

Monitoring of auditory and speech development of preschool children with combined hearing and visual impairment after cochlear implantation



Voronova Olga Vladimirovna

2nd year master's student

Belyaeva Olga Leonidovna

Candidate of Pedagogical Sciences,

Associate Professor

Deafblindness

- one of the most complex developmental disorder

- ▶ Domestic defectology:
 - ✓ Al'vin Valentinovich Apraushev,
 - ✓ Tat'yana Aleksandrovna Basilova,
 - ✓ Aleksandr Ivanovich Meshcheryakov,
 - ✓ Ivan Afanas'evich Sokolyansky,
 - ✓ Avgustina Viktorovna Yarmolenko ...
- ▶ People who have serious combined visual and hearing impairment;
- ▶ A qualitatively different human condition.

Classification of deafblindness

Dr. Jan van Dijk

- 1. Children with deafness and low vision and other partial visual impairment.
 - 2. Children with blindness and hearing loss to a different extent (hard of hearing).
 - 3. Children with partial hearing loss (hearing loss) and partial visual impairment.
 - 4. Children with deafness and blindness (totally deafblind).
- 1. Children with cochlear implants and low vision and other partial visual impairment.
 - 2. Children with blindness and cochlear implants.
 - 3. Children with cochlear implants and partial visual impairment.
 - 4. Children with cochlear implants deafness and blindness (totally deafblind).



Dual sensory impairment after cochlear implantation

- ▶ new opportunities for auditory and speech development after cochlear implantation
 - ▶ systematic monitoring of auditory and speech development
- 



Monitoring of auditory and speech development of preschool children with combined hearing and visual impairment after cochlear implantation

- ▶ The problem of the study is the lack of the assessment instrument of the auditory and speech development of preschoolers with dual sensory impairment after cochlear implantation.
- ▶ Object of research: monitoring of auditory and speech development of preschool children with combined hearing and vision impairment on the basis of new auditory capabilities after cochlear implantation.
- ▶ Subject: content and procedure of monitoring of auditory and speech development of preschoolers with combined visual and hearing disability after cochlear implantation.



Methods of auditory and speech development of children with hearing disorders by prof. I.V. Koroleva

