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THROUGH TALKBANK
Carnegie Mellon University**

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1. General description of the data set, and IRB Approval # (if available):

FROM THE PHONBANK WEBSITE:

| | |
|----------------|------------------------------|
| Participants: | 6 |
| Type of Study: | longitudinal treatment study |
| Location: | Vancouver, Canada |
| Media type: | not available |
| DOI: | doi:10.21415/T5FS35 |

Citation information

- Bernhardt, B. (1990). Application of nonlinear phonological theory to intervention with six phonologically disordered children. Unpublished doctoral dissertation, University of British Columbia (All 6 subjects). <https://open.library.ubc.ca/cIRcle/collections/ubctheses/831/items/1.0098745>
- Bernhardt, B. (1992). The application of nonlinear phonological theory to intervention. *Clinical Linguistics and Phonetics*, 6, 283-316. (Subject 1).
- Bernhardt, B., & Gilbert, J. (1992). Applying linguistic theory to speech-language pathology: the case for nonlinear phonology. *Clinical Linguistics and Phonetics*, 6, 123-145. (Subject 3).

- Bernhardt, B. (1994). The prosodic tier and phonological disorders. In M. Yavas (ed.) First and second language acquisition. (pp. 149-172). San Diego, CA: Singular Press (Subject 4).
- Bernhardt, B.H. & Stemberger, J.P. (2000). Workbook in nonlinear phonology for clinical application (copyright with authors, phonodevelopment.sites.olt.ubc.ca)
- Bernhardt, B.M.H. & Stemberger, J.P. (1998). Handbook of phonological development: From a nonlinear constraints-based perspective. San Diego: Academic Press.

For additional tools and data for the crosslinguistic study of phonology, please consult [this link](#) from UBC.

In accordance with TalkBank rules, any use of data from this corpus must be accompanied by at least one of the above references.

Project Description

Recordings for this project were carried out in a quiet room at a health centre. The data represent pre-intervention data (Sample 1), and 3 post-treatment samples. Three 6-week treatment blocks (three sessions per week) were conducted by Barbara May Bernhardt as her doctoral research and were based on nonlinear phonological analysis and treatment methods. Each child can be considered its own single case study although conditions were held constant and counterbalanced across subjects, and data were compared across subjects. Utterances were elicited in a play-based situation with toys and pictures in reaction to a 164-word list (Bernhardt, 1990 list). The productions are coded as spontaneous single words (no code), echoic (imitated) single words (E), delayed echoic single words (DE), prompted echoic single words (PE), self-echoic words (SE, DSE) and finally, words transcribed from connected speech (C).

| Participant Name* | Date of Birth | Age Range | Number of Sessions | Sex |
|----------------------|---------------|-----------|--------------------|-----|
| Subject 1 (Charles) | 1982-06-07 | 5;10-6;04 | 4 | M |
| Subject 2 (Blair) | 1984-03-07 | 4;02-4;09 | 4 | M |
| Subject 3 (Jeremy) | 1985-04-07 | 3;04-3;10 | 4 | M |
| Subject 4 (Sean) | 1985-02-07 | 3;06-4;00 | 4 | M |
| Subject 5 (Gordon) | 1982-04-07 | 6;02-6;08 | 4 | M |
| Subject 6 (Chrissie) | 1985-07-07 | 2;10-3;04 | 4 | F |

**Names are pseudonyms that appear in certain papers and books. The day of birth is fictitious in order to preserve confidentiality.*

NEW, NOT ON PHONBANK: The study was conducted as a doctoral dissertation project in 1988-1989 with the approval of the University of British Columbia Behavioural Research Ethics Board. The BREB approval number is no longer available, but a large portion of the same data are available in the dissertation which

is freely available at
<https://open.library.ubc.ca/cIRcle/collections/ubctheses/831/items/1.0098745>.

2. Restrictions to be placed on the use of the data:


1. The data may be used for academic research, education and dissemination (conferences, journal articles). Data may also be linked to other major databanks, such as CLARIN, DELAD, LIBER.

2. For all uses, citation must include reference to my dissertation.

Bernhardt, B. (1990). Application of nonlinear phonological theory to intervention with six phonologically disordered children. Unpublished PhD dissertation, University of British Columbia.

<https://open.library.ubc.ca/cIRcle/collections/ubctheses/831/items/1.0098745>

3. Data may not be used for commercial gain, except as cited extracts of data might be used as examples in academic books on children's speech development.

Signed  Date November 18, 2020
Printed Name Barbara M. Bernhardt Institution University of British Columbia

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