Global Medical Device Nomenclature (GMDN)

GMDN – A Requirement for UDI

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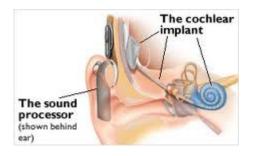
What we will be discussing

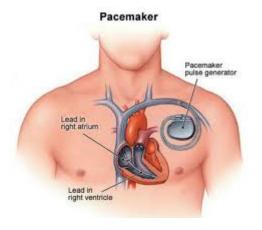
- Why is the GMDN needed
- GMDN data structure
- How to find GMDN terms
- UDI & GMDN Relationship
- New, Modified & Obsolete Terms
- Examples of use
- Questions?

Why the need for Device names?

Large variety of devices!









Why is consistent naming important?

- Medical Devices are traded internationally
- Regulators need to approve devices efficiently by identifying the product group and the related hazards / risks
- Regulators need to identify 'systematic' failures of medical devices
- Hospitals can identify the products they need and manage their inventory

Why was the GMDN needed?

Existing nomenclatures:

- 'National' systems (not suitable for international harmonisation) & Single language
- Unstructured / un-standardised
- Too vague / poor definitions
- Too rigid difficult to include new technology
- Can't keep up with volume of innovation
- Too many duplicates / overlaps
- Uncontrolled no update method for users

Not meeting Regulator needs



What is the GMDN?

Global Medical Device Nomenclature (GMDN)

- The international standard (ISO 15225) for naming Medical Devices
- Used by 65 national Medical Device Regulators - Backed by IMDRF
- Over 4000 Manufacturers worldwide
- Translated into 25 languages
- 22,000 Preferred Terms with Definitions
- Controlled distribution and updating
- International acceptance



Global acceptance?

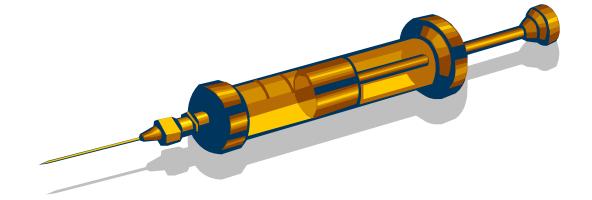
- ☐ GHTF (now **IMDRF**) proposes GMDN for UDI
- ☐ EC proposes GMDN for the **EUDAMED** (market surveillance database)
- EUCOMED supports the use of GMDN in meeting the needs of European manufacturers
- EC has translated the GMDN into 20 languages
- WHO & MSF use GMDN in guidance for developing countries
- Collaboration Agreement with IHTSDO (Snomed CT)
- US FDA are using GMDN in the first national implementation of UDI

GMDN Term Structure

Each GMDN Term consists of 3 parts:

- □ Term Name: General-purpose syringe
- Definition: A sterile device that consists of a calibrated hollow barrel (cylinder) and a moveable plunger intended to be used to inject fluids (e.g., medication) into, and/or withdraw fluids/gas from, the body or a medical device for various medical

□ **Code**: 47017



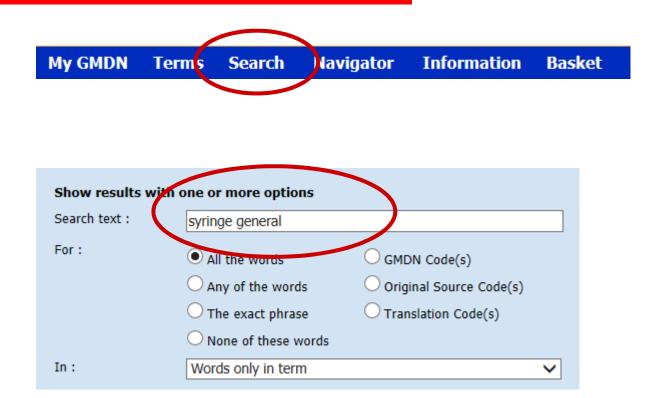
How can you find GMDN Codes?

