RHDBank Database Development: The Discourse Protocol

Jamila Minga, Ph.D.
North Carolina Central University

Melissa Johnson, Ph.D.
Nazareth College

Davida Fromm, Ph.D.
Carnegie Mellon University

Margaret Forbes, M.A.
Carnegie Mellon University

Brian MacWhinney, Ph.D.
Carnegie Mellon University

The Discourse Protocol
1. Free speech sample
2. Story sample
3. Picture description
4. Story narrative
5. Procedural discourse
6. Question production

Test Data
1. General Short Form of the CBIP (Communicative Participation Item Bank; Baylor, Yorkston, Eadie, Kim, Chung, & Antmann, 2013)
2. CLQI (Cognitive Linguistic Quick Test; Helm-Estabrooks, 2001)
3. Apples Test (Bickerton, Samson, Williamson, & Humphreys, 2011)
4. Indented Paragraph test (Caplan, 1987)

Examples of data analysis
1. The CLAN MOR program was used on this excerpt from the CINDERELLA story to add a line after each speaker giving the part-of-speech for each word and specifying the morphology of affixes.

2. The CLAN FREQ program is used for frequency analyses. Using this command, we get the count and list of nouns used in the CINDERELLA story by the RHD participant.

3. The CLAN EVAL program provides a variety of analyses such as DURATION, TOTAL LETTERS, TOTAL WORDS (types and tokens), TYPE:TOKEN RATIO, MLU, PROPOSITION DENSITY, % PARTS OF SPEECH (e.g., nouns, verbs, etc.)

IN RESEARCH?
• Measure student learning by having students view videos of adults with RHD and identify deficits before and after a RHD lecture and write perceived deficits. This can be a teaching moment about the subtlety of deficits in adults with RHD.
• Provide exemplars of discourse in RHD to students participating in neurogenic communication disorders course work.
• Learn how to use CHAT and CLAN for efficient and reliable computer-based language transcription, error coding, and analysis.
• Assessment planning and interpretation, differential diagnosis, treatment planning for participants in the RHD database.
• Case study presentations

IN TEACHING?
• Characterize discourse in a large corpus of adults with RHD.
• Compare discourse in RHD to people with aphasia and controls.
• Explore subsets/classification of RHD that have not yet been identified.
• Examine unilingual spatial neglect in paragraph level reading.
• Evaluate treatment approaches for discourse in RHD.

IN CLINIC?
• Test administration practice for video recorded assessments.
• Guide treatment approaches for discourse level impairments in RHD.
• Assess efficacy of treatment for discourse level impairments.

TOOLs
CHAT A standardized format for transcription, coding, and detailed morphological analysis of conversational interactions.

MANUAL CODING Is being developed for RHD transcripts to capture impaired discourse and pragmatics behaviors (e.g., topic maintenance, turn-taking, coherence, cohesion, question use, etc.)

WHO IS IN THE DATABASE?

Table 1. PARTICIPANT DEMOGRAPHICS

<table>
<thead>
<tr>
<th>AGE RANGE (YRS)</th>
<th>Controls (n = 5)</th>
<th>RHD (n = 5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>53 – 61 (mean = 63.5)</td>
<td>44 – 57 (mean = 51.9)</td>
<td></td>
</tr>
<tr>
<td>SEX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 females</td>
<td>5 females</td>
<td></td>
</tr>
<tr>
<td>EDUCATION RANGE (YRS)</td>
<td>15 – 24 (mean = 19.4)</td>
<td>14 – 21 (mean = 16.6)</td>
</tr>
<tr>
<td>HANDICAPEDNESS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 right</td>
<td>5 right</td>
<td></td>
</tr>
</tbody>
</table>

CLOUT COMPOSITE SCORE

0.8 – 4 (mean = 3.25) N/A

REFERENCES

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HOW DO I USE THE RHDBANK...

HOW DO I JOIN RHDBANK?
Researchers and clinicians working with RHD:
Send email to Brian MacWhinney -- macw@cmu.edu
• contact information
• professional affiliation, and
• statement of how you plan to use the data

Students interested in using the data:
• Ask their faculty advisors to join as members.

Visit www.talkbank.org