



Pharmaceutical Serialization and Traceability system in South Korea

Progress and Status of national pharmaceutical serialization system

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About KPIS(Korea Pharmaceutical information service)



Manages Standard data carriers

Collection & Management
of Pharmaceutical distribution information

The Serialization of all prescription drugs
within an established system

An information hub for pharmaceutical logistics,
the Korea Pharmaceutical Information Service



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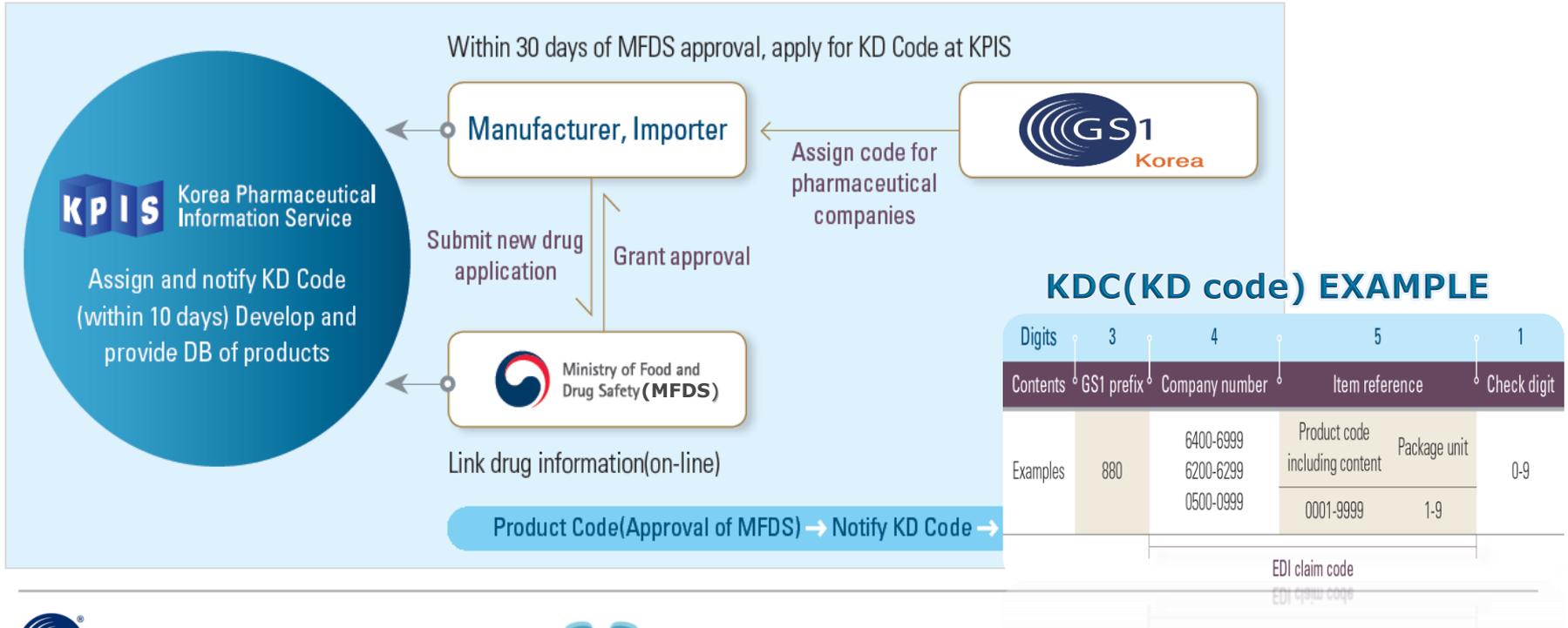


- Pharmaceutical information Standardization in South Korea
 - KD code
 - Data Carrier Requirements
 - Classification by Drugs category
- National pharmaceutical Serialization system
- Traceability system

KD code (GTIN)



- National trade item numbering system



Data Carrier Requirements



- All drugs distributed in Korean market are required to have **Global Standard barcodes** or **RFID tags** which encode the **KD Code**.

