

Consolidated Health Informatics (CHI)

National Committee on Vital and Health Statistics (NCVHS)

July 28, 2006



U.S. Department of Health and Human Services
Office of the National Coordinator
for Health Information Technology



Federal Health Architecture
ROADMAP FOR FEDERAL HEALTH

- **CHI Standards Work Group**

- Multimedia Final Report
- Revised CHI Report
- Disability Update
- Allergy Recommendation

- **Collaboration Activities**

- Office of the National Coordinator Health Information Technology

- **Next Steps**

- Continue Standards Adoption Efforts
- Continue Collaboration Efforts
 - ❖ Standard Harmonization



- **CHI Standards Messaging and Vocabulary Standards**

- **Updated Reports**

- ❖ IEEE standard name change: **James McCain, VA**

- **Ongoing Effort**

- ❖ Disability: **Dr. Laurence Desi, SSA and Jennie Harvell, ASPE**

- **Recommendation Update**

- ❖ Allergy: **Lenora Barnes, VA and Marcia Insley, VA**



- **MESSAGING STANDARDS: Connectivity**
 - **The Institute of Electrical and Electronics Engineers**
 - ❖ **Standard Name Changed from IEEE 1073 to IEEE 11073 Series**
 - ❖ **CHI Report Versioned to V1.1**





CHI Disability / Assessment Form Work Group

- **Membership**

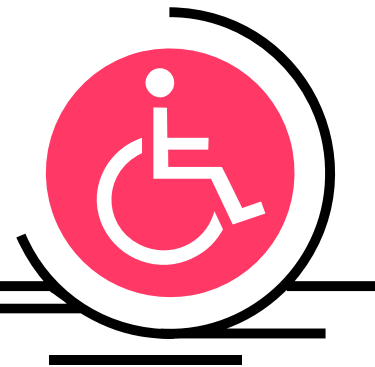
- SSA
- ASPE
- CDC
- CMS
- DOD
- DOL
- NLM
- AHRQ
- VA
- VBA
- RRB

- **Approach**

- **Address NCVHS Recommendations from preliminary work**
 - ❖ Leverage research project sponsored by ASPE and CMS
- **Identify agency-specific disability concepts**
 - ❖ Recognize that agency business needs require various terminologies
 - ❖ Synthesize into Use Cases from agencies to assess overall federal needs
- **Will require harmonization of several existing standards**
 - ❖ LOINC, SNOMED, ICF and HL7

- **Recommendation Process**

- **Attempt to match federal needs to existing vocabulary/ vocabularies and messaging standards**
- **Evaluate the capability to codify assessment information (Q&As)**
- **Encourage standardization of disability concepts by describing and disseminating results and standardization methods**



CHI Allergy Work Group

- **Challenge**

- There is a critical need for an Allergy Standard
- Allergy is a complex domain
- There is no complete Allergy ‘standard’ currently available

- **Membership**

- VA
- DOD
- FDA
- EPA
- NLM
- CMS

- **Recommendation Process**

- Participating federal agencies and the CHI WG have approved the report submitted to NCVHS




CHI Allergy Work Group

- **Approach**

- Utilize HL7 Allergy Information Segment and Reference Information Model
- Review vocabulary requirements for exchanging allergy health information across the federal health enterprise (allergy type, allergy severity, allergy reaction, allergen name, allergen group)
- Identified over 30 potential allergy vocabulary candidates
 - ❖ CHI Adopted Vocabularies, Proprietary and Non-proprietary



Allergy Standard Recommendation

Allergy Type	SNOMED	HL7 (User Defined /Suggested Values)
	<p> Allergy to biocide in cosmetic Allergy to drug vehicle Allergy to flavor Allergy to plant Allergy to pollen Allergy to tree resin Allergy to wood Atophy Contact hypersensitivity Dander (animal) allergy Dust allergy Feather allergy Foods, vitamins, electrolytes and inorganic salts allergy Hormones, synthetic substitutes and antagonists allergy House dust mite allergy Human immunoglobulin allergy Hypersensitivity to endogenous allergen Hypersensitivity to foreign antigen Immediate hypersensitivity Jones-Mote type hypersensitivity Latex allergy Metal allergy Perfume allergy Tape allergy </p>	<p> Drug Allergy Food Allergy Miscellaneous Allergy Miscellaneous Contraindication Environmental Allergy Animal Allergy Plant Allergy Pollen Allergy </p> 

Allergy Standard Recommendation

Allergy Severity	SNOMED	HL7
	Fatal Mild to Moderate Mild Moderate to Severe Moderate Severe	Severe Moderate Mild Unknown



- Allergy Reaction**

- HL7 has no suggested values
- VA/DOD submitted Allergy Reactions mapped to SNOMED
 - ❖ Approximately 300 codes