www.gmdnagency.org



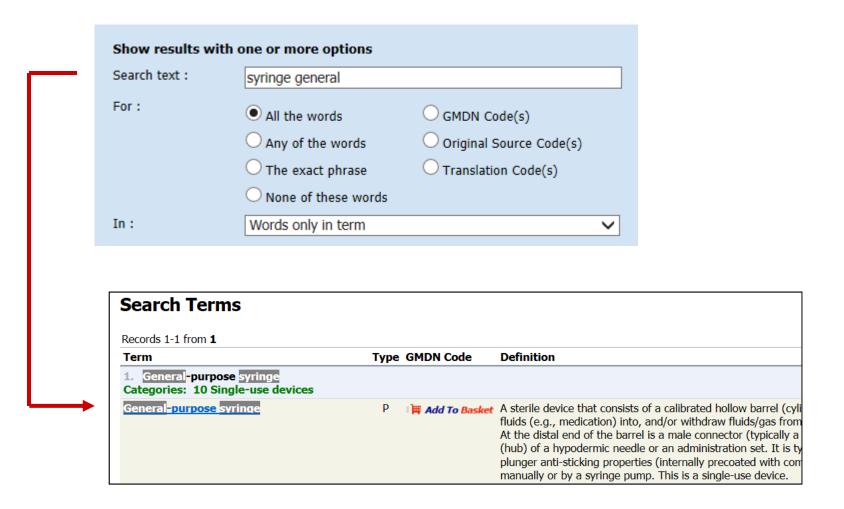


Searching for GMDN Terms





Review the Results

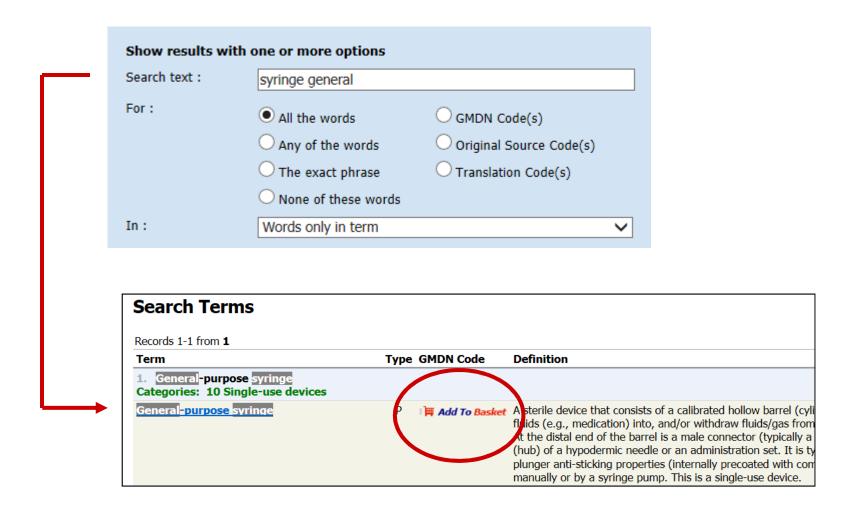




More detail

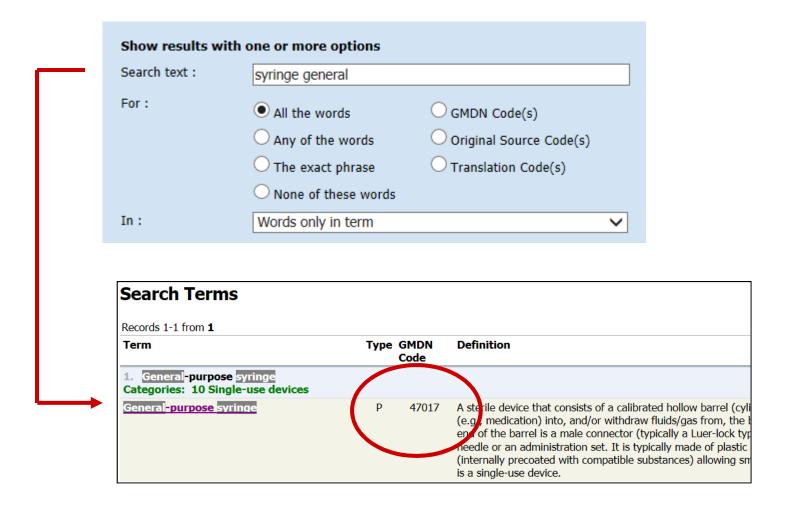
Term Details Categories Product Identifier 10 Single-use devices Created 21/06/2007 14:08:18 Collective Terms Modified 11/02/2013 22:45:31 CT233 Surgical Device Materials Term General-purpose syringe CT979 Inorganic materials Definition A sterile device that consists of a calibrated hollow CT201 Synthetic polymers barrel (cylinder) and a moveable plunger intended to CT179 Plastics be used to inject fluids (e.g., medication) into, and/or withdraw fluids/gas from, the body or a medical device CT212 Silicone for various medical applications. At the distal end of CT180 Synthetic rubber the barrel is a male connector (typically a Luer-lock Device Power/Operation type) for the attachment of the female connector CT326 Manually powered/operated (hub) of a hypodermic needle or an administration set. It is typically made of plastic and silicone materials and Device Sterility may have plunger anti-sticking properties (internally CT336 Sterile precoated with compatible substances) allowing Device Use Frequency smooth plunger movement, either manually or by a syringe pump. This is a single-use device. CT981 Single use High-Level Device Groups CT309 Syringes/Injectors and associated devices CT1943 Syringes

How can you find GMDN Codes?





