

UDI: Implementation and Application

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Presented to CIMDR

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US FDA UDI Rule

US FDA UDI Final Rule passed September 2013

The UDI Rule was established to:

- Facilitate the rapid and accurate identification of all devices
- > Improve the process for device recalls
- Standardize device labeling and identification for electronic health records, clinical information systems, claims data sources and registries
- Allow all stakeholders to access important device information



US FDA UDI Rule: Compliance Dates

Date	Requirement	
September 24, 2014	The labels and packages of class III medical devices and devices licensed under the Public Health Service Act (PHS Act) must bear a UDI.	
September 24, 2015	The labels and packages of implantable, life-supporting, and life-sustaining devices must bear a UDI.	
September 24, 2016	The labels and packages of class II medical devices must bear a UDI.	
	A class III device that is required to be labeled with a UDI must bear a UDI as a permanent	
	marking on the device itself if the device is a device intended to be used more than once and	
	intended to be reprocessed before each use.	
September 24, 2018	A class II device that is required to be labeled with a UDI must bear a UDI as a permanent marking on the device itself if the device is a device intended to be used more than once and intended to be reprocessed before each use.	
	The labels and packages of class I medical devices and devices that have not been classified into class I, class II, or class III must bear a UDI.	
September 24 , 2020	Class I devices, and devices that have not been classified into class I, class II, or class III that are required to be labeled with a UDI, must a bear UDI as a permanent marking on the device itself if the device is a device intended to be used more than once and intended to be reprocessed before each use.	



US FDA UDI Rule: Compliance Dates Enforcement Discretion

Date	Requirement	
September 24, 2020	FDA does not intend to enforce UDI labeling, GUDID Data Submission, and Standard Date requirements for Class I and unclassified devices manufactured and labeled on or after September 24, 2018.	
September 24, 2021	FDA does not intend to enforce UDI labeling, GUDID Data Submission, and Standard Date requirements for finished Class I and unclassified devices manufactured and labeled before September 24, 2018.	
September 24, 2022	FDA does not intend to enforce Direct Mark requirements for Class I and unclassified devices.	



EU Medical Device Regulation (MDR) Background

Two new Regulations (Regulation (EU) 745/2017 on medical devices and Regulation (EU) 746/2017 on In Vitro diagnostic medical devices) were adopted in April 2017 and entered into force on 25 May 2017.

These Regulations introduce an EU identification system for medical devices based on a Unique Device Identifier (UDI).

The UDI system will facilitate easier traceability of medical devices, significantly enhance the effectiveness of the post-market safety-related activities for devices and allow for better monitoring by competent authorities. It will also help to reduce medical errors and to fight against falsified devices.



EU MDR Compliance Dates

Date	Requirement	
May 26, 2020	End of transitional period. Date that regulation will apply fully.	
	Devices with existing certificates are valid until May 27, 2024.	
May 26, 2021	Implantable and Class III device labeling deadline	
May 26, 2023	Class IIa and Class IIb device labeling deadline	
	Direct marking of reusable implantable and Class III device deadline	
May 27, 2024	Maximum validity of existing certificates	
May 26, 2025	Class I device labeling deadline	
	Direct marking of reusable Class IIa and Class IIb device deadline	
	Any devices not in compliance in the supply chain that have not reached the end user are no	
	longer marketable and must be withdrawn.	
May 27, 2027	Direct marking of reusable Class I device deadline	

^{*}Note: Eudamed requirements may have an additional 18-month transitional period



What is a UDI?

A UDI is composed of the Device Identifier (DI) and the Production Identifier (PI).

The DI is the mandatory, fixed portion of the UDI. A HIBCC DI includes the following:

- ➤ Labeler Identification Code (LIC) Company Prefix assigned by HIBCC
- > Product/Catalog Code
- ➤ Unit of Measure (Package level indicator)

The PI is the variable, conditional portion of the UDI. A HIBCC PI may include one or more of the following:

- > Lot
- > Serial
- ➤ Manufacture Date
- > Expiration Date



Key Differences Between US FDA UDI and EU UDI

Minimal differences in labeling requirements. Majority of differences are in exceptions and database requirements.

- ➤ Basic UDI DI (EU MDR only, virtual identifier)
- ➤ Existing inventory exemptions (2025 for EU MDR / 3 years post UDI implementation date for US FDA)
- Location/form of UDI carrier on labeling of small packages (Only AIDC required for EU MDR / Both AIDC and HRI required, with exceptions, for US FDA)



What is an Issuing Agency?

US FDA accrediting three issuing agencies for the issuance of UDIs

- ➤ HIBCC, GS1, and ICCBBA
- Each issuing agency has an approved labeling standard
- All UDIs must be in one of the approved issuing agency formats



EU MDR Issuing Agencies

The European Commission has accredited four issuing agencies for the issuance of UDIs

- > HIBCC, GS1, ICCBBA, and IFA GmbH (geared towards pharmaceuticals)
- Each issuing agency has an approved labeling standard
- All UDIs must be in one of the approved issuing agency formats



HIBCC: An FDA and EU Accredited Issuing Agency

Industry-supported, internationally accredited nonprofit SDO with an exclusive healthcare focus.

Identified by the European Union (EU) and the International Medical Device Forum (IMDRF) in their Medical Device Regulation (MDR)

Accredited by ANSI, CEN, and ISO.









