COVID-19 Vaccine Implementation
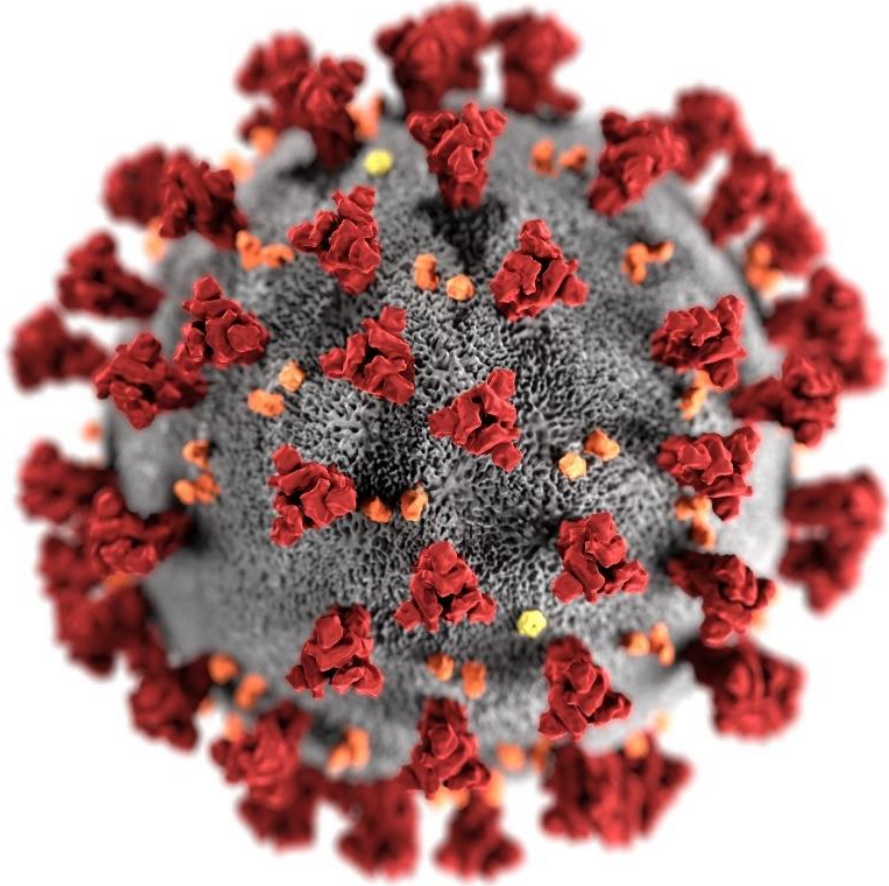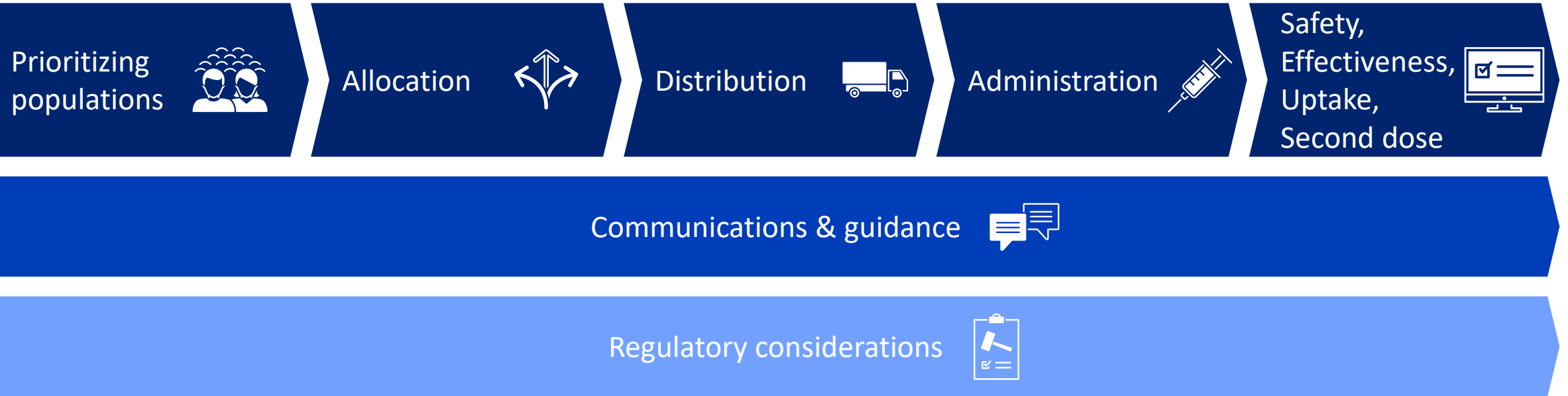
Dr. Nancy Messonnier
Dr. Amanda Cohn

