**HL7 Patient Care WG**

**FHIR Resources Management**

**March 20, 2014**

Participation Information

Phone Number: +1 770-657-9270

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Web Meeting Info

www.webex.com

Meeting number 198 139 396

**Attendees:**

Elaine Ayres

Stephen Chu

Jay Lyle

Lee Unangst

Kevin Coonan

Russ Leftwich

Igor Sirkovich

Emma Jones

David Hay

Lisa Nelson

**AGENDA:**

1. Review current FHIR resources and management process
	1. Validation and DSTU comments
	2. Profiles – development and availability
	3. What project scope statements are required for this work?
2. New FHIR resources
	1. Review of topics and new project scope statement(s)
		1. Referral
		2. Care transfer
	2. Process for approval and tracking
3. Agenda for next meeting (March 27, April 3)

Current Patient Care FHIR Resources:  <http://www.hl7.org/implement/standards/FHIR-Develop/?ref=learnmore>

The FHIR issue tracker in gForge:

<http://gforge.hl7.org/gf/project/fhir/tracker/?action=TrackerItemBrowse&tracker_id=677>

All resource proposals

<http://wiki.hl7.org/index.php?title=Category:FHIR_Resource_Proposal>

Referral skeleton

<http://wiki.hl7.org/index.php?title=Referral_FHIR_Resource_Proposal>

**Current Clinical FHIR Resources**

1. Adverse Reaction
2. Allergy Intolerance
3. Care Plan
4. Condition
5. Family History
6. Procedure
7. Questionnaire

David Hay walked the group through the elements of a resource at <http://www.hl7.org/implement/standards/FHIR-Develop/?ref=learnmore>

Using the resource “Condition” as an example the following constructs of a FHIR resource were covered:

<[**Condition**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition) xmlns="http://hl7.org/fhir"> 

 <!-- from [Resource](http://www.hl7.org/implement/standards/FHIR-Develop/resources.html): [extension](http://www.hl7.org/implement/standards/FHIR-Develop/extensibility.html), [modifierExtension](http://www.hl7.org/implement/standards/FHIR-Develop/extensibility.html#modifierExtension), language, [text](http://www.hl7.org/implement/standards/FHIR-Develop/narrative.html#Narrative), and [contained](http://www.hl7.org/implement/standards/FHIR-Develop/references.html#contained) -->

 <[**identifier**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition.identifier)><!-- **0..\*** [Identifier](http://www.hl7.org/implement/standards/FHIR-Develop/datatypes.html#Identifier) External Ids for this condition --></identifier>

 <[**subject**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition.subject)><!-- **1..1** [Resource](http://www.hl7.org/implement/standards/FHIR-Develop/references.html#Resource)([Patient](http://www.hl7.org/implement/standards/FHIR-Develop/patient.html#Patient)) Who has the condition? --></subject>

 <[**encounter**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition.encounter)><!-- **0..1** [Resource](http://www.hl7.org/implement/standards/FHIR-Develop/references.html#Resource)([Encounter](http://www.hl7.org/implement/standards/FHIR-Develop/encounter.html#Encounter)) Encounter when condition first asserted --></encounter>

 <[**asserter**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition.asserter)><!-- **0..1** [Resource](http://www.hl7.org/implement/standards/FHIR-Develop/references.html#Resource)([Practitioner](http://www.hl7.org/implement/standards/FHIR-Develop/practitioner.html%22%20%5Cl%20%22Practitioner)|[Patient](http://www.hl7.org/implement/standards/FHIR-Develop/patient.html#Patient)) Person who asserts this condition --></asserter>

 <**[dateAsserted](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html%22%20%5Cl%20%22Condition.dateAsserted%22%20%5Co%20%22Estimated%20or%20actual%20date%20the%20condition/problem/diagnosis%20was%20first%20detected/suspected.)** value="[[date](http://www.hl7.org/implement/standards/FHIR-Develop/datatypes.html#date)]"/><!-- **0..1** When first detected/suspected/entered -->

 <[**code**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition.code)><!-- **1..1** [CodeableConcept](http://www.hl7.org/implement/standards/FHIR-Develop/datatypes.html#CodeableConcept) [Identification of the condition, problem or diagnosis](http://www.hl7.org/implement/standards/FHIR-Develop/valueset-condition-code.html) --></code>

 <[**category**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition.category)><!-- **0..1** [CodeableConcept](http://www.hl7.org/implement/standards/FHIR-Develop/datatypes.html#CodeableConcept) [E.g. complaint | symptom | finding | diagnosis](http://www.hl7.org/implement/standards/FHIR-Develop/valueset-condition-category.html) --></category>

 <[**status**](http://www.hl7.org/implement/standards/FHIR-Develop/condition-definitions.html#Condition.status) value="[[code](http://www.hl7.org/implement/standards/FHIR-Develop/datatypes.html#code)]"/><!-- **1..1** [provisional | working | confirmed | refuted](http://www.hl7.org/implement/standards/FHIR-Develop/condition-status.html) -->

1. A 1..1 element such as “Subject” is required.
2. A 0..1 element such as “Encounter” is optional.
3. Resource (Patient) points to another resource
4. Status has coded options e.g. provisional, working, confirmed, refuted. This is termed a “codeable concept”.

