#### HSPC | the healthcare services platform consortium<sup>™</sup>

#### **HSPC Skin/Wound Project**

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#### Skin Assessment Modeling Background

- KP-VA Collaborative in 2010 defined an information model driven by nursing practice to enable:
  - Data capture
  - Data re-use
  - Data sharing within and outside organizations.
  - Measurement and extraction of data for meaningful EHR use to support quality, safety, efficiency and decision support.
- 2013 ONC mandated the model and terminology for a Mobilizing Data for Pressure Ulcer Challenge Grant
- 2016 pressure injury criteria updated by NPUAP
- 2017 HSPC Pilot Project

#### **Information Model Example**

OpenCEM Browser October 20, 2016 Release	
skin Compiled Tree CEML Source Definition XCEML	
BreastSkinLesionAssert      BreastSkinRetractionAssert      BreastSkinThickeningAssert      CandidaAlbicansReactionWheal2DPostDoseCandidaAlbican      CandidaAlbicansReactionWheal2DPostDoseCandidaAlbican      CandidaAlbicansReactionWheal2DPostDoseCandidaAlbican      CandidaAlbicansReactionWheal2DPostO1MLCoccidioidinIDDiarr      EpitheliaISkinAntibodiesLabObs      HistoplasminReactionWhealDiamPtSkinOrdLabObs      ICentraSkinColorEval      ICentraSkinColorEval	
InsertionSiteSkinCondition [4 values found]	
KaryotypeFindPtSkinNarLabObs    Interpretation [0-1]      MumpsReactionWheal2DPost01MLMumpsIDDiamPtSkinQni    ReportedReceived [0-M]    1: Cold Skin      MumpsVirusReactionWhealDiamPtSkinOrdLabObs    Interpretation [0-1]    1: Cold Skin      SkinAbrasionAssert    Verified [0-M]    2: Cool Skin      Wurm SkinOrdLabObs    Interpretation [0-1]    1: Cold Skin      SkinAbrasionAssert    Interpretation [0-1]    1: Cold Skin	
SkinAssessmentInterpretation [0-1]	
SkinAssessmentPanel    Image: Comment IntegrityEval [0-1]      SkinBreakdownAssert    Image: Comment IntegrityEval	

# Request 1: Rename "Skin alteration of Wound" to "Wound Type"

#### 72300-7 Skin alteration of Wound

#### NAME

Fully-Specified Name:	Component Skin alteration	Propert Type	<b>yTime</b> Pt	System Wound	Method
Long Common Name: Shortname:	Skin alteration of Wound Skin alter Wnd				
BASIC ATTRIBUTES					
Class/Type:	H&P.PX/Clinical				
First Released in Version:	2.42				
Last Updated in Version:	2.42				
Order vs. Obs.:	Observation				
Status:	Active				

#### EXAMPLE ANSWER LIST (LL2215-3)

SEQ	Answer	Answer I
1	Abrasion	LA7410-9
2	Avulsion	LA18220-
3	Bite	LA19023-
4	Blister	LA19024-
5	Burn	LA7318-4
6	Gunshot wound	LA17212-

**Request 2:** Remove "Non Wound" panel and observations from the Wound Assessment Panel

#### Rationale

• 72291-8

- Devices will have their own pattern with associated attributes
- Codes to remove from Wound Assessment Panel
  - 72286-8 Wound dressing panel
  - 39121-9 Dressing type
  - 72305-6 Wound closure type
  - 81664-5 Drain number
    - Drainage amount from device

# Request 3: Split Wound Bed and Edge Panel into Separate Panels

#### • Deprecate 72372-6

#### Wound bed and edge panel

#### PANEL HIERARCHY

LOINC#	LOINC Name			R/O/C
72372-6	Wound bed and edge panel			С
72371-8	Appearance of Wound base			R
72370-0	Area of identified wound bed appearance/Area of wound bed of Wound ba	se		С
<u>39132-6</u>	Color of Wound base			0
72304-9	Edge of wound description			0
<u>39133-4</u>	Color of Wound edge			0
<u>72305-6</u>	Wound closure type			0
ME				
Fully-Specified Name:	Component	Property	Time	Syste
	Wound bed & edge panel		Pt	Wou

# Request 3: Split Wound Bed and Edge Panel into Separate Panels

- New Wound Bed Panel
  - 72371-8 Appearance of wound base
  - 39132-6 Color of wound base
  - 72370-0 Area of identified wound bed appearance/Area of wound bed of wound base
  - New Wound bed area % by color
    - Similar to 72370-0. This would be the percent of the area identified as a specific wound bed color: black, red, pink or yellow (black=eschar, yellow=slough, pink=epithelializing, red=granulation)

### Request 3: Split Wound Bed and Edge Panel into Separate Panels

- New Wound Edge Panel
  - 72304-9 Edge of wound description
  - 39133-4 Color of wound edge

