



General Considerations in Working with Young Children with Visual Impairments

by Carla Brown

Active Engagement

As with all children, intervention approaches should focus on active participation of the child in all activities. Because children with visual impairments may not be able to learn by watching what is going on around them, they must learn "by doing" and interacting with their environment. Interventions should focus on the development of contingency awareness and the intrinsic motivation and drive of the very young infant and the development of the physical skills that are necessary for the child to move out and explore. Children with visual impairments should be given the opportunities to participate in all of the activities that they encounter. If a child cannot participate independently, explore ways that he can be assisted through the activity, allowing him to complete the steps that he can do independently

Active engagement can be:

- Playing social games ("so big", pat-a-cake, "gonna get you") and allowing the child to "tell" you that he wants to play again;
- Allowing a child to reach for a toy that is placed on his leg instead of putting it in his hand;
- Giving a child a choice of what toy he wants, what story he wants to hear or where to sit;
- Following predictable routines that allows a child to know what will happen next and allow him to initiate the next step;
- Showing and letting a child make his own sandwich; or,
- Providing stability at a child's shoulder so that he can scoop his food independently versus moving his hand for him.

Hands-on Interaction with Real Objects

In order to learn about the world, a child with visual impairments needs experience with real objects. Provide real objects if possible, especially when a child is learning a new concept. For example, use real fruit and vegetables instead of plastic ones.

Facilitating Functional and Meaningful Language

It is not meaningful to provide a non-stop verbal description of everything that is happening all of the time to most preschoolers. For the young child, it is most important to provide critical information that the child can understand and about what is happening at the moment.

To help facilitate meaningful language:

- Provide plenty of hands-on experiences using real objects, and all parts of the whole.
- Acknowledge and comment on child's expressive utterances.
- Imitate and expand on child's expressive utterances.
- Model and encourage appropriate responses.
- Describe the world and include demonstration and exploration with the description, fill in the gaps as necessary.
- Introduce change in the experiences and language you provide.
- Provide a variety of experiences.
- Use open-ended questions to keep conversation going.
- Make it fun!

Facilitating the Development of Sensory Skills

Young children who are visually impaired need play and intervention to help develop and use all of their senses.

Vision

Encourage children who have low vision to use their vision by controlling environmental conditions such as lighting and glare, color, contrast, size, etc. Allow the child to hold materials at whatever angle or distance that is best for them and encourage them to move close to you at story time or circle time. Choose toys that have lights, bright colors with contrast. If using pictures or books, select pictures that have colorful and simple pictures rather than pictures that are visually cluttered. Also, if using photographs, use matted finishes instead of glossy finishes to reduce glare.

Touch

Provide opportunities for exploring tactual components of relevant objects and promote discrimination of objects by touch. Provide toys that have a variety of textures, shapes, sizes, and weight. Look for toys that have many different ways to activate them such as pushing, pulling, sliding, pinching, etc.

Hearing

Provide experiences that focus on the auditory discrimination of people's voices and sounds related to activities. Encourage listening and the use of auditory clues to locate people or places. Provide toys that produce auditory feedback when manipulated, such as musical instruments and cause-and-effect toys.

Sensory "match"

Each child is individual in their needs for sensory input. Besides being aware of the sensory components of materials and activities, remember that you are also a source of sensory stimuli and may need to adjust your behavior according to the child's individual needs.

Facilitating the Development of Movement

Movement can be encouraged early. Independent movement is crucial in having the child with visual impairments explore and learn about the world.

To help facilitate motor development and movement:

- The parent or caregiver can carry the young infant in an over-the-shoulder sling. This provides not only a safe and comfortable place for the child but allows the child to experience different movements in different planes.
- Provide the infant with opportunities to experience different active positions. Many infants with visual impairments demonstrate low postural and a paucity of movement due to lack of head movement. Infants with visual impairment are sometimes happy to stay on their back and need encouragement and experience with other positions actively. For older children, allow children to be in a variety of positions instead of seated in a chair at a table. Include side sitting, on their stomach on the floor, kneeling at different size tables, etc.
- Present and position materials to encourage upright head posture. Make sure the tables and chairs are the right height, work on slanted surfaces or easels, or work with materials on the wall, pegboard, or chalkboard.
- Provide movement activities that enhance the child's protective and equilibrium responses.
- Don't always position yourself or materials at midline but allow the child to orient and reach in different directions to encourage weight-shift and trunk rotation.
- When a child is learning to walk, you can begin by having him push a heavy cart or push toy. Allow your child to be barefoot when appropriate so that he can get additional information about his surroundings.
- Allow the child to move and explore the environment. Spaces can be defined to provide for safety and boundaries for exploration.

Facilitating Hand-Use

Children who are visually impaired and blind rely on their hands to learn about their world. It is important to enhance fine motor development, helping a child learn to use his hands. This includes playing with toys as well as getting information about objects, textures, people, sizes, letters, and eventually, learning to read and write print or braille.

To promote the development of hand-use:

- Encourage the infant to hold his bottle to promote midline orientation of the hands. A bottle with handles may be helpful at first. A high-contrast patterned cover on the infant's bottle may help a child with low vision to visually attend to the bottle.
- Play with the infant in positions that reinforce hand-to-hand, hand-to-knee, and hand-to-feet contact.
- Provide toys and materials that have a variety of textures, shapes, sizes, and weight.
- Provide toys and materials that have many different ways to be activated such as pinching, pulling, pushing, sliding, etc. and help the child to use a variety of hand and arm movements (rotating at forearm, poking with index finger, resistive play, etc.)
- Play and provide materials that provide firm input into the hands (squeezing playdoh or putty, play in water or beans, pulling on elastic bands, etc.)
- Provide opportunities for "messy" play. You may need to start with something like finding toys in a bowl of beans to playing with something "gooier".
- Allow the child time to get familiar with new toys. Sometimes it is helpful for the child to "discover" the toy on its own.
- Have toys and materials in a consistent location and accessible to the child.

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- Warren, D. (1994). *Blindness and children: An individual differences approach*. New York: Cambridge University Press.
- www.tsbvi.edu

Additional resources can be found at:

- www.familyconnect.org
www.perkinslearning.org
www.teachingvisuallyimpaired.com
www.tsbvi.edu

Questions? Contact Partners for Pediatric Vision at 323-612-8185 or info@partnersforpediatricvision.org