<u>VHA/DOD Preferred Term</u>	<u>Synonym</u>	<u>SNOMED CT Preferred Name</u>	<u>SNOMED Code</u>	<u>Source</u>
AMNESIA	FORGETFULNESS*LOSS OF MEMORY	Amnesia (finding)	48167000	SNOMED CT
ANAPHYLAXIS	ANAPHYLACTIC SHOCK*ANAPHYLACTIC REACTION	Anaphylaxis (disorder)	39579001	SNOMED CT
ANEMIA		Anemia (disorder)	271737000	SNOMED CT
ANGINA		Angina (disorder)	194828000	SNOMED CT

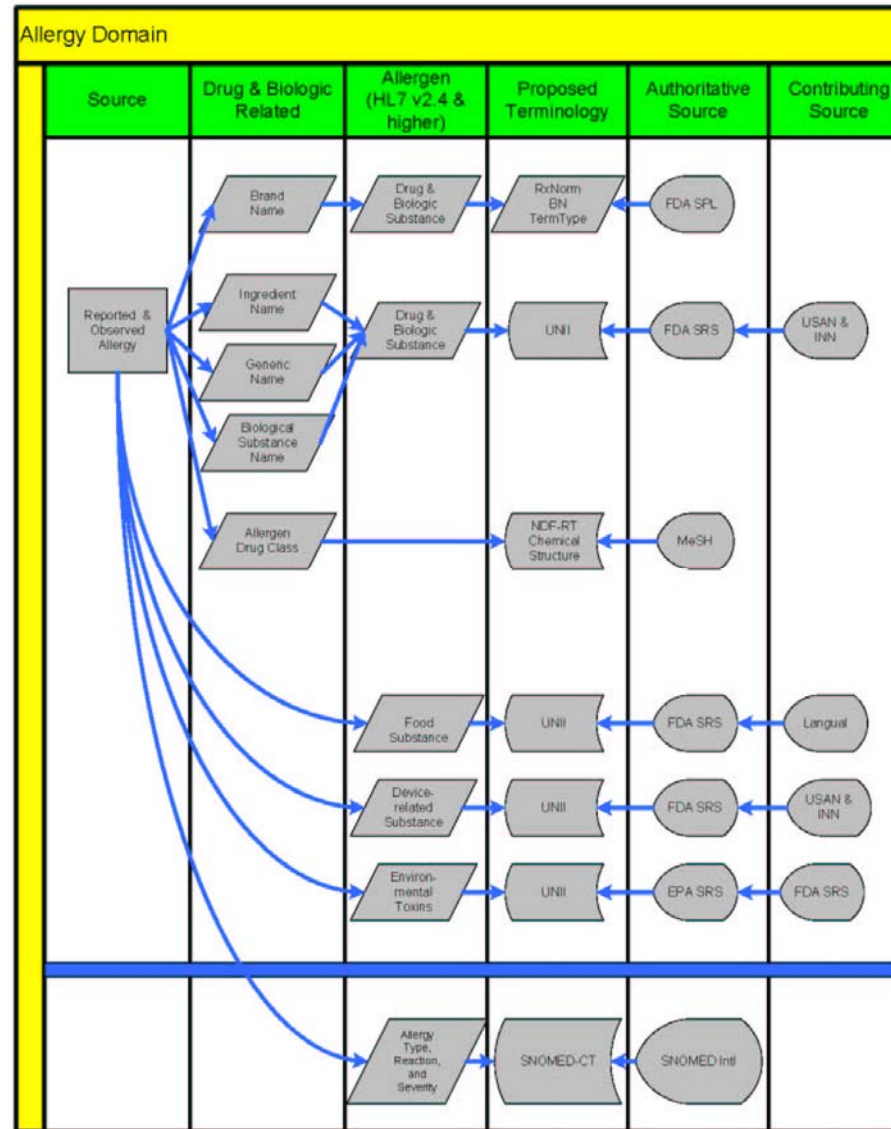


Allergy Data Standards

- **Allergen Description/Code**
 - UNII Code
 - ❖ FDA SRS (include Drug and Food Allergens)
 - ❖ EPA SRS (includes Non Drug/Food VA/DOD Allergen List)
 - Schematic
- **Allergen Group**
 - Drug NDF-RT
 - Food FALCPA (8 groupings)



CHI Allergy Vocabulary Standards



Version 9

Thursday, May 18, 2006

- **UNII Code Assignment and Availability**

- Basis of the Allergy recommendation, hence:
- All aspects of ingredients (active ingredients, inactive ingredients, dyes for prescription, OTC, herbals and biologics; foods, environmental, non food-drug) be aggressively completed
- The furthest projected completion date at this point in time would be December 2008
- FDA / EPA Collaboration Strategy

- **SNOMED / HL7 Harmonization**

- SNOMED allergy hierarchy consideration
- HL7 Collaboration

- **NDF-RT**

- Updates to be submitted to UMLS from VA 2006
- Insure simple download mechanism of updated file

CHI Next Steps

- **Complete Allergy Recommendation Endorsement**
 - Support collaboration activities
- **Continue CHI Disability Work Group recommendation efforts**
 - Report to NCVHS at next meeting (October)
- **Coordinate with the Office of the National Coordinator for Health Information Technology (ONC) Standards Harmonization activities**
 - HITSP
 - NHIN



Questions?



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