December 3, 2020
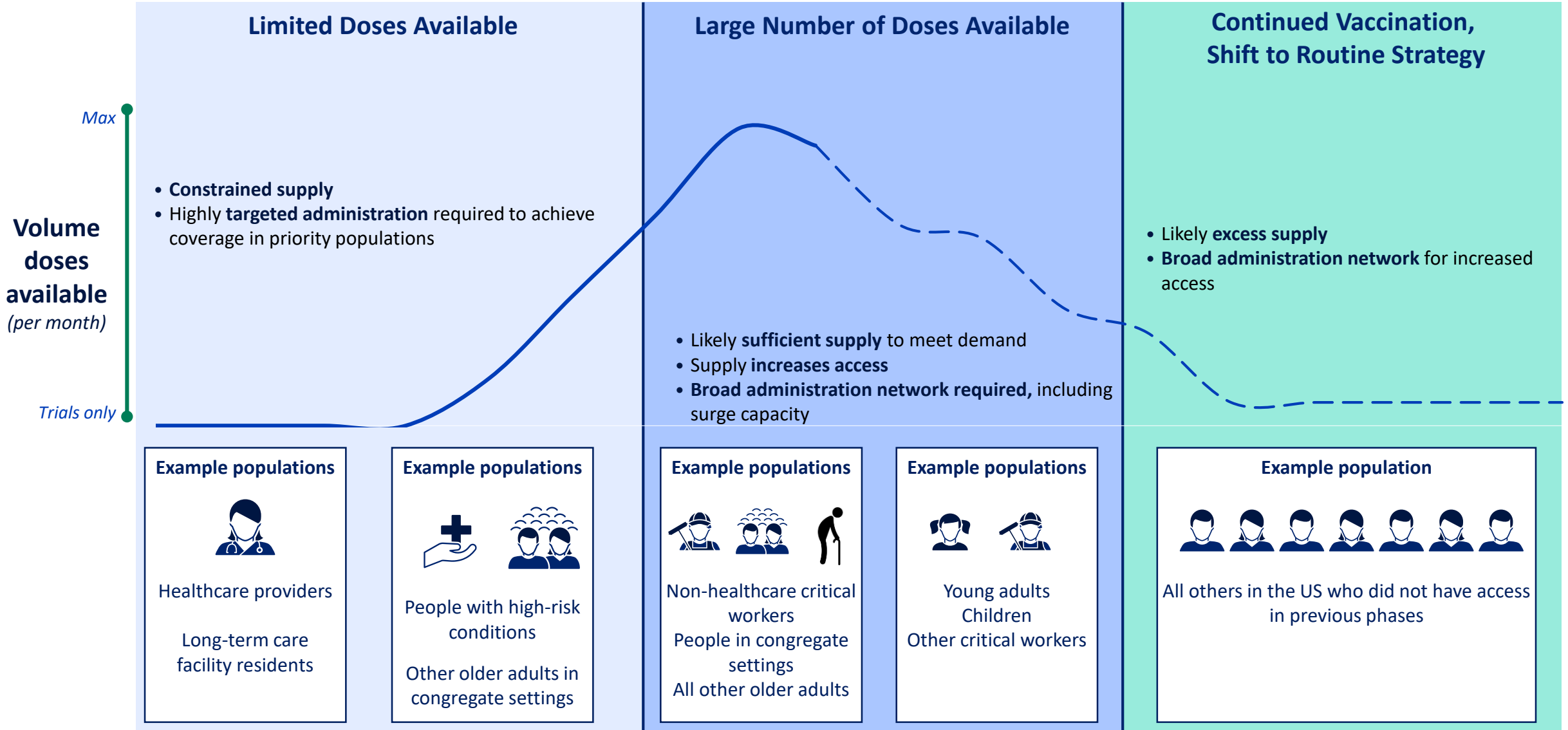
Multiple Components to Vaccine Implementation

| Prioritizing populations | Allocation | Distribution | Administration | Safety, Effectiveness, Uptake, Second dose |

