**HL7 CDS WG Conference Call**

**28 Nov 2018, noon US ET**

**Attendees:**

[ ] Denisha Abrams

[ ] Tomasz Adamusiak

[ ] Kurt Allen

[ ] Brian Alper

[ ] Rita Altamore

[ ] Michael Altmann

[ ] Joel Amoussou

[X] Lisa Anderson

[ ] Chad Armstrong

[ ] Noam Arzt

[ ] Rebecca Baker

[ ] Kimberly Balliet

[ ] Jennifer Barrett

[ ] Cynthia Barton

[ ] Bilal Baydoun

[ ] Louis Bedor

[ ] Anna Bentler

[ ] Swapna Bhatia

[ ] Jaspreet Birk

[ ] Bridget Blake

[ ] Mike Bohl

[ ] Chris Bontempi

[ ] Keith Boone

[ ] Joe Bormel

[X] Aziz Boxwala

[X] Richard Boyce

[ ] Thompson Boyd

[ ] Bruce Bray

[ ] Jennifer Brush

[ ] Yiscah Bracha

[ ] Jennifer Brush

[ ] Russell Buchanan

[ ] Nathan Bunker

[ ] Anna Burchfield

[ ] Susan Campbell

[ ] Hector Cariello

[ ] Bob Carmichael

[ ] Lizzie Charbonneau

[ ] Daryl Chertcoff

[ ] Julia Chan

[ ] Quinn Chen

[ ] Myung Choi

[ ] Alex Connor

[ ] Lorraine Constable

[ ] Sarah Corley

[ ] Angela Crovetti

[ ] Jacob Crump

[ ] Clayton Curtis

[ ] Nathan Davis

[X] Guilherme Del Fiol

[ ] John C. DeLong

[ ] Paul Denning

[ ] Gay Dolin

[ ] Karen Eberhardt

[ ] Floyd Eisenberg

[ ] Richard Esmond

[ ] Maria Esquela

[ ] Elitsa Evans

[ ] Seena Farzaneh

[ ] Pavla Frazier

[ ] Robert Freimuth

[ ] Emory Fry

[ ] Krishna Gazula

[ ] Guy Ginton

[ ] Carol Graham

[ ] Matthew Greene

[ ] Michael Guarnaccia

[ ] Varadraj Gurupur

[ ] Marc Hadley

[ ] Shirin Haider-Zaidi

[ ] Claudia Hall

[ ] Steven Hardy

[ ] Peter Haug

[ ] Yan Heras

[ ] Bas van den Heuvel

[ ] Lindsey Hoggle

[ ] Yanyan Hu

[ ] Stan Huff

[ ] Steve Hufnagel

[ ] Vojtech Huser

[ ] Bob Hussey

[ ] Andrew Iskander

[ ] Jesse James

[ ] Lenel James

[ ] Robert Jenders

[ ] Allen Johnson

[ ] Chris Johnson

[X] Ken Kawamoto

[ ] Rosemary Kennedy

[ ] Lester Keeper

[ ] Jae Kim

[ ] Bill Kleinebecker

[ ] Stephanie Klepacki

[ ] Paul Knapp

[ ] Ryan Knepp

[ ] Mark Kramer

[ ] Adam Kroetsch

[X] Thomson Kuhn

[ ] Polina Kukhareva

[ ] Tammy Kuschel (LaFavor)

