Cerebral Palsy: Exceptional Child Bibliography Series.

Information Center on Exceptional Children.

Bureau of Education for the Handicapped (DHEW/OE),
Washington, D.C.

Feb 71
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*Annotated Bibliographies; *Bibliographies; *Cerebral Palsy; *Exceptional Child Education; Research Projects

Eighty-one references selected from Exceptional Child Education Abstracts are included in the annotated bibliography on cerebral palsy, one in a series of over 50 similar listings dealing with handicapped and gifted children. For each listing, bibliographic and availability information, indexing and retrieval descriptors, and an abstract are included. The research reports, texts, journal articles, and other literature listed cover such aspects of cerebral palsy as agency role, associated handicaps, child development, clinical diagnosis, educational needs and programs, etiology, services available, language development, medical treatment, physical and speech therapy, and others. Both an author and a subject index are provided. (KW)
CEREBRAL PALSY

February 1971

CEC Information Center on Exceptional Children
The Council for Exceptional Children
Jefferson Plaza, Suite 900
1411 S. Jefferson Davis Highway
Arlington, Virginia 22202

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How to Use the Indexes

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ABSTRACTS

**ABSTRACT 10005**
EC 01 0005  ED 010 716
Publ. Date 66  63p.
Teaching Aids for Children with Cerebral Palsy
Univ. Of The State Of New York, Albany, Bur. For Ph. Han.
EDRS mf,hc

Descriptors: exceptional child education; physically handicapped; instructional materials; perception; perceptual development; verbal development; instructional aids; cerebral palsy; concept formation; educational equipment; sensory training; number concepts; physical facilities; New York

Many children with cerebral palsy have various per-ontal handicaps which result from neurological impairment. Teaching aids are described by (1) name, (2) materials needed in construction, (3) pictorial representation, (4) explanation of use, and (5) the contributor's name. Categories of aids include (1) sensory development, (2) verbal development, (3) number development, and (4) physical equipment and facilities. Additional sources are listed. (GB)

**ABSTRACT 10058**
EC 01 0058  ED 014 821
Publ. Date 28Feb 66  31p.
Mc Cann, Cairee

Descriptors: exceptional child research; physically handicapped; communication (thought transfer); cerebral palsy; communication problems; electromechanical aids; audiosensory; children

A sample of 13 severely involved, cerebral palsied clients (12 children, one adult) participated in this study. Degree of neuromotor disability was determined by a scale based on activities of daily living. A psychological evaluation was made of all subjects in the study. Subjects were evaluated in their use of electronic switches connected to various output devices ranging in complexity from a simple series of lights to a specially modified electric typewriter. Successful use of these devices has implications for recreation, education, communication, and therapy. Switch controls that were developed included a joystick, a set of mercury switches mounted on a hat, a miniature joystick held between the teeth and operated by the tongue, a pneumatic control hemispherical joystick for a palmar surface control, several magnetically activated devices, and a horn button switch. Output devices included a display board with four lightbulbs, Etch-a-Sketch drawing toy strip projector and electric typewriter control device. Subjects were evaluated on time lapse between request for response and response and adequacy of response. The appendices include activities of daily living evaluation form, information on subjects tested and photographs of the input and output devices tested. (GB)

**ABSTRACT 10097**
EC 01 0097  ED 012 532
Publ. Date 25 Apr 66
Cruickshank, William M.
Cerebral Palsy, Its Individual and Conceptual Aetiology. EDRS not available

Descriptors: exceptional child education; physically handicapped; multiply handicapped; cerebral palsy; intelligence tests; speech handicap; personality; language handicap; personality handicapped; visually handicapped; physical therapy; occupational therapy; mental retardation; parent education; vocational counseling; parent counseling; vocational rehabilitation; employment; community planning; social work; medical services; clinical diagnosis; parent attitudes; community attitudes; Bender Vi.  Motor Gestalt Test

In this revised edition, illustrated with 98 figures and tables, some original chapters have been expanded and new chapters have been added. Contributing authors are listed, and include educators, clinical workers, and administrators in the field of cerebral palsy. References and notes conclude each chapter, and several chapters have sections on related reading. A general index and author index follow the text. Chapters are listed under general area headings of (1) diagnosis and assessment (scope of the problem, medical aspects, intelligence evaluation, personality characteristics), (2) avenues to communication (speech and language problems, hearing problems, visual disorders), (3) therapy and education (physical therapy, occupational therapy, educational planning, mental retardation), and (4) planning for life adjustment (parent counseling and education, social casework, vocational guidance, employment, total community planning for individuals with cerebral palsy). The book is intended for students, professional workers, and others interested in the problems of cerebral palsy. This document is available from the Syracuse University Press, Box 87, University Station, Syracuse, New York 13210 for $10.95. (JD)

**ABSTRACT 10115**
EC 01 0115  ED 015 573
Publ. Date 64
McDonald, Eugene T.
Cerebral Palsy, Foundations of Speech Pathology Series. EDRS not available

Descriptors: exceptional child education; identification; speech therapy; physically handicapped physical therapy; speech handicapped; cerebral palsy; language development; children; etiology; medical evaluation; multiply handicapped; neurologically handicapped; neurology; speech; speech evaluation; speech instruction; classification

This introductory text on cerebral palsy is divided into two sections. The first section of the book contains information about understanding the meaning of cerebral palsy, programe for those with cerebral palsy, the neurological bases, etiology, diagnosis, and the classification of cerebral palsy. Problems often associated with cerebral palsy are briefly discussed as are therapy employed in treatment. The last two chapters are concerned with diagnosis and treatment of language and speech problems. Each of the chapters has a series of suggested readings and questions about the topic. A 195-item bibliography is included. This document is available from Prentice-Hall, Inc., Englewood Cliffs, New Jersey, and is available for $4.95. (GB)

**ABSTRACT 10354**
EC 01 0354  ED 014 834
Publ. Date Dec 66
Robinault, Isabel P., Comp.

Descriptors: exceptional child education; audiovisual instruction; physically handicapped; vocational rehabilitation; cerebral palsy; films; filmstrips; annotated bibliographies; catalogs; instructional materials; medical evaluation; recreation; management; activities

One hundred twenty-seven films and filmstrips related to the diagnosis and habilitation of cerebral palsied persons with varying ages, needs, and circumstances are listed in this publication. The titles are listed alphabetically in sections--basic sciences and basic information, activities of daily living, medical aspects, physical therapy, management, nutrition, educational, bibliographies, parks and recreation, medical services, educational equipment, learning, and teaching. The book contains information about understanding the meaning of cerebral palsy, programs for those with cerebral palsy, the neurological bases, etiology, diagnosis, and the classification of cerebral palsy. Problems often associated with cerebral palsy are briefly discussed as are therapy employed in treatment. The last two chapters are concerned with diagnosis and treatment of language and speech problems. Each of the chapters has a series of suggested readings and questions about the topic. A 195-item bibliography is included. This document is available from Prentice-Hall, Inc., Englewood Cliffs, New Jersey, and is available for $4.95. (GB)

**ABSTRACT 10373**
EC 01 0373  ED 314 181
Publ. Date 64
A Selective Bibliography on Brain-Damaged Children. Woods Sch. For Exceptional Children, Langhorne, Pa. EDRS mf,hc

Descriptors: exceptional child education; learning disabilities; minimally

![Image of the document page](https://example.com/image-url)
brain injured; annotated bibliographies; adolescents; behavior; cerebral palsy; children; clinical diagnosis; diagnostic tests; etiology; neurologically handicapped; medical treatment; individual characteristics; theories; educational principles

Ranging in date from 1924 to 1963, this selective bibliography includes 317 annotated references dealing directly with the behavioral characteristics of children with cerebral dysfunction. References have appeared in general journals, professional journals, or other sources available in university libraries. The bibliography is classified into six major divisions—(1) the entity and its description, (2) clinical and special diagnosis, (3) characteristic mechanisms and natural history, (4) etiology (clinical, experimental, and epidemiological), (5) treatment, education, and management, and (6) reviews, overviews, and theories. In each division references have been listed alphabetically by author. This document is an excerpt from Brain-Damage in the Biological and Social Aspects, edited by; Herbert G. Birch, reprinted with permission of the Association for Aid of Crippled Children. (JA)

ABSTRACT 10412
EC 01 0412 ED 013 519
Pub. Date 66
Mecham, Merlin J. And Others
Communication Training in Childhood Brain Damage. EDTA not available
Descriptors: exceptional child education; language; communication (thought transfer); learning disabilities; physically handicapped; minimally brain injured; cerebral palsy; assessment instruction; language instruction; psychological evaluation; neurologically handicapped; curriculum; preschool programs; children; speech evaluation; the handicapped; behavior; language development; educational therapy; psychological characteristics; perceptual handicaps; learning difficulties; speech handicaps; auditory training; teaching techniques

