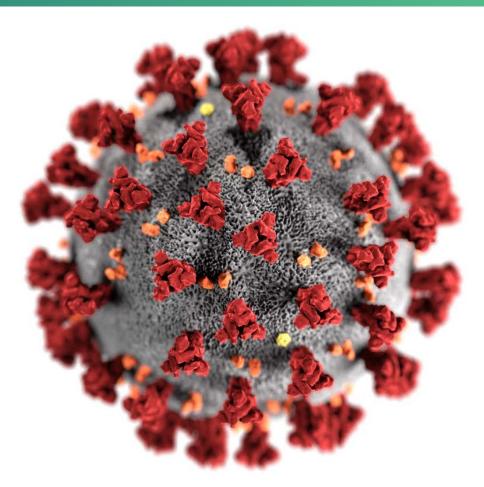


ACIP COVID-19 Vaccines Work Group

COVID-19 vaccine Work Group Considerations: Evidence to Recommendation Framework

Kathleen Dooling, MD MPH July 29, 2020





Work Group Considerations: Objectives of the COVID-19 Vaccine Program

- Ensure safety and effectiveness of COVID-19 vaccines
- Reduce transmission, morbidity, mortality of COVID-19 disease
- Help minimize disruption to society and economy, including maintaining healthcare capacity
- Ensure equity in vaccine allocation and distribution

Evidence to Recommendation

Evidence

-Published-Gray literature

Evidence to Recommendation Framework

-Problem

-Benefits & Harms

-Values

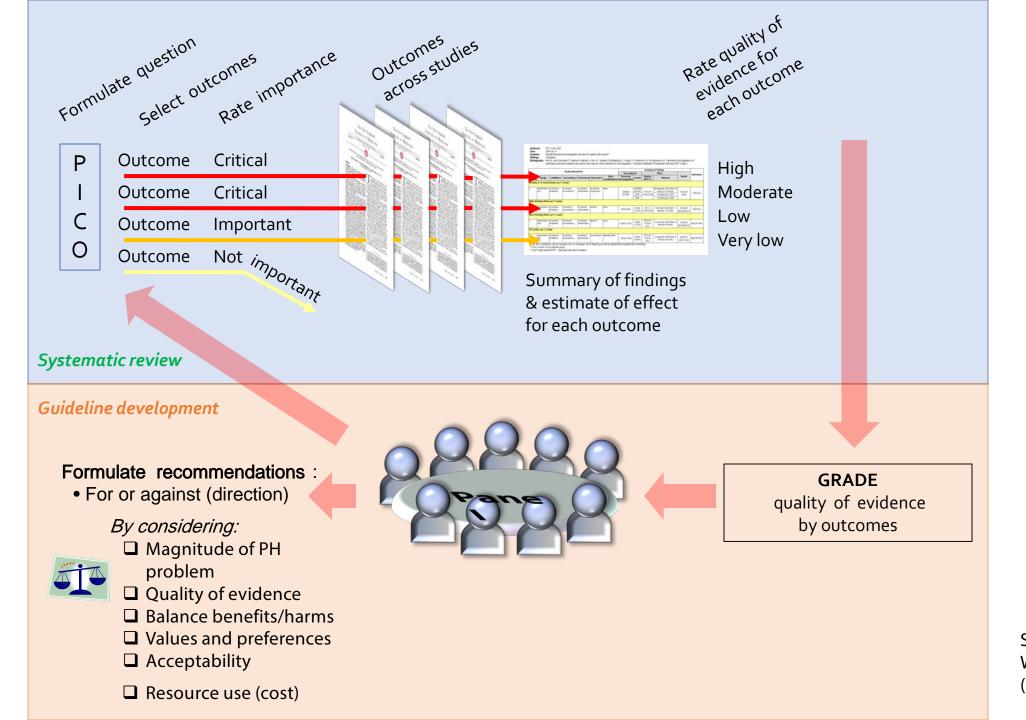
-Acceptability

-Feasibility

-Resource use

ACIP Recommendation

- 1) Recommend
- Recommend for individuals based on shared clinical decision making
- 3) Do not Recommend



Slide by Wendy Carr (mødified)

Formulating the Question: PICO



Population	Entire US population. Sub-populations TBD
Intervention	
Comparison	
Outcomes	

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Intervention	Individual COVID-19 Vaccine (not by class or group) -#doses, route of administration, schedule
Comparison	
Outcomes	

