Nic Dobbins
BIME550 – Project 3 Individual

For my lung cancer ontology I attempted to model the cancerstaging.org poster criteria as closely as I could, including the addition of a number of `AnatomicalStructures` (e.g., `GreatVessels`, `Carina`, `PleuralSpace`), `Fluids` (`Pericardial` and `Pleural`), adding `VisceralPleura` stages (`PL1`, `PL2`, and `PL3`), `Effusions` (`Pericardial` and `Pleural`), and `MedicalConditions` (including renaming and moving `LungCancerDiagnosis` under it). I realized as I was making these changes that the LungCancerExamples would not necessarily have all these specific criteria, but I preferred to be explicit and follow the criteria "to the letter" should this ever evolve into a more general-purpose ontology intended to solve real use cases in my research.

I believe I've successfully captured staging for all patients except `Patient9` – assuming that Patients appearing as a descendent of a given stage in the Inferred Class Hierarchy is acceptable as classification. I believe the ontology failing to classify `Patient9` is likely due to the tumor size (3cm to 5cm), but after much experimentation and review of Manchester syntax I was not able to determine why my logic in `T2a` and `Stage1B` were not sufficient for classification. Therefore I look forward to working with my team to hopefully build upon this solution.