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## MetaMap Human-Readable Output

Human-readable (HR) output is MetaMap's basic, default output, and best suited for learning about MetaMap and testing various strategies. Other output formats such as [Prolog Machine Output](#), [XML Output](#), and [Fielded MMI Output](#) are far better suited for automated downstream postprocessing.

For the input text `inferior vena caval stent filter`, MetaMap's default HR output consists of these two final mappings, which are those combinations of UMLS concepts identified which best represent the sense of the text:

```
Phrase: inferior vena caval stent filter
Meta Mapping (911):
  909 Inferior Vena Cava Filter (Vena Cava Filters) [Medical Device]
  637 STENT (Stent Device Component) [Medical Device]
Meta Mapping (911):
  909 Inferior Vena Cava Filter (Vena Cava Filters) [Medical Device]
  637 Stent (Stent, device) [Medical Device]
```

Each mapping is assigned an overall score (911). In addition, for each concept identified, MetaMap provides

- the concept's score (909),
- the UMLS string matched (Inferior Vena Cava Filter),
- the concept's Preferred Name (Vena Cava Filters), and
- the concept's Semantic Type(s) (Medical Device)

Detailed information about MetaMap's scoring algorithm can be found [here](#) and [here](#).

A number of useful options control HR output. For example

- `-I (--show_cuis)`: Display each concept's CUI
- `-c (--show_candidates)`: Display the candidate concepts from which the mappings are formed
- `-m (--hide_mappings)`: Do not display the final mappings