

Formal constraints

This exercise aims to allow you to familiarize yourself with creating FHIRPath constraints on your FHIR profile.

In this exercise, you will use FSH.

Exercises

1. Creating a FHIRPath expression

Through testing and looking at existing data, Alpha hospital has decided that another constraint needs to be added to the profile:

“If the patient has a temporary address, the period this address is in use should be filled in”

- Use the keyword ‘Invariant’ to create a new formal constraint
- Give the constraint a name/key, a severity and a description.
- The formal constraint can be created with the ‘implies’ operator in FhirPath, resulting in this expression for the constraint:
`(use = 'temp') implies period.exists()`
- Open your previously created Patient FSH file.
- Determine the appropriate element to put the constraint on, and use an ‘obeys’ rule to add the constraint.

2. (optional)

- Go to <https://hl7.github.io/fhirpath.js/> and test your FHIRPath expression.
- You can think of other formal constraints and try them as well.