in vaccine)	90% half-full-dose; 70% overall
 Johnson & Johnson	JNJ-78436725 Non-replicating human adenovirus/DNA	1	Neutralizing Abs; Strong Th1 and Th2 response; protection from challenge	~22,000	100%	85% (across South Africa, U.S., Latin America)	72% US; 66% Latin America; 57% S. Africa
 NOVAVAX Creating Tomorrow's Vaccines Today	NVX-CoV2373 Spike protein/RBD + Matrix M adjuvant	2	Neutralizing Abs; protection from challenge	~9700	100%		89.3% UK; 60% S. Africa
 Sputnik V	Ad26 and Ad5 adenovirus/DNA	2	Neutralizing Abs; Strong Th1 and Th2	~11360	100%	100% (20 cases placebo; 0 in vaccine)	91.4%

Is it safe for cancer patients to get  
COVID-19 vaccine?



Is it safe for cancer patients to get  
COVID-19 vaccine?

**YES**

**Strong recommendation for all cancer  
patients to get the vaccine**

Which COVID Vaccines are available?  
Does it matter which vaccine I receive?

# Which COVID Vaccines are available?

Pfizer-BioNTech  
Moderna  
Johnson & Johnson

# What are the Side Effects of the COVID-19 Vaccine

- ▶ Pain and redness at injection site
  - ▶ Tired
  - ▶ Headache
  - ▶ Fever, chills
  - ▶ Muscle, Joint pain
  - ▶ Nausea
- 
- ▶ Vaccine DOES NOT
    - Effect fertility
    - Does not cause cancer
    - No possibility that mRNA vaccine can cause cancer
- 
- ▶ Blood Clots
    - Very rarely, people who have received Johnson & Johnson vaccine have developed serious blood clots.
    - Most commonly in women between 18-59 and occurs 6-15 days following the vaccine.



# COVID-19 Vaccine and Swollen Lymph nodes



# Will the COVID-19 Vaccine work if I am on treatment?

- ▶ COVID Vaccine should be given to all cancer patients, especially those patients on active therapy including immunotherapy, targeted therapy, or chemotherapy
- ▶ Efficacy of Vaccine in patients on active therapy:
  - Possible that immune response won't be as robust but still predicted to be of benefit
  - No issues of timing of vaccine in relationship to treatment
  - Vaccine can be given on same day as treatment- including radiation
- ▶ Exclusion Criteria for Vaccine
  - COVID-19 infection within last 90 days
  - If undergoing bone marrow transplant for CAR T cell therapy

Do I still need to take precautions if I get the COVID-19 Vaccine

YES

# Additional Guidance for Vaccine in our Patients

## ▶ Management of Fever/Chills

- Common side effect, especially with second dose of vaccine
- Important to understand, especially if on active treatment

## ▶ What about patients who have low WBC?

- No specific guidance regarding holding vaccine during neutropenia but makes evaluation of fever clinically more challenging

## ▶ What about patients with low platelet count?

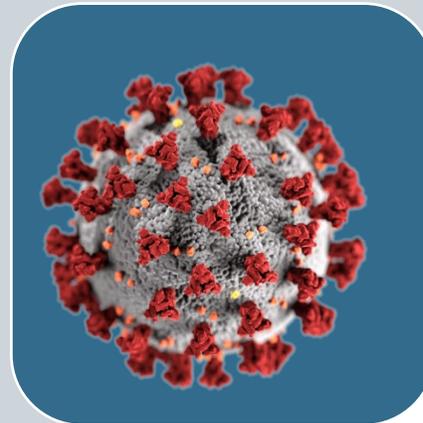
- Safe to give to patients even with very low platelet counts as volume of the vaccine is small

# What happens if I get COVID-19 Infection?

## Care of COVID-19 in Cancer Patients

**Use of Monoclonal Antibody for COVID infection**

**Call with any concerning symptoms**



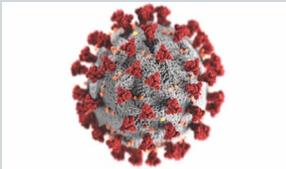
## Management of Cancer Therapy

**Resuming Cancer Therapy Safely**

# What you need to do to safe and healthy:

## Be smart about COVID

- Wear Mask where appropriate
- Get your COVID Vaccine
- Call your doctor or nurse with any concerns about symptoms of COVID or exposure to COVID



## Get to cancer screening appointments

- Mammogram
- Pap Smears
- Colonoscopy



TEST

## See Your Dermatologist

- Missed derm appts
- Telehealth can only take you so far– need an examine



## Safe Sun Practices

