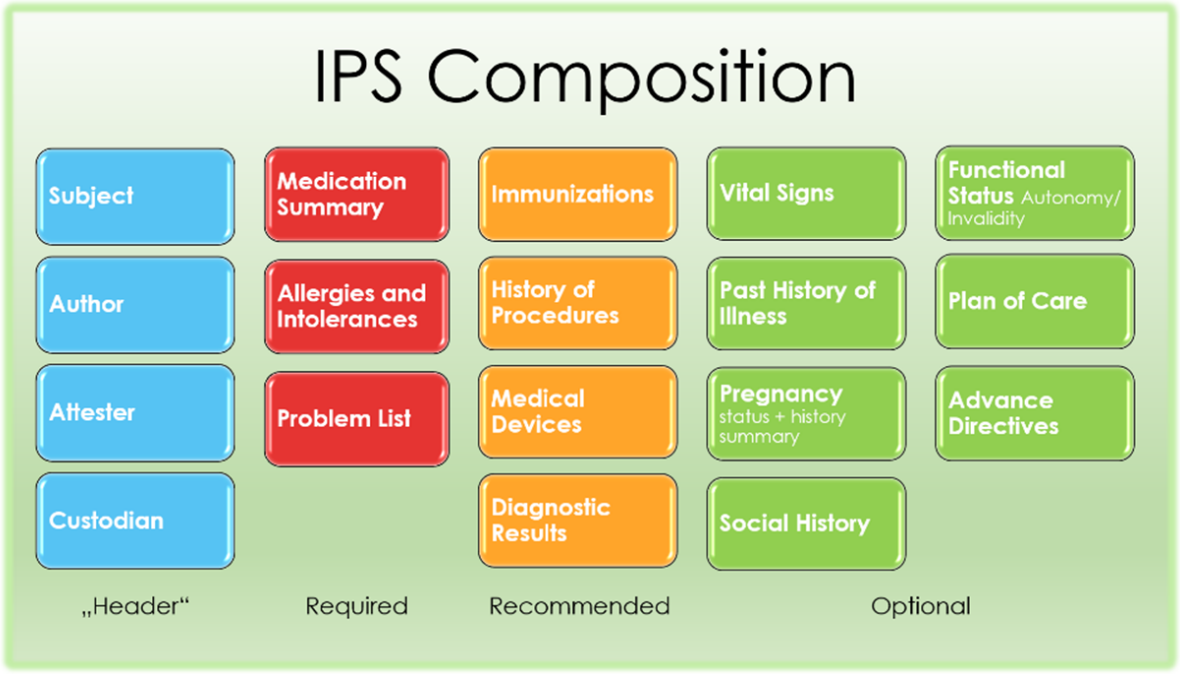
GELLO and the FHIR4 based International Patient Summary (IPS)

As has been stated previously GELLO is model agnostic. The International Patient Summary (IPS) is a health summary structure for patients who may need health care in another country.

It has the usual resources according to the '80/20 rule' .

The following diagram is taken from the home page for it located at https://hl7.org/fhir/uv/ips/ipsStructure.html



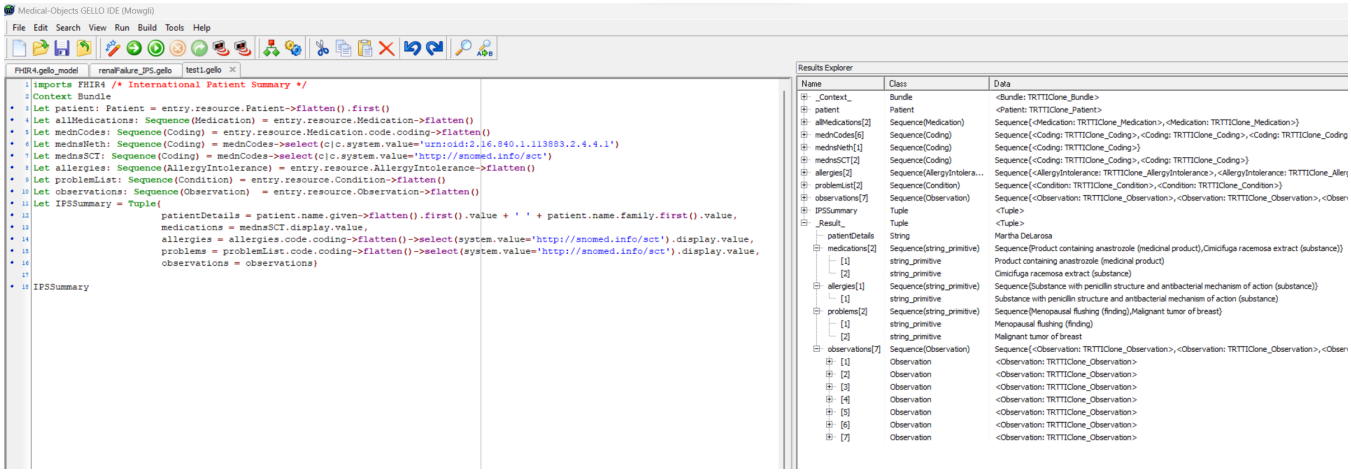
It is an ISO standard avail in Australia as **AS ISO 27269:2022**