Communications & guidance

Regulatory considerations

Public health impact relies on rapid, efficient, and high uptake of complete vaccine series,
with particular focus on those at increased risk for severe COVID-19 illness

# Distribution will adjust as volume of vaccine doses increases

Limited Doses Available

Large Number of Doses Available

**Continued Vaccination,
Shift to Routine Strategy**

Max

Volume doses available
(per month)

Trials only

- **Constrained supply**
- Highly **targeted administration** required to achieve coverage in priority populations

- Likely **sufficient supply** to meet demand
- Supply **increases access**
- **Broad administration network required,** including surge capacity

- Likely **excess supply**
- **Broad administration network** for increased access

Example populations

Healthcare providers

Long-term care facility residents

Example populations

People with high-risk conditions

Other older adults in congregate settings

Example populations

Non-healthcare critical workers
People in congregate settings
All other older adults

Example populations

Young adults
Children
Other critical workers

Example population

All others in the US who did not have access in previous phases

Illustrative example populations; final prioritization to be decided by ACIP

12/2/20

ACIP Allocation of COVID-19 Vaccine

Which groups should be recommended to receive COVID-19 vaccine 'X' during Phase 1?

<u>Ethical Principles:</u>
- Maximize benefits & minimize harms
- Promote justice
- Mitigate health inequities
- Promote transparency
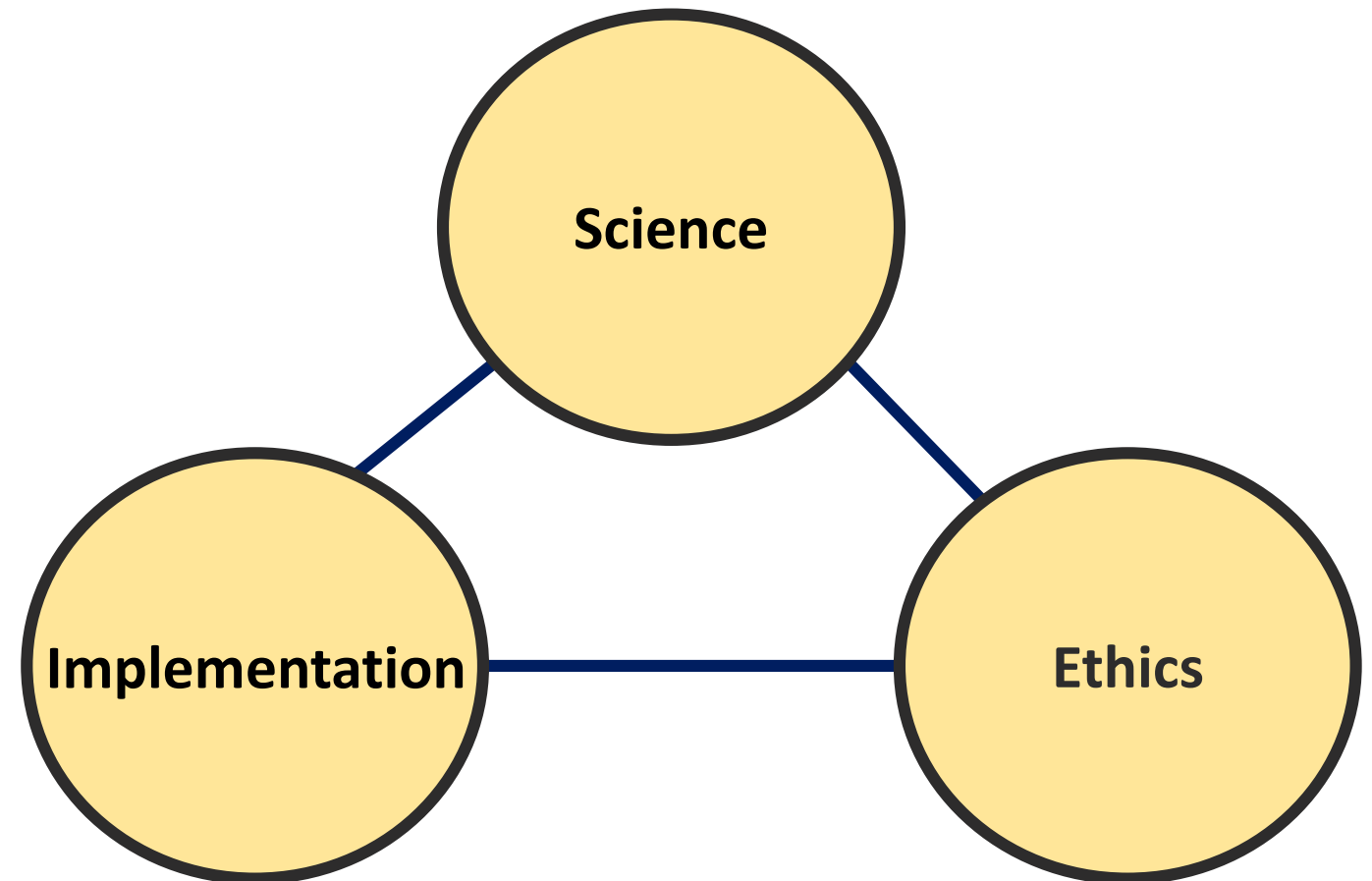
ACIP Recommendations for Use of Vaccine Against COVID-19