 Wound Closure Type not added to the new panel

# Request 4: Split Wound Tunneling and Undermining Panel

#### Deprecate 72299-1

LOINC#	LOINC Name			R/O/C	Cardinality	Ex. UCUM Units
72299-1	Wound tunneling and undermining panel			С		
72298-3	Tunneling of Wound			R		
72296-7	Tunneling [Length] of Wound			С		cm
72297-5	Tunneling clock position of Wound			С		
72295-9	Undermining of Wound			R		
72293-4	Undermining [Length] of Wound			С		cm
72294-2	Undermining clock position of Wound			С		
AME						
Fully-Specified Name:	Component	Property	Time	Syste	m Scale	Method
	Wound tunneling & undermining panel		Pt	Woun	ıd -	
ASIC ATTRIBUTES						
Class/Type:	PANEL.H&P/Clinical					
Panel Type:	Panel					
First Released in Version:	2.42					
Last Updated in Version:	2.42					
Order vs. Obs.:	Order					
Status:	Active					
d PARTY COPYRIGHT	a					

# Request 4: Split Wound Tunneling and Undermining Panel

- New Wound Undermining Panel
  - 72295-9 Undermining of wound
  - 72294-2
  - 72293-4
- Undermining clock position Undermining length of wound

# Request 4: Split Wound Tunneling and Undermining Panel

New
 72298-3
 72297-5
 72296-7
 Wound Tunneling Panel
 Wound Tunneling of wound
 Wound Tunneling of wound

#### **Request 5: Wound Exudate Panel**

- Remove 72291-8 'Drainage amount from device' from this panel. That should be specific to drainage devices. Use 'drainage amount of wound'.
- NEW Wound Exudate Presence (Exudate:Find:Pt:Wound:Ord with present and absent answers)
- NEW Wound Exudate Odor Type (Odor:Type:Pt:Wound.exudate:Nom)

72292-6	Wound exudate panel
PANEL HIERARCH	IY
LOINC#	LOINC Name
72292-6	Wound exudate panel
<u>39116-9</u>	Drainage amount of Wound
72291-8	Drainage amount from device of Exudate from wound
72288-4	Odor of Exudate from wound
72289-2	Color of Exudate from wound
72290-0	Appearance of Exudate from wound

### Request 6: Add Observations

- Codes to add to Wound Assessment Panel
  - 76425-8 Date of onset Reported
    - May need new without method of "Reported" discuss
    - Request new = Date of onset
  - New Causative Agent
    - Note this encompasses "Physical Object", "Substance", "Organism", "Physical Force"
    - Recommend this is a general concept and not specific to wound?
  - New Date Abated
    - Date the wound was decreased, reduced, or diminished
  - New Clinical Status
    - Healed, chronic, closed, in remission, ruled out
  - New Wound Internal Structure Visible
    - Bone, Subcutaneous tissue, muscle, tendon, blood vessel etc.

### Request 6: Add Observations Cont'd

- Codes to add to Wound Assessment Panel
  - New
    Present on Admission
    - Did a specific observation exist when the patient was admitted
  - New Episode
    - First, new, old, on-going
  - New Trend
    - Increasing, decreasing, improving, worsening
  - New Pressure Injury Association Panel
    - New Pressure Point Related Injury
      - Yes/No
    - New Device-related Pressure Injury
      - Yes/No

### Request 6: Add Observations Cont'd

- Codes to add to Wound Assessment Panel
  - New Self-inflicted Injury
    - Yes/No
  - New Associated Signs and Symptoms
    - Suggest making this with an unspecified System?
    - Examples of findings could be itching, pain, impaired mobility etc.
  - New Finding Method
    - Susan?
  - New Wound Image
  - New Associated Precondition
    - Suggest making this with an unspecified System?
    - Examples: spinal cord injury, paralysis, immobility
  - New Verification Status
    - confirmed, refuted, ruled-out, provisional, differential, error, entered-in-error, and unknown

#### Request 6: Add Observations Cont'd

- Codes to add to Wound Assessment Panel
  - New Alleviating Factor
    - Activities that reduce the severity of the pathology
  - New Exacerbating Factor
    - activities that aggravate the severity of the pathology

### Request 7 : Update Components

• 'Pressure ulcer' to 'Pressure injury'

#### Request 8: Extras if there is time

• For Clinical Assert and base CEM qualifiers:

NEW	Assertion	NEW	EndTime
NEW	Comment	NEW	PatientLocation
NEW	ExternalIdentifier	NEW	ProviderLocation
NEW	Aggregate	NEW	Reason
NEW	Action	NEW	ActionMethod
NEW	StartTime	NEW	AssociatedPrecondition
NEW	Participant	NEW	AssociatedSignAndSymptom
NEW	Role	NEW	ClinicalStatus
NEW	PersonIdentifier	NEW	VerificationStatus
NEW	SimpleName	NEW	ExacerbatingFactor

# Questions

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How do you want this request submitted?