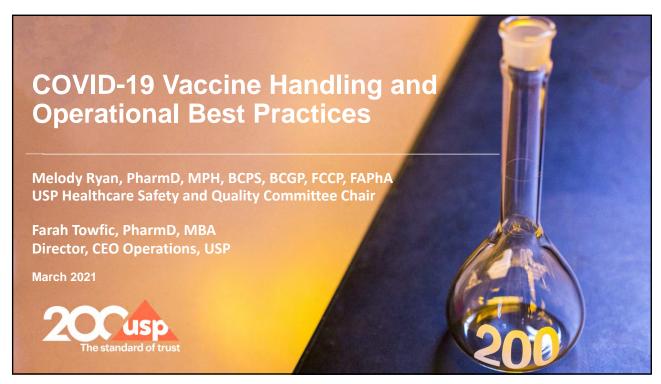


# USP COVID-19 Vaccine Handling Toolkit: Operational Considerations to Support Confidence, Trust, and Quality

Thursday, March 25, 2021 www.nabp.pharmacy/webinar

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## **Disclosures**



- Melody Ryan and Farah Towfic report they have no actual or potential conflicts of interest associated with this presentation.
- ▶ Off-label use of medication will be discussed during this presentation.
  - COVID-19 vaccines have emergency use authorization (EUA), which is not Food and Drug Administration approval.



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# **Learning Objectives**



- ▶ Describe the USP COVID-19 Vaccine Handling Toolkit
- Explain how to accelerate delivery of COVID-19 vaccines
- Support the safe handling of COVID-19 vaccines while maintaining quality and trust



## **Self-Assessment Questions**

2000 The standard of trust

- ▶ The beyond use date for COVID-19 vaccines are best assessed through:
  - a. Application of USP<797> to all vaccines
  - b. Following manufacturer labeling in the Emergency Use Authorization
  - c. None of the above
- ➤ The transport of prepared COVID-19 vaccine product may take place under which of the following conditions?
  - Vaccine in frozen state in vials
  - b. Vaccine in refrigerated state in vials
  - c. Pre-drawn syringes in refrigerated state
  - d. COVID-19 vaccines should not be transported once delivered to provider site
  - e. A, B, and C



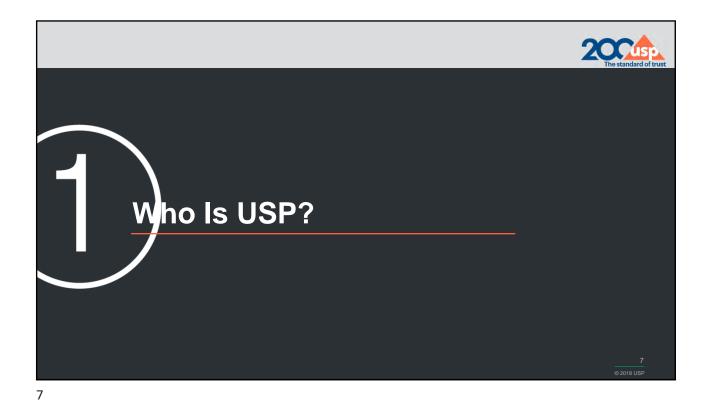
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# **Overview**

200 The standard of trust

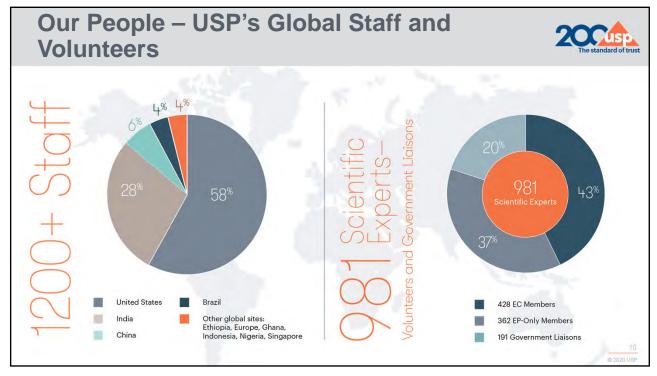
- ▶ Who is USP?
- ▶ Building trust in COVID-19 vaccines through quality
- ▶ USP COVID-19 Vaccine Handling Toolkit
  - Preparation and labeling
  - Storing, handling, and transporting
  - Waste minimization and ancillary supply disposal
- ▶ Facilitated Q & A





To improve global health through public standards and related programs that help ensure the quality, safety, and benefit of medicines and foods.

