```
⇒MetaMap Home
⇒FAQ Home
⇒Help/Questions
```

Processing Conjuncts with --conj

Conjunction processing was introduced in MetaMap16V2; previous MetaMap versions do not include this functionality.

MetaMap was originally developed to process articles in the biomedical literature, and by default chunks its input into phrases (noun phrases, prepositional phrases, etc.), each of which is analyzed separately. MetaMap by default will declare a new phrase when it encounters a conjunction; consequently the text

renal and pancreatic cancer

will be chunked into three phrases

[renal] [and] [pancreatic cancer]

and MetaMap will not identify any renal cancer concept (e.g., C0740457 and C1378703).

To overcome this limitation, use the --conj option, which will recombine smaller phrases separated by a conjunction. Because the recombined phrases are longer, MetaMap's processing will be slower, but recall should increase.

For example, our canonical conjunction text,

hereditary recurrent and metastatic ovarian or renal or pancreatic carcinoma

CO919989:metastatic renal carcinoma [neop]

which is by default chunked into

858

[hereditary recurrent] [and] [metastatic ovarian] [or] [renal] [or] [pancreatic carcinoma]

will be analyzed as a single phrase, allowing MetaMap to map the text to the following concepts (inter alia), shown as Human-Readable Output with the MetaMap concept scores:

```
894
      C2931038: Hereditary Pancreatic Carcinoma (Pancreatic carcinoma, familial) [neop]
892
     C1333992: Hereditary Ovarian Carcinoma [neop]
892
     C2608055:Hereditary Renal carcinoma (Hereditary Renal Cell Carcinoma) [neop]
883
     CO854777: Recurrent Pancreatic Carcinoma (recurrent pancreatic cancer) [neop]
     C0278679:recurrent Renal carcinoma (Renal cell carcinoma recurrent) [neop]
881
     C0278689:Recurrent Ovarian Carcinoma (recurrent ovarian epithelial cancer) [neop]
881
     C0278688:ovarian carcinoma, metastatic (Stage IV Ovarian Carcinoma) [neop]
861
861
     C1167725: Metastatic Pancreatic Carcinoma (Stage IV Pancreatic Cancer) [neop]
```