Intended as a text source book, or practical reference, the book discusses speech and hearing problems, psychological and linguistic implications, and special education for cerebral palsied and brain damaged children. Number and complexity of speech and hearing problems are emphasized, i.e., neuromuscular involvement, articulation, rhythm, voice and breathing, discrimination, hearing acuity, auditory linguistics, and symbolic problems. Methods of evaluating speech and hearing of brain damaged children are described, and the team approach is recommended for gathering psychological, social, and educational information. According to the authors, in shaping speech, hearing, and language behavior, the therapist strives for personal social communication, putting language into life situations. The therapy follows a developmental schedule geared to the child's level. Receptive and expressive language relates to meaningful experiences, rather than sound drills. In summarizing the psychological and linguistic implications of childhood brain damage, the authors list behavioral characteristics and methods of psychological evaluation, and briefly treat emotional factors. Curriculum, grouping, and methods of reporting progress for the preschool level are discussed. General learning problems and problems related to specific educational subject areas, such as reading and arithmetic, are discussed along with suggestions for appropriate teaching techniques. A reference list contains 421 items. This document was published by Charles C Thomas, Publisher, Springfield, Illinois. and is available for $11.75. (JB)

ABSTRACT 10419
EC 01 0419 ED 014 840
Pub. Date 13 Mar 65
67p.
Adams, Forrest H. And Others
Selected Papers From Professional Program Segment of United Cerebral Palsy's Annual Conference (15th Los Angeles, California, March 11-13, 1965). United Cerebral Palsy Association, New York, New York EDTA mEhc

Descriptors: exceptional child education; vocational rehabilitation; physically handicapped; cerebral palsy; conference reports; diagnostic tests; employment opportunities; evaluation; handicapped; language handicaps; learning difficulties; minimally brain injured; perceptual motor coordination; research needs; state agencies; teacher role; Illinois Test of Psycholinguistic Abilities; ITPA


ABSTRACT 10424
EC 01 0424 ED 015 610
Pub. Date 67
Hatron, Daniel A.
Understanding Cerebral Palsy, a Handbook for Parents. Erie County Crippled Children's Society, Inc. EDTA not available

Descriptors: exceptional child education; physically handicapped; family (sociological unit); parents; cerebral palsy; parent role; parent attitudes; children; discipline; intellectual development

Written by a psychologist, this manual provides basic information about the nature of cerebral palsy and discusses feelings and reactions of parents of cerebral palsied children. Information about the brain and brain damage in relation to motor and emotional function, perception, and intelligence is presented. Attention is given to problems arising in the family's acceptance of diagnosis and attendant feelings of guilt. There is also discussion of education, and the question of institutional care for the cerebral palsied child. An appendix defines related terms. This document was published by the Erie County Crippled Children's Society, 101 East Sixth Street, Erie, Pennsylvania 16501. (SB)

ABSTRACT 10565
EC 01 0565 ED 021 374
Pub. Date 67
115p.

Descriptors: exceptional child services; physical handicap; cerebral palsy; medical care; community; program planning; incidence; clinical diagnosis; cerebral palsy; medical treatment; etiology; preventive medicine; medical evaluation; educational diagnosis; vocational education; community services; institutions; hospitals; homebound; social services

Directed to persons in voluntary or official agencies and to planning groups whose decisions determine or affect the extent, coverage, content, and operation of community services to children who are handicapped by cerebral palsy, this guide has as its objectives to present background information on cerebral palsy as it affects the individual children, their families, and their communities, to suggest policies, goals and methods of approach to the problem of cerebral palsy on both an individual and community basis, and to outline practical ways of organizing services and community resources for the cerebral palsied. Basic concepts and facts about cerebral palsy, causes and prevention of the disease.
casefinding, diagnosis, program planning, and methods of treatment and guidance are described. Special services and facilities are discussed, and the organization of community resources are considered. The need for program study and evaluation and the role of research are presented. The appendices outline etiologic, medical, and educational classification of children with cerebral palsy, examine qualifications for professional personnel, and include an example of procedure in a diagnostic clinic session for children with cerebral palsy. (MC)

ABSTRACT 10588
EC 01 0588
Alpha Chi Omega Toy Book. Alpha Chi Omega Fraternity, Indianapolis, Indiana.
EDRS not available
Alpha Chi Omega National Headquarters, 3445 Washington Boulevard, Indianapolis, Indiana 46205.

Descriptors: Exceptional child education; physically handicapped; self care skills; instructional materials; manipulative materials; cerebral palsy; children; toys; psychomotor skills; perceptual motor coordination; skill development; games; handicapped

Patterns and directions are given for making self-help toys for cerebral palsied and other handicapped children. The toys are designed to entertain and to develop muscle coordination and finger-elbow dexterity, teach self-help skills such as dressing, stimulate visual perception, encourage hand grasps and eye-hand coordination, motivate speech, and give dramatic play. Illustrations and directions are given for the construction of 38 toys; 10 additional toys and 11 kits for play activities are also suggested. (DF)

ABSTRACT 10721
EC 01 0721
Cerebral Palsy: A Taxonomy of Related Problems. Minnesota University, Minneapolis, Department Of Special Education.
EDRS not available
Cerebral Palsy Journal; V28 N6 P8-10 Nov-Dec 1967.

Descriptors: Exceptional child education; physically handicapped; cerebral palsy; taxonomy; individual needs; special services; agencies; financial support

A taxonomy that gives form and structure to what is known about those with cerebral palsy is presented, and its advantages are described. Limited to factors beyond the neurological and physiological determinants and characteristics of cerebral palsy, the taxonomy elaborates on four dimensions: the needs of the cerebral palsied, services to meet these needs, agencies which can provide these services, and aid for financing services and agencies. An illustrative manipulation of some of the factors of each dimension is given to show the taxonomy's use for further study and exploration of problems of the cerebral palsied. (SN)

ABSTRACT 10726
EC 01 0726

EDRS not available

PUBS-PUB-1370

Report Included In Annual Statement Made To The Congress Of The United States By The Director Of The National Institutes Of Neurological Diseases And Blindness.

Descriptors: Exceptional child research; mentally handicapped; infancy; neurologically handicapped; prenatal influences; medical research; pregnancy; medical evaluation; premature infants; medical treatment; cerebral palsy; etiology; identification; clinical diagnosis; cooperative programs; infectious diseases; mothers; follow-up studies; biochemistry; minimally brain injured; child development

The purpose, scope, and methods of the Collaborative Perinatal Research Project are summarized; and findings are given relating to pregnancy, birth problems, prematurity, and condition of the mother. A discussion of cerebral palsy defines the condition, and discusses causation and cerebral palsy research by the National Institute of Neurological Diseases and Blindness. Research approaches for discovering effects of damaging influences before, during, and after birth upon structure, organization, and mode of action of the central nervous system affecting mental development are presented. Research findings are considered in areas of genetics, perinatal factors, radiation damage, congenital malformations in animals, biochemistry, vein pressure, circulation, central nervous system damage, and brain growth. The following are also described: techniques in screening and diagnosis of infants; therapeutic and preventive measures; effects of other programs; basic studies of neurological and sensory system; and program developments. (JM)

ABSTRACT 10780
EC 01 0780

EDRS not available

Descriptors: Exceptional child education; physically handicapped; speech

Based on 6 years of work with cerebral palsied children, the thesis considers types and causes of cerebral palsy, the life pattern of the child with cerebral palsy from early years to adolescence, and the effect of the handicapped child on his parents and family. Literature on behavior disorders is reviewed, and kinds of behavior problems are described. Causes of behavior problems considered are the handicap of cerebral palsy itself and the environment and home; some solutions are suggested for the cerebral palsied child in school. Case histories are cited. (LE)
Perceptual disturbances, six tests were administered: Tactual Motor Test, the Syracuse Visual Figure Background Test; Binet Vocabulary Test; Tactual Motor Test; Marble Board Test; Fly Test; SVFB; Terman Merrill Intelligence Scale.

A study of perception used a sample of 325 cerebral palsied children (211 were spastic, 114 were athetoid) and 110 normal children. All children were between 6 months of age and of normal intelligence. To investigate perceptual disturbances, six tests were administered: Tactual Motor Test, the Syracuse Visual Figure Background Test (SVFB), the Marble Board Test, a maze test, and two disc tests designed to measure tactual perception of geometric shapes. The Binet Vocabulary Test was used as a screening test to establish rapport. Data were analyzed by comparing the three groups of subjects on each measure and determining relationships to chronological age and sex. Relations among the perceptual measures were computed. Cerebral palsied subjects performed more poorly on the SVFB, the Marble Board, the Tactual Motor, and maze tests than did the normal subjects. Disc tests were easily performed by all subjects. Spostaic subjects performed more poorly than athetoid subjects on the Marble Board and the SVFB Tests. All tests showed developmental trends and the effect of age was most pronounced for the Tactual Motor, Marble Board, and maze tests, and lower for the SVFB test. Generally, relationships between tests were low (except for Marble Board and Tactual Motor tests for the spastic group). In an additional study, the Lerman-Merrill Intelligence Scale, Vocabulary Test, the Fly Test, t.s. SVFB Test, a test of color vision, and an experimental figure-background test were administered to 40 spastic subjects aged 6 to 16 years. The spastic subject's perception increased with length of his observation time; more figure was perceived in color materials; perception was slightly better for three dimensional than for two dimensional materials; and more figure was perceived when a large figure on a large background was presented than with other combinations. A 96-item bibliography is included.
lapped, the adolescent, and the adult. Findings of the workshop are summarized by a panel representing areas of medical and health services, education, and rehabilitation. (SB)

ABSTRACT 10984
EC 01 0994 ED N.A. Publ. Date 67 39p.
Realistic Educational Planning for Children with Cerebral Palsy; Preschool Level.
United Cerebral Palsy Associations, Inc., New York, New York
EDRS not available

Descriptors: exceptional child education; cerebral palsy; physically handicapped; teaching methods; language development; physical development; mental development; preschool children; infants; student evaluation; parent counseling; kindergarten children; adjustment (to environment); child development.