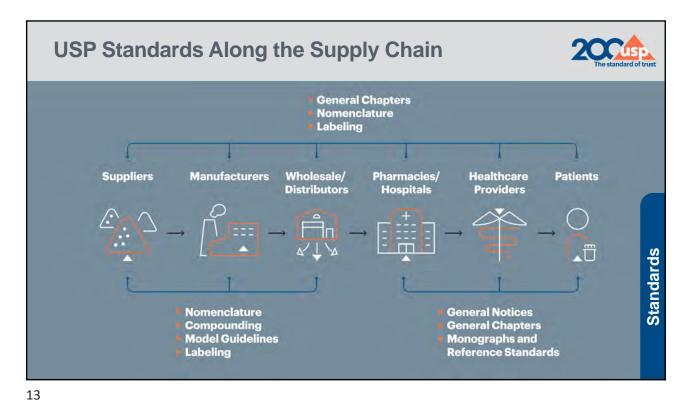


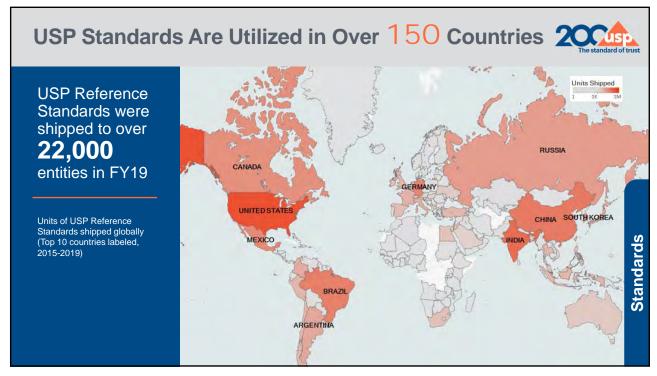


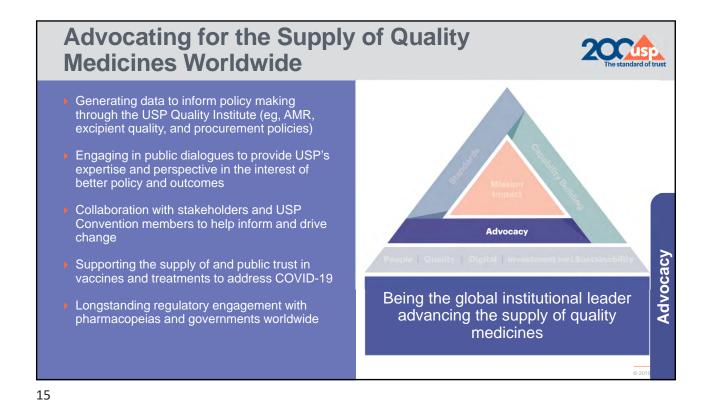
# Responding to Today's Public Health Challenges Through Coordinated Standards, Advocacy, and Capability Building ▶ Standards: To be a definitive source of standards for the supply of quality medicines ▶ Advocacy: To be the global institutional leader advancing the supply of quality medicines Mission Impact ▶ Capability Building: To be a leading provider of services that Advocacy advance the supply of quality medicines to improve the health and well-being of people and patients

More Than 9,000 USP Standards Provide Quality **Benchmarks Across the Supply Chain** > Standards for medicines, excipients, and APIs in **USP-NF** - 350 General Chapters - 4,900 product-specific monographs - 3,500 physical reference standards Reference ▶ More than 1,200 standards for dietary supplements in the Dietary Supplements Compendium (DSC) USP-NF ▶ Nearly 1300 standards for Food Ingredients in *Food* Chemicals Codex (FCC) More than 500 standards for biologics ▶ About 300 Healthcare Quality & Safety Standards, including compounding, nomenclature and labeling, safety, etc

