

# NOTE\_NLP & NOTE

Field	Required	Type
note_nlp_id	Yes	Big Integer
note_id	Yes	integer
section_concept_id	No	integer
snippet	No	varchar(250)
offset	No	varchar(50)
lexical_variant	Yes	varchar(250)
note_nlp_concept_id	No	integer
note_nlp_source_concept_id	no	integer
nlp_system	No	varchar(250)
nlp_date	Yes	date
nlp_date_time	No	datetime
term_exists	No	varchar(1)
term_temporal	No	varchar(50)
term_modifiers	No	varchar(2000)

Field	Required	Type
note_id	Yes	integer
person_id	Yes	integer
note_date	Yes	date
note_datetime	No	datetime
note_type_concept_id	Yes	integer
note_class_concept_id	Yes	integer
note_title	No	varchar(250)
note_text	Yes	RBDMS dependent text
encoding_concept_id	Yes	integer
language_concept_id	Yes	integer
provider_id	No	integer
note_source_value	No	varchar(50)
visit_occurrence_id	No	integer

# Normalization of the term\_modifier

- 1. collect the modifier list;
- 2. define normalized value of each modifier;

# term\_modifiers

## General:

- Negated
- Subject
- Certainty
- Conditional
- Temporal
- discoveryTechnique??
- Confidence??

## Disease specific:

- Body location
- Severity
- Course

## Medication specific:

- Dose
- Form
- Frequency
- Duration
- Route
- Necessary

## Test specific:

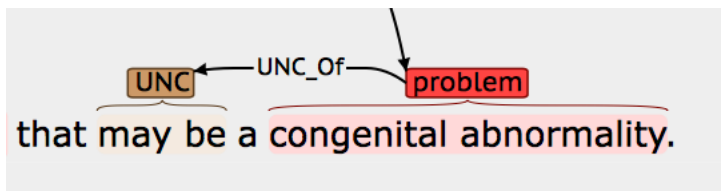
- Value
- Unit
- Reference Range

## Procedure specific

- Body location
- Device
- Duration
- Method

# General

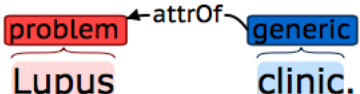
- Negation, Boolean; True means negated;
- Subject, String Enum;
  - **Question: granularity?**
    - *Family | Other | Patient*    **Or**    *father | mother | roommate | friend | patient...*
- Certainty, String Enum;
  - Definite | Probable | Uncertain | Probable Negated | Definite Negated;



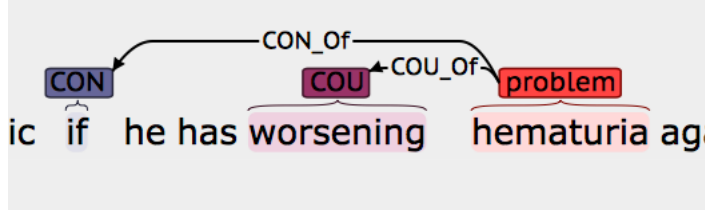
# General

- Generic, boolean;
  - True means generic mentions;
- Conditional, boolean;
  - True when has conditional modifiers;
- Temporal, String;
  - Date, Time, Duration, Frequency;
- Discovery technique, String?
- Confidence score, double?

The patient was referred to the **problem** Lupus **generic** clinic.

