ISO, IHE e HL7

Apresentação ABNT

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Standards

- ISO Normas de jure e de facto
- HL7 Normas de facto (de jure quando adotada)
- IHE Normas e recomendações de implementação

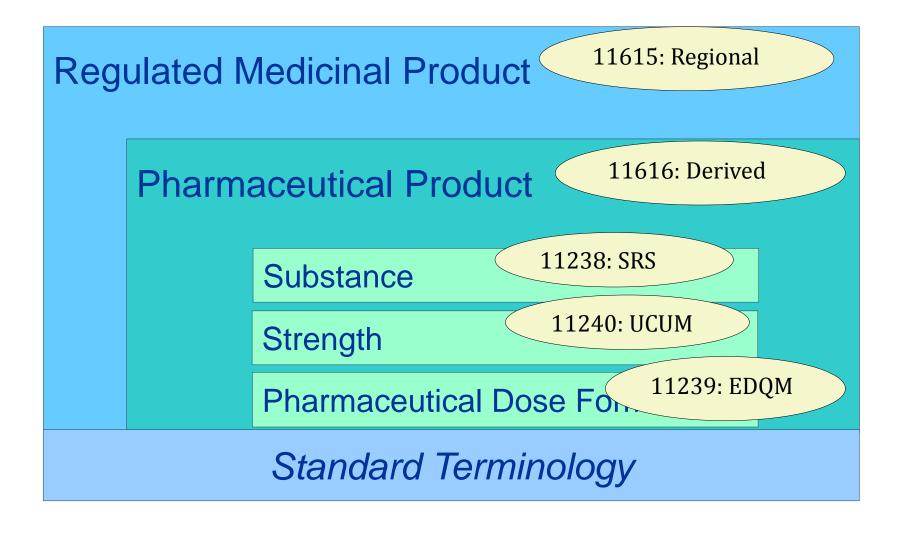
- Projetos Europeus
- Framework para projetos eSaude

Discussão – projetos compatíveis?

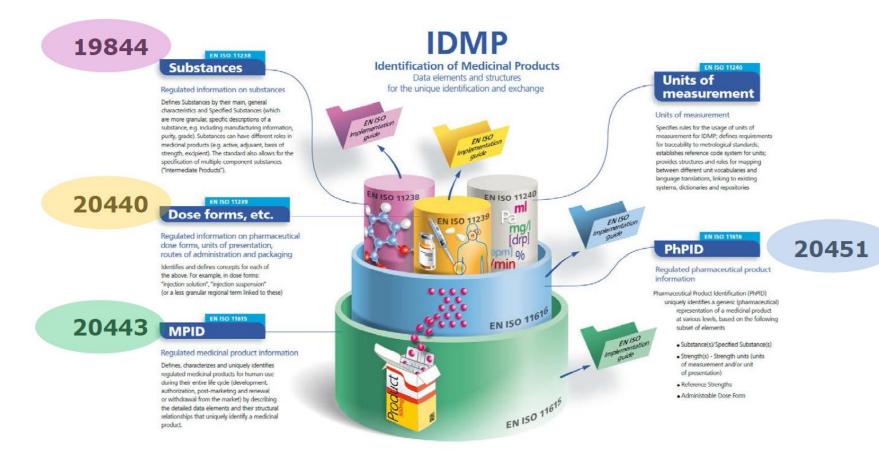
ISO - Key work items

- IDMP Identification of Medicinal Products
- ISO/DIS 17523 ePrescription
- DT 19256 Medicinal Product Dictionary
- TS 19293 Dispense Record

IDMP – conjunto de normas



IDMP – Normas e Implementation Guides



ISO/DIS 17523 - Requirements for electronic prescriptions

- Requirements for e-prescription and content that facilitates exchange and processing of eprescription
 - Requirements on
 - Identification of the patient
 - Authentication of the prescription (metadata)
 - Identification of the prescriber
 - Identification of the prescribed product
 - Prescription information
 - Data elements in normative annex A
 - Examples in informative annex B