The needs of the young cerebral palsied child in infancy, nursery school, and kindergarten are discussed. Aspects considered include educational classifications and philosophy. Techniques are suggested for evaluating the child and for promoting physical and mental development, communication and language development, and emotional and social adjustment on each of the three levels discussed. (LE)

ABSTRACT 11029
EC 01 1029 ED N.A. Publ. Date Dec 67 6p.
Haskell, Sim H.
Impairment of Arithmetic Skills in Cerebral Palsied Children and a Programmed Remedial Approach.
London University, England
Spastics Society, England
EDRS not available
Journal Of Special Education; VI N4 P419-24 Dec 1967

Descriptors: exceptional child research; physically handicapped; cerebral palsy; mathematical concepts; arithmetic; learning disabilities; perceptual motor learning; emotional problems; attention span; programmed instruction; research reviews (publications)

Studies focusing on the cerebral palsied (CP) child's problems in learning arithmetic skills which suggest that several factors specific to the disability affect arithmetic attainment are reviewed. These factors include lack of sensorimotor experience, higher incidence of ocular defects, disorders in perception, disturbances in visuomotor skills, distractibility, perseveration, difficulty in generalizing, and higher incidence of emotional disturbance. Advantages of programmed instruction discussed are that it lessens learning time, increases legth of information retention, and better understanding of subject matter. The author's study is cited in which 21 CP children, aged 9 to 16 years, received a 13-week course of programmed instruction covering four basic arithmetic rules while a matched group of similarly handicapped children was taught by conventional methods. Results reported are that both groups showed improvement, programmed instruction was equal to the conventional method, and the most handicapped benefited the most from the programmed instruction. Refinement of the programmed instruction course, with more series of stages, is recommended. (SB)

ABSTRACT 11113
EC 01 1113 ED N.A. Publ. Date 62 23p.
Carter, John Harvey
Educational Environment for the Orthopedically Handicapped Including the Cerebral Palsied.
California State Department Of Education, Sacramento, Bureau Of Special Education
EDRS not available
John Harvey Carter, 417 20th Street, Sacramento, California 95814.

Descriptors: exceptional child education; physically handicapped; cerebral palsy; orthopedically handicapped; facilities; educational facilities; equipment; educational specifications; facility guidelines; learning characteristics; units of study (subject fields); educational programs; curriculum; school services; physical therapy; occupational therapy; speech therapy; learning activities; recreational facilities; classrooms; school architecture.

Prepared as a guide to planners and administrators, the report considers architectural problems in the design of educational facilities for orthopedically handicapped and cerebral palsied children. Factors influencing the learning process and selection of instructional materials are discussed; and daily programs suggesting subject areas, activities, equipment, and schedules are provided for the preprimary, primary, and advanced groups. Further aspects considered include therapy facilities, shop, speech, physical and occupational therapy activities, kitchens, resting rooms, and classrooms and suggested classroom equipment. Also described are special equipment requirements and sizes, controls for lights and windows, braille identification of facilities, hazards, walks, ramps, toilet rooms, playground facilities, and equipment, color, floor materials, storage, and access. Nine references are cited. (UD)

ABSTRACT 11358
EC 01 1358 ED N.A. Publ. Date 67 8p.
Wilson, Barbara C.; Wilson, James J.
Sensory and Perceptual Functions in the Cerebral Palsied: I. Pressure Thresholds and Two-Point Discrimination.
Institute For The Crippled And Disabled, New York, New York;
Queens College, City University Of New York, Flushing, Department Of Psychology;
Association For The Aid Of Crippled Children, New York, New York;
Easter Seal Research Foundation, Chicago, Illinois
EDRS not available
Journal Of Nervous And Mental Disease; VI 145 N1 P53-60 1967

Descriptors: exceptional child research; physically handicapped; perception; tests; cerebral palsy; tactual perception; perceptual development; testing; perception tests; neurologically handicapped; cutaneous sense

Quantitative measurements of pressure thresholds and two-point discrimination were made on the preferred hands of 120 cerebral palsied (CP) subjects, aged 7 to 21 years, and 60 non-neurologically involved control subjects. A modified Von Frey aesthesiometer was used to determine light pressure thresholds and a pair of modified Vernier calipers determined two-point limens. Threshold was that stimulus which elicited a response 50% of the time. Results indicated that 48% of the CP group had one or more sensory deficits and CP thresholds were higher than control group thresholds on pressure-pain and two-point
Thresholds. Both the two-point and the pressure-pain tests appeared to top independent functions; group means did not differ significantly for the spastic and athetoid subgroups within the CP group. (SB)

**ABSTRACT 11385**

EC 01 1385  
ED N.A.  
Publ. Date 66  
33p.  
Helsel, Elsie D.; Ed.; Graham, Earl C., Ed.  
Tomorrow is Today; Planning Ahead for Long Term Care, Legally--Financially.  
United Cerebral Palsy Associations, Inc., New York, New York  
EDRS not available

Descriptive: exceptional child services; physically handicapped; neurologically handicapped; cerebral palsy; family problems; financial support; residential care; social welfare; insurance programs; personal care homes; health insurance

Intended for parents planning for the needs of children with cerebral palsy, the pamphlet discusses starting to plan for the future, including evaluation, information sources, and follow through and followup. Also considered are how to live and what to do and how to pay for care (the following are mentioned: Social Security, disability benefits, aid to the permanently and totally disabled, veterans' benefits, insurance, and trusts). Means of providing protective supervision are reviewed as are the need for and function of a protective service and the importance of the parents' legal wills. Appended are a list of 42 references and definitions of 33 terms. (LE)

**ABSTRACT 11452**

EC 01 1452  
ED N.A.  
Publ. Date 66  
2p.  
Gerber, Sanford E.  
Cerebral Palsy and Hearing Loss.  
California University, Santa Barbara  
EDRS not available

Descriptive: exceptional child research; physically handicapped; cerebral palsy; hearing loss; children; audiology; deaf; etiology; public schools; day schools; classification; incidence

The wide variation in estimates of hearing loss among the cerebral palsied population led to this study of the incidence of hearing loss among various subgroups of cerebral palsied children. Kernicterus was the only etiology considered separately. Students at three California public school day classes received audiometric tests. The ear-choice technique was used. Findings agreed with conclusions of previous studies that cerebral palsied children show a higher incidence of hearing loss than the general population, but noted that spastics are an exception. The athetoid and kernicterus group had the poorest hearing. Hearing of erythroblastosics was significantly poorer than that of athetoids with other etiologies. Nonkernicterus cases were not significantly different from spastics. Thus the study suggests that on an auditory, neurological, and educational or rehabilitative basis, classifications of spastic and athetoid are oversimplified and of little value, and that a classification system based on etiology would have greater predictive value. (JD)

**ABSTRACT 11454**

EC 01 1454  
ED N.A.  
Publ. Date 66  
2p.  
Irwin, Orvis C.  
Length of Declarative Sentences in the Language of Cerebral Palsied Children.  
Western State University, Kansas, Institute Of Logopedics National Institute Of Neurological Diseases And Blindness (DHEW), Bethesda, Maryland  
EDRS not available  
NB-01899-08  
Cerebral Palsy Journal; V27 N6 Nov-Dec 966

Descriptive: exceptional child research; physically handicapped; language; cerebral palsy; sentence structure; children; sex differences; word frequency; grammar; vocabulary

To determine the number of complete and incomplete declarative sentences in the expressions of cerebral palsied children and the number of words used by these children in both complete and incomplete utterances, a 3-picture test was given to 66 children. The subjects included 33 boys and 33 girls, aged 5 to 16 (average age 12-6) with a mental age range of 4 to 18 years (mean age 10-5). Data on expressions containing both complete and incomplete declarative sentences were analyzed and categorized according to sex to determine the number of complete and incomplete sentences and the length of both kinds of sentences by either sex. It was found that more complete than incomplete declarative sentences were used (p equals .025), the mean for boys on both types of sentences significantly exceeded that of girls (p equals .05), complete sentences had a significantly larger mean number of words per sentence (p equals .001), and there was no apparent sex difference in mean number of words per sentence. (JD)

**ABSTRACT 11488**

EC 01 1488  
ED N.A.  
Publ. Date 66 Apr 66  
269p.  
Neilson, Helle H.  
A Psychological Study of Cerebral Palsied Children.  
Scandinavian University Books, Munksgaard, Copenhagen, Denmark

Descriptive: exceptional child research; physically handicapped; cerebral palsy; learning characteristics; personality problems; perceptual motor coordination; social adjustment; emotional adjustment; testing; individual characteristics; perception

Forty nonhandicapped children were matched with 40 cerebral palsied children, ages 6 to 15. Binet IQ's at least 75, half of whom had spastic hemiplegia and half spastic paraplegia. All of the palsied subjects suffered slight to moderately severe difficulty in movement. Eight tests were administered. Bender's Visual Motor Gestalt Test errors were of a general nature with no specific errors of a high frequency; the handicapped group made significantly more errors; and visuomotor disturbances and personality were not correlated. The Rey Labyrinth Test indicated that the palsied children, even with normal intelligence, had significantly greater difficulties with nonverbal learning than the controls. On at least one of the three projective tests, significantly more spastic than control children were evaluated as displaying signs of moderate to severe personality disorders. One in four of the spasitics were estimated as socially maladjusted by parents and teachers. Twice as many hemiplegics as paraplegics had inferior Bender performances and more hemiplegics had personality disorders, probably related to a greater neurological impairment. (DF)

**ABSTRACT 11517**

EC 01 1517  
ED 029 416  
Publ. Date 26 May 66  
287p.  
Frampton, Merle E. And Others  
Forgotten Children: A Program for the Multihandicapped.  
EDRS not available  
Porter Sargent Publisher, 11 Beacon Street, Boston, Massachusetts 02108 ($5.65).