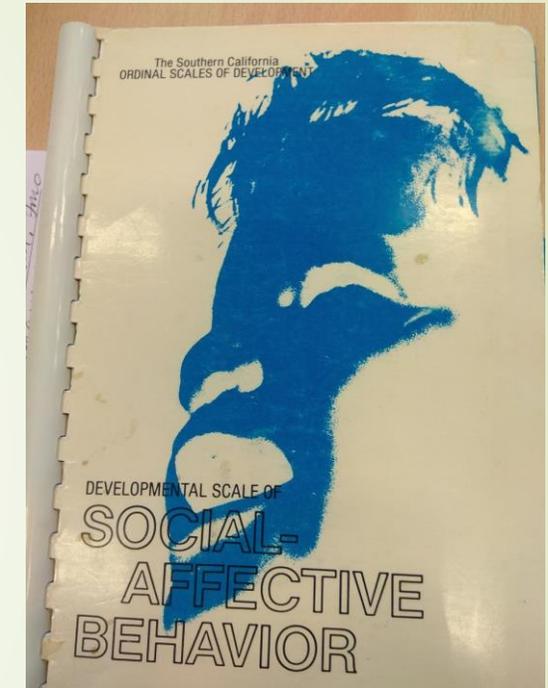
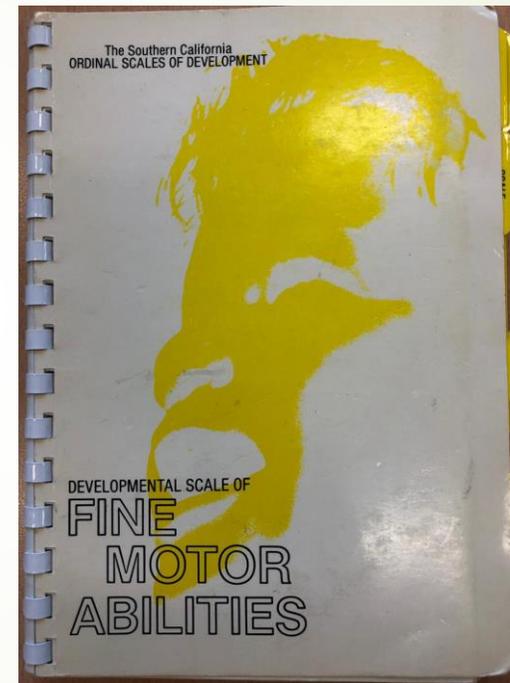
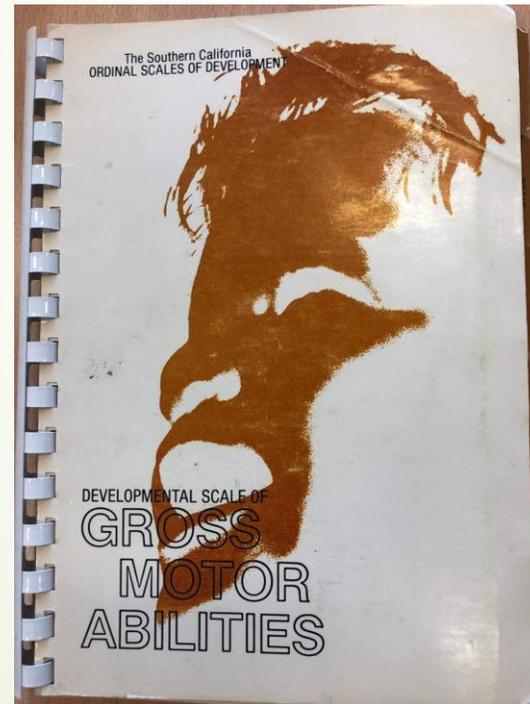
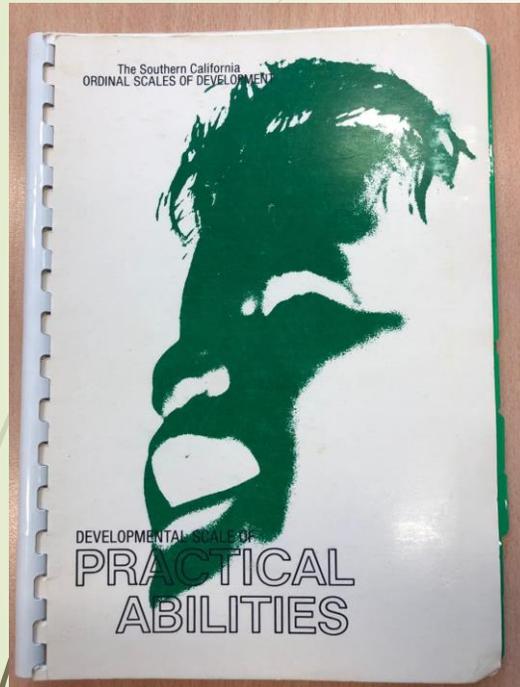
- a battery of tests "Evaluation of auditory responses on speech" (EARS);
- children aged 2-5 years;
- 7 tests (closed and open choice) and 2 questionnaires:
 - ✓ Detection - the ability to respond to the appearance or absence of sound.
 - ✓ Distinction - ability to determine difference or similarity between two sound signals (images).
 - ✓ Recognition - the ability to select (recognize) a certain sound signal among other known sound signals.
 - ✓ Identification - the ability to repeat or imitate spoken sounds, including speech.
 - ✓ Understanding - the ability to understand spoken language.

Adaptation of monitoring for cochlear implanted children with visual impairment on the basis of I. V. Koroleva's methodology:

- teaching/educational material;
- diagnostic procedure.



The Southern California Ordinal Scale of Development (SCOSD)





Characteristics

- Identification of interests in the process of monitoring the child in his natural environment

Taking into account his interests in the process of diagnosis;

- Flexibility in the choice of materials in accordance with the needs and characteristics of a particular child and his observed interests

Preparation of adapted teaching material for each individual child;

- Special educational needs, which may be expressed in restlessness, inability, reduced pace of activity, etc.

Increase the time limit for the test, or divide the test in two approaches (stages).



Preliminary stage

- detailed acquaintance with visual impairment;
- identifying opportunities and preferences of the child;
- tactile acquaintance with the proposed materials and illustrations.

Adaptation of educational material

- size 8.5*12
- dark green background screen
- color contrast
- relief surface
- outline selection