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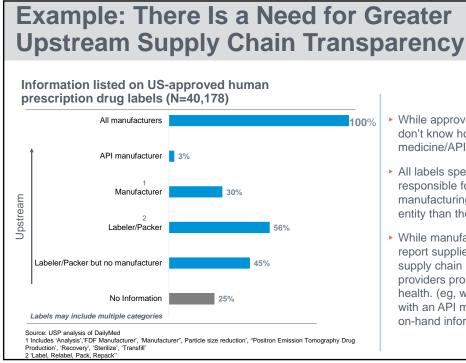
Our Global Engagement and Advocacy Is Powered By More Than 490 USP Convention Organizations

\*\*Restauration\*\*

\*\*Russia\*\*

\*\*Description\*\*

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- While approval information is known, we don't know how many are manufacturing the medicine/API
- All labels specify the ANDA filer, an entity responsible for the drug's quality. However, manufacturing is often done by a different entity than the filer
- While manufacturers are required and do report suppliers to US FDA, also sharing supply chain information publicly could help providers proactively safeguard patient health. (eg, when a safety issue is identified with an API manufacturer, providers will have on-hand information about impacted brands.)

17 © 2019 USP

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# We Are Generating Proactive Insights on **Risk in the Upstream Supply Chain** ▶ We created the USP Medicine Supply Map as an early warning system to identify, characterize, and quantify risk in the upstream pharmaceutical supply chain Data model links across 10+ datasets and dozens of data elements, including USP's proprietary insights ▶ "In-the-field" data gathering, including through USP's subject matter expert network ▶ More than 1 million medicines globally included Graph-based data model is capable of Dot Color key tracking quality issues up the supply chain **PRODUCT** COMPANY

### **Education, Training, and Verification Services to Build Stakeholder Capabilities in Advancing Medicines Quality** Helping global regulators and manufacturers acquire the required skills, knowledge, tools or enabling environment to advance access to quality medicines and medical products Verification services for industry (eg, dietary) supplements, excipients) Facilitating the adoption of new manufacturing Capability Building technologies (eg, continuous manufacturing) Custom tailored standards and tools for analytical research & development (eg, impurities) Being a leading provider of services that advance the supply of quality medicines Donor-funded work to support regulatory and to improve the health and well-being of industry capability building in LMICs people and patients

Building Trust in COVID-19 Vaccines
Through Quality

# **COVID-19 Vaccine – Learning About Trust** and Confidence ▶ Reagan-Udall Foundation for the FDA conducted the COVID-19 Vaccine Confident Project in 2020 to identify gaps in trust and patient confidence in vaccines Communities interviewed - Frontline workers in service, retail, and health care - Under-represented communities who experience health disparities and are at increased risk of COVID-19 (eg, Black or African American, Hispanic/Latinx, and Native/Indigenous communities Source: Reagan-Udall Foundation for the FDA

# **Areas of Identified Gaps That Impact Public Trust and Confidence**

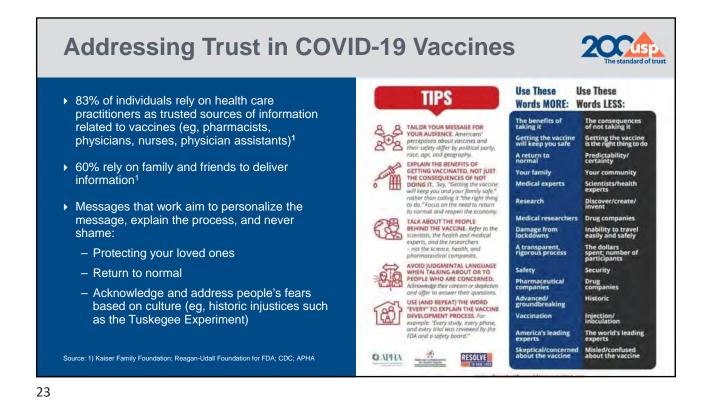
2000s

- ▶ Lack of equity and access to vaccines
- Speed of EUA process
- Distrust of government
- ▶ Distrust of health care system
- Need for education and communication to bridge the knowledge gap with new vaccine platforms and assurance of quality
- Perceptions of prioritizing economics over science
- Concern the vaccine will not work for certain communities

