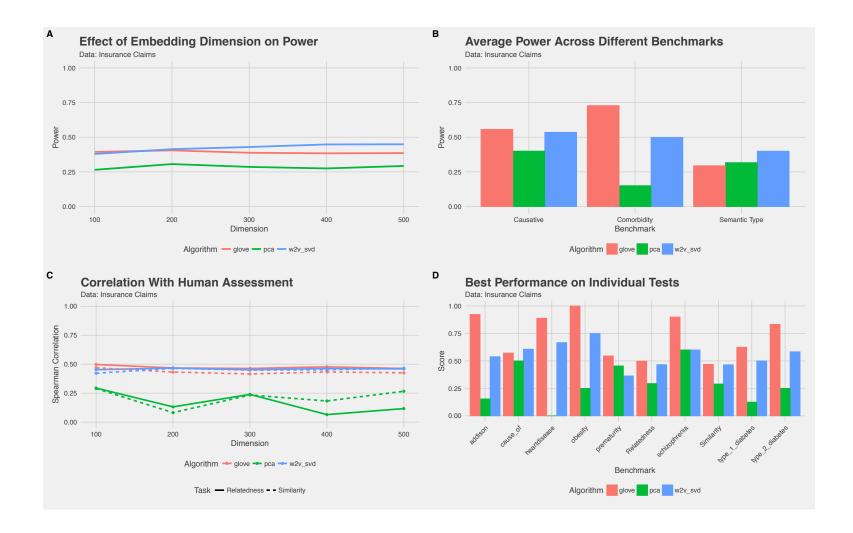


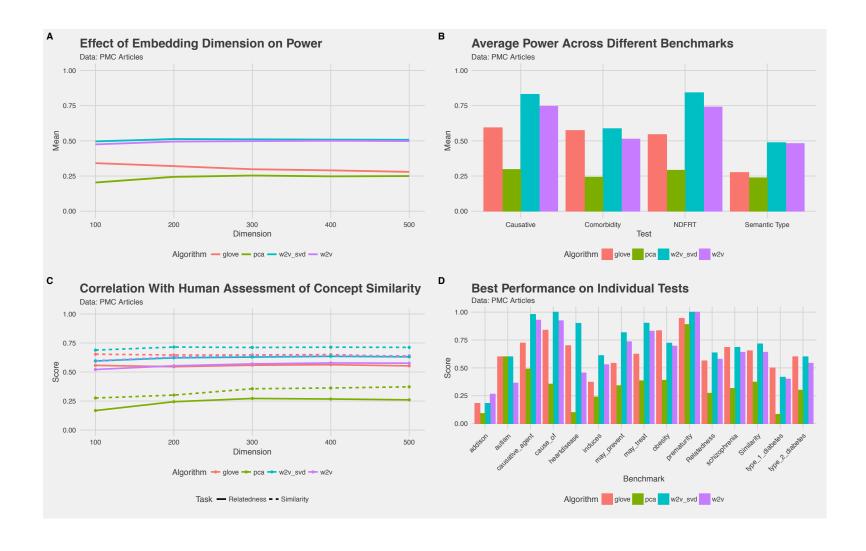
Supplemental Figure 1: Results on combined data. Panel A: The effect of embedding dimension on statistical power, averaged across benchmarks.

Panel B: Power for the best configuration for each algorithm across each benchmark category (standard errors show as black bars). Panel C: The effect of embedding dimension on spearman correlation between concept-concept cosine similarity with human assessments of similarity and relatedness.

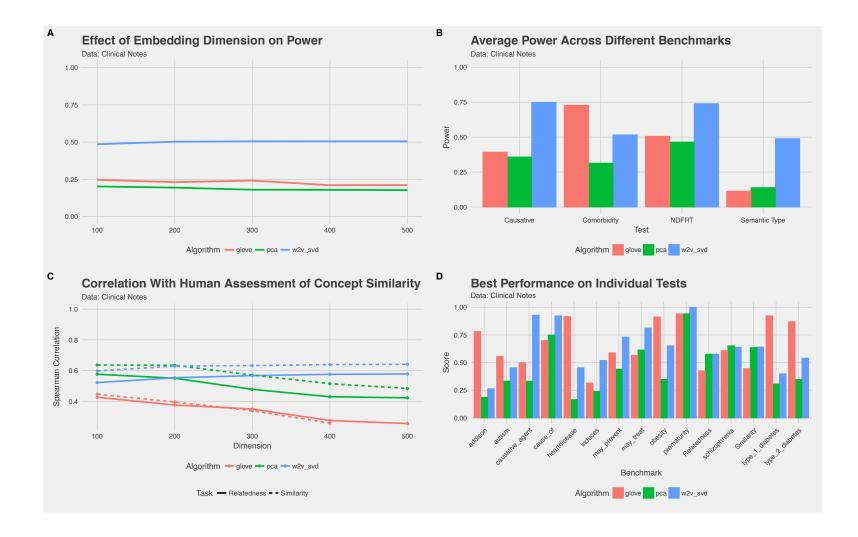
Panel D: Best performance by each algorithm on individual tests.



Supplemental Figure 2: Results for GloVe, PCA, and word2vec on the insurance claims data.



Supplemental Figure 3: Results for GloVe, PCA, and word2vec (SVD and original as implemented in the genism package) on the full text articles from PubMed.



Supplemental Figure 4: Results for GloVe, PCA, and word2vec on the Stanford clinical notes data.