Reveal the GMDN Code





Collective Terms

GMDN uses **Collective Terms** to provide:

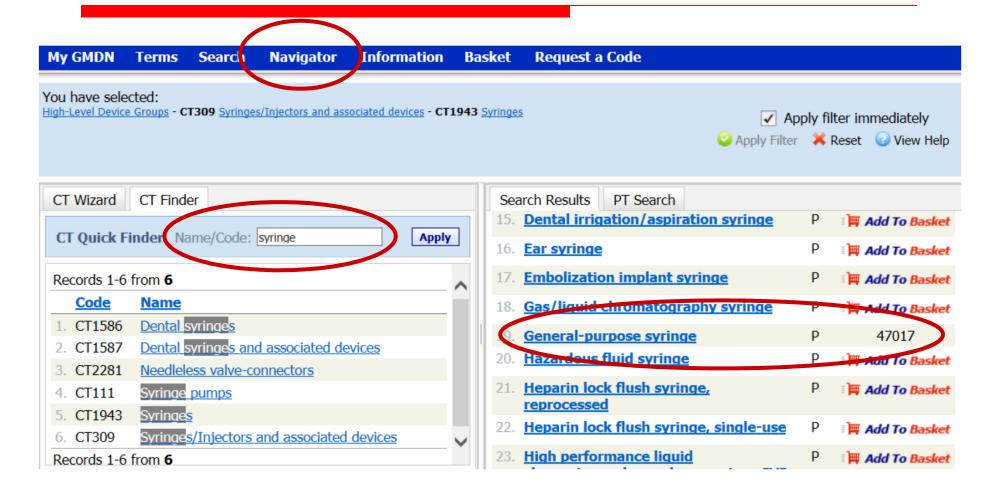
- Better navigation with variable hierarchies
- Compare common features:
 - Materials (Inert, Latex, Animal)
 - Invasiveness (Internal / External)
 - Sterility (Supplied Sterile / non-sterile)
 - Use Frequency (Single Use / Reusable)
 - Powered by (mains, battery, air, etc.)
- □ Flexible to meet future needs



Collective Terms

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Using Collective Terms to search





What's the process?

- Identify the GMDN Code for all of your products, from the GMDN database
- Provide the GMDN Code to your Customers / Distributors / Data Pools
- Use the GMDN Code to register your products with your MD Regulator
- Use with Unique Device Identification (UDI)

UDI Database

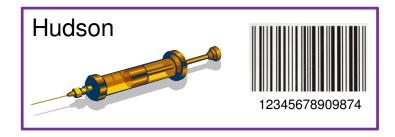
- The GMDN code is one of the 25 mandatory core data elements identified in the IMDRF 'UDI System for Medical Devices' draft Guidance Document.
- □ Data for each device is provided by the manufacturer to the UDI Database (FDA GUDID).
- □ The UDID data could be distributed by:
 - Public access website
 - Bulk data download (e.g. Hospitals)



GMDN and UDI Relationship

Pack / Device — Unique Device Identifier

(e.g. 12345678909874)



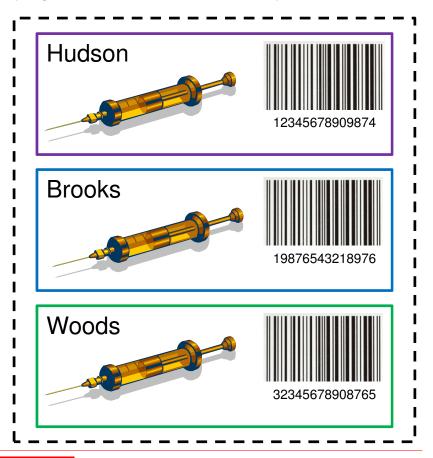
GMDN and UDI Relationship

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(e.g. 12345678909874)



Generic Device Group - GMDN Term (e.g. GMDN Code 47071)





When you can't find a Term?

If you can't find a GMDN Term for your product:

- Ask us for assistance
- 2. Apply for a new Term:
 - On-line Request Application
 - Attach your product datasheet / pictures
 - We discuss the draft Term with you
 - Two week public comment period
 - Database updated daily

Modifying or Obsoleting Terms?

- We modify existing Terms
 - To increase the scope
 - Improve the definitions
- Make Terms Obsolete
 - To remove inadequate Terms
 - Reducing over time
- Notifications by email to Members

Example of GMDN & UDI for Regulation

- Post Market surveillance
 - Identify systematic (generic) product failure
 - Support rapid product recall
- Better Regulation
 - Speed up Pre-market approval
 - Identify products quickly
 - Detailed information on imports and exports
 - Quickly identify trends about new equipment use and problems

Example of GMDN & UDI in Hospitals

- Asset Management
 - Support equipment commissioning
 - Help identify equipment location
 - Support maintenance programmes
- Inventory Control
 - Reduce wastage
 - Translate product labels with poor descriptions
 - Improve stock control

Thank you for listening

Any questions?

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