Common Myths Dispelled

Myth: Everyone should adopt a single bar code standard

- > There are no regulatory agencies that require a single standard for UDI compliance
- Scanners can read any bar code, regardless of standard

Myth: HIBCC is only in the US

- > The HIBC standard is accepted globally
- HIBCC has labelers across the world (<u>View list of labelers</u>)



HIBCC UDI Key Characteristics

Alphanumeric dataset means:

- > Largest set of possible identifiers
- > Literal encoding of existing product codes
- > No cross referencing, no duplicates, and codes never need to be reused

Labeler Identification Code (LIC) registration is a one-time fee. There are no recurring or annual costs to use the HIBCC system.

Accepted globally.

One LIC can be used to create all your UDIs.

To complete the LIC application visit www.hibcc.org.



Choosing an Issuing Agency

HIBCC

- > Alphanumeric
- ➤ Variable Length Product Codes
- ➤ Healthcare Specific Products
- ➤ One-time Fee

GS1

- ➤ Numeric Only
- ➤ Fixed Length Product Code
- > Retail Products
- > Annual Fees



HIBCC UDI Suite

Access HIBCC UDI Suite

Create, Calculate, and Confirm UDI Information with HIBCC's suite of cloud-based tools

Account Info

Logout

How do I create a UDI?

Create UDI

This on line utility will generate a UDI from the product information you enter. In combination with your HIBCC LIC the Creator tool will provide you with the correct data combination for printing on packages and to meet FDA-required uploads to the GUDID.

What is my check character?

Calculate Check Character

Every HIBCC symbol includes a Modulo-43 check character which is derived from the product that you enter. Our tool will calculate the correct modulo-43 check character for you.

Is my UDI on the FDA's GUDID?

Check UDI with FDA GUDID

Enter an existing UDI on our tool to search the FDA database and confirm the product information that corresponds to your UDI. This tool also verify the validity of the Labeler's Identification Code (LIC) included in your UDI against HIBCC's LIC database.



HIBCC UDI Suite – Create UDI

Primary Data Structure

Step One Enter Your Data

The LIC registered address should match your FDA GUDID account information. If not, you can use our Apply for or Update an LIC.

Registered Company Name
Division/Subsidiary Name
Registered Company Address
NW-07-301, NANOPOLIS SUZHOU, 99 JINJIHU AVENUE SUZHOU INDUSTRIAL PARK JANGSU PROVINCE CHINA

Labeler Identification Code
B785
Verify LIC
?
Unit of Measure / Package Indicator

O

?

Continue Clear



HIBCC UDI Suite – Calculate Check Character

Access HIBCC UDI Suite

Create, Calculate, and Confirm UDI Information with HIBCC's suite of cloud-based tools

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HIBC Check Character Modulo 43 Generator

+B785ABC1230	

Enter UDI / bar code data (one data string per line)

Generate Check Character

UDI / Bar code data	Check Character	UDI with Check Character	Human Readable Interpret
1 +B785ABC1230	P	+B785ABC1230P	*+B785ABC1230P*

Each of the HIBC LIC Standard data structures employs a Modulo 43 Check Character for additional data security. The Check Character is the Modulo 43 sum of all the character values in a given message, and is printed as the last character in a given message, preceding the Stop Character. Leading and trailing asterisk "*" characters in the human-readable interpretation are not used in calculating the Check Character and are only represented in the human-readable interpretation.

When do I include a Check Character?

The HIBC Check Character must be included in the bar code and human-readable interpretation on the device label. The HIBC Check Character is not included in the Device Identifier submitted to the FDA's GUDID.



HIBCC UDI Suite – Check UDI with US FDA GUDID

Access HIBCC UDI Suite

Create, Calculate, and Confirm UDI Information with HIBCC's suite of cloud-based tools

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Enter UDI to search the FDA GUDID B066C130B1 Search
Labeler Identification Code: B066 Status: B066 is a Valid HIBCC LIC
Device ID: B066C130B1 Device ID Type: Primary Issuing Agency: HIBCC
Brand Name: CONN, STR 3/8" X 3/8" Company Name: NOVOSCI CORP.
Device Description: A sterile plastic device designed to join two or more tubes of a cardiopulmonary bypass system of typically to create an extension or shunt; it may also be used to connect ancillary disposable devices (e.g., temperature protypically has a Y-shape or straight design and is profiled at its ends to create leak-proof connections. This is a single-use design and is profiled at its ends to create leak-proof connections.
Version / Model Number: C130B Catalog Number: None
Device Count: 200
Device Characteristics: Labeling does not contain MRI Safety Information For Single-Use
FDA Product Code:
Product Code: KOC Product Code Name: Accessories, Blood Circuit, Hemodialysis
Package Dis Found: 4
Package DI: B066C130B5 Quantity: 1000 Contains DI Number: B066C130B1 Status: In Commercial Distribution Package DI: B066C130B4 Quantity: 800 Contains DI Number: B066C130B1 Status: In Commercial Distribution Package DI: B066C130B2 Quantity: 600 Contains DI Number: B066C130B1 Status: In Commercial Distribution

View more information from FDA GUDID

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Questions?

For more information on HIBCC and UDI visit www.hibcc.org or www.hibcc.org or wdisupport @hibcc.eu or call +1 (602) 381-1091.