

FDA Drug Topics: Enhanced Drug Distribution Security 2023 and Beyond

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Objectives

- Summarize updates on implementation of supply chain security requirements under the Drug Supply Chain Security Act (DSCSA)
- Describe requirements that go into effect in 2023 for enhanced drug distribution security
- Explain how enhanced drug distribution security will help protect patients from exposure to drugs that may be counterfeit, stolen, contaminated, or otherwise harmful

Counterfeit version of Symtuza in the U.S.



Symtuza tablets (Janssen/Johnson & Johnson)

- Symtuza (darunavir/cobicistat/emtricitabine/ tenofovir alafenamide) is indicated for the treatment of HIV in adults and adolescents aged 12 or over.
- Three pharmacies involved bought counterfeit versions from distributors that had not been authorized by Janssen.
- Janssen Symtuza should be purchased from authorized distributors to ensure authentic and safe drugs are received.
- HIV patients that receive a counterfeit are at risk of treatment failure.



Threats to the Supply Chain





The Drug Supply Chain Security Act (DSCSA) Goals

1. Implement interoperable, electronic tracing of products at the package level by 2023 that will:

Enable secure tracing of product at the package level Use product identifiers to verify product at the package level Enable prompt response to suspect and illegitimate products when found

Improve efficiency of recalls

2. Establish national standards for licensure for wholesale distributors and third-party logistics providers (3PLs)



How DSCSA Protects Patients

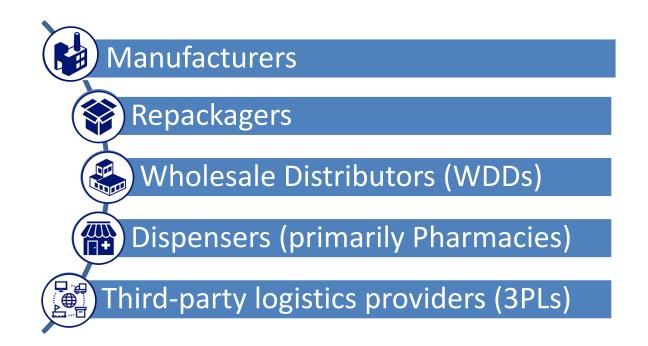
Prevent harmful drugs from entering the supply chain.



Respond rapidly when harmful drugs are found.



Trading Partners under DSCSA





Products

• What's covered:

- Prescription drug in finished dosage form for administration to a patient without further manufacturing (such as capsules, tablets, lyophilized products before reconstitution)
- What's <u>not</u> covered:
 - Blood or blood components intended for transfusion
 - Radioactive drugs or biologics
 - Imaging drugs
 - Certain IV products
 - Medical gas
 - Homeopathic drugs
 - Lawfully compounded drugs

Transactions

- Involve transfers of product where a *change of ownership* occurs
- Excludes:
 - Intracompany distributions
 - Distribution among hospitals under common control
 - Public health emergencies
 - Dispensed pursuant to a prescription
 - Product sample distribution
 - Blood and blood components for transfusion
 - Minimal quantities by a licensed pharmacy to a licensed practitioner
 - Certain activities by charitable organizations
 - Distributions pursuant to a merger or sale
 - Certain combination products
 - Certain medical kits
 - Certain IV products
 - Medical gas distribution
 - Approved animal drugs

Refer to the definition for "transaction" in section 581(24) of the FD&C Act for specific information regarding exclusions.

Refer to the definition for "product" in section 581(13) of the FD&C Act for specific information regarding exceptions.

Investigate and properly handle suspect and illegitimate products



Suspect Product: *reason to believe* that product potentially is:

- counterfeit, diverted, stolen
- subject of fraudulent transaction
- intentionally adulterated or appears otherwise unfit for distribution such that the product would result in serious adverse health consequences or death to humans

Illegitimate Product: *credible evidence* shows that the product is:

- counterfeit, diverted, stolen
- subject of fraudulent transaction
- intentionally adulterated or appears otherwise unfit for distribution such that the product would result in serious adverse health consequences or death to humans



