**Correct Information Units (CIUs)**

**1. Selected literature on CIUs in aphasia**

[Brookshire, R. H., & Nicholas, L. E.](http://aphasia.talkbank.org/discourse/lit/Brookshire1995.pdf) (1995). Brookshire, R. H., & Nicholas, L. E. (1995). Performance deviations in the connected speech of adults with no brain damage and adults with aphasia. *American Journal of Speech-Language Pathology*, *4*(4), 118-123.

[Capilouto, G., Wright, H. H., & Wagovich, S. A.](http://aphasia.talkbank.org/discourse/lit/Capilouto2005.pdf) (2005). CIU and main event analysis of the discourse of older and younger adults. *Journal of Communication Disorders, 38*, 431-444.

[Fergadiotis, G., Kapantzoglou, M., Kintz, S., & Wright, H. H.](http://aphasia.talkbank.org/discourse/lit/Fergadiotis2019.pdf) (2019). Modeling confrontation naming and discourse informativeness using structural equation modeling. *Aphasiology*, *33*(5), 544-560.

[Nicholas, L. E., & Brookshire, R. H.](http://aphasia.talkbank.org/discourse/lit/Nicholas1993.pdf) (1993). A system for quantifying the informativeness and efficiency of the connected speech of adults with aphasia. *Journal of Speech, Language, and Hearing Research*, *36*(2), 338-350.

[Rose, M. L., Mok, Z., Carragher, M., Katthagen, S., & Attard, M.](http://aphasia.talkbank.org/discourse/lit/Rose2015.pdf) (2016). Comparing multi-modality and constraint-induced treatment for aphasia: a preliminary investigation of generalisation to discourse. *Aphasiology*, *30*(6), 678-698.

**2. Suggestions for analyzing CIUs using CHAT and CLAN**

**Plan A**

Once you have the CHAT transcript (without any extraneous non-task related utterances in it), you can go through and put a [e] code —e.g., yeah [e] — next to any word you don’t want counted as a CIU.  Multiple words in a row that you don’t want counted could go in angle brackets — e.g., <and yeah> [e] toast it.  Then you could run these commands:

**all words and their frequencies**

freq +t\*par +r6 \*.cha

add +d1 for word list without frequency info

add +d2 for output to spreadsheet

add +d3 for type token info only to spreadsheet

add +d4 for type token info only to screen

**all CIU words (those not marked with [e])**

freq +t\*par \*.cha -s"<e>"

(same added options can be used here)

**all non-CIU words (those marked with [e])**

freq +t\*par \*.cha +s"<e>"

(same added options can be used here)

**all words per minute** (assuming file is linked)

timedur +t\*par +r6 +d1 \*.cha

use +d10 instead of +d1 for output to spreadsheet instead of computer screen

**all CIU words per minute** (assuming file is linked)

timedur +t\*par +d1 -s"<e>" \*.cha

(same added options for TIMEDUR command above can be used here)

IMPORTANT NOTES:

1.  The same -s"<e>" and +s"<e>" part of the command can be added to any other CLAN command done on the speaker tier — e.g., for MLU of CIU words only from the speaker tier use:

mlu +t\*par -t%mor –s”<e>” \*.cha

add +d if you want output to go to a spreadsheet

2. The words coded for exclusion on the speaker tier will NOT appear on the %mor tier if you run the MOR command. So, if you run the MOR command and want to run commands on the %mor tier, you will not need to use the +/-"<e>" part of the commands. However, excluding words from the speaker tier is likely to affect the accuracy of the automatic lexical and morphosyntactic tagging on the %mor tier.

**Plan B**

Once you have the basic CHAT transcript done, duplicate it.  Call the duplicate filenameCIU.cha or something like that.  In that duplicate CIU file, delete all the non-CIU words.  No need to do any of the [e] coding or add that –s”<e>” piece to any commands you run.  Just run all your commands (mlu, freq, etc.) on the speaker tier for both files (the original and the CIU one). If you send the output to a spreadsheet, each file will get its own row in the spreadsheet. Again, a caution: if you run MOR on the duplicate file with deleted words, the accuracy of the automatic lexical and morphosyntactic tagging is likely to be affected.