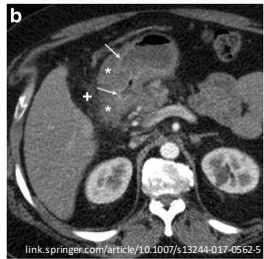
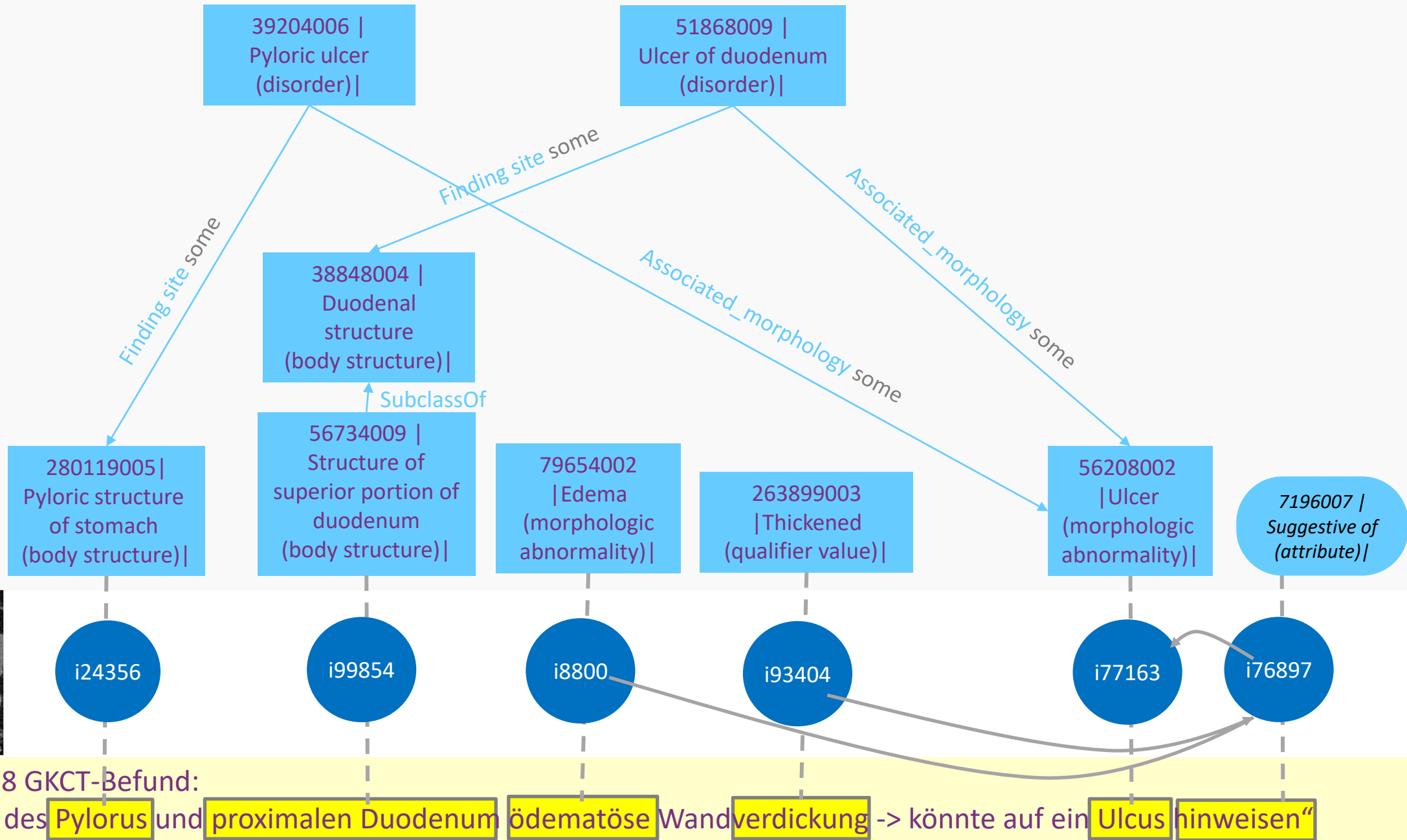


-
1.
How to transform linear output from text mining into graph structures: inferring pre-coordinated concepts out of fragmented ones?