***TO DO: Patient Care should evaluate these codes.***

4.5.2.1 Terminology Bindings 

|  |  |  |  |
| --- | --- | --- | --- |
| **Path** | **Definition** | **Type** | **Reference** |
| Condition.codeCondition.relatedItem.code  | Identification of the Condition or diagnosis. | [Example](http://www.hl7.org/implement/standards/FHIR-Develop/terminologies.html#example) | [http://hl7.org/fhir/vs/condition-code](http://www.hl7.org/implement/standards/FHIR-Develop/valueset-condition-code.html) |
| Condition.category  | A category assigned to the condition. E.g. finding | Condition | diagnosis | concern | condition | [Incomplete](http://www.hl7.org/implement/standards/FHIR-Develop/terminologies.html#incomplete) | [http://hl7.org/fhir/vs/condition-category](http://www.hl7.org/implement/standards/FHIR-Develop/valueset-condition-category.html) |
| Condition.status  | The clinical status of the Condition or diagnosis | [Fixed](http://www.hl7.org/implement/standards/FHIR-Develop/terminologies.html#code) | [http://hl7.org/fhir/condition-status](http://www.hl7.org/implement/standards/FHIR-Develop/condition-status.html) |
| Condition.certainty  | The degree of confidence that this condition is correct | [Example](http://www.hl7.org/implement/standards/FHIR-Develop/terminologies.html#example) | [http://hl7.org/fhir/vs/condition-certainty](http://www.hl7.org/implement/standards/FHIR-Develop/valueset-condition-certainty.html) |
| Condition.severity  | A subjective assessment of the severity of the condition as evaluated by the clinician. | [Example](http://www.hl7.org/implement/standards/FHIR-Develop/terminologies.html#example) | [http://hl7.org/fhir/vs/condition-severity](http://www.hl7.org/implement/standards/FHIR-Develop/valueset-condition-severity.html) |
| Condition.relatedItem.type  | The type of relationship between a condition and its related item | [Fixed](http://www.hl7.org/implement/standards/FHIR-Develop/terminologies.html#code) | [http://hl7.org/fhir/condition-relationship-type](http://www.hl7.org/implement/standards/FHIR-Develop/condition-relationship-type.html) |

The group then reviewed terminology bindings – some are fixed, others incomplete, or examples. A profile can select a preferred terminology binding. The group questioned the impact of multiple terminology bindings and the impact on interoperability.

A profile may also constrain or extend a resource or point to another profile. The group then discussed the use of value sets such as a value set using SNOMED codes. In that case a resource can include a tag that refers to the profile with the defined value set.

*QUESTION to Lloyd – what if value sets are not aligned?*

Are profiles registered anywhere? (e.g. for the use of specific value sets)?

This is a governance issue.

**TO DO: PC WG needs to review resource terminology bindings.**

How to comment:

Use G Forge for posting and tracking comments related to PC WG resources.

Note that comments can also be posted at the bottom of each resource page – these can be monitored but are not used to effect changes.

TO DO: PC WG needs to decide how to manage resource comments posted on GForge.

Search Parameters:

4.5.3 Search Parameters 

Search parameters for this resource. The standard parameters also apply. See [Searching](http://www.hl7.org/implement/standards/FHIR-Develop/search.html) for more information about searching in REST, messaging, and services.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Paths** |
| \_id | [token](http://www.hl7.org/implement/standards/FHIR-Develop/search.html#token) | The logical resource id associated with the resource (must be supported by all servers) |  |
| asserter | [reference](http://www.hl7.org/implement/standards/FHIR-Develop/search.html#reference) | Person who asserts this condition | Condition.asserter([Patient](http://www.hl7.org/implement/standards/FHIR-Develop/patient.html), [Practitioner](http://www.hl7.org/implement/standards/FHIR-Develop/practitioner.html)) |
| category | [token](http://www.hl7.org/implement/standards/FHIR-Develop/search.html#token) | The category of the condition | Condition.category |
| code | [token](http://www.hl7.org/implement/standards/FHIR-Develop/search.html#token) | Code for the condition | Condition.code |

The group then reviewed search parameters. A FHIR server must be able to deal with various search parameters.

TO DO: PC WG needs to review resources search parameters.

Profiles:

There are different levels of profiles:

1. Profiles at the HL7 international level (for resources no found in the main resource list)
	1. Realm specific profiles
		1. Implementation specific profiles

A Work Group can create profiles using core resources.

Resource Maintenance:

1. PSS not needed for maintenance of current resources.
2. Review elements of resources as noted based on subject matter expertise.
3. Use GForge for posting comments and for monitoring comment posted by others.
4. Write profiles as necessary to supplement core resources.
5. Note resources that may be shared between groups e.g. questionnaire…..

For New Resources:

1. Use a FHIR PSS:

 

1. Provide resource descriptions (like storyboards)
2. Begin tooling – uses an excel spreadsheet

Requests of FMG:

1. Provide PC WG with FHIR tutorial slides so they can be posted on the wiki.

Next Call – Thursday, March 27 at 5 PM.

1. Review Agenda
2. David Hay will give a tutorial on FHIR Profiles
3. Review of Stephen Chu’s PSS for referrals
4. Plan agenda for next meeting – Thursday, April 3 at 5 PM.

