**Axiom template for caries findings**

instances in *italics*, relations in **bold**, class names are capitalized

\*\* means to adjust for appropriate subtype (e.g., tooth, surface, restoration material)

**- Declare entities:**

*:patient* **rdf:type** :Human Dental Patient

*:provider* **rdf:type** :Dental Health Care Provider

*:tooth* **rdf:type** :Tooth \*\*

*:surface* **rdf:type** :Surface Enamel of Tooth\*\*

*:finding* **rdf:type** :Caries Finding # need to define uri schema for findings

*:lesion* **rdf:type** :Carious Lesion of Tooth # and lesions; we can post on the GitHub

**- Relate entities**

*:lesion* **part of** *:surface*

*:surface* **part of** *:tooth*

*:tooth* **part of** *:patient*

*:finding* **is about** *:lesion* # if no surface info, may have to be about the tooth

***-* Declare evaluation, when it occurred, and the visit it is part of**

## In Eaglesoft, all we know is the date the condition is entered (i.e. date\_entered).

## We do **not** have a specific oral evaluation record to match up with the condition.

## So, use the general class :Oral Evaluation for the *:evaluation*.

*:visit* **rdf:type** :Dental Visit

*:evaluation* **rdf:type** :Oral Evaluation

*:evaluation* **part of** *:visit*

*:evaluation* **occurrence date** <xsd:dateTime>

*:finding* **occurrence date** <xsd:dateTime>

**- Specify the inputs and outputs of procedure**

*: evaluation* **has\_specified\_input** *:provider*

*: evaluation* **has\_specified\_input** *:patient*

*:evaluation* **has\_specified\_input** *:tooth 🡨 Chen added, please confirm*

*:evaluation* **has\_specified\_output** *:finding*

**- Add organization identifier annotation**

*:patient* **organization identifier** “*NDPBRN practice #*”

*:provider* **organization identifier** “*NDPBRN practice #*”

*:visit* **organization identifier** “*NDPBRN practice #*”

*:finding* **organization identifier** “*NDPBRN practice #*”

*:evaluation* **organization identifier** “*NDPBRN practice #*”