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ABSTŖACT

Traditional research on the written language of hearing-impaired persons has tended to support apposition of deviant. language processing in such individuals. The major reason for such findings has been directly related to the lack of appropriate control groups. Recent studies which have emphasized the comparison of the language of hearing-impaired writers against normally hearing peers, rather than against an abstraction called "English," have supported the notion of linguistic delay, rather than deviancy. The latter studies, however, have placed their emphasis on syntactic consideration rather than the more promising semantic constraints. Research by this author which considered 100 syntactic and semantic. aspects is congenerous with recently stated positions by Quigley and aspociates, namely that "deviant" and "delayed" language systems sayexist side by side. Indeed, since the "deviant" rules see consistent across large numbers of hearing-impaired writers, one could argue k that these should be considered dialectal in nature, arising either from the effects of hearing impairment itself, or imposed by the educational and/or social isolation of deafness. (Author).

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WRITTEN LÂNGUAGE OF THE HEARING IMPAIRED - DEVIANT, DELAYED, OR DIFFERENT

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The program title for this presentation suggests a focus on the treatment of children with language dysfunction. In a sense that will be the topic, but instead of discussing oral language problems, I would like to follow Ms. Ganschow,'s lead by focusing on the written compositions of hearing impaired children and young adults, particularly as these writings seem) to form a variation of English, which we will discuss later as Deaf English.

For the language performance of children described as having linguistic dysfunction, two classifications have been used to explain such language acquisition problems, namely: 1) the category of linguistic rule deviancy or 2) severe delay in language onset. These two concepts have been used to describe language in children whose problems include hearing impairment, mental retardation, behavioral/emotional disorder, or socioeconomic disadvantage (Bereiter and Englemann; Cooper; Fuller; Lee; Lenneberg, Nichols and Rosenburger; Leonard; Menyuk; Newfield and Schlanger; Schmitt). There is, however, clear evidence that the child who is a non-standard dialect speaker or socially

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disadvantaged, has neither, a lànguage deviance or a delay, but well ordered systematic language performance like any other in his speech community (Baratz; Cazden; Houston; Labov and Cohen). Thus, such children's language performance can be described as dialectical rather than deviant or delayed. I do not wish to consider these latter children, but rather to focus on use of the aforementioned classifications as applied to significantly hearing impaired children. The concepts of deviancy and/or delay when applied to deaf persons have engendered a controversy among researchers and educators as to whether the language performance of deaf persons is predominantly deviant, delayed, or some combination of these concepts, or perhaps even dialectical in nature.

Before pursuing this controversy, let me offer working definitions of the descriptive terms. Since the focus in describing language should be in reference to its rule base and developmental patterns, each definition will be framed from that perspective. Linguistic rule deviancy can be defined as the condition in which a child or person using language has no identifiable rule system, or has developed a rule system that is totally or partially at odds with the mother thongue and normal developmental patterns. In the latter case, there is presumably no congruence between the target language to be

ERIC Full Text Provided by ERIC learned or the developmental stages specified for normally hearing children as they move stage by stage toward closer approximations of the adult grammar, and the rule system of the linguistically deviant, child. Language delay, on the other hand, refers either to a condition in which the child displays rule understanding that is developmentally similar to productions actually recorded for younger children, or which shows a lag at all ages, but is still progressing toward more sophisticated language behavior even though the end product may not be anything like adult forms. Dialectical difference refers to the situation in which the child has acquired a rule system that is consistent, but different from that of the In this instance, the child's rule system majority language. has developed, but because of some external factors which are consistent across all children of his speech community, his language patterns are systematically different from that of the majority or power dialect. To qualify as a dialect of the majority language, however, it must be intelligible to users of that standard dialect. Deviancy or delay appear in isolated children and seem to be idiosyncratic for these children, whereas dialectical differences presuppose consistent language performance within entire speech or language communities, for example, speakers of Black English.-

Traditionally, hearing impaired youngsters have been viewed

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as deviant language learners. The primary proponents of the deviant effects of hearing impairment have stemmed from and been deeply influenced by the works of Myklebust (1964) and Furth (1966). Myklebust has advocated the notion that, since hearing serves a primary information source, its elimination. produces an organismic shift in children, which results in a total reorganization of sensori-cognitive processing. Thus, when language forms are superimposed on this imperfect base, what results is a déviant language system. In contrast, Furth states that the only effect of deafness is on language learning per se, and the cognitive processes that are dependent on linguistic mastery. It is his supposition that all non-language learning of the child is unaffected, and that the deaf child quickly develops an idio ect based on nonauditory communication. Implicit in this position is the notion that dear children must have difficulty in acquiring verbal (oral/auditory) language since it must be superimposed on a child who is functioning well without it and who indeed has no motivation or need to learn it. From his writing, Furth seems very pessimistic about the deaf child's ability to achieve "normal" language function regardless of instructional mode. with such theoretical models dominant in the area of

