**Domain Analysis Model (DAM): Example Portions**

Part 2 of 2

3/20/2012

Norman Daoust

Important Disclaimer: The majority of the contents of this document have been extracted from (and in some cased changed and abbreviated) the Health Level Seven (HL7) September 2011 ballot of Pre‐Anesthesia Evaluation Domain Analysis Model (DAM), from the Cardiovascular Domain Analysis Model (DAM), and from the Nutrition (Diet) Domain Analysis Model (DAM) **merely to provide examples of the different portions of a Domain Analysis Model**. This document is to be used solely for educational purposes for the creation of HL7 Domain Analysis Models.

Contents

1. Overview
2. Business Process Overview/Storyboard
3. Use Case Model
4. Process Model
5. **Data Model**
6. **State Machine Model**
7. **Glossary**

# 5. Data Model

5.A. Class Diagram

Anesthesia Specific History and Physical



5.B. Data Element Text

|  |  |  |
| --- | --- | --- |
| ***Vocabulary::Airway Device Types Attributes*** | ***Vocabulary::Airway Device Types Attributes*** | ***Vocabulary::Airway Device Types Attributes*** |
| airwayDisorderCode | code | A code designating a type of airway disorder that has been detected during the assessment. |
| edentulousIndicator | indicator | An indicator of whether or not the person is missing all their teeth. |
| … |  |  |

… (other Data Elements as appropriate)

5.C. Vocabulary/Data Element Code Value Lists

Airway Device Types Attributes

|  |  |
| --- | --- |
| **Concept** | **Definition** |
| trachealTube | An endotracheal tube (also called an ET tube or ETT) is used in  general anaesthesia, intensive care and emergency medicine for  airway management, mechanical ventilation and as an alternative  route for many drugs if an IV line cannot be established. |
| tracheostomyTube | A tube is usually placed through this opening to provide an airway  and to remove secretions from the lungs. This tube is called a  tracheostomy tube or trach tube. |

… (other Vocabulary/Data Element Code Value Lists as appropriate)

# 6. State Machine Model

6.A. State Machine Diagram

Dietary Order Item States



… (other State Machine Diagrams as appropriate)

# 7. Glossary

Note: the contents of this section have not been extracted from any of the existing Domain Analysis Models, but are just examples of terms and definitions.

**Activity Diagram**: a diagram of a process.

**Glossary**: a list of terms and their definitions

**Use Case Model**: a model of the usage of a system. The model includes both a Use Case diagram (which includes the use case names and actor names) and the associated text description for each of the use cases.