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## Exclude and Restrict to UMLS Sources

### Exclude Sources

If certain UMLS Source Vocabularies are not useful for your research or produce undesirable results, MetaMap will ignore those sources if called with the `--exclude_sources` or `-e` command-line option. E.g., to exclude strings from NDFRT and RxNorm, call MetaMap with

```
-e NDFRT,RXNORM
```

### Restrict to Sources

Conversely, if your research is focused exclusively on certain sources, MetaMap will restrict its results to those sources if called with the `--restrict_to_sources` or `-R` command-line option. E.g., to restrict results to MeSH and SNOMED\_CT, call MetaMap with

```
-R MSH,SNOMED_CT
```

The names of the Source Vocabularies called with `-e` and `-R` are case sensitive.

A list of UMLS Source Vocabularies and documentation on the Source Vocabularies is available [here](#).