search into language functioning of hearing impaired children

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heading impairment, it is not surprising that the intensive re-

or adults has resulted in interpretations that favor the deviant position. Several studies by Quigley and the University of Illinois research group (Wilbur and Quigley, 1971, 1972); by Lowenbraun (1970), Myklebust (1964), Schmitt (1968) and others have generated data, often from a psycholinguistic frame of reference, that has been interpreted in this vein. To familiarize the audience with this type of research, I want to discuss one of these studies briefly, one by Wilbur and Quigley (1972) on deaf children's understanding of relative clauses. The study consisted of administering a test in which 450 hearing impaired youngsters, ranging in age from ten to eighteen years, had to indicate their acceptance of inappropriate linguistic forms employing relative clause restrictions. The results indicated. that hearing impaired children had a tendency to read the surface order of the sentence rather than looking at its deep structure. Such behavior resulted in these children thinking that the girl went home rather than the boy in such sentences as THE BOY, WHO HIT THE GIRL, WENT HOME. Such behavior was interpreted as deviant or unexpected language performance, The primary difficulty with studies such as I have just referred to is that they persist in comparing the linguistic performance of hearing impaired children-against a perfect norm, namely, adult or mature English usage. Research on normally

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nearing children developing language done by such researchers Das Bloom (1973), Brown (1973), Ferguson and Slobin (1973), and Menyuk (1971) indicate that children rarely, if ever, use, receptively or expressively, what linguists define as perfect or mature English. Sanders (1971) in her study of adult comprehension of ask and tell constructions even raises a question as to whether the concept of adult or mature English even exists at all. It seems nisky therefore, to compare any different language user against an absolute norm. Unfortunately, even in those few studies in which comparisons have been made against actual language samples of normally hearing children of identical chronological age or of presumed language developmental age equivalency, research focus is usually on error amount of the deaf subjects with little discussion on the qualitative performance of either group.

The concept of delay in hearing impaired children's language acquisition has been explored using actual language behavior from normally hearing children as the base of comparison. Studies done at the University of Cincinnati by Morrison (1970), Juenke (1971), and Hess (1972) and studies such as those completed by Tweney and Hoemann (1973), Rower and Quigley (1973) and Kretschmer (1972) have suggested that the deaf child's problem is primarily a lack of experience with language, which results, in a significant developmental language in acquisition, rather than the acquisition of grossly deviant language patterns.

A survey of two of these studies will flesh out the delay Morrison (1970) studied thirty hearing impaired youngmodel. sters and sixty normally hearing youngsters, ages twelve to sixteen years, who gave drawing responses to the Northwestern Syntax Screening Test sentences. The latter test presents two sentences in a contrastive manner to ascertain whether knowledge of a particular linguistic form exists, such as THE FISH IS SWIMMING and THE FISH ARE SWIMMING to ascertain comprehension of singular and plural copula verbs. The study revealed two provocative findings: a) the patterns of difficulty for the two groups of students were parallel, so that the most difficult item for the hearing impaired was likely to be the most difficult for the normally hearing, and b) the types of picture portrayals made by both groups of children were essentially the same, which, because of the lack of age differences between the two groups, tend to argue for a delay explanation rather than a deviant rule model.

Hess's (1972) study was an attempt to track the language growth of a hearing impaired boy age four years nine months... whose hearing impairment had been discovered 19 months previously The approach was one of recording linguistic utterances and

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writing a grammar of the emerging language patterns. \hat{i}_{k} Tc investigate whether the effects of the language development program in which he was enrolled, which was based on the developmental literature then current, was productive, a comparison normally hearing child of comparable linguistic age was also studied during a five month time period. The results indicated that only two differences existed between the two children at the end of the study: first, that the hearing impaired child's SUBJECT POSITION was less differentiated, probably a result of teaching since only his name, his mother's, and his teacher's were used throughout this period in subject position; secondly, the hearing impaired child had achieved a more complete negation grammatical form than had the normally hearing child. Even` though chronologically almost two years apart, when the subjects were matched on linguistic age at the beginning of the study, similar language growth was observed, thus, showing only a language delay difference between the two children.

It is, of course, possible that a compromise of these two positions may be nearer the truth, namely, that deviant, delayed; and even normal systems exist side by side. For example, Quigley, Smith, and Wilbur (1974) in examining normally hearing and hearing impaired children's willingness to accept as correct

