Evaluation of splenomegaly in 400,000 radiology reports
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The proposed project will track splenomegaly (increased spleen size) over time from structured radiology reports using natural language processing (NLP) techniques. Splenomegaly is a result of chemotherapy treatment and is associated with increased risk of complications in cancer surgery among other poor outcomes for patients. In collaboration with radiologists at Memorial Sloan Kettering, NLP techniques will extract information from the spleen and impression sections in 400,000 reports and compare to manually curated reports (n=1000) to define ground truth. The goal of the project is to establish the accuracy of determining the text labels automatically using ML techniques from the report by comparing with the ground truth labels provided by the radiologists.