When a COVID-19 vaccine is authorized by FDA and recommended by ACIP, **ACIP recommends that 1) health care personnel and 2) residents of long-term care facilities be offered vaccination in the initial phase of the COVID-19 vaccination program (Phase 1a).**

Goals for vaccination if supply is limited

ACIP has set the following goals for recommending which groups should receive COVID-19 vaccines if supply is limited:

- Decrease death and serious disease as much as possible

- Preserve functioning of society

- Reduce the extra burden the disease is having on people already facing disparities

- Increase the chance for everyone to enjoy health and well-being

12/2/20

Groups for Phase 1a Vaccination

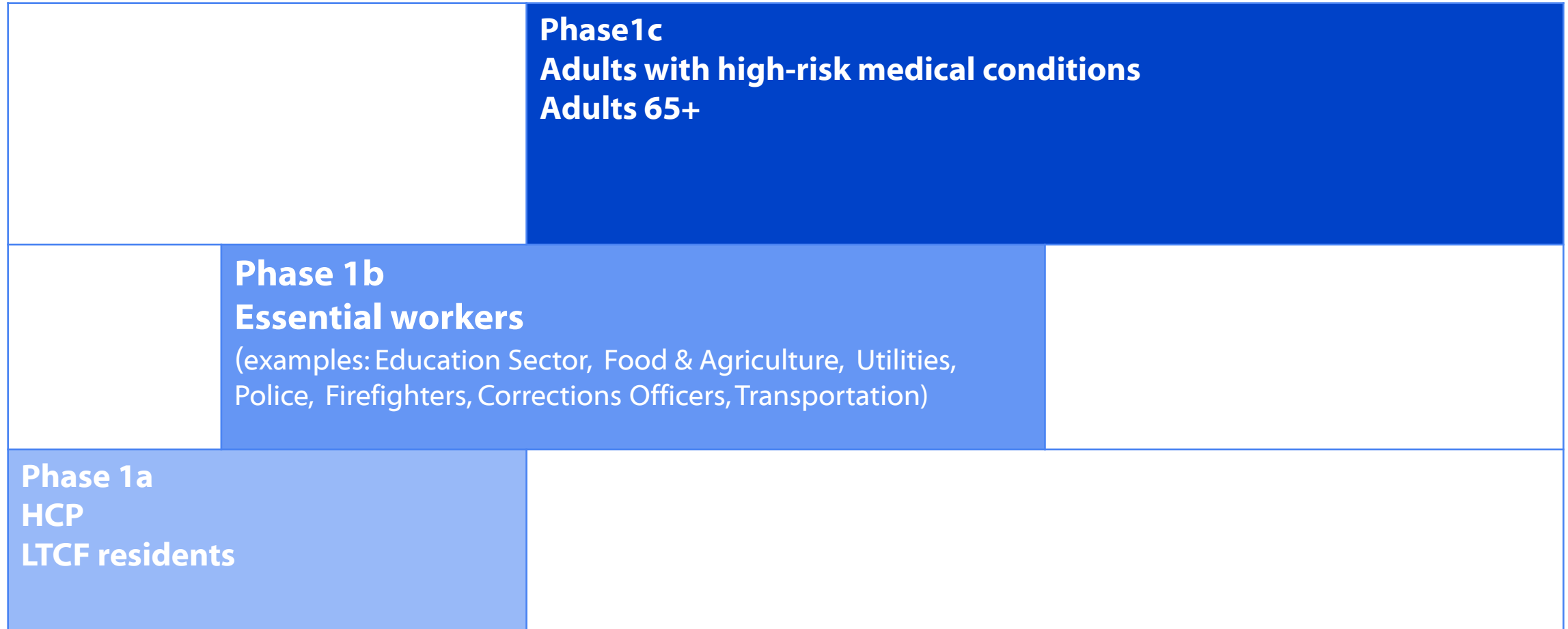| Health Care Personnel[1,2] (HCP) (~21 million)	Long-Term Care Facility (LTCF) Residents[3] (~3 million)
Examples	
- Hospitals - Long-term care facilities - Outpatient clinics - Home health care - Pharmacies - Emergency medical services - Public health	- Skilled nursing facilities (~1.3 M beds) - Assisted living facilities (~0.8 M beds) - Other residential care (~0.9 M beds)