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instances of various types of incorrect usages of relative clauses observed that deaf children were willing to accept certain forms more frequently than normally hearing children, whereas other forms were shown to be accepted in a similar fashion by the two groups. AIn a second study by Quigley, Wilbur, and Montanelli (1974) on comprehension of question forms, nearing impaired children were again more willing to accept irregular forms such as copying as in sentences like WHERE THE DOG IN THE PARK? than were a sample of normally hearing children, even though development of an understanding of yes-no questions and wh-question forms was progressing in a similar manner. These findings lead those authors to suggest that developmental and deviant rule systems may exist side by side in the deaf child. In support of this position, Kretschmer (1974), in a study of the written language of approximately 1200+ normally hearing and 1200+ hearing impaired writers, ages eight through twenty, from a variety of educational settings, has observed some unusual performance particularly with reference to semantic equivalents. For instance, some stative/process verbs in English, take infinitive complements only, whereas others take action nominal complements only, while still others take both. Want is an example of the first type of verb; enjoy of the second; and like of the third. In the stories of hearing impaired children, except for children from a single school for the

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deaf, the rule seems to divide stative/process verbs into only two classes, namely, those verbs that take infinitives and those that take both infinitive and action nominal constructions. It appears that for these writers the action nominal only category of verbs have been regularized into the infinitive category, thus, resulting in sentence such as HE IS ENJORING TO WORK. Such classification of process/stative verbs has not been observed among the normally hearing writers in this sample. I have also noted instances of language delay in these compositions. For example, one of the most difficult constructions for hearing impaired children to master is the use of prepositions. Adverbial prepositions can be divided by their semantic function within sentences, that is, adverbials of location, time, causality. reason, possession, and so forth. Clark (1973) suggests that location adverbials are among the first to be established in the verbal comprehension/output of normally hearing children. Clark has also postulated that stationary prepositions are achieved before directional ones, and that the dimensional aspect, that is, one, two or three dimensions, is ignored in the early acquisition of these forms. In examining the use of location prepositions by young hearing impaired writers, it is evident that hearing impaired youngsters use stationary prepositions in place of

directional ones, résulting in sentences such as I RODE AT CHICAGO, and that the dimensional constraints of prepositions were often ignored resulting in sentences such as I PNT THE BALL AT THE BOX. Such confusions also appeared in normally hearing writers up to about thirteen years of age, so that with . respect to this form, the primary differences are ones of intensity of error rate and their persistence through the twenty year old composition of the hearing impaired w iters. Thus, I have begun to tentatively hypothesize the coexistence of deviant and developmentally delayed systems in the grammers of hearing impaired children. Might it not be simpler, however, to describe these rules as constituting a dialectical difference rather than showing a complicated assortment of deviant. delayed, and normal rules. Nonscandard dialects are used by speech communities that generally have more in common than the way they speak such as economic or geographic conditions and are generally also groups that are sociologically isolated from the power structure. If the written language performance of the hearing impaired stems From Influences such as its interaction with sign or gesture language, the absence of early stimulation, and/or the use of consistent "deaf" teaching strategies, then, these common factors could and probably should result in a nonstandard dialect, or Deaf English.

Studies on Deaf English show that it, in fact, does share characteristics with another nonstandard dialect, Black English, such as different use of the copula, of pronoun redundancy, as well as having unique features of its own which are syntactically different? but predominantly semantically different in nature. The fact that Deaf English was not observed in all chaldren in the kretschmer (1974) study suggests that deafness per se cannot explain its appearance. Quigley, Smith, and Wilbur (1974) among others have suggested that the interaction between the primary sign language used among deaf individuals and their limited exposure to standard forms could result in systematic deviations, which, in our opinion, could be one source of dialectical variation.

Another factor in dialectical variation could be the methods of instruction used with deaf children. For instance, <u>enjoy</u> is often given as a synonym of <u>like</u> to deaf children, and <u>like</u> is chiefly used in its infinitive form during the early period of deaf children's language development. Thus, through the information provided, the deaf child comes to hypothesize a single rule for both <u>like</u> and <u>enjoy</u>, which becomes differentiated for <u>like</u>, but not for <u>enjoy</u>. In this instance, a teaching methodology has contributed to formation of a nonstandard English rule, which is so consistent across the 1200+ children I studied that it assumes the position of a dialectical variation.

Compounded over many rules deaf writers could then come to constitute a group apart from the standard dialect users of written English.

Lastly, the isolation imposed by school settings on hearing impaired youngsters too could be a source of dialectical vari-Because of the lack of varied models and the need or ation. desire to control linguistic, as well as social, input into children, the deaf child is confined to a single pattern of response, which becomes resistive to change when he leaves school as an adult speaker. This situation is analogous to that of the so-called Black dialectical speaker. Because of racial, socio-economic factors, he is confined to a set of dialectical speakers and unless encouraged as a child, becomes less and less receptive to code switching or relearning as he approaches maturity. Code switching only becomes possible, however, when two conditions are met: 1) the child is provided with appropriate models of the target code and 2) he is not humiliated in his attempts to learn the second code, factors which are not necessarily present in current school settings for hearing impaired children.

The implications of this position are manifold. However, the most immediate and relevant point is a need for a reexamination of our teaching systems and procedures with hearing impaired children, unless it is our position to systematically promote

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Deaf English, a language system which to date has effectively excluded deaf persons from access to their rightful academic. vocational and social place in society.

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