

## Overview

- What are the challenges, threats, and risks?
- What's needed?
- What's FDA doing?

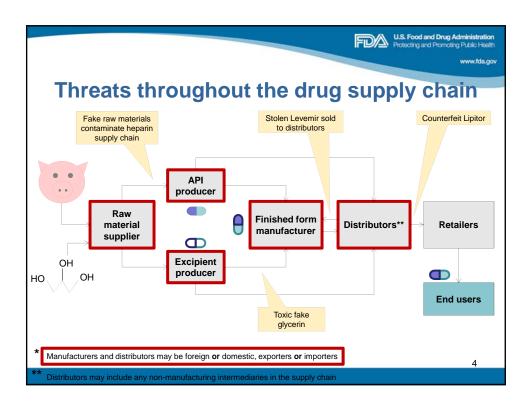


## Global supply chain challenges

- Increased number of individuals, producers, and companies geographically dispersed
- · Longer, complex supply chains
- Product mobility
- Growing availability of distribution channels for products (e.g. Internet)
- Intentional adulteration and counterfeiting for economic or other reasons
- Prevalence of substandard drug components
- Increasing data integrity concerns
- Weak regulatory systems and oversight

3

U.S. Food and Drug Administration
Protecting and Promoting Public Health





#### What's needed?

- Coordinated, strategic, global approaches
- New tools legal/regulatory/enforcement
- Stronger global standards and convergence
- Leverage resources globally
- More.....

5



## Supply chain integrity strategy

- Prevention
  - Focus on securing legitimate supply chain
  - Ensure transparency and accountability
  - Understand, mitigate, and contain the risks
  - Enhance regulatory and legal infrastructure
- Detection
  - Increase surveillance
  - Improve information sharing
  - New tools
- Response
  - Enhance enforcement activities and tools
- Foundational
  - Improve vigilance and awareness
  - Increase global cooperation/coordination



#### **New authorities**

- FDASIA Title VII Food and Drug Administration Safety and Innovation Act (2012)
  - Supply chain authorities
- DSCSA Drug Supply Chain Security Act (2014)
  - Drug Quality and Security Act (Title II)
  - Track and trace system

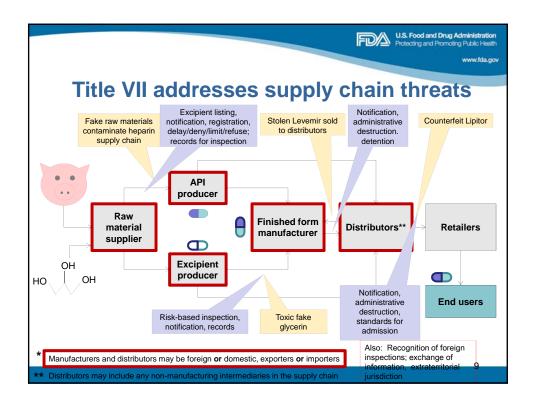
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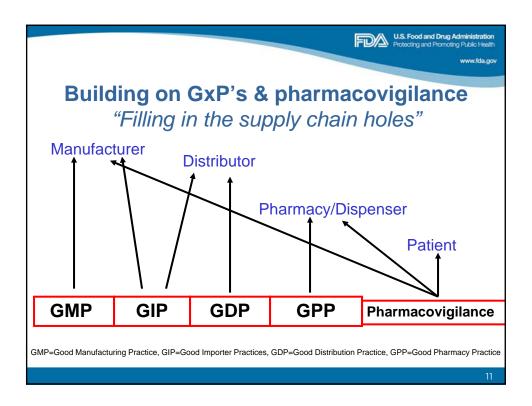
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# FDASIA Title VII: Why it's important

- Allows FDA to collect more comprehensive, accurate and timely information
- Helps level the playing field for foreign and domestic manufacturers
- Allows for better coordination with foreign counterparts
- Helps ensure safer drugs by giving FDA critical new tools to protect the integrity of the global supply chain
- Accelerates FDA's transformation to an agency fully prepared for a rapidly changing global environment



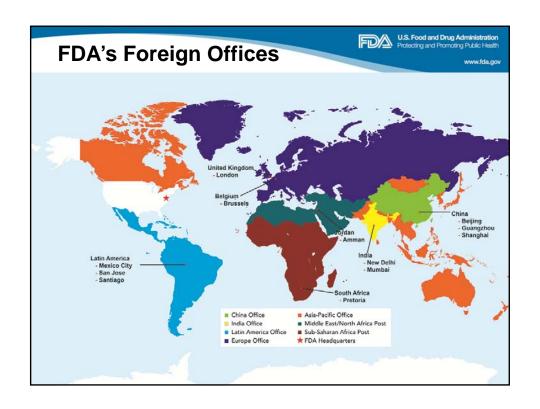






## FDA's changing operating model

- Increased presence overseas
- Reorganized
  - Global inspectorate
  - Program alignment
  - Quality focus







## Regulatory system strengthening

- A strong regulatory system is key for each country's public health, national security, and economic viability
  - Promote access to safe, effective, quality medicine
- IOM Report: Strengthening Regulatory Capacity
  - IOM identified gaps and strategies
  - IOM identifies several core elements of a regulatory system: responsive, outcome-oriented, predictable, risk-based or proportionate, and independent
- World Health Assembly resolution (2014)

15



## **Efforts in emerging markets**

- · Recognition of special concerns
  - Data integrity
  - Substandard/counterfeits
- Inspections
- · Capacity building and technical assistance
- Outreach



## Final thoughts....

- Significant challenges, threats, and risks to the global drug supply
- Supply chain vigilance and due diligence is essential
- Global coordination and cooperation is imperative
- We (FDA, industry, other regulators) must continue to evolve to meet new demands and challenges

17



## Thank you !!!

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