

# 201906 Closing the circle - creating a new pathology data model using SNOMED CT

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## Summary

The presentation shows the thinking and process behind the newly developed data model for pathology with enhanced clinical context. The new data model allows for more efficient messaging and improves the clinical safety by linking the reason for the test result and treatment with clinical action.

## Audience

Clinical, Technical, Policy/administration

## Learning Objectives

1. to understand the extended request - test result circle
2. to understand the clinical significance of the newly proposed model
3. to learn how to use this data model for further pathology disciplines

## Abstract

The proposed presentation is about the newly developed model for enabling interoperable exchange of pathology results, using SNOMED CT elements.

The need for safe data exchange in pathology was never greater, however the tools were lacking and only recently became possible to fully express the clinical process associated with pathology tests in SNOMED CT.

A new loop model of the test request starts with the clinical need for the test - ie what question needs to be answered. This is expressed in SNOMED CT, then using the procedure codes in requesting in a granular way enables the practitioners to select the test in simple way, while the laboratory confirmation and characterisation of the tests enables the exact methodology to be recorded and also making comparability explicit between different methods.

The results are expressed in observable entities, the clinical advice is coded as diagnosis or finding, these two will form the report, which will be communicated to the requestor. It is then followed by a clinical action - dependent on the result, closing the loop of the clinical need - request - test-result- clinical action circle.

The results are transformed.

