1- How many 1-1 mappings are there?

There are 71829 1-1 mappings in 2018\_I0gem.txt and 19431 1-1 mappings in 2018\_I9gem.txt

2- How many 1-many mappings are there? In general, is the concept on the 1 side equivalent to the concepts on the many side? Explain.

There are 9033 1-many mappings in 2018\_I0gem.txt and 5007 1-many mappings in 2018\_I9gem.txt

Yes. The concepts at both side of the conversion are equivalent but the “many side” offers more information or specificity compared to the “1 side”.

3- How many terms have no mappings?

There are 731 terms with no mappings in 2018\_I0gem.txt and 422 terms with no mappings in 2018\_I9gem.txt

4- Given the goal of resolving all 1:many mappings down to 1:1 mappings, which mapping direction (10->9 or 9->10) is more feasible? Explain your answer.

9 to 10 direction seems to be more feasible because ICD10 is more specific and most of the time we should be able to map a code from ICD9 (less specific) to ICD10.