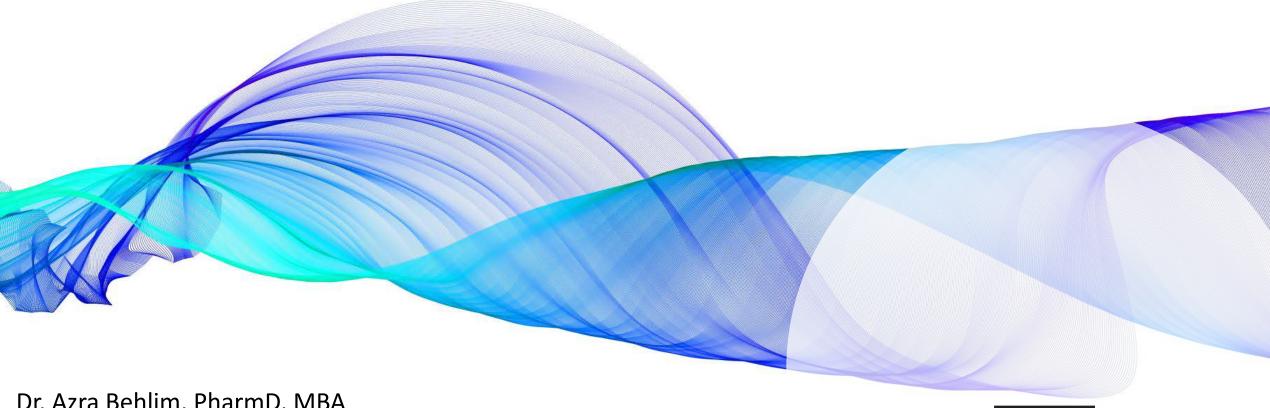


#### Illinois Council of Health-System Pharmacists

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## The Certainty of Uncertainty for Global Supply Chain



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### The Certainty of Uncertainty for Global Supply Chain

#### Learning Objectives:

- 1. List the types of supply chain models used in the US for direct product delivery.
- Identify the challenges and best practices for supply chain management at direct delivery care sites.

# Which of the following would help to reduce uncertainty at a site's supply chain?

- A. Relationships with local distributors
- B. Regular updates on drug shortages from the FDA
- C. Routine review of inventory levels at the wholesaler
- D. Risk mitigation strategy that accounts for 'hi' and 'low' scenarios
- E. None of the above

## Types of Supply Chain Models

Manufacturer => Customer

Manufacturer => Distributor => Customer

Manufacturer => Distributor (electronic mgt)

=> Physical product distribution (drop-ship)

Manufacturer => US Govt. => States

Manufacturer => Patient

\*States => local distributors; private distributors; local health depts.



Plants that are registered with the US to supply active pharmaceutical ingredients can be found all over the world.



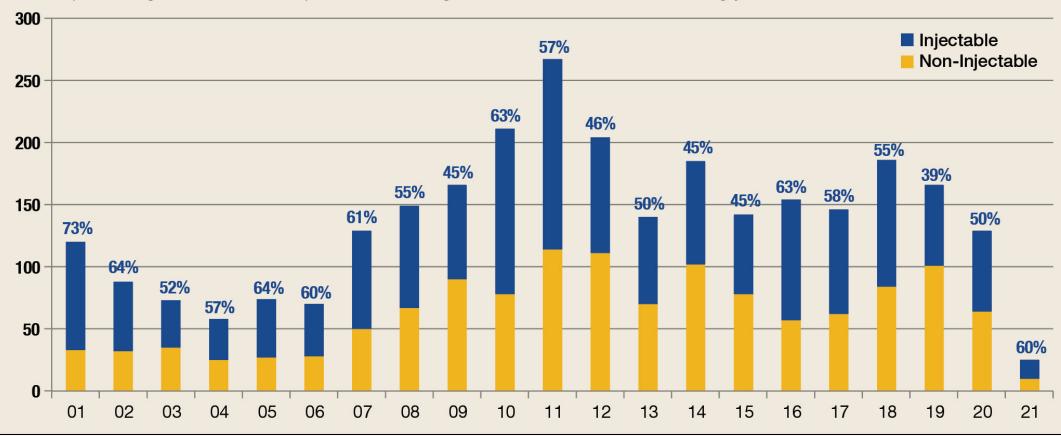


#### FIGURE 1

#### **National Drug Shortages - New Shortages by Year**

#### January 2001 to March 31, 2021, % Injectable

Historically, generic injectable drugs accounted for about half of new shortages. While there was a decrease in this percentage for 2019, these products once again returned to 50% the following year.



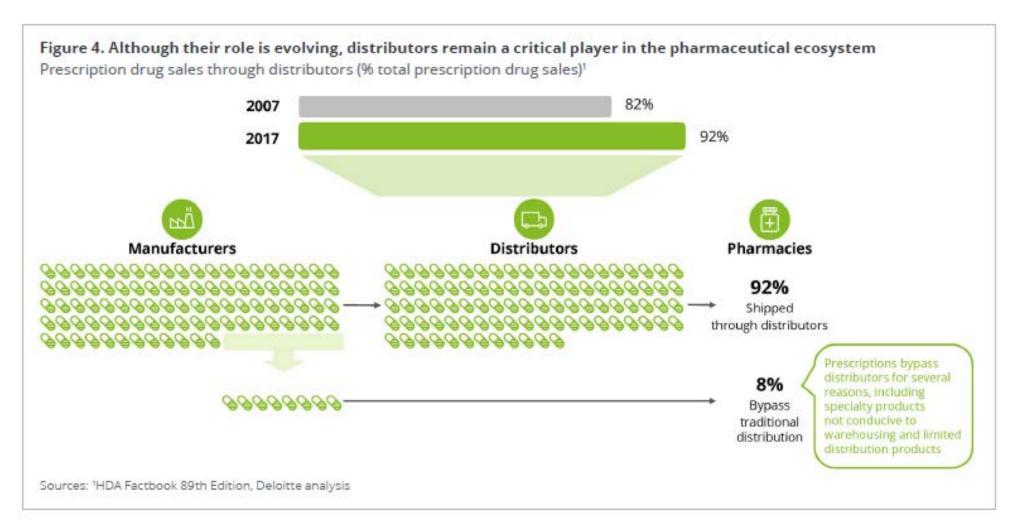
Note: Each column represents the number of new shortages identified during that year.

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## **Evolving Role of Distributors**



## Challenges in Current Supply Chain Models

- Antiquated Technology
  - Platforms
  - Infrastructure
- Transportation Network
- Drug Supply Shortages
- Panic Buying
- Lack of Risk Mitigation Plans
- Frequent Changes in management at customer sites



## Supply Chain Management: Best Practices

- Reliable IT infrastructure
- Quality and repeatable data to refine inventory
- Risk mitigation plans that account for "hi" and "low" factors
- Training and reference resources for all staff.

## Which of the following is not a supply chain model used in the US for pharmaceuticals?

- A. States direct to pharmaceutical manufacturer
- B. Pharmaceutical manufacturer direct to customer site
- C. Federal government to states
- D. Pharmaceutical manufacturer direct to distributor
- E. Pharmaceutical manufacturer direct to patient

## Questions?

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