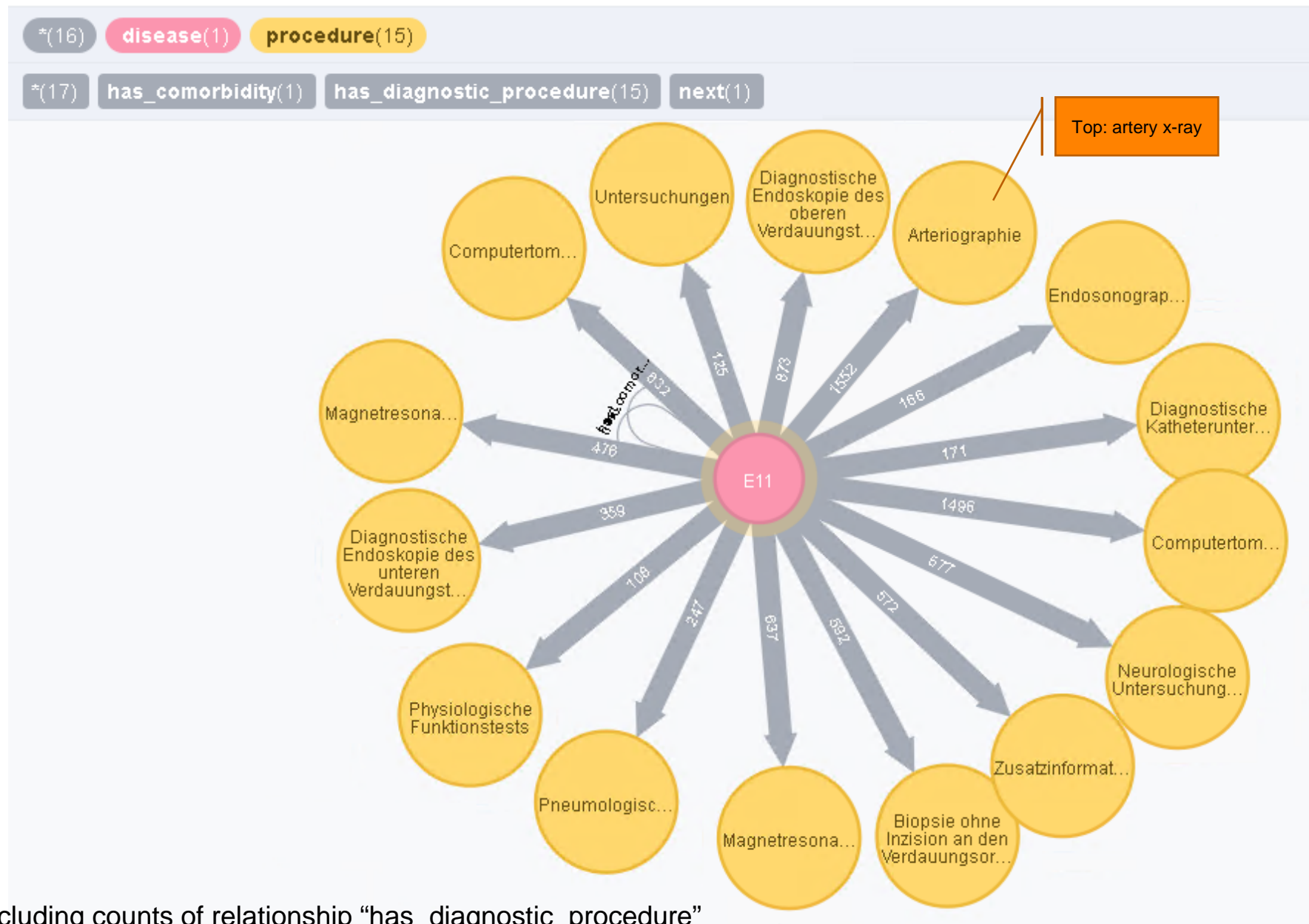


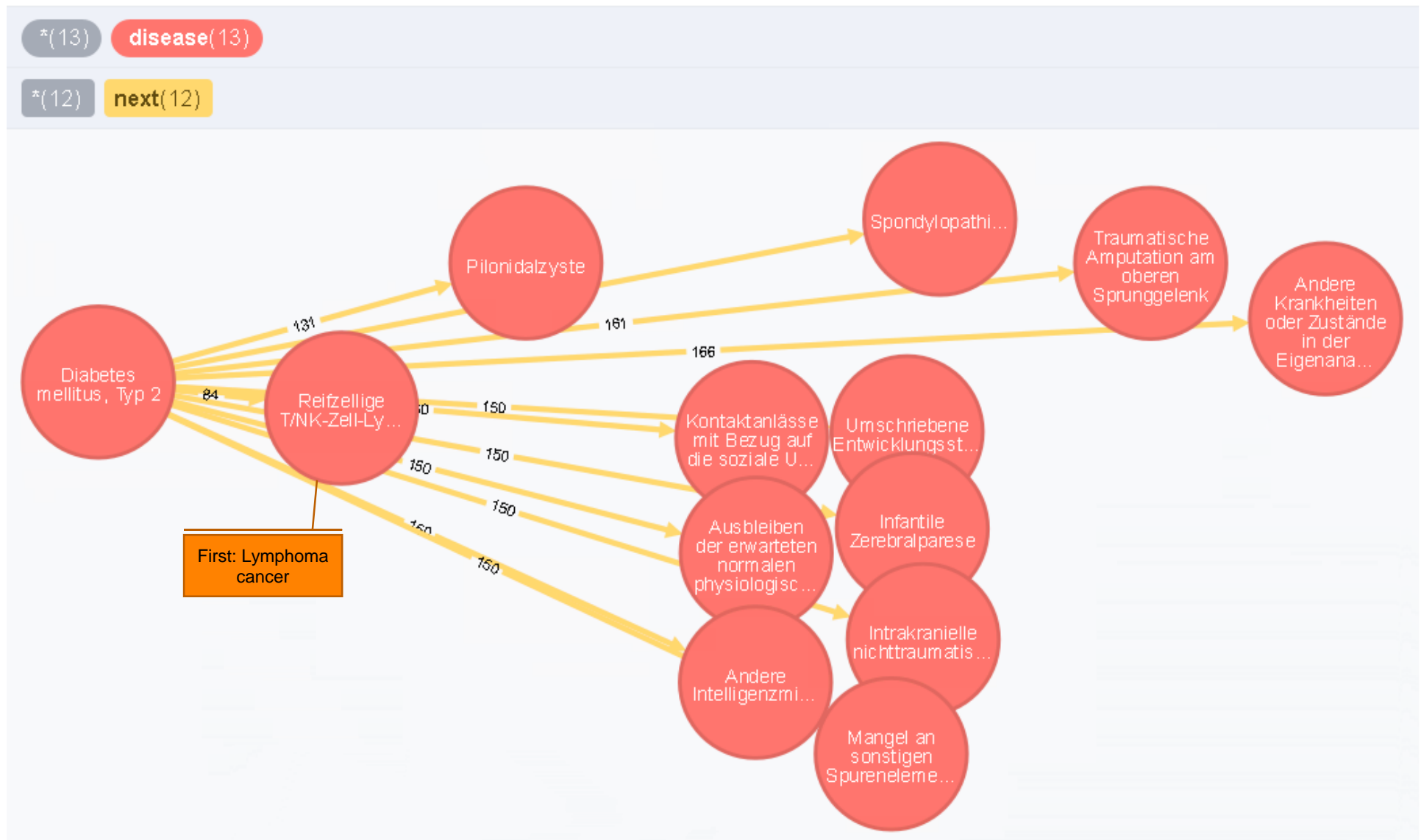
Top 15 diagnostic procedures performed for disease „Diabetes (E11)”



Including counts of relationship “has_diagnostic_procedure”

```
match (d:disease)-[h:has_diagnostic_procedure]->(p:procedure) where d.icd="E11" and h.counter>100 return d,h,p;
```