The DSCSA Path

3PL &Product
Tracing &
Verification**3PL &**Authorized**Distributor**
reporting to
FDAAuthorized
Trading
Partners
20152014-2015For the second s

Product Identification (Serialization) 2017-2018

El Product Inte Verification (down to package level) 2019+ pac

Electronic, Interoperable System (product tracing down to package level) 2023

Licensure standards for 3PLs and wholesale distributors

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Key DSCSA Requirements*

2015

Authorized Trading Partners

- Manufacturers and Repackagers: valid registration with FDA
- WDDs & 3PLs: valid State or Federal license and compliance with reporting requirements
- Dispensers: valid State license

2015

Verification

- Quarantine and investigate suspect product
- Investigation illegitimate product
- Notify FDA and trading partners of illegitimate product
- Response to verification requests
- Store records

Product Tracing

• Lot-level

2015

- Provide and received transaction documentation with each sale
- Respond to request for information
- Store records
- Paper and electronic formats

2018

Product Identification (Serialization)

- Manufacturers & repackagers encode product identifiers on prescription drug packages on the smallest individual saleable unit
- Product Identifier (National Drug Code (NDC), Serial Number, Lot, Expiration Date)

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*The requirements under section 582 of the FD&C Act apply to manufacturers, repackagers, wholesale distributors, and dispensers (pharmacies).

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Trading Partners must be Authorized

Manufacturers and Repackagers

- Have valid registration with FDA
- Check FDA's drug establishment current registration site database (DECRS)

WDDs and 3PLs

- Have valid State or Federal license and compliance with reporting requirements
- Check FDA's WDD/3PL database

Dispensers (Pharmacies)

- Have valid State license
- Check respective state authorities

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Verification Requirements

Quarantine and Investigate	Suspect prescription drugs to determine if illegitimate		
Investigation	 Must include validating applicable transaction information and transaction history Once product is serialized, trading partners will need to verify lot number and product identifier 		
Notify	If the product is illegitimate, notify FDA and certain immediate trading partners within 24 hours		
Respond	If the product is illegitimate, work with manufacturer to take steps to prevent it from reaching patients		
Store	Store records of investigation of suspect product and the disposition of illegitimate product for at least 6 years		

Compliance Policies Guidance



Wholesale Distributor Verification Requirement for Saleable Returned Drug Product and Dispenser Verification Requirements When Investigating a Suspect or Illegitimate Product— Compliance Policies

Guidance for Industry

This guidance is for immediate implementation.

FDA is sisting this guidance for immediate implementation in accordance with 21 CFR 10.115(g)(2). Submit one set of either electronic or written comments on this guidance at any time. Submit electronic comments to <u>https://www.requilations.gov.</u> Submit written comments to the Dockets Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm 1061, Rockville, MD 20852. You should identify all comments with the docket number listed in the notice of availability that publishes in the *Federal Registor*.

For questions regarding this document, contact (CDER) Office of Compliance at 301-796-3130, drugtrackandtrace/fitlia his gov, or (CBER) Office of Communication, Outreach and Development at 800-833-4709 or 240-402-8010.

> U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER) Center for Biologics Evaluation and Research (CBER) Office of Regulatory Affairs (ORA)

> > October 2020 Procedural

- Published October 2020
- Provided <u>three</u> additional years to comply with these requirements
 - Aligns with statutory requirements for all trading partners effective November 27, 2023, for secure, interoperable, electronic tracing of products at the package level

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Notify FDA if you have Illegitimate Product

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration Drug Notification				Expi	Form Approved: OMB No. 0910-0806 Expiration Date: January 31, 2022 See PRA Statement on page 2.	
	Refer to instru	ction sheet (Form	n FDA 3911 Supplement)	for more info	rmation.	
1. Type of Report (S	Select one):	Initial Notification	n 🗌 Follow-Up No	tification	Request for Termination	n
2. Incident Number Request for Termin	(Provide this number, a ation above; see instruc	ssigned by FDA, if tions.)	f you selected Follow-up No	dification or		
3. Date of Initial Not (mm/dd/yyyy)	ification to FDA	4. Date Compan Illegitimate (mm)	iy Determined Product Was /dd/yyyy)	5. Classific from list)	ation of Notification (Select	×
Description of Pro	duct			-		
8. Name of Product	as It Appears on Label					
7. Primary Ingredier	its(s) (if known)					
8. Drug Use (Select	from list)		9. Drug Description (Sele	ect from list)		
10. Strength of Drug	1		11. Dosage Form (S	elect from list)		
12. Quantity of Drug	g (Number and Unit)	13. NI	DC Number (if applicable)	14. Serial N	umber (if applicable)	
15. Lot Number(s)						
16. Expiration Date((s)					
17. For Notification:	Description of Event/Is	sue				
18. For Request for	Termination of Notifical	ion: Description of	why notification is no longe	er necessary	Add Page for Ite	m 17