1. https://www.cdc.gov/infectioncontrol/guidelines/healthcare
2. personnel/index.htmlhttps://www.cisa.gov/publication/guidance-essential-critical-infrastructure-workforce
3. https://www.cdc.gov/longtermcare/index.html

12/2/20

Additional Considerations for Phase 1a Implementation

- **Sub-prioritization** may be required with initial limited supply

- Implementation of vaccination programs for healthcare personnel will need to consider **reactogenicity** post-vaccination

  - Additional post-vaccination guidance forthcoming from CDC

- Reactogenicity appears **lower** in older adult population for mRNA vaccines

  - No reactogenicity data in LTCF residents

- **Safety monitoring** of all populations in Phase 1a, especially LTCF residents, will be critical post-authorization

12/2/20

ACIP Proposed Interim Phase 1 Sequence

Phase1c
Adults with high-risk medical conditions
Adults 65+

Phase 1b
Essential workers
(examples: Education Sector, Food & Agriculture, Utilities, Police, Firefighters, Corrections Officers, Transportation)

Phase 1a
HCP
LTCF residents

Time

Distribution Concept of Operations
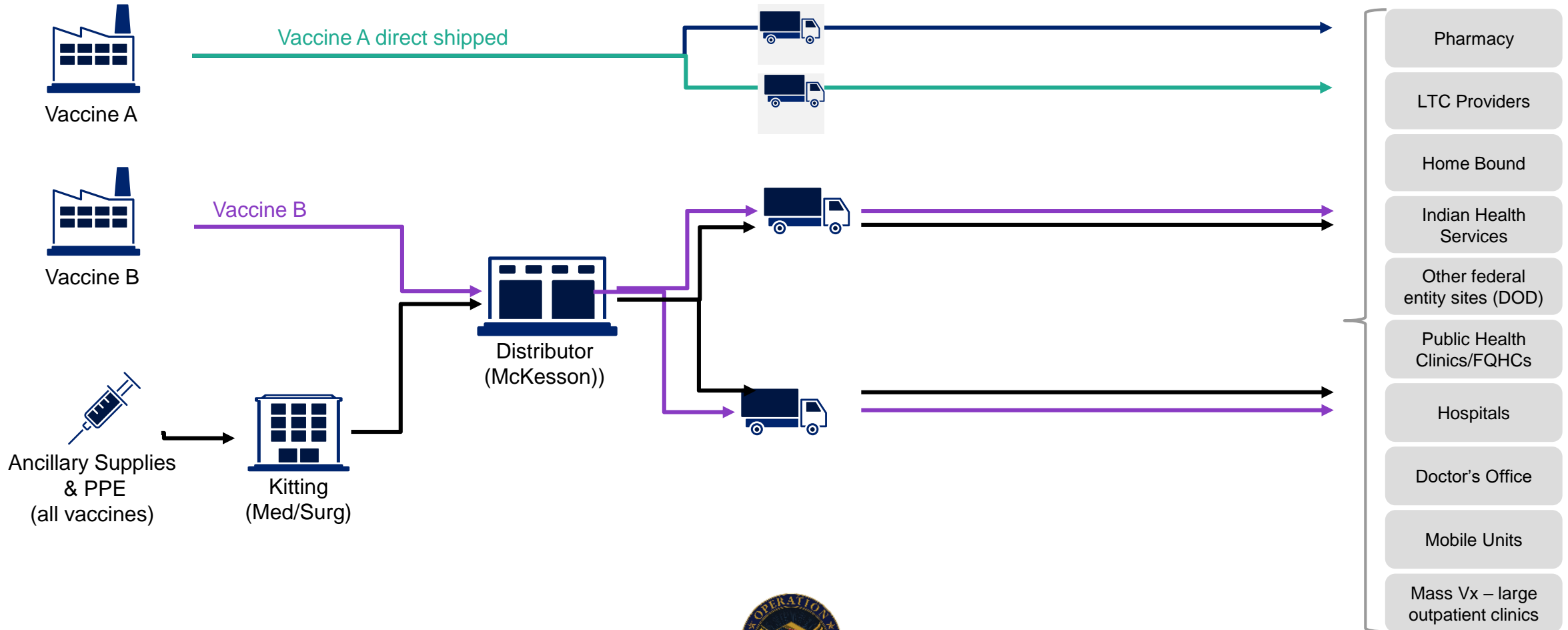
Working Toward Jurisdictional Vaccine Implementation