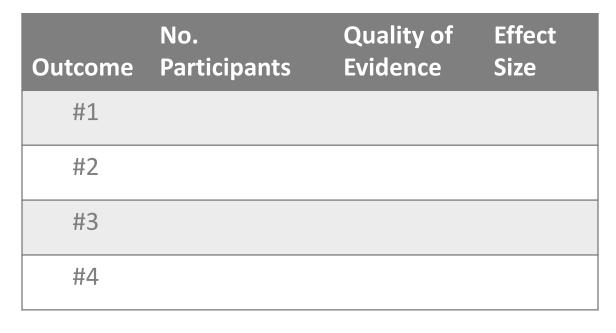
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Outcomes		Benefits	Harms		
	Important				
	Critical				

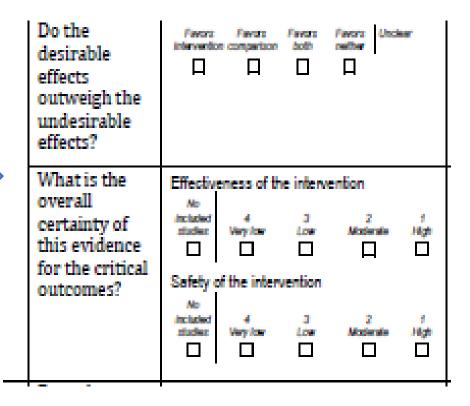
Outcomes		Possible Benefits (Prevention of)	Possible Harms
	Important	SARS-CoV-2 Seroconversion COVID-19 hospitalization Mechanical ventilation Death	Reactogenicity
	Critical	Symptomatic COVID-19	Severe Adverse Events (includes VED)

Outcomes will be GRADE'd and the resulting quality of evidence will be considered in the EtR

GRADE Summary of Findings



Evidence to Recommendation Framework



COVID-19 Vaccine Recommendations:



Vaccine Recommendations

- -stable (Δ if new data on harms/benefits)
- -populations broad, likely consistent with FDA approval
- -purpose: set standard + inform prioritization

Prioritization Recommendation

- -dynamic (Δ if vax rec, Δ supply or demand)
- -subset populations as required
- -purpose: implementation

Equity



Work Group Considerations: Process for identifying proposed priority groups for COVID-19 vaccination

Pandemic influenza framework Principles of the Evidence to **Ethics and equity principles** for vaccine allocation **Recommendations (EtR) Framework Criteria for prioritization** Burden and severity of disease Minimize death and serious disease Burden of disease and severity Preserve functioning of society Benefits and possible harms Pandemic severity and impacts Reduce disproportionate burden on Values of the target population on society those with existing disparities Acceptability to stakeholders Vaccine supply Feasibility of implementation Consideration should be give to:

- Maximize benefits/minimize harms
- Transparent, fair process
- Just, fair stewardship of vaccines
- Removing barriers to vaccination

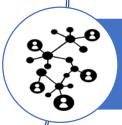
ACIP COVID-19 Vaccine Work Group: Proposed Guiding Principles



Safety is paramount. Vaccine safety standards will not be compromised in efforts to accelerate COVID-19 vaccine development or distribution



Inclusive clinical trials. Study participants should reflect groups at risk for COVID-19 to ensure safety and efficacy data are generalizable



Efficient Distribution. During a pandemic, efficient, expeditious and equitable distribution and administration of approved vaccine is critical



Flexibility. Within national guidelines, state and local jurisdictions should have flexibility to administer vaccine based on local epidemiology and demand

National Academies of Science Engineering and Medicine Committee on Equitable Allocation of Vaccine for the Novel Coronavirus

Purpose: To develop a framework for planning for equitable allocation of vaccines which can inform decisions by ACIP

- > What criteria should be used in setting priorities for equitable allocation of vaccine?
- ➤ How should the criteria be applied in determining the first tier of vaccine recipients?
- > How can communities of color be assured access to vaccination?

Next Steps for the Work Group

Vaccine Recommendations:

- Complete definition of the policy question for inclusion in the EtR Framework
- Review clinical trial data for candidate vaccines, as they becomes available
- Build understanding of adverse event reporting and surveillance systems in clinical studies and post approval use—identify gaps and strengthen systems

Further refine Tier Groups for allocation of early vaccine, including persons at high risk:

- Review proposed vaccine implementation—understand needs of State/Local planners
- Review modelling analysis of vaccine implementation strategies
- Review results of focus groups and other public engagement as they become available