Notify FDA within 24 hours using Form FDA 3911

Notify other trading partners within 24 hours

Request notification termination using Form FDA 3911

https://www.accessdata.fda.gov/scripts/cder/email/drugnotification.cfm

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Product Tracing Requirement

Receive	When buying, only accept prescription drugs with product tracing information: (1) Transaction Information (TI) (2) Transaction History (TH) (3) Transaction Statement (TS)	URRENTLY OT-LEVEL
Provide	Generate and provide product tracing information with each transaction if you sell a prescription drug to another trading partner.	OT-LEVEL AND IN PAPER OR ELECTRONIC FORMATS
Respond	Respond to a request for information in the event of a recall or to investigate a suspect or illegitimate product.	IN 2023, CHANGES TO PACKAGE-
Store	Store product tracing information you receive in paper or electronic format for at least 6 years.	LEVEL TRACING AND ALL ELECTRONIC
Return	Return product to the trading partner that you bought the drug from.	ELECTIV

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Product Identifier Requirement (Serialization)

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Product Identifier

National Drug Code (NDC) Serial Number Lot Number Expiration Date

- Human and machine readable formats
- 2D data matrix barcode for packages
- Linear or 2D data matrix barcode for homogenous cases

NDC: XXXX-XXXX-XX SERIAL: XXXXXXXX LOT: XXXXXXX EXP: YYYY-MM-DD



Manufacturers/Repackagers

- Encode product identifiers on prescription drug packages (November 2018)
- Determine smallest individual saleable unit

Verification requirements change once products are serialized with product identifier

Packages Without Product Identifiers



Excluded Products	Not all prescription drugs are required to have a product identifier and are excluded.	
Grandfathered	Some products were in the supply chain before the product identifier requirement took effect.	
Waiver, Exception, or Exemption	Some products were granted a waiver, exception, or exemption from the product identifier requirement.	
If you are unsure whether a product should have a product identifier, verify with the manufacturer or repackager.		

2023 Requirements

2018+

Verification

- Saleable returns
- Serialized product can be verified down to the package level using the product identifier
- Compliance policies issued that provides additional time

2023+

Enhanced Drug Distribution Security Requirements

- All electronic
- Enhanced verification at the package level using the product identifier
- Enhanced product tracing at the package level (i.e., includes product identifier)

2023 & Beyond Enhanced System

- Enhanced drug distribution security
- Across the pharmaceutical supply chain
- Improved inspections and investigations
- Improved data analytics
- Continued compliance and enforcement

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2023 Enhanced Drug Distribution Security Effective 11/27/2023



