import lxml.etree as ET

from fhir.resources import (

DocumentReference,

Practitioner,

Organization,

Patient,

Encounter,

Condition,

Observation,

Procedure,

DiagnosticReport,

)

# Parse QRDA document

qrda\_doc = ET.parse("path/to/qrda/document.xml")

root = qrda\_doc.getroot()

# Extract relevant data elements

patient\_data = root.xpath("QRDA/recordTarget/patientRole")

encounter\_data = root.xpath("QRDA/componentOf/encounter")

conditions\_data = root.xpath("QRDA/component/assessmentPerformed")

observations\_data = root.xpath("QRDA/component/observationPerformed")

procedures\_data = root.xpath("QRDA/component/procedurePerformed")

diagnostic\_report\_data = root.xpath("QRDA/component/result")

# Create FHIR resources

patient = Patient(

# map relevant data elements to FHIR fields

)

encounter = Encounter(

# map relevant data elements to FHIR fields

)

conditions = [

Condition(

# map relevant data elements to FHIR fields

) for data in conditions\_data

]

observations = [

Observation(

# map relevant data elements to FHIR fields

) for data in observations\_data

]

procedures = [

Procedure(

# map relevant data elements to FHIR fields

) for data in procedures\_data

]

diagnostic\_report = DiagnosticReport(

# map relevant data elements to FHIR fields

)

document\_reference = DocumentReference(

# map relevant data elements to FHIR fields

)

practitioner = Practitioner(

# map relevant data elements to FHIR fields

)

organization = Organization(

# map relevant data elements to FHIR fields

)