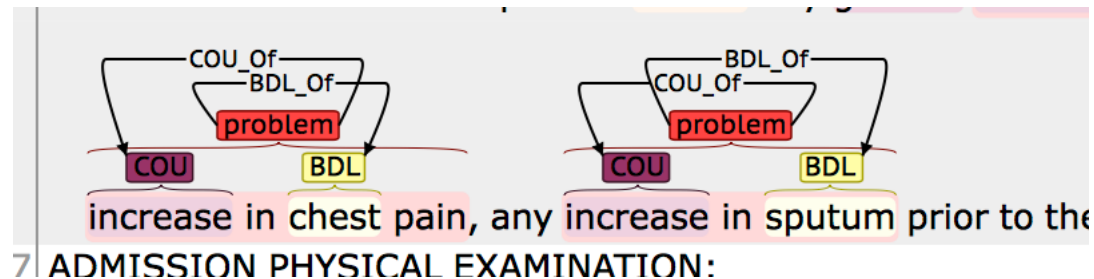
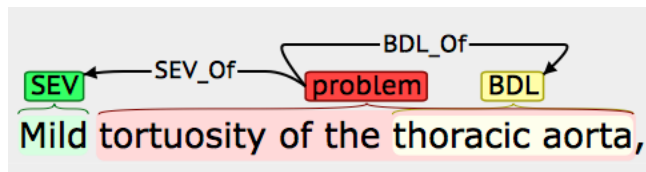


ic if he has **CON** worsening **COU** hematuria ag



# Disease specific

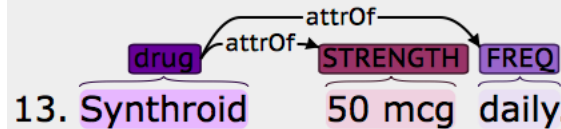
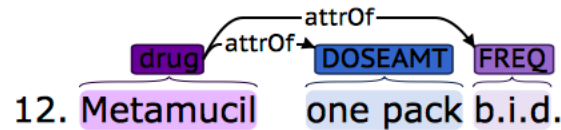
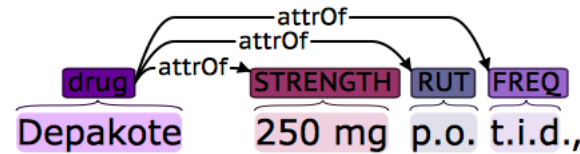
- Body location
  - Map to UMLS CUI | standard vocabulary;
- Severity
  - unmarked | slight | moderate | severe | life threatening | fatal
- Course
  - unmarked | changed | increased | decreased | improved | worsened | resolved



# Medication specific

- Medication specific:

- Dose, double
- Frequency, String
- Duration, String
- Form, String enum;
- Route, String enum;
- Necessary,
- Start date?
- End date?



# Test specific

- Value, String;
  - Value could be int, double, percentage, range

5 , his CD4 count was less than 200 last winter .

The diagram shows the word 'test' in a yellow box and 'labvalue' in a blue box. An arrow labeled 'valueOf' points from 'labvalue' to 'test'. Brackets underline 'CD4 count' and 'less than 200' in the sentence below.

5 Urine HCG was negative, c  
replacement, increase bup

The diagram shows the word 'test' in a yellow box and 'labvalue' in a blue box. An arrow labeled 'valueOf' points from 'labvalue' to 'test'. Brackets underline 'negative, c' and 'replacement, increase bup' in the sentence below.

The patient was transfused from a Hct 29 to 34 on the day of discharge .

The diagram shows the word 'test' in a yellow box and 'labvalue' in a blue box. An arrow labeled 'valueOf' points from 'labvalue' to 'test'. Brackets underline 'Hct' and '29 to 34' in the sentence below.

- Unit, String enum;
- Reference Range, String;

5 LDL 93 mg/dl 0-129

The diagram shows the word 'test' in a green box, 'labvalue' in a red box, and 'reference' in a blue box. An arrow labeled 'valueOf' points from 'labvalue' to 'test', and an arrow labeled 'referenceOf' points from 'reference' to 'test'. Brackets underline 'LDL', '93 mg/dl', and '0-129' in the sentence below.

7 CHD Risk 3.02 L 3.90-5.80

The diagram shows the word 'test' in a green box, 'labvalue' in a red box, and 'reference' in a blue box. An arrow labeled 'valueOf' points from 'labvalue' to 'test', and an arrow labeled 'referenceOf' points from 'reference' to 'test'. Brackets underline 'CHD Risk', '3.02', and 'L 3.90-5.80' in the sentence below.



# Procedure specific

- Body location
  - Map to UMLS CUI | standard vocabulary;
- Device
  - Map to UMLS CUI | standard vocabulary;
- Duration, String
- Method, String