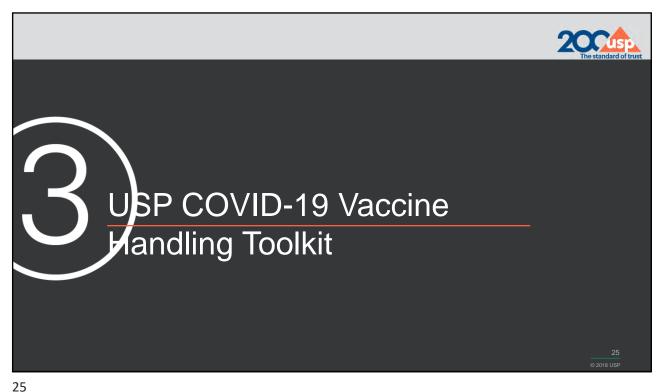
Source: Reagan-Udall Foundation for the FDA; CDC Equity Task Force



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- - Quickly developed by over 40 independent expert volunteers led by USP's Healthcare Safety and Quality Expert Committee with representation from several other Expert Committees including government representatives from the Centers for Disease Control and Prevention (CDC) and the US Food & Drug Administration (FDA)
  - USP is engaging with manufacturers that are anticipated to enter the marketplace to update our toolkit to launch new versions in tandem with regulatory approval
- Reaching our stakeholders
  - USP will push content out through convention membership, government representatives, including CDC website, HQS listserv, and media
  - Initial engagement numbers (version 3 launched 3/12)
    - > 38,000 page views (average time spent = 7:43 minutes)
    - > 15,000 downloads

"Using the strategies from the USP COVID-19 Vaccine Handling Toolkit for predrawing syringes and streamlining our processes and workflow we increased COVID-19 vaccine shots in arms by 50% per day," -Dr. Patricia Slattum, Vaccine Administrator at Virginia Medical Reserve Corp & Virginia Commonwealth

Thank you Dr. Slattum for sharing how the USP COVID-19 Vaccine Handling Toolkit has helped increase access to #COVID19 vaccines in your community. https://bit.ly/2ZvhlGc



(66) We increased COVID-19 vaccine shots in arms

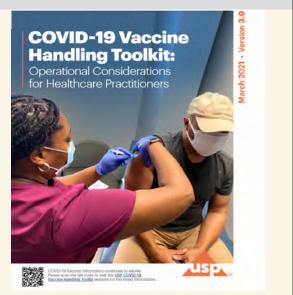
by 50% per day. Patricia W. Slattum, Pharm.D., Ph.D., BCGF

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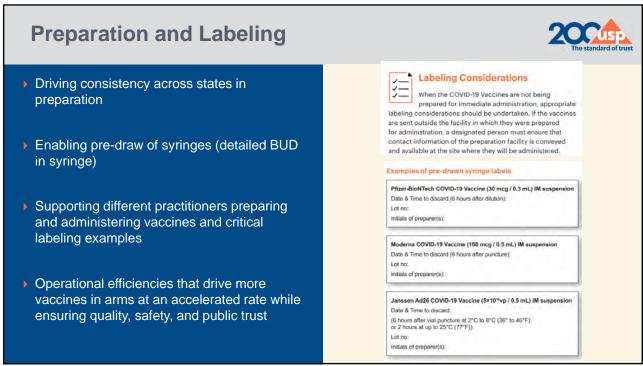




- Empowers practitioners with critical information that facilitates operational efficiencies during the handling of COVID-19 vaccines while preserving quality and safety
- Includes operational strategies in three key
  - Preparation and labeling
  - Storing, handling, and transporting vaccine
  - Waste minimization and ancillary supply disposal