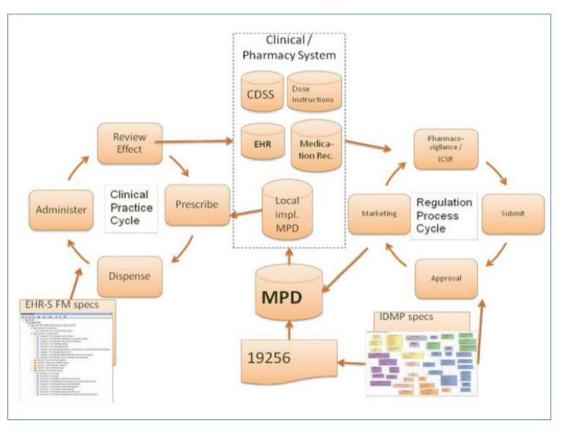
ISO/DIS 17523

- Kuopia, Finland (May 2011)
 - decision to revise ENV 13607 (CEN, 2000) Health informatics - Messages for the exchange of information on medicine prescriptions
- NP Ballot passed October 2011
- Vienna (September 2012) first draft, scope
- Mexico (March 2013) proceed to CD ballot
- Sydney (Sept. 2013) CD ballot passed
- Karuizawa (May 2014) proceed to DIS
- Feb 2015 DIS ballot passed
- San Francisco (Apr 2015) proceed for FDIS

19256 - Medicinal Product Dictionaries

The MPD-system does not exist on its own.

It is a component of a larger clinical and/or pharmacy information system.





ISO TS 19293 – Dispense Record

 Requisitos sobre dispensa de produtos de saúde.

Pendente resultados projeto OpenMedicine

HL7 Work

- FHIR Resources
- Universal Templates CDA
- Pharmacy Glossary Project

HL7 FHIR

• Uma transição para um modelo web, RESTful

 Série de "resources" que reduz a complexidade e aumenta a flexibilidade

 Suporte multi-paradigma (interoperabilidade por mensagens, por documentos, serviços...)

Exemplo de um "resource"

lame	Flags	Card.	Туре	Description & Constraints	?	
Patient			DomainResource	Information about an individual or animal receiving services	health care	
- 🏐 identifier	Σ	0*	Identifier	An identifier for this patient		
🏐 name	Σ	0*	HumanName	A name associated with the patient		
- 🏐 telecom	Σ	0*	ContactPoint	A contact detail for the individual		
gender	Σ	01	code	male female other unknown AdministrativeGender (Required)		
- i birthDate	Σ	01	date	The date of birth for the individual		
e deceased[x]	?! Σ			Indicates if the individual is deceased or not		
 deceasedBoolean		01	boolean			
deceasedDateTime		01	dateTime		{	
🏐 address	Σ	0*	Address	Addresses for the individual	"resourceType" : "Patient",	
- () maritalStatus		01	CodeableConcept	Marital (civil) status of a patient MaritalStatus (Required)	<pre>// from Resource: id, meta, implicitRules, and // from DomainResource: text, contained, extens</pre>	
@ multipleBirth[x]				Whether patient is part of a multiple birth	"identifier" : [{ Identifier }], // An identifi "name" : [{ HumanName }], // A name associated	
multipleBirthBoolea	n	01	boolean		"telecom" : [{ ContactPoint }], // A contact de	
	r	01	integer		"gender" : " <code>", // male female other </code>	
🥥 photo		0*	Attachment	Image of the patient	"birthDate" : " <date>", // The date of birth fo</date>	
🛅 contact	I	0*	Element	A contact party (e.g. guardian, partner, friend) for SHALL at least contain a contact's details or a refe	<pre>// deceased[x]: Indicates if the individual is "deceasedBoolean" : <boolean>, "deceasedDateTime" : "<datetime>",</datetime></boolean></pre>	
🏐 relationship		0*	CodeableConcept	organization The kind of relationship ContactRelationship (Required)	"address" : [{ Address }], // Addresses for the "maritalStatus" : { CodeableConcept }, // Marit	
🏐 name		01	HumanName	A name associated with the contact person	// multipleBirth[x]: Whether patient is part of	
- 🏐 telecom		0*	ContactPoint	A contact detail for the person	"multipleBirthBoolean" : <boolean>, "multipleBirthInteger" : <integer>,</integer></boolean>	
🏐 address		01	Address	Address for the contact person	"photo" : [{ Attachment }], // Image of the pat	
gender		01	code	male female other unknown AdministrativeGender (Required)	"contact" : [{ // A contact party (e.g. guardia "relationship" : [{ CodeableConcept }], // Th	
- 🗗 organization	I	01	Organization	Organization that is associated with the contact	"name" : { HumanName }, // A name associated	
() period		01	Period	The period during which this contact person or org to be contacted relating to this patient	"telecom" : [{ ContactPoint }], // A contact "address" : { Address }, // Address for the c "gender" : " <code>", // male female other "organization" : { Reference(Organization) }.</code>	

```
language
                                                sion, and modifierExtension
                                                ier for this patient
                                                with the patient
                                                etail for the individual
                                                unknown
                                                or the individual
                                                deceased or not. One of these 2:
                                                e individual
                                                tal (civil) status of a patient
                                                f a multiple birth. One of these 2:
                                                an, partner, friend) for the patient
                                                he kind of relationship
                                                with the contact person
                                                detail for the person
                                                contact person
                                                r unknown
   "organization" : { Reference(Organization) }, // C?
     Organization that is associated with the contact
   "period" : { Period } //
     The period during which this contact person or organization is valid to be contact
is patient
```