	Barcode	RFID tag
Principle		
Coding Structure	GTIN/ GS1 Application Identifiers	SGTIN-96 / SGTIN-198
Company Usage Rate	96.5%	3.5% (*used by 16 companies)

Classification by Drugs category



Category	OTC drugs	ETC drugs (Prescription drugs)
Data	KDC(GTIN)	KDC (GTIN) +Expiration date/Batch number / Serial number*
Symbology	 (01)08806411123459 GS1-DataMatrix or  8 806411 123459 EAN-13	(10)Q12345(21)123456789  (01)08806411123459(17)171231 GS1-DataMatrix or  (01)08806411123459(17)171231(10)Q12345(21)123456789 GS1-128

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Progress

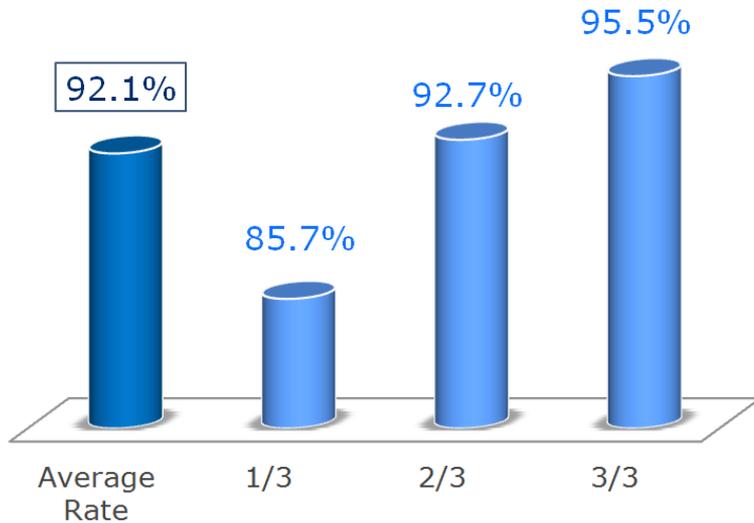


phase	I	II	III
Reporting system	Report at the time of shipping Allowed to report by the end of next month	Report at the time of shipping	Report at the time of shipping (※ Apply administrative measures when violated)
Pharmaceuticals	Jan. 2016 – Jun. 2016	From Jul. 2016	From Jan. 2017
Wholesaler	Jan. 2016 – Jun. 2017	From Jul. 2017	From Jan. 2018

※ Base date for report is 'the date of supply'