Descriptive: exceptional child research; multiply handicapped; visually handicapped; cerebral palsy; physically handicapped; case studies (education); student evaluation; individual instruction; residential schools; physical therapy; recreational activities; therapeutic environment; teaching methods; multisensory training; special activities; language development; curriculum; staff role; parent school relationship

In a cerebral palsy-blind experimental school unit for day and residential care, a staff of 13 served 30 children in 6 years with 12 to 17 children each year. All but six children who were found to be nontrainable progressed; eight became trainable, eight trainable and partly educable, and eight educable. Variability progress was found characteristic of most of the children. Group placement was changeable in the three groups for children needing social skills, for children with the greatest learning difficulties, and for children able to benefit from a full academic program. The medical services were the foundation of the program; the residential care given stressed a structured environment with 19 living at the school 10 months a year. Both physical therapy and the therapeutic setting used to teach the children how to play and use their leisure time tried to establish interaction with the world; personality was also
developed by use of any creative ability. Speech therapy was given to 15 children and the language development program, like the academic program, included a total program for all, group programs, and an individual one for each child. The child also kept close involvement with parents. Recommendations were for a total clinic and a multifocal school. Case studies are provided of one child through age 6 and of four girls. (SN)

**ABSTRACT 11576**

EC 01 1576  ED N.A.  Publ. Date Oct 67  3p. Irwin, Orvis C.; Korst, Joseph W.  Correlations Among Five Speech Tests and the WISC Verbal Scale.  EDRS not available  Cerebral Palsy Journal; V28 N5 P9-11  Sept-Oct 1967  Descriptors: exceptional child research; physically handicapped; speech handicapped; testing; cerebral palsy; intelligence tests; speech tests; correlation; verbal ability; Wechsler Intelligence Scale for Children

Five speech tests were administered to 130 cerebral palsied children, aged 6 through 16 years; the tests were of consonant articulation, sound discrimination, abstraction, vocabulary of use, and vocabulary of understanding. Most of the correlations between the tests, ranging from .08 to .67, were low, suggesting that the tests constituted relatively independent variables; and similar correlations were obtained for a supplementaty sample of 40 cerebral palsied children. When the speech tests and the verbal scale of the Wechsler Intelligence Scale for Children (WISC) were administered to 28 cerebral palsied and 52 aphasic children of similar age range, scaled WISC scores correlated at .94 with raw scores on the test of Vocabulary of Understanding and from .09 to .49 with scores on the other four, thus suggesting that the tests measured different aspects of verbal performance in the speech handicapped. (RK)

**ABSTRACT 11628**

EC 01 1628  ED N.A.  Publ. Date 66  33p. Denhoff, Eric, Ed.; Langdon, Margaret, Ed.  Cerebral Dysfunction; A Treatment Program for Young Children.  Clinical Pediatrics Symposium.  Meeting Street School, Providence, Rhode Island, Children's Rehabilitation Center; Miriam Hospital, Providence, Rhode Island  National Society For Crippled Children And Adults. The Easter Seal Society, 2030 West Ogden Avenue, Chicago, Illinois 60612 (Reprint No. D-37).  Clinical Pediatrics, V5 N6 P33-65  Jun 1966  Descriptors: exceptional child services; preschool children; physically handicapped; cerebral palsy; medical treatment; interdisciplinary approach; social workers; physical therapy; educational programs; speech therapy; psychologists; identification; clinical diagnosis; child development; child rearing

Thirteen articles describe the treatment of cerebral dysfunction in young children. Denhoff discusses the role of the pediatrician in the early discovery of cerebral dysfunction. Litchman considers the early orthopedic examination of the child with cerebral dysfunction; Silver and Simon describe several surgical procedures of orthopedic therapy; and Langdon discusses the philosophy and medical policy of the Rhode Island Easter Seal Society's school. Breasing as an aid to orthopedic therapy is commented upon by Spindell; the social worker's role is delineated by Cassidy and Venezia. As part of a home development, the guidance program, physical therapy is treated by D'Wolf and Donnelly, occupational therapy by Kornich and Noyes, and speech, hearing, and language therapy by Scory and others. Also described are the psychologist's functions, by Siqueland and Stere; the uses of special education, by Langdon, and the team approach, by Cassidy. (DF)

**ABSTRACT 11728**

EC 01 1728  ED N.A.  Publ. Date Oct 67  2p. Wildman, Peggy Rigos  The Self-Concept of the Cerebral Palsied Child.  EDRS not available  Cerebral Palsy Journal; V28 N5 P5-6  Sept-Oct 1967  Descriptors: exceptional child education; physically handicapped; child development; personality; cerebral palsy; individual characteristics; self concept; teacher role; self actualization; personality development

The development of self concept in the cerebral palsied child is discussed from several viewpoints. The barrier present in the child is the physical handicap and the characteristics of a fully functioning personality are considered; ways of assisting handicapped persons to develop those characteristics are proposed. (SB)

**ABSTRACT 11751**

EC 01 1751  ED N.A.  Publ. Date Oct 66  3p. Irwin, Orvis C.  A Language Test for Use with Cerebral Palsied Children.  Wichita State University, Kansas, Institute Of Logopedics  National Institute Of Neurological Diseases And Blindness, Bethesda, Maryland  EDRS not available  Cerebral Palsy Journal; V27 N5 P6-8  Oct 1966  Descriptors: exceptional child research; tests; language; physically handicapped; language tests; cerebral palsy; language ability; articulation (speech); abstraction tests; auditory discrimination

A battery of four tests was administered to 107 cerebral palsied children (aged 6 to 17) from several southwestern states. Children with hearing losses were excluded from the sample. The aims of the study were to evaluate their ability to articulate consonants, to discriminate sounds, to abstract meanings and to understand words, to determine interference of self speech, and to study the effect of sex, type and extent of cerebral palsy and relation of test scores to therapists' ratings of the children's general language ability. Tests were a consonant articulation test, an abstraction test, a test of discrimination of consonant sounds, and the Peabody Picture Vocabulary Test. Mean scores of four subtests and the total battery confirmed previous findings. Correlations among the four tests varied from .18 to .71. Correlation of the total battery with chronological age was 15. The effect of sex, type of cerebral palsy, and degree of involvement was not significant. However, there was a significant trend (p equaL. .001) in the mean ratings by therapists of general language ability. (JD)

**ABSTRACT 11752**

EC 01 1752  ED N.A.  Publ. Date Oct 66  3p. Doll, Edgar A.  An Attainment Scale for Appraising Young Children with Expressive Handicaps.  EDRS not available  Cerebral Palsy Journal; V27 NS P3-5  Oct 1966  Descriptors: exceptional child research; preschool children; tests; achievement; child development; cerebral palsy; communication (thought transfer); creativity; object manipulation; psychomotor skills; intellectual development; physical development; social development; test construction; cognitive processes; expressive language

Difficulties encountered in attempting to appraise achievement of cerebral palsied children led to the development of a scale patterned after the Vineland Social Maturity Scale, to measure and describe overall attainment of preschool children. The scale provides baselines for achievement in three major categories (physical, social, and intellectual) which are divided into eight subcategories: ambulation, manipulation, rapport, communication, responsibility, information, ideation, and creativity. Each subcategory contains one item for each age level from birth to 84 months by 6-month intervals. An examiner observes the child and interviews a qualified informant. Items are scored as plus, minus, or marginal. A clarifying appendix is an aid to scoring. Total item score is correlated with an age scale and interpreted in the light of influential personal and environmental factors. It is anticipated that once the test items are standardized and refined, the scale will be particularly useful in evaluating the culturally deprived and all types of handicapped children. Seven references are cited, and a table of preschool attainment items is given. (JD)

**ABSTRACT 11753**

EC 01 1753  ED N.A.
Predicted results of the long test with difficult consonant sounds. The long test for yearly evaluation of the program is aids and resource materials. The need for group discussion, and also lists teaching techniques of habit training, developmental stages of normally normal, 43% were below normal, and 48% were cerebral palsied. Speech and language ability of the normal children varied. Results indicated the following: the correlation coefficient between scores of the two tests was 90; the short test was reliable; and the short test predicted results of the long test with reasonable efficiency (56%), thus indicating its possible use instead of the long test when there is a need for economy of time and cost. (JD)

ABSTRACT 11757
EC 01 1757 EDRS not available
Cerebral Palsy Journal; V27 N5 P10 Oct 1966

Descriptors: exceptional child education; physically handicapped; mentally handicapped; severely handicapped; speech handicap; test reliability; rating scales; predictive validity; articulation; speech therapy; reading; spelling; tests.

