COVID-19 vaccine implementation

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Rising to the challenge to achieve high coverage with COVID-19 vaccines

Vaccination coverage of racial and ethnic minorities is consistently lower than that of white populations.

We need novel and more robust strategies to increase uptake of COVID-19 vaccine, once one becomes available.

Source: Vaccination Coverage among Adults in the United States, National Health Interview Survey, CDC, 2017. NH = Non-Hispanic. Vaccinations included in this assessment include influenza, pneumococcal, Td, Tdap, Zoster, HepA, HepB, and HPV.
Complex and evolving landscape for COVID-19 vaccine

- One vs. two dose series, products not interchangeable
- Varying presentations
- Vaccine efficacy and adverse event profile in different populations
- Varying cold-chain requirements
- Use in children and pregnant women
- Need for socially distanced vaccination practices
- Communication and education
- High-risk groups for COVID-19 may distrust public health
Multiple Critical Components to Vaccine Implementation

Communication and Stakeholder Guidance
(state, local, special populations, private sector partners, public)

Prioritizing population
Allocation of Vaccine
Distribution (MFR–Dist–State)
Administration
Safety, Effectiveness, Uptake, Second dose
Vaccine Recovery

Supply - Monitor, Track, Report
Vaccine Uptake, Use, and Coverage
ADE and VE Monitoring and Reporting

Regulatory Considerations

Data
As volume of doses available increases, we will be able to vaccinate broader populations.

**Ramp up**

- Constrained supply
- Focused administration to target populations where high coverage will be essential for public health (e.g., healthcare and essential workers, individuals long-term care and assisted living facility residents)

**Peak**

- Greater supply
- Continued administration to target populations as well as to general population
- USG will work to ensure physical & financial access for all
Approach to COVID-19 vaccination

- Vaccine & ancillary supplies
- Central distributor
- Allocation for jurisdictions with additional direct allocations to select private partners to expand access
- Administration sites in traditional & innovative sectors to reach target populations

- Approved Requests
- Requesting Vaccine
- Requesting against allocation

IT / data infrastructure supports entire distribution, ordering, tracking process from end-to-end
To distribute and administer a COVID-19 vaccine, we will leverage many opportunities to ensure success

Partnerships with distributor(s) will ensure the vaccine is readily and efficiently distributed across the country.

State, local, and community partners will be instrumental in planning for widespread vaccination.

Diverse administration sites (pharmacies, doctor's offices, mobile clinics, etc.) will ensure all individuals have physical access to the vaccine.

IT infrastructure will support the entire vaccine ordering, distribution, and tracking process from end-to-end.
The Vaccine Life Cycle

safety at every phase

GUIDE
ACIP
ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES
BLA
BIOLOGICS LICENSE APPLICATION
CDC
CENTERS FOR DISEASE CONTROL AND PREVENTION
FDA
FOOD AND DRUG ADMINISTRATION
IND
INVESTIGATIONAL NEW DRUG APPLICATION

VACCINE

DEVELOPMENT

safety is a priority during vaccine development + approval

PHASE 1
safety

PHASE 2
effectiveness

PHASE 3
safety + effectiveness

PHASE 4
safety monitoring for serious, unexpected adverse events

FDA REVIEW
ACIP REVIEW
POST-APPROVAL MONITORING + RESEARCH

LEARN MORE
FDA VACCINE DEVELOPMENT + APPROVAL PROCESS http://go.usa.gov/xvvNd
CDC VACCINE SAFETY MONITORING + RESEARCH http://go.usa.gov/xvvNe
Vaccinate with **Confidence**

CDC’s strategic framework for strengthening vaccine confidence and preventing outbreaks of vaccine preventable diseases.

**Protect communities**

**Strategy: Protect communities at risk from under-vaccination**
- Leverage immunization data to find and respond to communities at risk
- Work with trusted local partners to reach at-risk communities before outbreaks
- Ensure vaccines are available, affordable, and easy-to-get in every community

**Empower families**

**Strategy: Get providers and parents effective information resources**
- Expand resources for health care professionals to help them have effective vaccine conversations with parents
- Work with partners to start conversations before the first vaccine appointment
- Help providers foster a culture of immunization in their practices

**Stop myths**

**Strategy: Stop misinformation from eroding public trust in vaccines**
- Work with local partners and trusted messengers to improve confidence in vaccines among key, at-risk groups
- Establish partnerships to contain the spread of misinformation
- Educate key new stakeholders (e.g., state policy makers) about vaccines
Thank you

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.