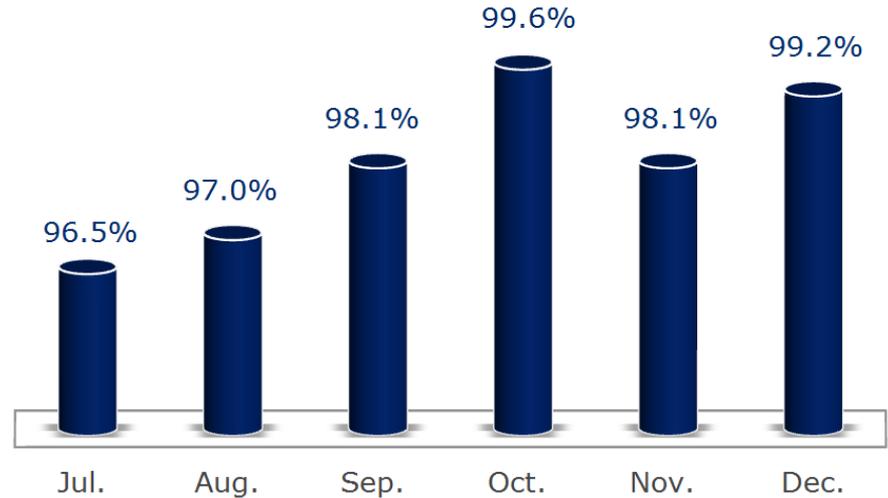


Serialization on ETC drugs in 2016

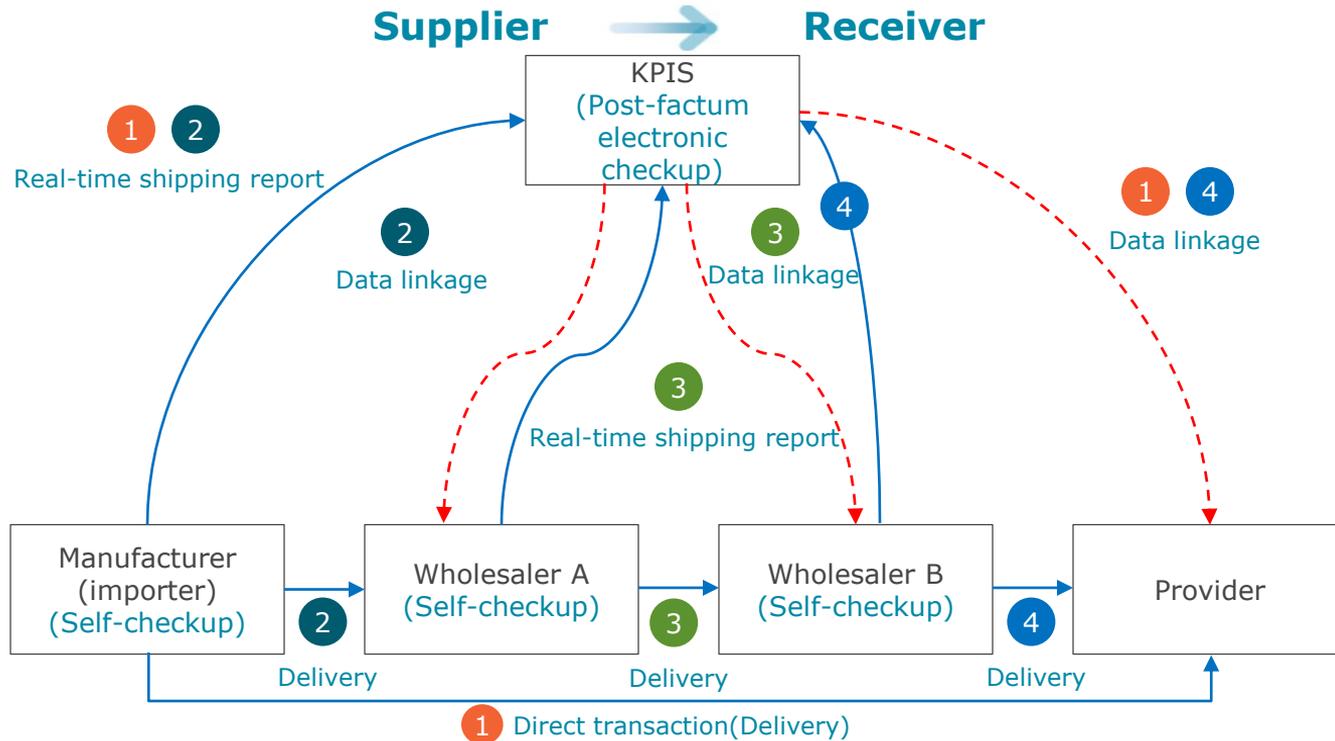


Registration of supply records with serial number

■ Participation Rate(%) of pharmaceutical companies in 2016



Data linkage



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- Traceability system
 - Utilization
 - Benefits of the pharmaceutical industry
 - AG data linkage service
 - Safety check service (Under plan)

Information Utilization

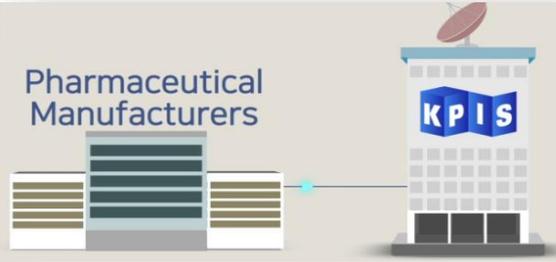


Benefits of Pharmaceutical industry



Manufacturer/Importer

(approx. 460 companies)



