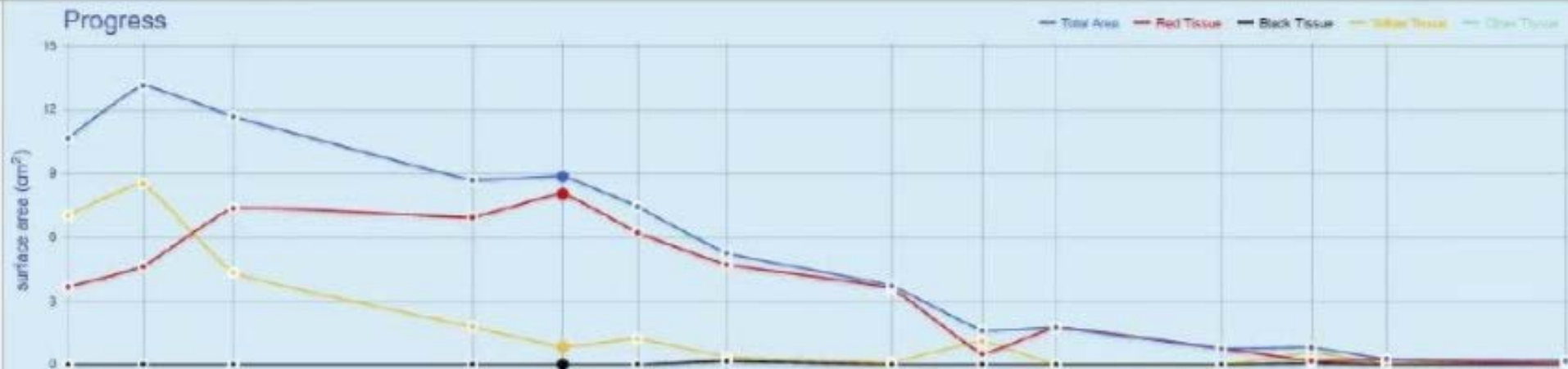


# Skin and Wound Assessment Model

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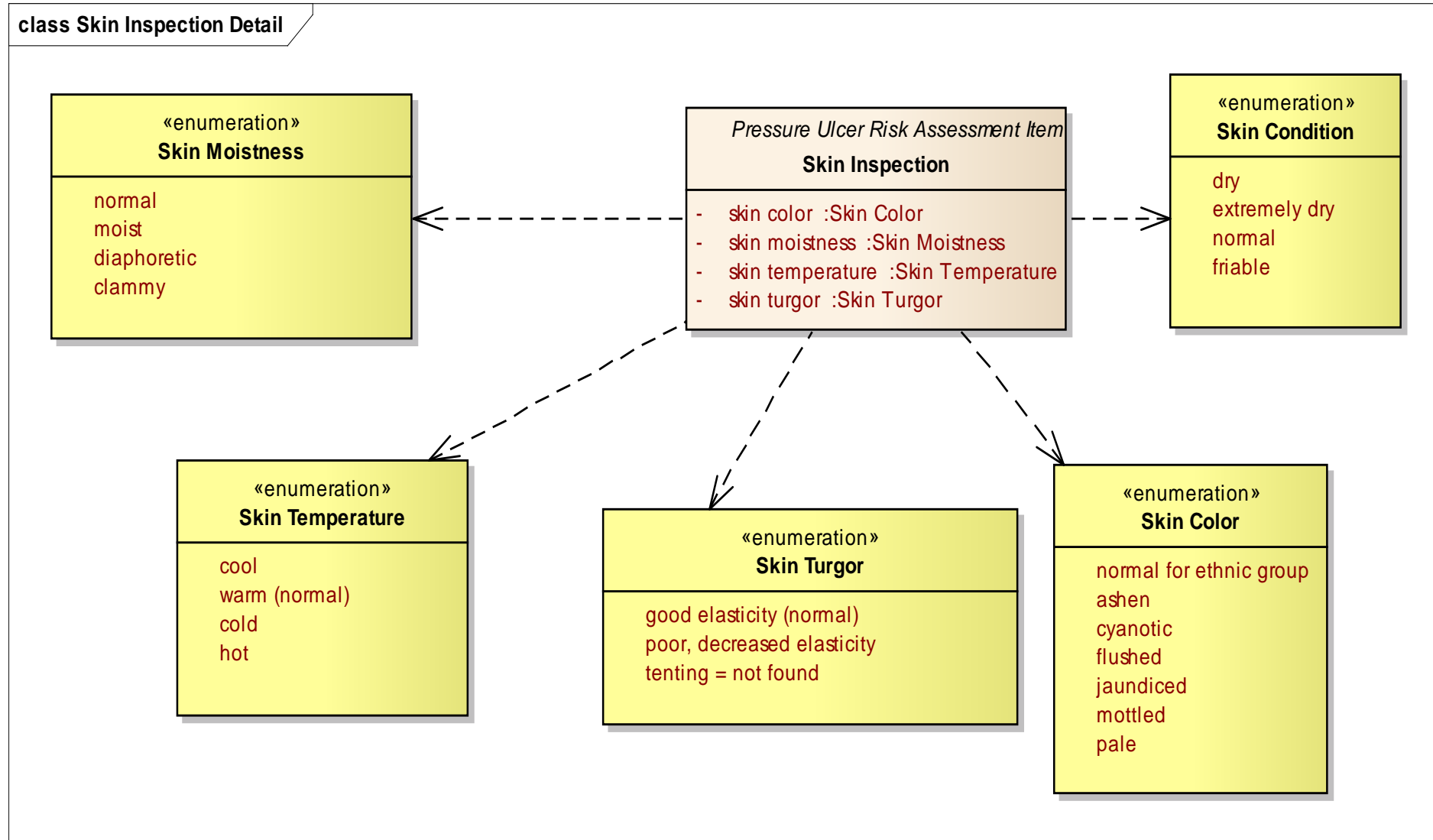
# Goal = Interoperable Wound Data