Pharmacy Glossary

	Α	В	С	D
1	English term	Common HL7 & IHE Definition	HL7 Definition	IHE Definition (red: def'd in PHARM profiles, cf. http://goo.gl/A44CP)
9	admission medication	The (list of) medications that a patient is identified to be using just prior to being admitted to a healthcare institution. This excludes incidental administrations (like in an ambulance or emergency room).		The medical treatment of the patient upon admission at the healthcare institution
10	base (ingredient)	The ingredient that comprises the foundation for a mixture. Among all ingredients of a material there should be only one base. A base substance can in turn be a mixture.	A base ingredient (player) is what comprises the major part of a mixture (scoper). E.g. Water in most i.v. solutions or Vaseline in salves. Among all ingredients of a material there should be only one base. A base substance can in turn be a mixture.	It is called "excipient". It is not the active pharmaceutical ingredient responsible of the action of the drug, but helps and supports it. Excipients may nevertheless have an effect - which is unwanted (excipient à effet notoire in French) - and which must be mentionned. This is the case for lactose, for instance.
11	community pharmacy	Pharmacy that provides medication services where administrations (are intended to) take place external to the healthcare institution containing the pharmacy.	Pharmacy that provide medication services within a surrounding community	
12	community setting	Situations where administrations (are intended to) take place external to a healthcare institution.	The pharmaceutical process, limited to situations where administrations (are intended to) take place in an uncontrolled environment, like the patient's home.	The environment which is not a healthcare institution.
13	contraindication	A factor that renders the administration of a drug or the carrying out of a medical procedure inadvisable	A factor that renders the administration of a drug or the carrying out of a medical procedure inadvisable	
14	controlled drug		medication categorized under the five	Drugs with morphinics or morphine derivatives

HL7 Pharmacy CDA Templates

 New work on the creation of templates for CDA pharmacy content

 Initial plan is to use Art-Décor to create the first version of these templates

IHE

- Farmácia de comunidade (CDA) e hospital (HL7 v2)
- <u>Pharmacy Medication List</u> histórico de medicamentos para um paciente (White paper + perfil técnico)
- Supply of Products for Healthcare (White paper + perfil técnico)
- Medication Treatment Plan (Perfil técnico)

Projetos europeus

epSOS: European Patient Smart Open Services

Antilope: Advancing eHealth Interoperability

 EXPAND: Expanding Health Data Interoperability Services

OpenMedicine

Outros projetos

European Prescription guidelines

- "Cadre commun des projets de e-santé"
 - http://esante.gouv.fr/

Se baseia no IHE e outras normas.

ART-DECOR in 4 bullets

 ...is an open-source tool and a methodology for various multidisciplinary stakeholders of healthcare information exchange



- ...supports comprehensive collaboration of team members within and between governance groups
- ...allows separation of concerns and different views on one single documentation for different domain experts
- ...supports creation and maintenance of HL7 templates (DSTU), value sets, data sets and more

Overview ART-DECOR



- Concept Group / Item
- Data type
- Concept list
- Properties

Scenario



- Actor
- Transaction
- Cardinality
- Conformance
- Test suite

Rules



- Templates
- Elements
- Attributes
- Constraints
- Validation

Identifiers



- OID registry
- Summary of IDs

Codes



- Value Sets
- Terminology Associations
- Coded Concepts

Issues



- Change Management
- Status
- Assignment

ART-DECOR @ internet

- art-decor.org
 - Documentation about **ART-DECOR**
 - International site and international projects host
- decor.nictiz.nl
 - Dutch projects host
 - Documentation, specification





HL7 EU Newsletter #4: download at hl7.eu

Eventos 2015

- S. Francisco
- Paris