„ 05.02.2028 GKCT-Befund:
im Bereich des Pylorus und proximalen Duodenum ödematöse Wandverdickung -> könnte auf ein Ulcus hinweisen“

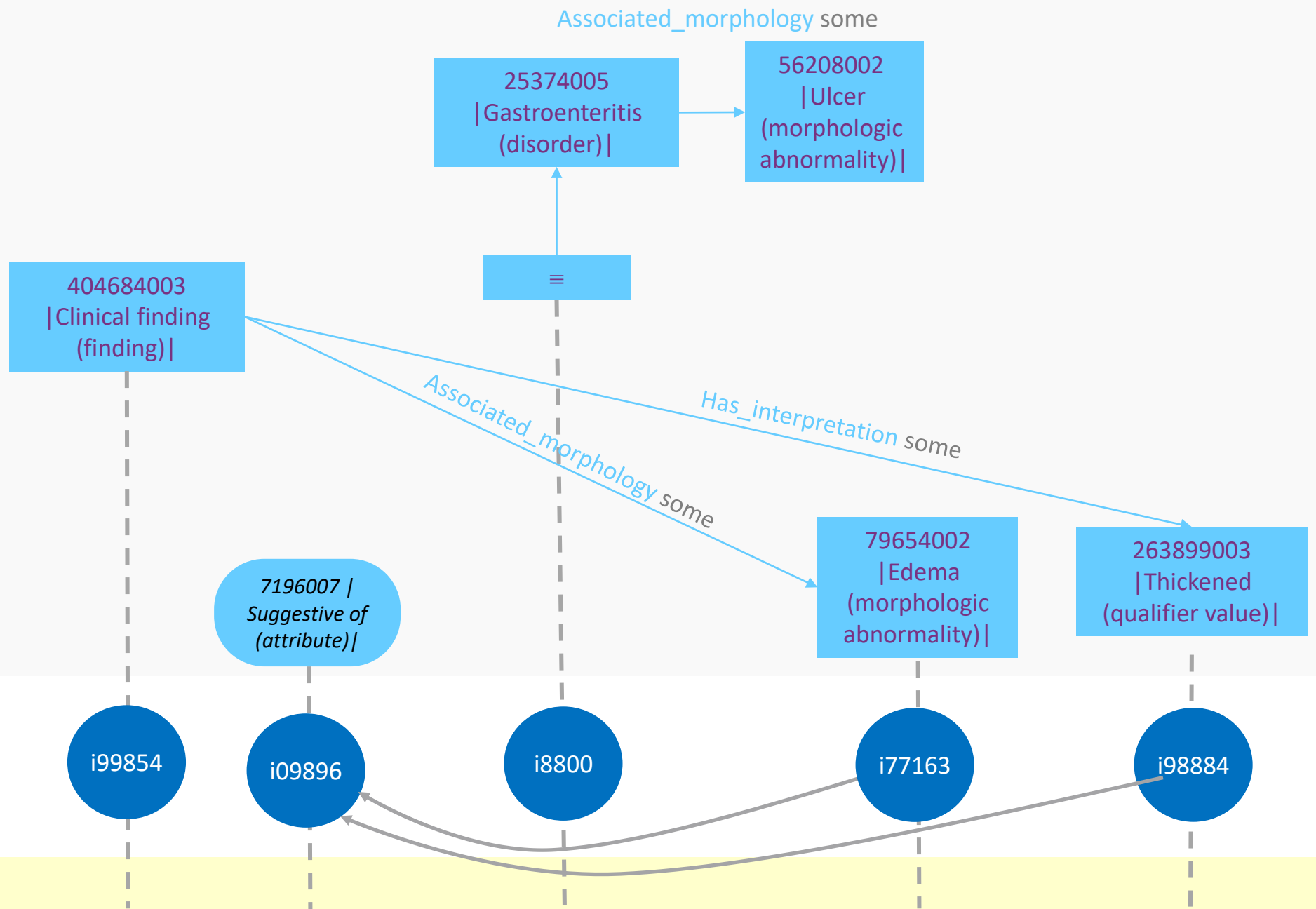


Ontology

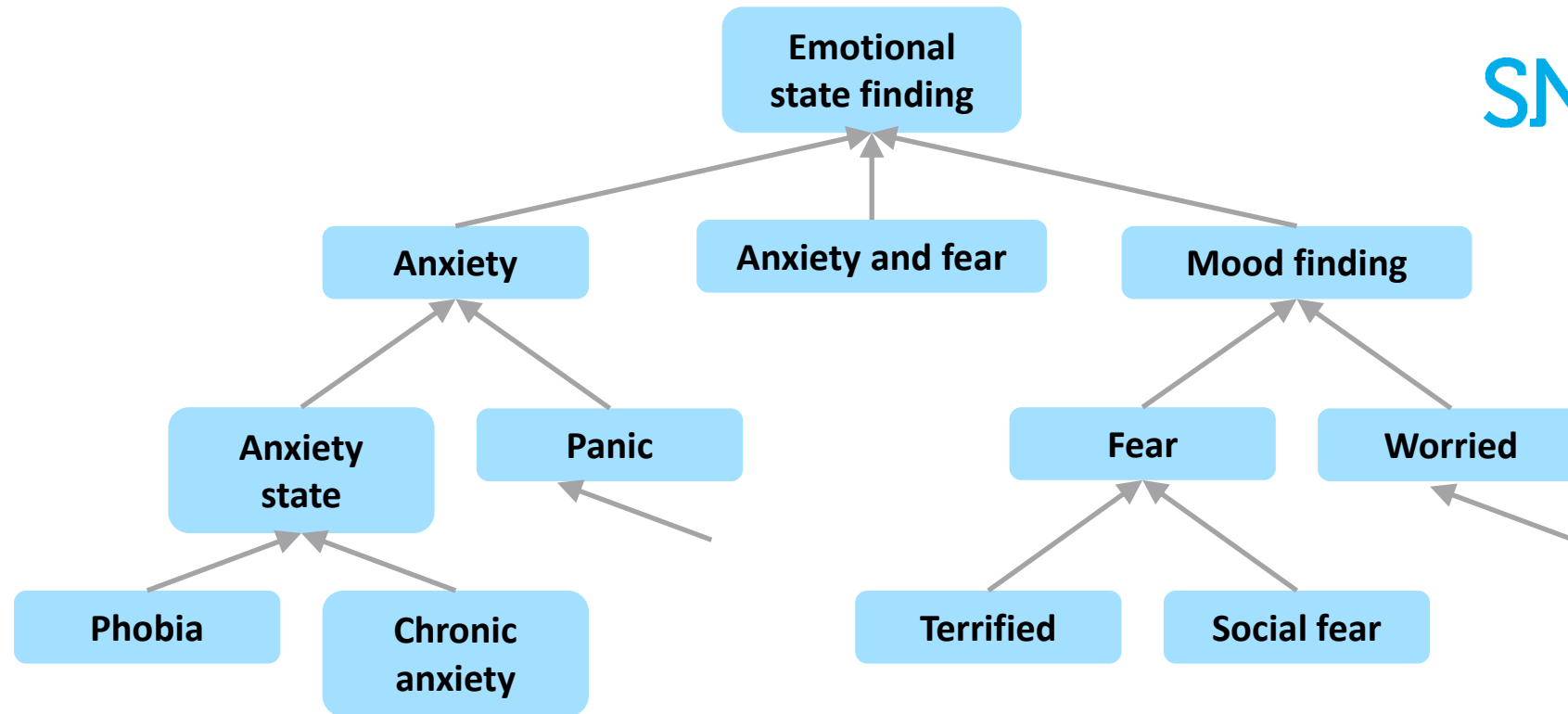
Reality
Language



„CT interpretation identified findings consistent with peptic gastro-duodenitis, namely oedematous mural thickening “



Identifying semantic proximity when using ill-defined concepts



SNOMED CT
The global language of healthcare

Harnessing the boundary between terminology / ontology (LOINC, SNOMED, ICD) and information models (FHIR)



Clinical Summary > Condition



Condition

verificationStatus

code

390926006 | Suspected gallstones (situation) |

bodySite

Condition

verificationStatus unconfirmed

code

235919008 | Gallbladder calculus (disorder) |

bodySite

Condition

verificationStatus unconfirmed

code

313413008 | Calculus finding (finding) |

bodySite

3578005 | Structure of body of gallbladder (body structure) |

Condition

verificationStatus unconfirmed

code

56381008 | Calculus (morphologic abnormality) |

bodySite

3578005 | Structure of body of gallbladder (body structure) |

Condition

verificationStatus

code

41769001 | Disease suspected (situation) | :
{ 246090004 | Associated finding (attribute) | = 235919008 | Gallbladder calculus (disorder) | ,
408729009 | Finding context (attribute) | = 415684004 | Suspected (qualifier value) | }

bodySite