https://www.usp.org/covid-19/vaccine-handling-toolkit



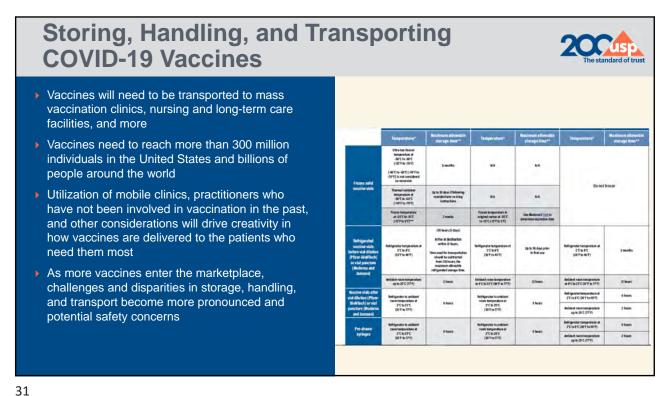
Seyond-Use Date in Vial and Syringe for COVID-19 Vaccines

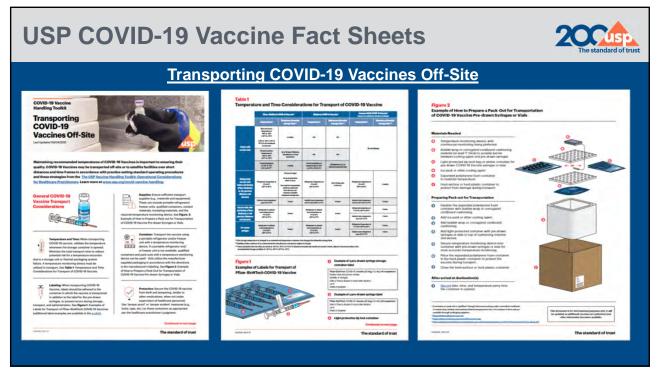
Beyond use date

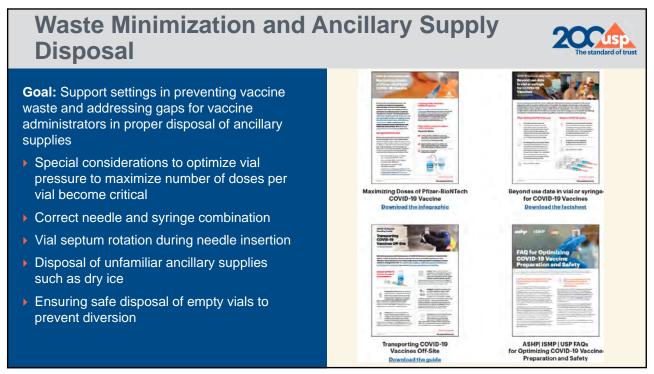
In vial or syringe for COVID-9

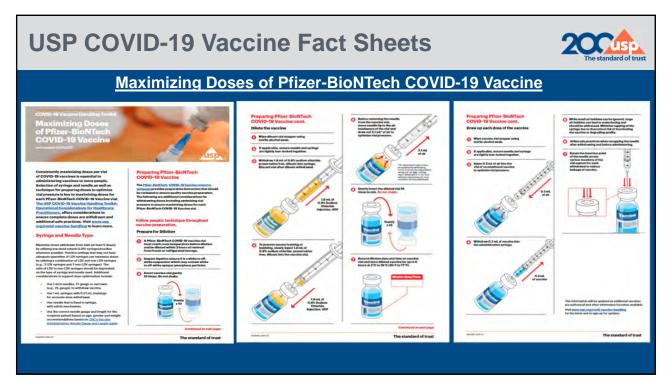
Vaccines

Vaccine









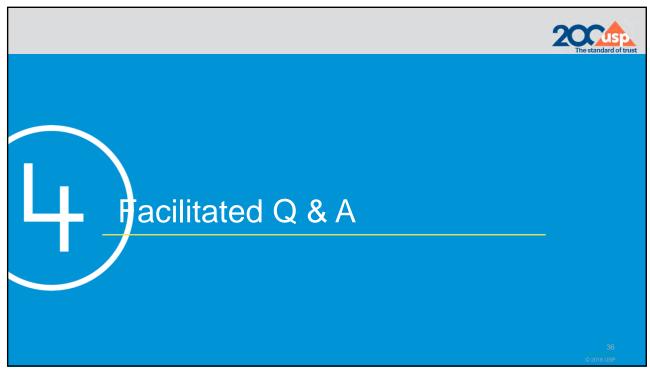
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