## Performance Prediction

- Rather than changing the types of queries used to search, what about improving existing queries?
  - query performance prediction (QPP) [29]
- QPPs are a way of estimating the effectiveness of a query without relevance assessments
  - pre-retrieval QPPs use query and collection statistics [26]
  - post-retrieval QPPs use statistics about documents that have been retrieved [91, 40, 72, 20]
- It is unknown how to apply QPPs to Boolean queries

## Query Transformations

- Query generation [41] and query expansion/reduction [46, 74] have had success in clinical IR fields with non-Boolean queries
  - Aspects of a query are modified (e.g. terms are added or removed) in order to create a more effective query
  - However, again it is unclear how to apply these techniques to Boolean queries