Short and long tests of consonant articulation (30 and 67 items respectively) were given to 139 handicapped children in order to determine the degree of correlation between the two tests. The short consonant test, in two forms, one for mentally retarded and one for cerebral palsied children, was based on 10 difficult consonant sounds. The long test consisted of all consonant parts of a series for cerebral palsied and mentally reared children. The subjects were patients of whom 9% were mentally normal, 43% were below normal, and 48% were cerebral palsied. Speech and language ability of the normal children varied. Results indicated the following: the correlation coefficient between scores of the two tests was 90; the short test was reliable; and the short test predicted results of the long test with reasonable efficiency (56%), thus indicating its possible use instead of the long test when there is a need for economy of time and cost. (JD)

ABSTRACT 11943
EC 01 1943 EDRS not available
Cerebral Palsy Journal; V28 N1 P9-14 Jan-Feb 1967

ABSTRACT 11930
EC 01 1830 EDRS not available
Cerebral Palsy Journal; V27 N5 P10 Oct 1966

Descriptors: exceptional child education; physically handicapped; mentally handicapped; speech handicap; test reliability; rating scales; predictive validity; articulation; speech therapy; reading; spelling; tests.

A Further Study of the Number and Length of Sentences in the Language of Cerebral Palsied Children. Wichita State University, Kansas, Institute Of Logopedics National Institute Of Neurological Diseases And Blindness (DHEW), Bethesda, Maryland EDRS not available
Cerebral Palsy Journal; V28 N5 P3-4 Sept-Oct 1967

Descriptors: exceptional child education; physically handicapped; language; cerebral palsy; sex differences; language research; sentences; sentence structure; neurologically handicapped; language development; verbal ability

To examine number and length of complete and incomplete sentences, 22 cerebral palsied boys and 22 cerebral palsied girls were matched according to IQ (both means were 97) and chronological age (mean ages were 10.5 years for boys and 11.1 years for girls). The verbal responses to a three-picture test were recorded on tape and classified by sex, structural completeness, and length. Analysis indicated that neither sex differences nor differences between mean numbers of complete and incomplete sentences were significant. The means of boys and girls for the number of words per incomplete and complete sentences were not significant. However, complete sentences were longer than incomplete sentences (p less than .001). (SB)

ABSTRACT 11992
EC 01 1992 EDRS not available
Cerebral Palsy Journal; V27 N5 P10 Oct 1966

Descriptors: exceptional child education; physically handicapped; mentally handicapped; speech handicap; test reliability; rating scales; predictive validity; articulation; speech therapy; reading; spelling; tests.

A Parent Education Program for Parents of Cerebral Palsied Children. Wildman, Peggy Riggs EDRS not available
Cerebral Palsy Journal; V27 N5 P10 Oct 1966

Descriptors: exceptional child education; physically handicapped; mentally handicapped; speech handicap; test reliability; rating scales; predictive validity; articulation; speech therapy; reading; spelling; tests.

A Parent Education Program for Parents of Cerebral Palsied Children. Wildman, Peggy Riggs PubL Date Feb 67

EDRS not available

A Parent Education Program for Parents of Cerebral Palsied Children. Wildman, Peggy Riggs EDRS not available
Cerebral Palsy Journal; V27 N5 P10 Oct 1966

Descriptors: exceptional child education; physically handicapped; mentally handicapped; speech handicap; test reliability; rating scales; predictive validity; articulation; speech therapy; reading; spelling; tests.

A Parent Education Program for Parents of Cerebral Palsied Children. Wildman, Peggy Riggs EDRS not available
Cerebral Palsy Journal; V28 N5 P3-4 Sept-Oct 1967

Descriptors: exceptional child education; physically handicapped; language; cerebral palsy; sex differences; language research; sentences; sentence structure; neurologically handicapped; language development; verbal ability

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Also discussed in relation to protective supervision are the following: private financial trusts, activities for older persons, empirical studies of legal aspects, reports from action recorders, and steps to be taken. Three definitions of protective services are appended. (LE)

**ABSTRACT 12047**

EC 01 2047  ED N.A.
Publ. Date Sep 69  4p.
Netts, Ronald

**Changes in Oropharyngeal Cavity Size of Dysarthric Children.**

EDRS not available


Descriptors: exceptional child research; speech handicapped; motor reactions; cerebral palsy; articulation (speech); prostheses

Subjects were six cerebral palsied children with significant velopharyngeal dysfunction. The following hypothesis was tested: no decrease in the oropharyngeal cavity size will occur during vowel production following the insertion of a velopharyngeal prosthesis. Cinefluorographic measurements revealed a general decrease in oropharyngeal cavity size during low vowel production once a prosthesis was inserted. Significant changes were not observed in the high vowel comparisons. (Author)

**ABSTRACT 12063**

EC 01 2063  ED N.A.
Publ. Date 67  30p.
Brown, Spencer F.

**Cleft Palate, Cerebral Palsy.**

EDRS not available

*Harper And Row Publishers, Inc, 49 East 33rd Street, New York, New York 10016 ($7.50).*


Descriptors: exceptional child education; speech handicapped; cleft palate; physical disabilities; cerebral palsy; medical treatment; speech therapy; teacher attitudes

Cleft palate is described; its characteristic speech and its treatment are considered. In addition, cerebral palsy is discussed in terms of types, effects, characteristic speech and treatment. The classroom teacher's attitude toward the cerebral palsied child and understanding of the physically handicapped are surveyed. (JD)

**ABSTRACT 20108**

EC 02 0108  ED N.A.
Publ. Date Aug 66  2p.
Gertenrich, Roger L.

**A Simple Mouth-Held Writing Device for Use with Cerebral Palsy Patients.**

EDRS not available

*Mental Retardation;* V4 N4 P13-4 Aug 1966

Descriptors: exceptional child research; physically handicapped; cerebral palsy; handwriting; handwriting skills; case studies (education); educational equipment; equipment utilization

A mouth-held device was designed to enable a 29-year-old cerebral palsy patient to write. Practice with the device and subsequent with the hand was gradually increased. After 8 months the patient's condition improved so that he abandoned the device. The design of the device is explained with a figure provided. (JA)

**ABSTRACT 20169**

EC 02 0169  ED 031 837
Publ. Date 68  100p.

United Cerebral Palsy Associations, Inc., New York, New York, Medical And Scientific Department

EDRS m.lc

Descriptors: exceptional child services; physically handicapped; mentally handicapped; residential centers; architectural programming; institutional facilities; program instruction; medical rehabilitation; special services; employment programs; state legislation; program descriptions; federal programs; health services; research projects; cerebral palsy; volunteers; federal aid

Topics covered include the need for a change in attitude in the field of cerebral palsy, facilitation of special education programming through architecture, planning a residential center for the mentally retarded; the role of the architectural psychologists, the inferior condition of residential facilities for the severely handicapped, improved care and treatment in state institutions, programed instruction using TMI-Grollier materials, a program for employment opportunities, and vocational rehabilitation. Also presented are papers on the following subjects: the federal and state government's role in services for the handicapped; the relationships between the United Cerebral Palsy Association and mental retardation programs; Children's Bureau programs, and the U.S. Office of Education; comprehensive health planning; and a report by the National Medical Department. (RD)

**ABSTRACT 20170**

EC 02 0170  ED 031 838
Publ. Date 69  71p.
He IIF Plan; The Individual with Cerebral Palsy and His Family.

United Cerebral Palsy Association, Inc., New York, New York

EDRS m.lc

Descriptors: exceptional child services; physically handicapped; program planning; cerebral palsy; prevention; demonstration programs; program costs; committees; learning disabilities; follow-up studies; architecture; transportation; rural areas; professional training; agency role; legislation; professional education; public relations; research needs; cooperative programs

Background information, principles of service, and priorities for action preface a five year plan of operation to provide services for the cerebral palsy. Rationales, objective methods, timetables, financing, and programs are discussed for the following priorities: prevention and early care; comprehensive services for teenagers and adults with learning disabilities; information, referral, and followup services; architecture and technological aids; transportation; and service in rural and less populated areas; priorities of Children's Bureau which includes consultation and evaluation, influencing legislation, professional education, public information, demonstration projects, activities, and cooperative programming. A financing summary and a policy statement are presented. (RJ)

**ABSTRACT 20171**

EC 02 0171  ED 031 839
Publ. Date 69  116p.
Highlights of Service Programs. UCPA Affiliate Presentations at 1968 Regional Hearings.

United Cerebral Palsy Association, New York, New York, Medical And Scientific Department

EDRS m.lc

Descriptors: exceptional child services; physically handicapped; state programs; cerebral palsy; medical consultants; program planning; intervisc education; volunteer training; state legislation; tax support; community health services; agency role; preschool programs; dental clinics; clinical diagnosis; home programs; day care programs; residential care; prenatal influences; parent counseling; sheltered workshops

Focusing on community service programs for the cerebral palsied, organizational patterns considered are program implementation, a state advisory and evaluation board, a program committee, continuing staff education, staff training at state schools for the retarded, training sub-professional volunteers, state legislation, and financial support. Various patterns of care are presented and include an high risk mothers program, interdisciplinary clinics, rural satellite centers, the Rochester Rehabilitation Complex, agreement with the Visiting Nurses Association, the development of dental services, home service programs, day care programs, plans for a residential care facility, and a therapy program. Prevention and early care, infant, preschool, and nursery programs, and services to parents of preschool children are presented as aspects of early care. Adult and teen programs described are the small business enterprises program, sheltered workshops, continuous care for the severely handicapped, a work activity center, and the evolution of an activities program. (RJ)

**ABSTRACT 20191**

EC 02 0191  ED 031 859
Publ. Date Apr 68  8p.
Homebound and Hospitalized.

