

The Most Trusted Voice in Healthcare

## UMDNS

December 13, 2021

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#### The Most Trusted Voice in Healthcare

#### Tens of Thousands of **MEMBERS**

Health systems, medical providers, government agencies, payers, & other organizations

# MISSION

Advancing effective, evidence-based healthcare globally

#### A Trusted INDEPENDENT Voice

Evidence-based assurance to improve the safety, quality, and cost effectiveness of care across all healthcare settings.



#### **51 Years of Safe and Effective Healthcare**



"The country's most respected independent laboratory for testing medical products"

The New York Times



#### Universal Medical Device Nomenclature System

- Created by ECRI in 1971
- The purpose of UMDNS is to facilitate identifying, processing, filing, storing, retrieving, transferring, and communicating data about medical devices.
- Continually maintained and updated by ECRI.
- Part of the National Library of Medicine's Unified Medical Language System (UMLS) since 1991



#### **SCOPE OF UMDNS**

Covers (almost) everything found in a healthcare facility inventory

#### Includes:

- Capital equipment
- Supplies
- Consumables
- Laboratory equipment
- ✤ Genetic tests
- Reagents
- Software
- ✤ Furniture
- Purchased Services
- Home use devices

#### Excludes Drugs



#### **About UMDNS**

- The December 2021 UMDNS contains
  - > 12,998 Concepts
  - > 30,587 terms



#### **About UMDNS**

Controlled Vocabulary

Facilitates identifying, processing, filing, storing, retrieving, transferring, and communicating data.



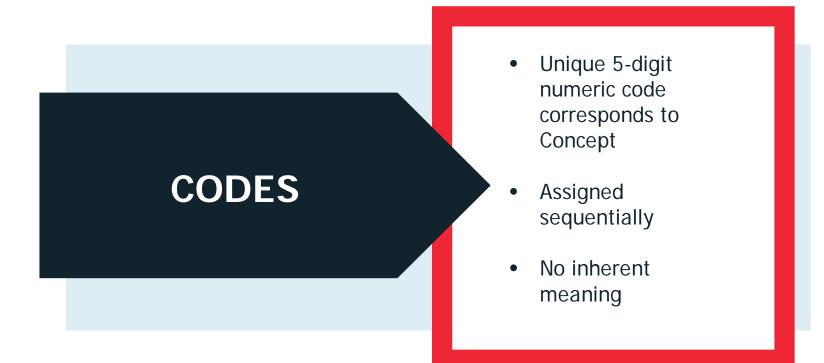
#### **UMDNS** Components







#### **UMDNS Components: Codes**





### **UMDNS Components: Concept Definitions**

- Formal definition for each concept
- Constructed in a standardized way
- Describe the device and its intended purpose
- Help to prevent ambiguity, redundancy or overlapping of concepts for similar devices



#### **UMDNS Components: Terms**

Terms are search words that help users find the Concept they need

One-to-one

Band Aids See: Adhesive Strips [10026]

One-to- Many

Dedicated MRI Units Use More Specific Term See: Scanning Systems, Magnetic Resonance Imaging, Extremity [18109] Scanning Systems, Magnetic Resonance Imaging, Mammographic [18110] Scanning Systems, Magnetic Resonance Imaging, Neonatal Head [39679]



#### Hierarchy

Software [26709] Software, Anesthetic Gas Monitoring [26738] Software, Anesthetic Gas Recording [26751] Software, Automation System [26824] Software, Automation System, Laboratory [26825] Software, Automation System, Operating Room [26995] Software, Body Pressure Mapping [33753] Software, Chromatography System [26812] Software, Chromatography System, Gas [26813] Bandages, Casting [25170] Bandages, Casting, Plaster [25171] Bandages, Casting, Synthetic [25172] Bandages, Compression/Support [10284] Bandages, Compression/Support, Crepe [25168] Bandages, Compression/Support, Multilayer [25169] Bandages, Compression/Support, Multilayer, Emergency [33255] Bandages, Compression/Support, Multilayer, Emergency [33255]



#### **Users and Uses**

- More than 3,000 licensees in more than 100 countries (many more individual users)
- Regulatory agencies
- Government agencies
- > WHO
- Private health systems
- Healthcare facilities
- ➢ NGO's



#### **Users and Uses – Regulatory Agencies**

- Asian Medical Device Nomenclature System
  - Administered by the Medical Device Control Office Department of Health, The Government of the Hong Kong Special Administrative Region
    - ➤ 100% compatible with UMDNS
    - Updated monthly
- > Other examples:
  - Argentina
  - ➤ Chile
  - Iran
  - ► Israel
  - Jordan
  - Panama
  - Poland



#### **Users and Uses: Internal**

✤ ECRI

UMDNS is the backbone of all ECRI's device-related systems, products, and publications
Groundwork for linking UDI with UMDNS



## **UMDNS Summary:**

- Created, owned, maintained, and continuously updated by ECRI
- Used world-wide
- Emerging technologies barometer of technology evolution world-wide
- No-cost license for non-commercial use of UMDNS will be available in near future
  - Example: most regulatory and inventory use cases qualify as non-commercial\*

(\*Commercial use requires a paid license. Example: imbedding UMDNS into a product/software that will be resold or used at cost)

- Collaborating with WHO and other nomenclature agencies on feasibility study
  - Reviewed pilot mapping; re-assigned 99 of 125 UMDNS "mismatches"
- User feedback a critical input



#### Questions

#### email: UMDNS@ecri.org