Distributor

(approx. 2,000 companies)



Hospital/Pharmacy



- Prove a Product Authentication
- Protect company brand and reputation
- Efficient recall process

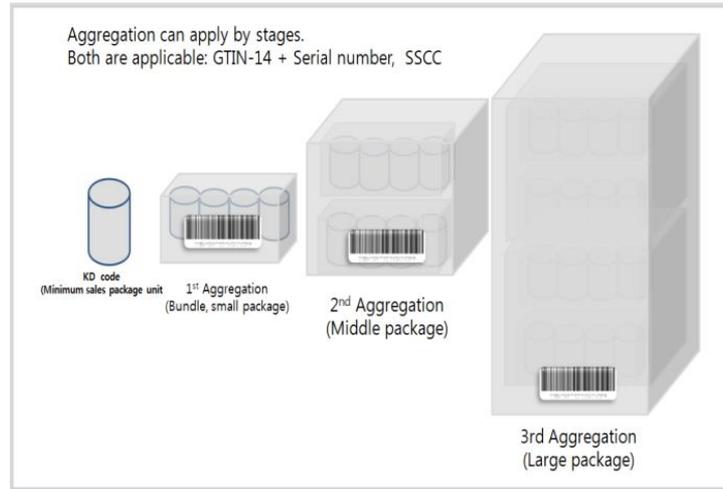
- Effective logistics management
- Easy to get data on the delivered medicine packages
- Easily detect drugs to be recalled

- Build trust with patients
- Eliminates counterfeit and illegal medicines
- Easy expiry data management
- Accurate inventory control

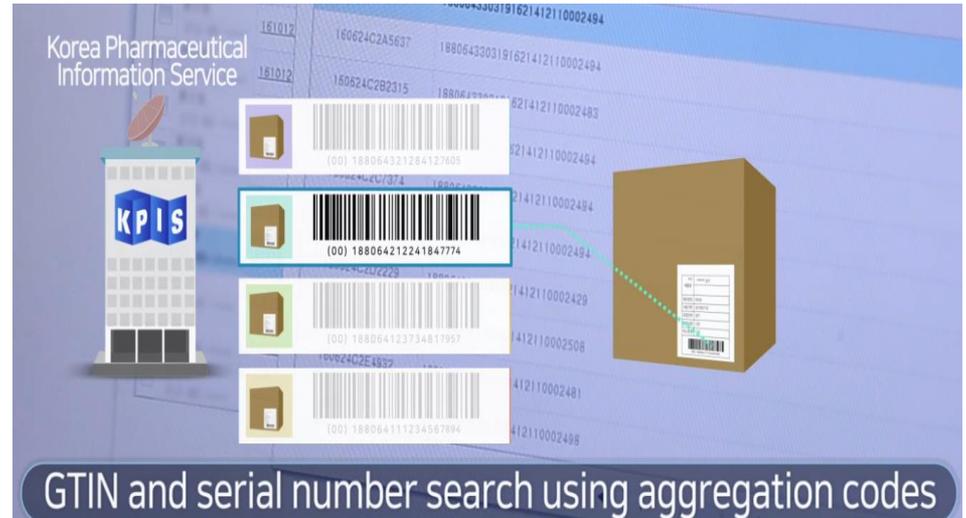
AG Data linkage service (On-going)



- Provide each serial number when AG(aggregation) barcode scanning
 - Only when the supplier register of AG data on the package



< Pharmaceutical aggregation units >



Safety check service (Under plan)



- Drug information lookup through Mobile application software



Drug information searching	
Product Name	000
GTIN	8806411123457
Prescription / General	00000
Classification Number	[578] fever reducer
Serial Number	123456
Expiration Date	2018-12-31
Batch Number	Q160101
Recent Buyer	drugstore
Recall Check	N

Contact Information



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