Council For Exceptional Children, Washington, D. C.

EDRS m.f

From CEC Selected Convention Papers
From The Annual International Convention (46th, New York City, April 14-20, 1968).

Descriptors: exceptional child services; homebound children; hospitalized children; conference reports; cerebral palsy; multiply handicapped, rural clinics; community programs; interdisciplinary approach; educational programs; day care programs

The special children's center for cerebral palsied and multiply handicapped children in a rural area involving a community sponsored multidisciplinary day program is the topic of the presentation by Frances Berko. A rural outpatient program which provides services to children in a six county area previously without sufficient services is discussed. The purposes, structure, and functions of the program are reviewed. This unit of reports is available in microfiche. (WW)

ABSTRACT 20216
EC 02 0216 ED N.A. Publ. Date 65 369p.
Keats, Sidney
Cerebral Palsy
EDRS not available
Charles C. Thomas, Publisher, 301-327 East Lawrence Avenue, Springfield, Illinois 62703 ($12.50).

Descriptors: exceptional child services; cerebral palsy; medical services; medical evaluation; medical treatment; etiology; interdisciplinary approach; multiply handicapped; rehabilitation programs; physical therapy; speech therapy; occupational therapy; preschool children; identification; self care skills; taxonomy; prostheses

Included in the text are the following discussions: the historical background and definition of cerebral palsy, incidence and etiology, applied anatomy and pathological findings, and classification and diagnosis. Methods of treatment presented are treatment goals and the team approach, orthopedic surgery, physical therapy, speech therapy, occupational therapy, preschool children, identification, self care skills, taxonomy, prostheses.

ABSTRACT 20300
EC 02 0300 ED N.A. Publ. Date Apr 65 168p.
Workshop on Cerebral Palsy: Problems of Etiology, Diagnosis, and Treatment (Hotel Richmond, Richmond, Virginia, April 5, 6, 7, 1965), Richmond Professional Institute, Virginia, School Of Social Work
Public Health Service (DHEW), Neurological And Sensory Disease Service Program
EDRS not available
Richmond Professional Institute, School Of Social Work, 901 West Franklin Street, Richmond, Virginia 23220.

Descriptors: exceptional child services; cerebral palsy; medical case histories; psychological testing; family problems; medical evaluation; medical treatment; case studies (education)

The problems involved in working with cerebral palsy are discussed as they are seen by physicians, teachers, psychologists, and social workers. Cases are presented to illustrate methods of diagnosis and treatment. Group discussions are summarized and recommendations given. (JP)

ABSTRACT 20420
EC 02 0420 ED N.A. Publ. Date 66 79p.
United Cerebral Palsy Associations Inc., New York, New York
EDRS not available
United Cerebral Palsy Associations, Inc., Medical And Scientific Department, 66 East 34th Street, New York, New York 10016.

Descriptors: exceptional child research; physically handicapped; conference reports; vocational rehabilitation; cerebral palsy; rubella; changing attitudes; community attitudes; day care services; medical research; preventive medicine; behavioral science research; federal aid; health programs; health services; welfare services

Papers presented at the conference consider the emerging trends in community health services, changing attitudes toward disability, attitudes toward disability on college campuses, development of services for young children, how infants learn, rubella research, rubella and United Cerebral Palsy Association (UCPA) research, behavioral sciences research, UCPA research and service trends, response to presentation of UCPA-Max Weinstein Award for 1966, and vocational rehabilitation research. Other topics of speeches include government philosophy and funding for health programs for the disabled, the importance of post-grant planning for UCPA affiliates, and regional and state vocational rehabilitation agencies as liaison between federal rehabilitation resources and community needs. Abstracts of recorder's reports of round table discussions are treated in the subjects of prevention (including related maternal, child health and crippled children's services), day care and developmental centers for children and adults, nursery and prenursery programs, elementary and secondary school education, homemakers services for parents of cerebral palsied individuals and for cerebral palsied adults, sources of mental retardation funds applicable to cerebral palsy programs, transportation services, and competitive

ABSTRACT 20475
EC 02 0475 ED N.A. Publ. Date 66 71p.
Lindsay, Zatidee
Art for Spastie.
EDRS not available

Descriptors: exceptional child education; physically handicapped; cerebral palsy; art; art activities; art expression; handicrafts; art materials; teaching methods; motor reactions; psychomotor skills

Plans for art projects which incorporate cerebral palsied children and adults, and the use of unorthodox tools are discussed. Each activity is designed to help improve muscular coordination and to provide creative outlets for the hemiplegic cerebral child. Chapters explain methods and helpful hints in developing projects in cutting into materials, drawing and painting pictures, modeling, space filling with various materials, space filling by printing, and fabric decorating. There are 42 photographs of art work by spastics. (WW)

ABSTRACT 20480
EC 02 0480 ED N.A. Publ. Date (68) 24p.
Realistic Educational Planning for Children with Cerebral Palsy; Psycho-educational Evaluation.
United Cerebral Palsy Associations, Inc., New New, New York
EDRS not available
United Cerebral Palsy Associations, Inc., 66 East 34th Street, New York, New York 10016 ($0.25).

Descriptors: exceptional child services; physically handicapped; tests; cerebral palsy; psychologists; standardized tests; psychological evaluation; psychological testing; test interpretation; testing; testing problems

Intended for psychologists working with the cerebral palsied, the manual discusses the role of psychological evaluation, qualifications of psychologists, and arrangements for testing. The place of standardized tests in examining young children, and adolescents and adults with cerebral palsy is considered, as are the use of supplementary tests with children and the measurement of emotional and social maturity. Flexibility in using standardized tests is explained; also explained is the evaluation of the examination, interpretation of test results, and special problems with unstable individuals. (LE)

ABSTRACT 20765
EC 02 0765 ED N.A. Publ. Date Oct 65 11p.
Argy, William P.
Montessori Versus Orthodox, A Study to Demonstrate the Relative Improvement of the Preschool Child with
Brain Damage Trained by One of the Two Methods. EDRS not available
Rehabilitation Literature; V26 N10 P294-304 Oct 1965

Descriptors: exceptional child research; learning disabilities; teaching methods; preschool children; minimally brain injured; neurologically handicapped; preschool education; cerebral palsy; mongolism; motivation techniques; child development; methods research; individualized programs; Montessori Method.

To compare the Montessori and Orthodox methods of teaching preschool children with brain damage associated with cerebral palsy, Mongolism, or other diagnoses, 71 brain damaged children were taught in two Montessori classes (40 children) and two Orthodox classes (31 children). The teaching program for the Orthodox classes was directed mainly toward the motivation of each child to participate according to his ability in the 3, 4, and 5-year-old mental activities. In the Montessori classes each child worked individually at a different level. The children were matched into three groups according to chronological age (71 children), intelligence quotient (16 pairs of children), and mental age (18 pairs). The Gesell tests measured the developmental age of each child at the beginning and end of the study. The mean improvement which was computed in months for ambulation, hand skills, speech, and school variant was greater (in the Montessori classes) for ambulation and school variants in the IQ-matched groups and ambulation in the MA-matched groups. For eight out of the 12 comparisons, the mean changes in developmental quotients favored the Montessori classes; however, the numbers involved in the study were too small to warrant any conclusion that either method is superior to the other. (LE)

ABSTRACT 20803

Descriptors: exceptional child services; day care services; cerebral palsy; neurologically handicapped; physically handicapped; physical facilities; financial support; administration; criteria; clinical diagnosis; recordkeeping; transportation; psychological evaluation; instructional materials; communication skills; perceptual motor learning; self concept; scheduling; mentally handicapped; adult education; professional personnel; parent counseling.

Designed for United Cerebral Palsy Association affiliates who are operating or planning to operate day care or development centers for severely and multiply disabled individuals, this pamphlet considers several aspects of such a program. Administrative considerations focus on sponsorship, operating policies, licensing standards for space and equipment, physical facilities, finances, fees, admissions, discharges, records, transportation, health, and program evaluation. Suggestions for evaluation of participants includes gathering social and developmental history, and medical and psychological evaluations. Programming for both day care and developmental classes is explained and covers the kinds of individuals served, the needs of the individuals, goals (including skills to be taught), and activities. In addition information is provided on methods, scheduling, expectations, and pitfalls. Special considerations are given for adult programs, staffing, and services to parents (feelings and attitudes, participation, future planning). Included are summaries of findings at functioning centers, plant and equipment standards, physical facilities, food care, and a 35-item bibliography. (RJ)
A longitudinal study of 100 educable and 100 noneducable cerebral palsied children (ages including preschool years through age seven) was conducted during a period of five years to examine problems of learning and adjustment, to estimate predictive value of intelligence tests and to evaluate the effects of therapy, training and teaching in the early years on subsequent progress. The children, who had all been receiving treatment, training and education at the Cheyne Cottage for Spastic Children (London), were examined in terms of physical and mental conditions, placement situations, and progress in the areas of self-help, speech and language, social behavior, educational achievement, and employability. Conclusions indicated the importance of early diagnosis and treatment, the need for parent counseling, and the benefits of long-term residential care. (RD)