- **Continue to enroll vaccination provider sites**, particularly sites for Phase 1a

- **Assess expected vaccine allocations**

- **Finalize microplanning** with expected products and allocations to plan for Phase 1a

- **Place pre-orders** for vaccine

- **Continue preparations** for accessing under-resourced communities and disproportionately affected groups

- **Identify critical metrics** for post-implementation monitoring

COVID-19 Vaccination Program
Interim Playbook for
Jurisdiction Operations
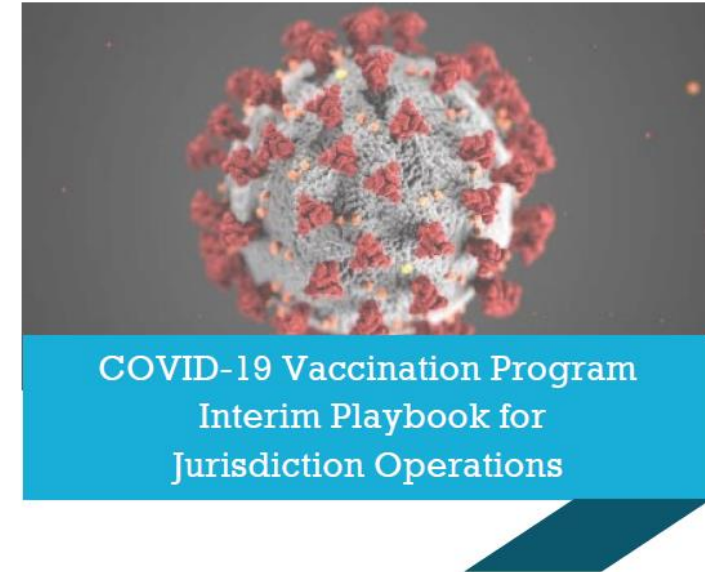
Centers for Disease Control and
Prevention (CDC)

October 29, 2020
Version 2.0

https://www.cdc.gov/vaccines/imz-managers/downloads/COVID-19-Vaccination-Program-Interim_Paybook.pdf

12/2/20

COVID-19 Vaccination Provider Recruitment and Enrollment

- Ongoing, variable numbers by state

- States working with healthcare and hospital systems and local health departments
  - Closed pods and open pods

- Training of COVID-19 vaccination providers is vital to ensure the success of the COVID-19 Vaccination Program

- Training and clinical materials include:
  - Toolkits for health systems and clinics, long-term care facilities, and health departments
  - Training materials on vaccine administration, storage and handling, vaccine products, etc.