[ ] Sweta Ladwa

[ ] Peter Lamb

[ ] Robert Lario

[ ] Cindy Larson

[ ] Eric Larson

[ ] Oliver Lawless

[ ] Preston Lee

[ ] Victor Lee

[ ] David Lobach

[ ] Bill Lord

[ ] Genny Luensman

[ ] Rick Maguire

[ ] Josh Mandel

[ ] Chris Markle

[ ] Stacey Marovich

[ ] Brett Marquard

[ ] Jason Mathews

[ ] Christy May

[ ] Jim May

[ ] Zachary May

[ ] Henry Mayers

[ ] Rob McClure

[ ] Ashley McCrea

[ ] Lloyd McKenzie

[ ] Clem McDonald

[ ] Charlie Mead

[ ] Chris Melo

[ ] William Michaels

[ ] Linda Michaelson

[ ] Chris Millet

[ ] Maiko Minami

[ ] Bernadette Minton

[ ] Sue Mitchell

[ ] Chris Moesel

[ ] Khadija Mohamed

[ ] Mark Monterastelli

[ ] Alicia Morton

[ ] Raj Muthukkannan

[ ] Claude Nanjo

[ ] Lisa Nelson

[ ] Jared Nichols

[ ] Tom Oniki

[ ] M’Lynda Owens

[ ] Varsha Parekh

[ ] Jamie Parker

[ ] Birju Patel

[ ] Reshma Patel

[ ] Branis Pesich

[ ] Anne Pollock

[ ] Dennis Polling

[ ] Vadim Polyakov

[ ] Diana L. Proud-Madruga

[ ] Chris Pugliese

[ ] Joseph (Joe) Quinn

[ ] Divya Raghavachari

[ ] Nadia Ramey

[ ] Stan Rankins

[ ] Lori Reed-Fourquet

[X] Thomas Reese

[X] Bryn Rhodes

[ ] Virginia Riehl

[ ] Mark Roche

[ ] Salvador Rodriguez

[ ] Martin Rosner

[ ] Juliet Rubini

[ ] Sarah Ryan

[ ] Deidre Sacra

[ ] Brian Scheller

[ ] Julie Scherer

[ ] Chris Schuler

[ ] Rayna Scott

[ ] Atanu Sen

[ ] Mark Shafarman

[ ] David Shields

[ ] Andrew Simms

[ ] Julia Skapik

[ ] Andrey Soares

[ ] Sharon Solomon

[ ] Davide Sottara

[ ] Travis Stenerson

[ ] Michael Sterly

[ ] Greg Stevens

[ ] Eileen Storey

[ ] Howard Strasberg

[ ] Lee Surprenant

[ ] Ashley Swain

[ ] Elaine Taylor

[ ] Rob Thomas

[ ] Aldo Tinoco

[ ] Sarah Tonn

[ ] Rita Torkzadeh

[X] Bas van den Heuvel

[ ] Matt Varghese

[ ] Viet Nguyen

[ ] Serafina Versaggi

[X] Isaac Vetter

[ ] Mary Visceglia

[ ] Kavishwar (Kavi) Wagholikar

[ ] Jason Walonski

[ ] Yunwei Wang

[X] Phillip Warner

[ ] Adam Wendt

[ ] Ben West

[ ] Robin Williams

[ ] Missy Willoughby

[ ] Darrell Woelk

[ ] Tyler Woelk

[ ] Cathy Welsh

[ ] Su-Hsiu Wu

[X] Patrick Yep

[ ] Julia Xu

[ ] Shirin Zaidi

[ ] Ning Zh

[ ] Andrew McIntyre

[ ] Tatyana Sandler

[ ] Richard Plow

[ ] Peter Scott

[ ] Srikarthikeyan Dritharashtrar

[ ] Kathleen Connor

[ ] Elizabeth Fitzwater

[ ] Kevin Shekleton

[ ] Ilkka Kunnamo

[ ] Andy Gregorowicz

[ ] Kevin Olbrich

[ ] Saurav Chowdhury

[ ] Peter Li

[ ] Nick Radov

[ ] Rob Samples

[X] Christina Wood

[ ] Patrick OConnor

[ ] Deepika Appana

[X] Rhonda Reyes

[X] Charles Lamb

**Minutes:**

1. CDS Hooks ballot reconciliation spreadsheet review/approval
   1. Ken moves/Guilherme seconds – Aff=13/Neg=0/Abst=0
2. Update on CDS Hooks publication
   1. Publication targeted for January
3. CDS Hooks discussion – proposal for new hooks (Isaac Vetter and Aziz Boxwala)
   1. condition-create:
      * Triggered when a user adds a problem/condition.
      * Should it be triggered both when a condition is added to the patient’s problem list AND as an encounter diagnosis (anytime a condition is created anywhere in the EHR)? Concern about triggering every time a recurring encounter diagnosis is added.
      * Consensus that it should trigger only from the problem list (FHIR conditions that have a category=problem-list-condition). Hook name will be changed to problem-list-condition-create.
      * Condition.ClinicalStatus: will remove status from the definition of the hook. The definition is tied to the workflow, i.e. when a clinician creates a new condition.
      * According to hook maturity model, the create-condition has a maturity of “Submitted” (level 1 out of 6)
   2. allergyintolerance-create: when a user adds an allergy or intolerance
      * Will look for use cases, since an MA or even the patient often times enter allergies in the EHR.
   3. “create” hooks are triggered only when an item is created, not when they are updated.
   4. order-select
      * Currently we have medication-prescribe and order-review, which have caused confusion.
      * Existing CPOE systems allow entering different types of orders besides medications, so it may not make sense to have separate hooks for medications and other orders.
      * Context includes both orders being selected (selections attribute) and draft orders (orders) which still need to be signed.
      * Question about behavior within order sets. Should they trigger order-select and how/when (e.g., trigger for preselected items or only items that are actively checked)? Pending discussion / no consensus reached.
      * medication-prescribe: deprecate vs. clarify its intent
   5. order-sign
      * Fires when clinician signs one or more orders.
      * Context contain all order details (unlike order-select)
      * Deprecate order-review hook vs. clarify its intent.

**Next week:**

1. Continue discussion on new hook proposals
2. CDS Hooks clinical reasoning connectathon tracks