Effects of Sensory Modality Stimulation on the Dysarthria of Cerebral Palsied Children. EDRS not available

Descriptors: exceptional child education; cerebral palsy; follow-up studies; program evaluation; identification; parent responsibility; placement; special services; mentally handicapped; Great Britain

A study of language disabilities in cerebral palsied children was conducted. The study included 30 cerebral palsied children, 15 of whom had kernicteric athetosis (KA) and hearing impairment, and 15 of whom had athetosis of other etiology and normal hearing. A third group consisted of 15 hearing impaired children with no central nervous dysfunction or history of parental Rh incompatibility. In the presence of kernicteric athetosis, the KA children scored lower than the other two groups on the Illinois Test of Psycholinguistic Abilities (ITPA). The ITPA can differentiate between the types of cerebral palsied children, with the KA group scoring lower than the other two groups on the representational level of language. The conclusion was that there is a basic difference in the language structure of the types of cerebral palsied children. The types were separated by two subtests on the representational and the automatic-sequential levels, indicating the capacity of the ITPA to differentiate between the types. The results of the study are presented in detail. (MK)
ic athetosis (KA) and hearing impairment, with ataxia and normal hearing, or with hearing impairments but no central nervous dysfunction or parental R OP incompatibility. Parents described their children in hearing loss groups as slower to develop an understanding of language. Normal hearing athetoid children showed no significant change in performance under conditions of reduced auditory input, on a recall of missing picture test and an attention test and on certain parts of a learning test and digit span test. They showed no change in performance on visual-perceptual or perceptual-motor tasks. The non-cerebral palsied group showed no significant difference in the amount of positive change exhibited by the two groups. (Author/EB)

ABSTRACT 21849
EC 02 1849 ED N.A.
Pub. Date May 70
Stone, Martin C.
Behavior Shaping in a Classroom for Children with Cerebral Palsy.
EDRS not available
Exceptional Children; V36 N9 P671-7
May 1970
Descriptors: exceptional child education; physically handicapped; behavior change; cerebral palsy; classroom environment; positive reinforcement; teaching methods; rewards; behavior problems
Seven boys diagnosed as cerebral palsied with possible diffuse organic brain damage participated in a classroom behavior shaping technique consisting of reinforcing or rewarding correct or desired behavior and not rewarding (ignoring) inappropriate behavior. Descriptions of behavior patterns and specific techniques are provided. Results based on observations indicated overall improvement in behavior patterns of the class. (RD)

ABSTRACT 22051
EC 02 2051 ED N.A.
Pub. Date 69 327p.
Wolf, James M., Ed.
The Results of Treatment in Cerebral Palsy.
EDRS not available
Charles C. Thomas, Publisher, 301-327 East Lawrence Avenue, Springfield, Illinois 62703 ($20.50).
Descriptors: cerebral palsy; minimally brain injured; neurologically handicapped; evaluation techniques; diagnostic tests; clinical diagnosis; occupational therapy; physical therapy; motor development; Doman-Delacato Method
A compilation of papers, the text presents research findings and theories concerning the measurement of treatment results. Three articles discuss historical background in cerebral palsy while four articles discuss evaluation methods. Nine studies of the results of treatment include the role of physical and occupational therapy, the Doman-Delacato Method, and early treatment. Developmental and assessment scales are described in eight papers which present several tests and evaluation instruments. (RJ)

ABSTRACT 22109
EC 02 2109 ED 023 143
Pub. Date Jun 68 143p.
Muthard, John E.; Hutchinson, Jack
Cerebral Palsied College Students; Their Education and Employment.
Florida University Gainesville Social and Rehabilitation Service (DHEW), Washington, D.C.; United Cerebral Palsy Association, New York, New York
EDRS mf hc
CPCS Study, United Cerebral Palsy Association, Inc., 66 East 34th Street, New York, New York 10016.
Descriptors: exceptional child research; cerebral palsy; college attendance; employment opportunities; physically handicapped; adjustment problems
Investigated were the problems of college students who have cerebral palsy, and the barriers which may confront them during post-college employment years. Investigated were situations encountered in college, and the methods used to overcome difficulties, the student's evaluation findings, and the effect of educational experiences and personal characteristics on post-college employment. A group of young cerebral palsied college students provided the data, describing their post-college and employment experiences. The responses of these individuals were tabulated to secure normative data or permit comparisons with findings from other college student groups. Personal, educational, and vocational characteristics of these students were compared with those of nonimpaired students. Personal, educational, and vocational characteristics of those cerebral palsied students employed in jobs related to education were compared with those employed in jobs not related to education. The major findings are discussed in terms of student characteristics, college problems, education and employment, and parental attitudes. The instruments used in this series of studies and tabulations of statistical findings are appended. (Author/IM)

ABSTRACT 22214
EC 02 2214 ED 037 866
Pub. Date 69 27p.
Fasler, J.
Performance of Cerebral Palsied Children under Conditions of Reduced Auditory Input on Selected Intellectual, Cognitive and Perceptual Tasks.
Columbia University, New York, New York, Teachers College Office Of Education (DHEW), Washington, D.C.
EDRS mf hc
RR-6
Descriptors: exceptional child research; physically handicapped; cerebral palsy; task performance; aural stimuli; memory; learning characteristics; cognitive processes; motor reactions
The study investigated the task performance of cerebral palsied children under conditions of reduced auditory input and under normal auditory conditions. A non-cerebral palsied group was studied in a similar manner. Results indicated that cerebral palsied children showed some positive change in performance, under conditions of reduced auditory input, on a recall of missing picture test and an attention test and on certain parts of a learning test and digit span test. They showed no change in performance on visual-perceptual or perceptual-motor tasks. The non-cerebral palsied group showed no significant difference in the amount of positive change exhibited by the two groups. (Author)

ABSTRACT 22230
EC 02 2230 ED 037 882
Pub. Date 70 224p.
Finnie, Narcie C.
Handling the Young Cerebral Palsied Child at Home.
EDRS not available
Descriptors: exceptional child services; cerebral palsy; parent education; physical development; child care; motor development; parent role; physical activities; physically handicapped
Written primarily for parents of cerebral palsied children, th: text discusses and illustrates methods for handling the child in daily activities. Introduced with a questionnaire concerning developmental stages and activity levels, the manual describes the most common difficulties of the spastic, athetoid, ataxic, or flaccid child. Drawings and explanations included concern general advice, the development of movement, carrying, bathing, toilet training, dressing, feeding, transporting, sleeping, play, and linking play with everyday activities. Also provided are lists for additional reading, terminology, and suppliers of accessories and equipment. (IM)

ABSTRACT 22410
EC 02 2410 ED N.A.
Pub. Date 69 178p.
Thomas, Evan W.
Brain-Injured Children.
EDRS not available
Charles C. Thomas, Publisher, 301-327 East Lawrence Avenue, Springfield, Illinois 62703 ($7.00).
Descriptors: exceptional child research; minimally brain injured; neurological defects; neurology; medical evaluation; medical treatment; cerebral palsy; dyslexia; mentally handicapped; epilepsy;
neurological organization; behavior problems; Delacato Method
Past practices, functional diagnosis, management techniques, and treatment methods concerning brain-injured children are discussed. The problems with old approaches and the need for new techniques are presented for brain injury, cerebral palsy, the pathology of cerebral palsy, its incidence and prevalence, mental retardation, epilepsy, behavioral disorders, and dyslexia. The advantages of a functional approach are included in descriptions of the controversy over brain injury as a diagnosis, the background and interpretation of neurological organization, the evaluation of neurological functions, and the principles and methods of Domany-Delacato therapeutic programs. Also included is an article by Edward B. LeWinn on evaluating the results of treatment of brain injury in children. (JM)

ABSTRACT 22785
EC 02 2785 ED N.A. Publ. Date 62 85p. Michal-Smith, Harold; Kastein, Shulamith
Descriptors: exceptional child education; cerebral palsy; parent role; speech; parent education; speech therapy; clinical diagnosis; language
Topics of papers included are experimental programming for cerebral-palied child by Harold Michal-Smith and speech hygiene guidance for parents of children with cerebral palsy, and cerebral palsy: current problems of diagnosis and assessment in language and speech both by Shulamith Kastein. The papers were prepared in conjunction with lectures delivered at the Northwest Summer Conference (July, 1960, University of Washington, Seattle) for lay and professional personnel interested in learning disabilities associated with brain injury. For topics of other papers see abstracts EC 004 404 to EC 004 406 and EC 004 408 to EC 004 409. (MS)

ABSTRACT 22813
EC 02 2813 ED N.A. Publ. Date 63 56p. Mysak, Edward D.
Principles of a Reflex Therapy Approach to Cerebral Palsy, Teachers College, Columbia University, Teachers College Press, Columbia University, West 120th Street, New York, New York 10027 ($1.75).
Descriptors: exceptional child research; physically handicapped; cerebral palsy; therapy; perceptual motor learning; neuromotor development; psychomotor skills; speech therapy; physical therapy; reflex therapy
The book considers the contribution that reflex therapy may make to the habilitation of the child with cerebral palsy. First are formulated theoretical constructs; the definition of cerebral palsy is derived from concepts concerning the evolution and dissolution of the nervous system and duplex symptomatology; and these principles are then integrated into a broader neurophysiological explanation of the effects of reflex therapy. Human reflexology is studied with emphasis on the application of these concepts to diagnosis and therapy. The remainder of the book is devoted to the practice of reflex therapy. The description of how reflex techniques involves both general approaches and supplementary techniques for speech and occupational habilitation. Considerations relevant to establishing such a therapy program are examined, including staffing, criteria for selecting candidates, records, and criteria for terminating therapy. The results of a pilot study investigating this approach are summarized. The appendices reproduce a table of reflexive maturation and motor development and furnish sample forms. (BG)

