



## Test Driven Development II - Advanced - Exercises

### 02 - Complex Asserts - 01 - FHIRPath

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During this hands-on session of the Test Driven Development II - Advanced tutorial we will examine TestScripts that compare the use of JSONPath or XPath expression to FHIRPath expressions.

*\*TestScripts for this exercise are in the **FHIR3-0-1-DevDays17/TDD-2-Advanced/02-ComplexAsserts** Test Definitions*

#### Test Scenario

The use case for this test scenario involves two steps:

1. Create two new Patient resource instances using known, static fixtures
2. Search for the created Patients based on the known data from the static fixture

The success outcome is that the search operation will return greater than zero Patient matches.

#### TDD-2-Adv-02-Complex-01-fhirpath-patient-create-search-[xxx]

Create two new Patient resource fixtures in the setup section and then search for the created Patients using known values from the static fixtures.

##### Features

- ❖ Uses the setup section to initialize the FHIR system under test by creating the two Patient resource instances needed for the subsequent search test; *examine and become familiar with the TestScript*
- ❖ Examine the various search operation asserts that test the searchset Bundle contents and compare their expression logic

The focus of this test is to compare assert expressions of JSONPath / XPath versus FHIRPath.

- ❖ Observe the JSON formatted TestScript use of JSONPath and the XML formatted TestScript use of XPath compare them with the FHIRPath equivalent asserts; *what is the benefit of using the FHIRPath expressions?*
- ❖ *Based on your knowledge of FHIRPath, try to define additional FHIRPath asserts that test the searchset Bundle contents.*

Have fun, and remember to ask questions if you need help!