12/2/20

COVID-19 Vaccine Safety Strategy

1. **Use established systems** to implement heightened safety monitoring for COVID-19 vaccines

2. **Develop new platforms** and leverage other federal data sources to complement existing systems

3. **Communicate clearly** on the vaccine safety process and systems now; provide COVID-19 vaccine safety data and monitoring results once available

12/2/20

VAERS is the nation's early warning system for vaccine safety

Vaccine Adverse Event Reporting System

Co-managed by CDC and FDA

http://vaers.hhs.gov

12/2/20

Active Safety Monitoring for COVID-19 Vaccines

- **V-safe** is a new CDC smart-phone based monitoring program for COVID-19 vaccine safety
  - Uses text messaging and web surveys to check-in with vaccine recipients after vaccination
  - Participants can report any side effects or health problems after COVID-19 vaccination
  - Includes active telephone follow-up by CDC for reports of significant health impact

12/2/20

The Vaccine Demand Continuum

INCREASING CONFIDENCE IN VACCINE, VACCINATOR, AND HEALTH SYSTEM

May have questions, take "wait and see" approach, want more information

Demand

Refusal

Passive
Acceptance

12/2/20
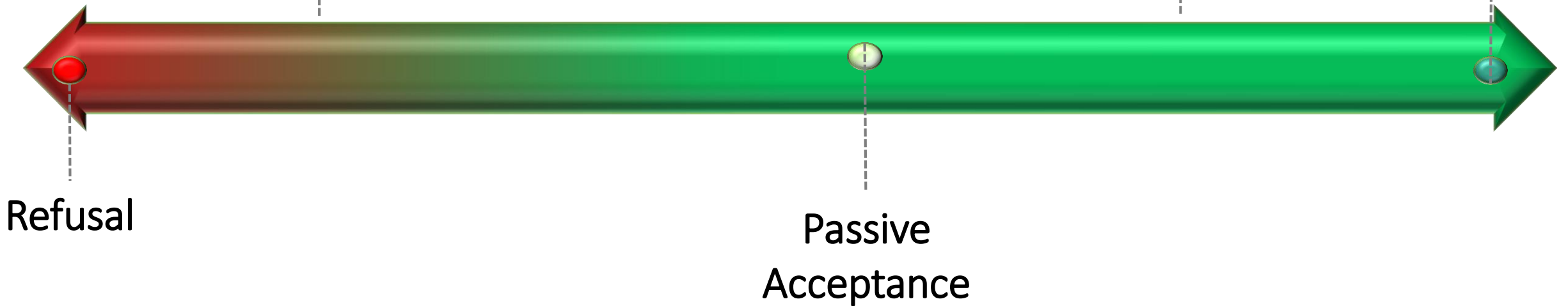
Vaccinate with **Confidence**

A National Strategy to Reinforce Confidence in COVID-19 Vaccines

Reinforce Trust

Objective: Regularly share clear and accurate COVID-19 vaccine information and take visible actions to build trust in the vaccine, the vaccinator, and the system.

Empower Healthcare Providers

Objective: Promote confidence among healthcare personnel in their decision to get vaccinated and to recommend vaccination to their patients.

Engage Communities & Individuals

Objective: Engage communities in a sustainable, equitable and inclusive way—using two-way communication to listen, increase collaboration and build trust in COVID-19 vaccine.

12/2/20

Available Soon! – Vaccine Communication Toolkits

- **Ready-made materials to inform healthcare providers, patients, and communities about COVID-19 vaccines**

  - Discussion guide and readiness checklist
  - Slide decks for immunization coordinators, healthcare teams, and other support personnel
  - Colorful posters
  - Informational factsheets and FAQs
  - Sample social media messages and graphics
  - Drop-in articles and blog posts
  - "Vaccinated against COVID" button design to make vaccination visible

COVID-19 Vaccine Implementation

- There will be **unanticipated challenges**, but CDC will continue to work closely with partners to **find solutions and overcome obstacles**.

- Vaccines are an important tool to control the pandemic, but we need to continue to **wear masks, social distance, and wash hands.**

- **Jurisdictions are under immense stress** and will be implementing COVID-19 vaccination amidst a surge in disease, strain on the healthcare system, and nearly a year spent fighting this pandemic.

- We need to continue to lay the foundation to **build vaccine confidence** across the United States.

12/2/20

For up-to-date COVID-19 vaccine information visit:

www.cdc.gov/coronavirus/2019-ncov/vaccines

Thank you

For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348   www.cdc.gov