ABSTRACT 22911
EC 02 2911 ED N.A. Publ. Date 61 62p. Westlake, Harold; Rutherford, David
Speech Therapy for the Cerebral Paralied, EDRS not available National Easter Seal Society For Crippled Children And Adults, 232 West Ogden Avenue, Chicago.
Descriptors: exceptional child services; speech handicapped; cerebral palsy; speech therapy; motor development; psychological characteristics; social maturity; speech behavior patterns; clinical diagnosis; physiology
Written for professional workers in the field of cerebral palsy, the pamphlet suggests a practical approach to speech therapy. The general organization of the pamphlet includes an examination, the assessment of expressive, receptive and conceptual behavior, and the examination of the speech mechanism are discussed. Aspects of speech therapy considered are the psychological and social readiness for oral language and both non-specialized and specialized speech training techniques. General training principles include the rationale and techniques for several types of motor control; special applications of techniques related to the speaking process cover breathing, phonation, gross movement of the tongue, lips, and jaw, the facial muscles, and orthodontic problems. Photographs of therapy techniques are numerous. (GD)

ABSTRACT 22938
EC 02 2938 ED N.A. Publ. Date 54 113p. Hopkins, Thomas W. And Others
Evaluation and Education of the Cerebral Palsied Child: New Jersey Study, EDRS not available

Council For Exceptional Children, 1411 South Jefferson Davis Highway, Alexandria, Virginia 22302 (Out Of Print).
Descriptors: exceptional child research; physically handicapped; cerebral palsy; state surveys; educational needs; adjustment (to environment); psychological studies; educational therapy; parent counseling; etiology; intelligence level; parent attitudes; special schools; academic achievement; New Jersey
From 1936 to 1951 over 2,000 cerebral palsied individuals were given medical and psychological examinations in clinics conducted by the Crippled Children's Commission in New Jersey. The records of the 1505 active cases are reported in these areas: detailed physical findings for the State Group of 1406 cases aged 1 to 21 years; physical and educational findings for the School Group of 99 (students attending the A. Harry Moore School); psychological findings and evaluations, neurological factors revealed by parents and parent counseling; educational therapy and training; and integration of services. There are 33 tables of descriptive information and 21 illustrations. (LE)

ABSTRACT 22977
EC 02 2977 ED N.A. Publ. Date Sum 70 9p. Vernon, McCay
Clinical Phenomenon of Cerebral Palsy and Deafness, EDRS not available Exceptional Children; V36 N10 P743-51 Sum 1970
Descriptors: exceptional child research; aurally handicapped; cerebral palsy; etiology; clinical diagnosis; multiply handicapped
The clinical phenomenon of deafness and cerebral palsy is investigated based on a study of 69 cases. Intelligence, psychological adjustment, educational achievement, communication skills, physical disabilities, audiometric patterns, etiological factors, and prevalence are reported. From this information, steps for prevention and habilitation are developed. The future epidemiology of the condition is projected based on an integration of the research findings and on current medical advances in the treatment and prevention of complications of Rh factor, rubella, and meningitis. (Author)

ABSTRACT 23019
EC 02 3019 ED N.A. Publ. Date 61 40p. Shere, Marie Orr
Speech and Language Training for the Cerebral Palsied Child at Home, EDRS not available Interstate Printers And Publishers, 19-27 North Jackson Street, Danville, Illinois ($1.00).
Descriptors: exceptional child education; cerebral palsy; speech handicaps; speech therapy; speech instruction; parent participation; teaching techniques; home instruction

Exceptional Child Bibliography Series
Written for parents of cerebral palsey children, the booklet suggests ways in which they may work with their child's speech when a qualified teacher is not available. Relaxation is emphasized, both in the home atmosphere and with specific exercises. The importance of speech related activities (chewing, sucking, and swallowing), motivating the child to talk, and general speech improvement are explored, including specific suggestions for working with cerebral palsey children. Mouth exercises, books, stories, toys, and good speech models are recommended among other things. When speech development is delayed, the booklet recommends that the parent take the child to a clinic for evaluation. General instructions for giving lessons stress pleasant surroundings and regular schedule. Specific games and seasonal activities are listed. Appen-dixes contain a speech evaluation form, suggested physical exercises (for relaxation, breathing, voice), 111 tables of pertinent articles by the author, additional lesson material, and rules for therapy. (JB)

**ABSTRACT 23041**
EC 02 3041 ED N.A.
Publ. Date 60
135p.
Moed, Martin G., Coord.


EDRS not available

Institute For The Crippled And Disabled, 400 First Avenue, Corner 23rd Street, New York 10, New York.

Descriptors: physically handicapped; vocational rehabilitation; cerebral palsy; evaluation; employment problems; evaluation techniques; demonstration projects; community programs; vocational counseling; adults; research projects

A research and demonstration project studied procedures for evaluating the vocational potential of cerebral palsey adults. A special vocational evaluation unit established in 1955 at the Institute for the Crippled and Disabled, New York, utilized the work sample technique to assess vocational performance and predict job achievement. Job tasks included activities found in clerical, semi-skilled, unskilled and service occupations. Clients received a complete medical review, including occupational and physical therapy, psychological testing, psychiatric screening if indicated, and speech and hearing examinations during the seven-week evaluation. The manual discusses community organization and planning before the client enters evaluation, operational procedures, work samples, and evaluation as a diagnostic and therapeutic medium. Appendixes include evaluation forms, illustration of equipment adaptations, a list of equipment and tools, work sample test sheets, and evaluation criteria. Volume II of the project report presents follow-up studies, observations, bibliography related to the project, and recommendations. (LE)

**ABSTRACT 23043**
EC 02 3043 ED N.A.
Publ. Date 52
172p.
Froeschel, Emil

Dysarthric Speech (Speech in Cerebral Palsy).

EDRS not available

Expression Company, Publishers, Magnolia, Massachusetts.

Descriptors: speech handicapped; neurological defects; neurological organization; etiology; cerebral palsy; speech therapy; articulation (speech); voice disorders; motor reactions; dysarthric speech

In order to make the book useful to both laymen and scientists, technical aspects of dysarthric speech have been simplified. Introductory chapters treat brain and central nervous system function, especially as related to speech function and development. The etiology and symptomatics of dysarthrias are covered; dysarthric speech is described, including separate functions involved in breathing, voice, articulation, sign language and rhinolalia. Subsequent chapters are devoted to cerebral, which begins with voluntary muscle training, progresses to speech muscle training and, finally to speech training itself. A final chapter describes multiple handicaps, emphasizing cerebral palsy. (JB)

**ABSTRACT 23141**
EC 02 3141 ED N.A.
Publ. Date 58
326p.
Wolfe, William G.; Reid, L. Leon

A Survey of Cerebral Palsy in Texas. EDRS not available

United Cerebral Palsy Of Texas, 1010 Lavaca, Austin, Texas 78701.

Descriptors: exceptional child research; physically handicapped; state surveys; cerebral palsy; questionnaires, etiology; incidence; medical treatment; medical case histories; socioeconomic status; parent attitudes; occupations; skill development; literature reviews; bibliographies; Texas

Data were obtained on cerebral palsy persons living in Texas by a brief questionnaire completed by (or for) 3692 out of 5618 known cases, an 65.6% response rate. An extensive case history questionnaire or follow-up interview for 2408 cases, and a parental opinion questionnaire for 1753 cases. Results are reported and research literature is reviewed in these areas: prevalence and incidence, prevalence of types of cerebral palsy and degree of involvement, etiological factors, other medical factors, developmental patterns, education, medical treatment and care, occupations, family social status and value orientations, and opinions of parents. The procedure followed in locating cerebral palsey persons is detailed. Included are 111 tables and a 236 item bibliography. (LE)

**ABSTRACT 23188**
EC 02 3188 ED N.A.
Publ. Date 70
4p.
Herron, Carole Jane

Some Effects of Instrumental Music Training on Cerebral Palsey Children.

EDRS not available

Journal of Music Therapy; V7 N1 P55-8 Summer 1970

Descriptors: exceptional child research; physically handicapped; cerebral palsy; medical treatment; perceptual motor coordination; music education; musical instruments; Hohner Melodica

To examine the possibility of improving the muscular coordination of cerebral palsey children through instruction in a musical instrument, four cerebral palsey subjects (athetoid, spastic, and trem-or types, ages 9 to 11 years) were given individual lessons twice a week for 12 weeks. Evaluation was based on writings by the investigator, a panel of evaluative judges, and the Belwin Singing Achievement Test. Results showed improvement in muscular coordination and breath support ability. All of the pupils demonstrated a performance achievement varying according to the severity of muscular dysfunction and mental retardation. (RD)
Reports of the workshop on cerebral palsy treat medical aspects, psychological assessment and evaluation, the family, and the challenge of the accepted cerebral palsied. Also covered are education, vocational rehabilitation, and speech, physical, and occupational therapy. (JD)
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