

Titel: Notes on Raymond Carhart, [EliFischerJørgensen1948-51] 038-0200

Citation: "Notes on Raymond Carhart, [EliFischerJørgensen1948-51] 038-0200", i *Louis Hjelmslev og hans kreds*, s. 1. Onlineudgave fra Louis Hjelmslev og hans kreds: [https://tekster.kb.dk/catalog/lh-texts-kapsel\\_038-shoot-workidacc-1992\\_0005\\_038\\_EliFischerJogensen1948-51\\_0200/facsimile.pdf](https://tekster.kb.dk/catalog/lh-texts-kapsel_038-shoot-workidacc-1992_0005_038_EliFischerJogensen1948-51_0200/facsimile.pdf) (tilgået 05. august 2024)

Anvendt udgave: Louis Hjelmslev og hans kreds

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Raymond Carhart:

Hearing Deficiencies and Speech Problems

Journal of Speech Disorders, 8, 1943,

no. 3 (Sp)

West, Kennedy and Carr ~~stated~~ that the discrimination of stops and fricatives depends upon ability to hear adequately in the frequency range from 2400 to 8000 cps. - this ~~view~~ view is influenced by the acoustic investigations of Fletcher etc, but it has not been confirmed by experiments. Ansberry (Q.J. Speech, 1938, 26, p.381-89) concludes that persons familiar with English sounds are not handicapped in discrimination between speech sounds when frequencies above 4000 are eliminated.

The Travis-Kassus test (Q.J. Speech, 1931, 17, p. 217-226) was constructed for measuring speech sound discrimination. It consists of syllable-pairs. Templin (J. Speech Disorders 1943, 8, 127-32) found that children find discrimination more difficult when consonants are in medial or final positions than when they are in the initial position. ~~Christiansen~~ L.M. Linton (An experimental study of speech-sound discrimination, Eds M.A. Thesis Stanford Univ. 1939) stressed that existing tests do not differentiate sufficiently between speech sound discrimination abilities of normal hearers. Non familiar sounds should be used. ~~Christiansen~~ R.H. Plummer, (Comparison of Auditory Acuity to Pure Tones and Ability to discriminate between 16 Engl. Consonants, Ph.D. Diss., Louisiana State Univ. 1940) found correlation between extent of hearing loss and total number of errors. However, difficulty in discriminating a specific sound was not related to a hearing loss at a specific frequency. This is in conformity with Ansberrys results, and ~~Wax~~ Bunch reported an extreme case of a young doctor whose hearing dropped abruptly beyond 1024 c., but until given an audiometric test the man had no suspicion that his hearing was defective. This obvious discrepancy emphasizes a long realized fact - that the hearing necessary to learn speech is not identical with that needed to understand it. - when first speech has been learned correctly, then a subsequent auditory loss is not ~~of~~ of so great importance. Certain cues suffice for the understanding.

ii. Speech correctionists have tried to find correlations between speech defects and hearing deficiencies by testing speech defectives. ~~But~~ these investigations have not given any really reliable results.

iii. On the other hand, investigations concerning the speech of deaf people or people very hard of hearing, show evident speech defects. Deaf people speak much more slowly, intonation and rhythm are false, etc. and the sounds s and f are most often defective. (most of the persons had greatest loss for high frequencies). - Heider and Heider (Anon. Studies in the psychology of the deaf (prepared by the Psychological Division, Clarke School for the Deaf, Psych. Monogr. 1940, 52, 1 (whole number 232) p. 23-41) found that deaf children gave symbolic values to phonetic combinations. Kinesthetic factors played a major role. -- Training by auricular methods seems to give the best results. Much work remains to be done, e.g. research must be done concerning the nature of normal auditory discrimination of speech sounds, and the effects of degrees and types of hearing loss upon auditory discrimination and upon learning of normal speech habits.