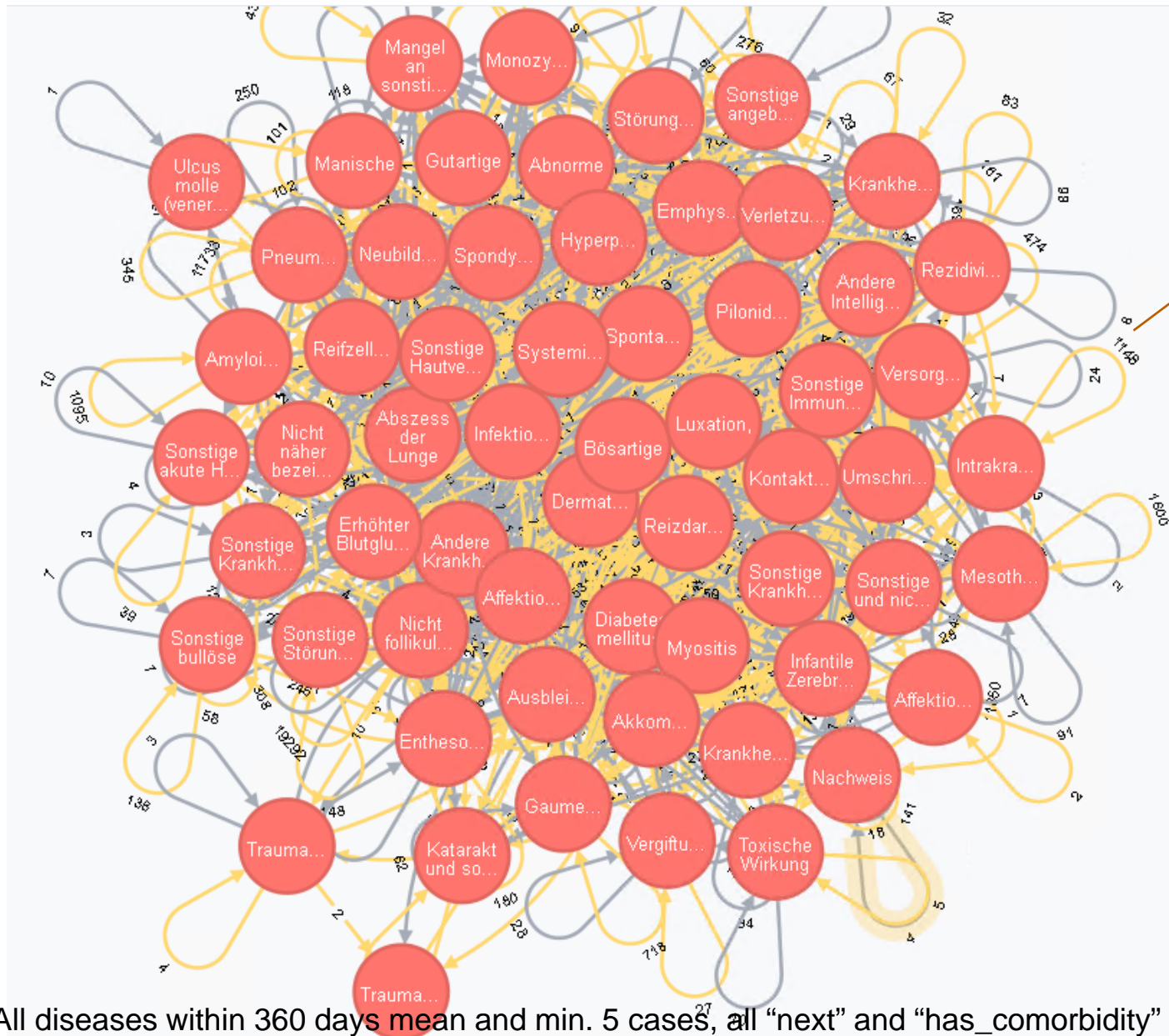
Disease progression – what follows shortly after „Diabetes“ diagnosis?



Including mean days of occurrence after “diabetes” diagnosis

```
match (d1:disease)-[n:next]->(d2:disease) where d1.icd="E11" and n.days_mean<180 and n.counter>=5 return d1,n,d2;
```

Disease progression 2: 1 year after „Diabetes“ diagnosis



This graph gets too complicated to be analyzed meaningfully
-> disease progression is complex!

All diseases within 360 days mean and min. 5 cases, all “next” and “has_comorbidity” relationships included:

```
match (d1:disease)-[n:next]->(d2:disease) where d1.icd="E11" and n.days_mean<=360 and n.counter>=5 return d1,n,d2;
```