

Figure 1: IntelliSense detection of “URI” type

```
215 union "Pharmacy Claim"
216   list<System.Code>
217   define "URI ValueSet":
218     "URI"
```

Figure 2: “URI” established as “valueset”

```
valueset "URI": 'https://www.ncqa.org/fhir/valueset/2.16.840.1.113883.3.464.1004.1255'
```

Figure 3: ValueSet “return”

```
▼ codes: (7) [{...}, {...}, {...}, {...}, {...}, {...}, {...}]
> 0: {code: '54398005', system: 'http://snomed.info/sct', version: '2019.03.18AB', display: undefined}
> 1: {code: '78337007', system: 'http://snomed.info/sct', version: '2019.03.18AB', display: undefined}
> 2: {code: '82272006', system: 'http://snomed.info/sct', version: '2019.03.18AB', display: undefined}
> 3: {code: '43692000', system: 'http://snomed.info/sct', version: '2019.03.18AB', display: undefined}
> 4: {code: 'J00', system: 'http://hl7.org/fhir/sid/icd-10-cm', version: '2019.1.18AA', display: unde}
> 5: {code: 'J06.0', system: 'http://hl7.org/fhir/sid/icd-10-cm', version: '2019.1.18AA', display: ur}
> 6: {code: 'J06.9', system: 'http://hl7.org/fhir/sid/icd-10-cm', version: '2019.1.18AA', display: ur}
  length: 7
> __proto__: Array(0)
oid: 'https://www.ncqa.org/fhir/valueset/2.16.840.1.113883.3.464.1004.1255'
version: 'Working'
```

Figure 4: Function with List<System.Code> parameter

```
define function "TEST Claim with Diagnosis 1"(claim List<FHIR.Claim>, diagnosisCodes List<System.Code>):
  (flatten(claim c
    return c.diagnosis)) C
  return if ((C.diagnosis as CodeableConcept) cDx
    where (singleton from (cDx.coding)) in diagnosisCodes) is not null
    then C
    else null
```

Figure 5: Function without List<System.Code> parameter

```
define function "TEST Claim with Diagnosis 2"([claim List<FHIR.Claim>]):  
  (flatten([claim c  
    return c.diagnosis])) C  
  return if ((C.diagnosis as CodeableConcept) cDx  
    where (singleton from (cDx.coding)) in "URI") is not null  
    then C  
    else null
```