AEMPS experience indexing medicines into the SNOMED CT terminology

AEMPS Agencia Española de Medicamentos y Productos Sanitarios
NRC National Release Center for SNOMED CT
Spain
Nomenclator for prescription: scope

• A medicines database intended to provide core prescription information to the health care information services

• Contains all medicinal products that have been authorized and marketed, both financed and non-financed

• Data for medicinal product identification

• Technical information for each individual product

• Includes medicinal products suspended, revoked or ceased to be marketed (since May 2013)
Nomenclator for prescription: derivatives

Add price and reimbursement information

Nomenclator Maestro \[\rightarrow\] Nomenclator “Alcántara”
Nomenclator for prescription: dataset

- Interoperable **grouping** information at 3 levels
  - Using SNOMED CT concepts and relationships
  - VTM, VMP, VMPP
- **Clinical** information of relevance
  - Information for prescription support
  - Active ingredients
  - Strength
  - Pharmaceutical form
  - Route of administration
  - Units of presentation
  - List of excipients
- Published **monthly**
SNOMED-CT

DCSA (VTM) = active ingredient(s)

DCP (VMP) = active ingredient(s) + strength + simplified pharmaceutical form

DCPF (VMPP) = active ingredient(s) + strength + simplified pharmaceutical form + package size (and type of container)

Nomenclator and SNOMED CT concepts

darunavir + cobicistat

darunavir / cobicistat 800 mg / 150 mg comprimido (= Tablet)

darunavir / cobicistat 800 mg / 150 mg 30 comprimidos
2.111 Virtual Therapeutic Moiety (VTM) concepts

5.807 Virtual Medicinal Product (VMP) concepts

8.543 Virtual Medicinal Product Pack (VMPP) concepts
SNOMED CT components: authoring

**Core** SNOMED CT (22.3%) plus Spanish AEMPS Medicines **Extension** (77.7%)

- 12.813 concepts authored by AEMPS
- 16.461 total concepts
  - International Edition
  - AEMPS Extension (namespace = **1000140**)
- 25.628 descriptions
  - 2.111 **Translations** into English
- 12.813 relationships
SNOMED CT components: authoring %

Authoring proportion by component type

- VTM
- VMP
- VMPP

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Core: VTM, VMP, VMPP
Extension: VTM, VMP, VMPP
Structured and encoded information allow “specific search”

https://cima.aemps.es/cima/publico/buscadoravanzado.html
Interoperability of prescriptions for Autonomous Communities

Interoperable **concept** coding of medicinal products is a **key element** to allow **interoperability** among the different regions and to deploy cross-system prescription data **exchange** services without relying on the **brand name** of medicines.
Sincere thanks !!

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