# History of Model Development Process

- VA/KP started Mind Map and Model (2010)
- Interfaced with SDOs – LOINC, SNOMED CT, HL7
- LOINC nursing subcommittee accepted the project
  - recruited nursing informatics leaders
  - harmonized skin/wound assessment from six institutions
- Part of the model taken up by HL7 patient care committee and Pressure Ulcer Risk DAM created (2013)
  - Vetted through wound care experts
- SNOMED CT and LOINC content requested
- Became HSPC Project with VA Nurses (2016)

# Skin Inspection Class



# HSPC Project Objectives

- Define a process for developing logical clinical models engaging both technical and clinical experts
- Define a process for transforming clinical element models (CEM), written in CEM language (CEML), Archetype Definition Language (ADL) formatted Clinical Information Modeling Initiative (CIMI) models
- Define CIMI data element and value set binding using SOLOR
- Identify a repository for the models and SNOMED CT, LOINC, RxNorm (SOLOR)

# Tasks Performed

- Ontoserver chosen as HSPC terminology server
- Project created in Jira to create value sets
- Value sets evaluated
- Editorial Guidelines Created for Reference Sets
- Simple Ref Sets Created in [TermSpace](#)
- Released Today!!

# Terminology Coding

| Type     | Text                             | Terminology        | Code                 | FSN   |
|----------|----------------------------------|--------------------|----------------------|---|
| Question | Skin Moisture                    | LOINC<br>SNOMED CT | 39129-2<br>406128001 | Moisture:Type:PT:Skin:Nom::<br>moistness of skin (observable entity)          |
| ValueSet | Skin moisture reference set      | SNOMED CT          | 41000205102          | Skin moisture reference set (foundation metadata concept)                     |
| Value    | Diaphoretic                      | SNOMED CT          | 52613005             | excessive sweating (finding)  |
| Value    | Moist                            | SNOMED CT          | 16514006             | moist skin (finding)  |
| Value    | Clammy                           | SNOMED CT          | 102598000            | clammy skin (finding)   |
| Question | Skin Temperature                 | LOINC              | 44968-6<br>364537001 | Temperature:Type:PT:Skin:Ord:Palp:<br>temperature of skin (observable entity) |
| ValueSet | Skin temperature reference set   | SNOMED CT          | 31000205107          | Skin temperature reference set (foundation metadata concept)                  |
| Value    | Consistent With Body Temperature | SNOMED CT          | 297977002            | Skin normal temperature (finding)   |
| Value    | Warm                             | SNOMED CT          | 102599008            | warm skin (finding)   |
| Value    | Cool                             | SNOMED CT          | 427733005            | cool skin (finding)   |

# Skin Wound Assessment Refsets

| Refset/Value sets               | Version | Date     | Purpose   |
|---------------------------------|---------|----------|---|
| Wound trend refset              | v .1    | 11142017 | This refset provides values to document a measure of improvement or deterioration in wound healing.   |
| Wound exudate appearance refset | v .1    | 11142017 | This refset provides values to describe the consistency of exudate that is present in a wound. The values will be used for recording and retrieving the consistency of exudate. |
| Wound exudate appearance refset | v .1    | 11142017 | This refset provides values to describe the consistency of exudate that is present in a wound. The values will be used for recording and retrieving the consistency of exudate. |
| Presence absence refset         | v .1    | 11142017 | This refset provides values for recording and retrieving information about the presence or absence of a clinical observation  |
| Wound edge description refset   | v .1    | 11142017 | This refset provides values for recording and retrieving descriptions of a wound edge.  |



# Ref Set Editorial Guidelines

- All values requested need a text definition
- Refset metadata includes the observable entity it results
  - Used for import into VSAC
  - “This reference set contains values used to describe the periwound condition, referencing the LOINC concept Description of Periwound 72301-5”
- Values for 'color' reference sets (e.g. black, yellow, red) will be drawn from the SNOMED CT *Qualifier Value* hierarchy
- Use “Skin of XXX” for body locations for wound and skin assessments
  - Not the bone
- Qualitative content that references ordinal answers for commonly used questions (e.g. urine glucose = 1-4+, wound discharge = scant to large, etc.) should reference an authoritative source that provides unambiguous (e.g. quantitative) meanings for the content.

# Let's look at the content

- Spreadsheet embedded in the Agenda
- [TermSpace](#) browse Ref sets.

# Questions



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### Milestones Achieved

- SOLOR SNOMED Skin/Wound Assessment Extension Released

### Artifacts Delivered

- Skin/Wound Assessment Extension v.1 Release Files – November 14<sup>th</sup> (24 refsets created)

### Risks

- Need a way to provide click-through license for terminology standards to distribute value sets/refsets?

### Concerns

- Distribution of Extension
- Definition of refsets from SMEs

### Upcoming Milestones

- Clarify/Define QA Process for v.1 release
- Define next release

### New and Noteworthy

- SNOMED has changed their policy on modifying SNOMED International release to be consistent with SNOMED License
- SNOMED/NLM indicated they wanted content submitted that has been tested, integrated into a coherent model w/ supporting content

### Dependencies

- HSPC registration process for terminology licenses

### Scope Added

- Wound Trend refset
- Wound Episode refset

### Scope Removed

- Periodicity refset
- Wound Tunneling refset