A gello model can be made compatible with it and the FHIR4 structure it inherits. This in turn allows CDS script to run against IPS files.

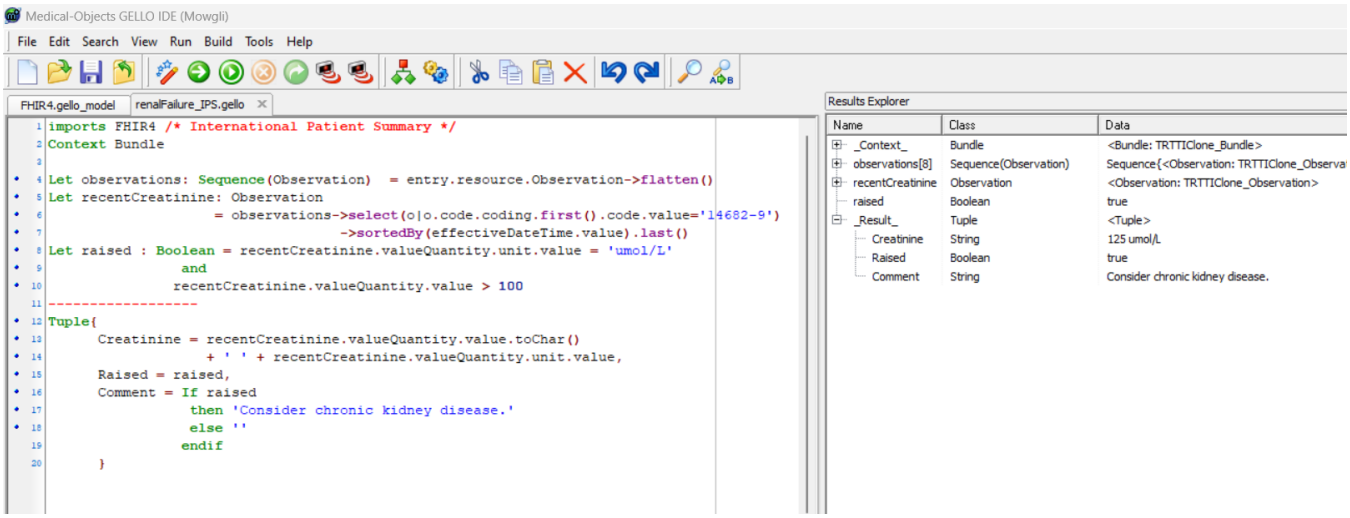
Instance data has been built for the purposes of this demonstration but the model and the data are not shown here in the interests of brevity.

The following two examples show the GELLO editor script and results for two gello file executions.

First lets just see a text based view of the data, returned as a tuple:



and lets ask if their renal function is ok:


Medical-Objects GELLO IDE (Mowgli)
File Edit Search View Run Build Tools Help
FHIR4.gello_model
renalFailure_IPS.gello
imports FHIR4 /* International Patient Summary */
Context Bundle
Let observations: Sequence(Observation) = entry.resource.Observation->flatten()
Let recentCreatinine: Observation
= observations->select(o|o.code.coding.first().code.value='14682-9')
->sortedBy(effectiveDateTime.value).last()
Let raised : Boolean = recentCreatinine.valueQuantity.unit.value = 'umol/L'
and
recentCreatinine.valueQuantity.value > 100

Tuple{
Creatinine = recentCreatinine.valueQuantity.value.toChar()
+ ' ' + recentCreatinine.valueQuantity.unit.value,
Raised = raised,
Comment = If raised
then 'Consider chronic kidney disease.'
else ''
endif
}
Results Explorer
Name
Class
Data
Context
Bundle
<Bundle: TRTTIClone_Bundle>
observations[8]
Sequence(Observation)
Sequence{<Observation: TRTTIClone_Observa
recentCreatinine
Observation
<Observation: TRTTIClone_Observation>
raised
Boolean
true
Result
Tuple
<Tuple>
Creatinine
String
125 umol/L
Raised
Boolean
true
Comment
String
Consider chronic kidney disease.