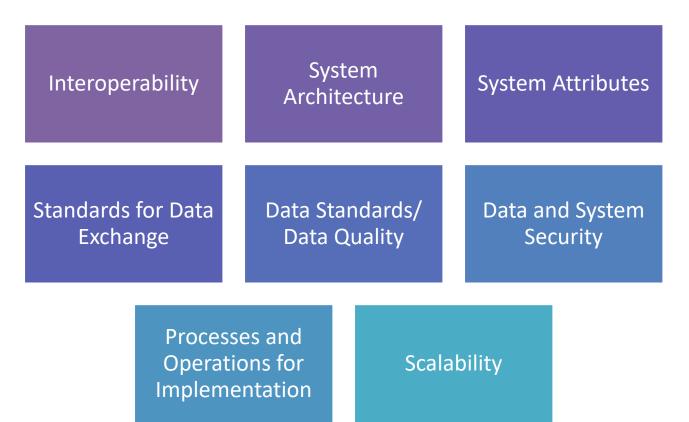
- TI and TS will be exchanged in a secure, interoperable, electronic manner...
- TI will include the product identifier at the package level for each package included in the transaction.
- Systems and processes for verification of product at the package level, including the standardized numerical identifier...which may include the use of aggregation and inference as necessary.
- Systems and processes necessary to promptly respond with the TI and TS for a product upon a request by FDA (or other appropriate Federal or State official) in the event of a recall or for investigating a suspect product or an illegitimate product
- Systems and processes necessary to promptly facilitate gathering the information necessary to produce the TI for each transaction going back to the manufacturer, as applicable (upon a request by FDA...or an authorized trading partner...)
- Systems and processes in place to allow acceptance of saleable returns and only if such person can associate the saleable return product with the TI and TS associated with that product.

Refer to section 582(g)(1)(A)-(F) of the FD&C Act for the full text of each provision.

www.fda.gov

Important Issues





What's Next for FDA



Focus on 2023 Enhanced Drug Distribution Security (Effective 11/27/2023)

- Develop the electronic, interoperable system ("Enhanced System") across the pharmaceutical distribution supply chain
- Guidances for Industry
- **Regulations** (Proposed Rule for Standards for Licensure for Wholesale Distributors/3PLs)
- Compliance and Enforcement
- Stakeholder Engagement
 - DSCSA Pilot Project Program
 - Public Meeting December 8-9, 2020 Reminder: docket for public comment closes 6/22/2021
 - PDG Public Private Partnership
 - More public meetings

Updates: Guidances



• New Draft or Revised Draft Guidances

- Wholesale Distributor Verification Requirements for Saleable Returned Drug Product and Dispenser Verification Requirements When Investigating a Suspect or Illegitimate Product – Compliance Policy
- Definitions of Suspect Product and Illegitimate Product under the Drug Supply Chain Security Act; Revised Draft
- Verification Systems Under the Drug Supply Chain Security Act for Certain Prescription Drugs; Revised Draft
- Identifying Trading Partners under the Drug Supply Chain Security Act; Revised Draft
- Enhanced Drug Distribution Security at the Package Level Under the Drug Supply Chain Security Act

Source: CDER Guidance Agenda at <u>https://www.fda.gov/media/134778/download</u>

• Finalize other draft guidances



Trading Partner Readiness

Focus on 2023 Enhanced Drug Distribution Security (Effective 11/27/2023)

- Develop the electronic, interoperable system ("Enhanced System") across the pharmaceutical distribution supply chain
 - Review trading partners requirements in section 582 for enhanced product tracing and verification
 - Work towards enhanced system requirements that go into effect in 2023
 - Pilot, test and refine processes and systems

Stay Involved!

- Participate FDA public meetings
- Attend trading partner and stakeholder conferences
- Engage in trading partner and stakeholder working groups
- Partner in supply chain coalitions

FDA Resources



• DSCSA main webpage

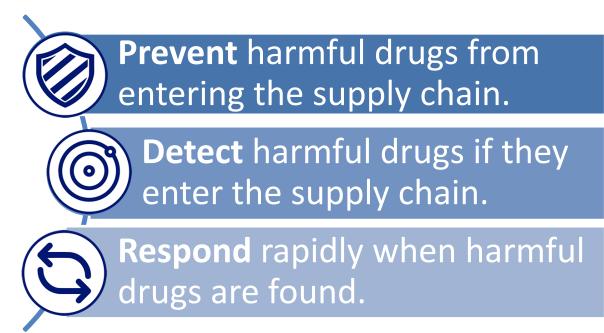
https://www.fda.gov/Drugs/DrugSafety/DrugIntegrityandSupplyChainSecuri ty/DrugSupplyChainSecurityAct/default.htm

• DSCSA regulatory documents (i.e., regulations, guidances, federal register notices)

https://www.fda.gov/Drugs/DrugSafety/DrugIntegrityandSupplyChainSecuri ty/DrugSupplyChainSecurityAct/ucm424963.htm



How DSCSA Protects Patients





Questions?

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