

# Adjudication Guidelines for annotation of temporal information related to medications in CRIS notes

Part of CRIS approved project 19-070

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## Adjudication task:

1. Create gold standards to determine time references and attributes for medications in CRIS documents

During adjudication, the same rules that are mentioned in the [annotation guidelines](#) were applied in order to decide which of the two sets of annotations were to be kept.

EHOST was used for the adjudication process.

## Decision making situations:

- When both annotators have inputted the exact same values, eHOST automatically accepts those annotations without any further analysis by the adjudicator.
- If the reason for dispute is the case (such as one annotator writing the value in lower case, while the other in upper case), the adjudicator can pick one of the two, preferably the **lower case** one for ease with future analysis.
- If the reason for dispute is the format of a date (such as one annotator writing 11/08/1999 and the other writing Aug 11, 99, or any other such variations), the adjudicator can pick the more structured and numeric one – such as **11/08/1999**.
- If one annotator has mentioned a date for the attribute's initiation\_time or cessation\_time while the other hasn't, read through the document more thoroughly to ascertain whether the date mentioned is accurate or not.
- If there is a dispute in the values of doses or frequency, the adjudicator is to read the document more thoroughly to make a decision on which one might be more accurate.
- When it is a mention related to blood test to check for levels of the drug, such as Clozapine blood test, would the modality be “taken by patient” or “not taken by patient”? One annotator has said taken while the other has said not taken. One annotator has mentioned this as subject being “other”. - Asked Rob and he said to ignore these blood test mention for now. We can keep a track of them for future development of a separate app related to blood test mentions, but doesn't need to be identified or included in this current app.
- When all attributes are identical, preference is given to the annotation which **has a comment**. When no comments in both, just take the first one.
- Annotations with **wider spans** are given more preference.
- If a drug name is missing from the attributes, it needs to be entered (Esp. With overdose mentions). Similarly, for any other attribute which is immediately available in the span.

- If subject is “Other”, check to make sure it refers to someone other than the patient. If it is a blood test mention etc, the subject should still be the “Patient”.
- If the medication name is misspelled in the span, make sure the spelling is correct in the attribute “drug”. Or should it be the same misspelling as the span?
- Is it **more accurate to keep the spans which have attributes mentioned in the immediate context** – yes.