**LITERACY MEDIA DECISIONS FOR STUDENTS WITH VISUAL IMPAIRMENTS**

**A Position Paper of the**

**Association for Education and Rehabilitation of the Blind and Visually Impaired**

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**Position**

Students with visual impairments, including those with multiple disabilities, are entitled to high-quality educational literacy programming. Decisions for determining appropriate literacy instruction must be based on data gathered through comprehensive and ongoing assessment of the learning medium or media, information from qualified professionals and the Individualized Education Program (IEP) team, including parents, and consideration of the use of a variety of assistive technologies, appropriate accommodations, and evidence-based teaching strategies.

**Overview**

This paper provides guidelines related to literacy media selection and instruction for students with visual impairments who are blind and those who have low vision, including those with additional disabilities, and will be progressing through a literacy program, either emergent, traditional or functional (Holbrook, 2009). The focus of this paper is on “conventional literacy,” defined as making meaning out of reading and writing (Koenig & Holbrook, 2000). The importance of reading and writing skills is underscored in the current regulations of the No Child Left Behind (NCLB) Act of 2001 (2002).

Based on current regulations from the Individuals with Disabilities Education Improvement Act (IDEIA) (2004) related to the provision of accommodations, including literacy instruction, for children who are visually impaired, three possible options for “conventional literacy” instruction are described below. Each option should be considered depending on individually assessed needs.

Note: The first option (I) is identical to the wording regarding the provision of braille in IDEIA (§300.324(2)(iii); the second and third options (II and III) are modeled after the braille-specific wording in IDEIA, but encompass other literacy media or combinations of media.

1. *Instruction in braille* and the use of braille unless the IEP Team determines, after an evaluation of the student's reading and writing skills, needs, and appropriate reading and writing media (including an evaluation of the student's future needs for instruction in braille or the use of braille), that instruction in braille or the use of braille is not appropriate for the child; or
2. *Instruction in print* with or without optical and/or electronic devices after a clinical low vision evaluation of the student’s potential for using vision to access appropriate general education reading and writing materials at near and at a distance; or
3. *Instruction in both braille and print* (known as dual media) with or without prescribed optical and/or electronic devices, after evaluations described above in (I) and (II), and combining the instructional approaches defined above in (I) and (II).

**Key Points**

1. Decisions for determining literacy medium or media are based on a *variety of assessment approaches and sources* conducted *by qualified professionals*. The primary evaluation designed to collect and report data that will assist the IEP team members in making decisions regarding the literacy and instructional media is the learning media assessment (LMA). The LMA is an unbiased, ongoing assessment protocol conducted by the teacher of students with visual impairments (TVI) (Koenig & Holbrook, 1995). The LMA includes data from the following (listed in order of preferred administration):
	1. A *recent eye exam* from an ophthalmologist or optometrist, with information on the student’s ocular health, standard correction, treatments, and visual prognosis. The student should be followed by the eye care provider, with appropriate reassessment for changes in visual function over time.
	2. For a student with functional vision, a *clinical low vision evaluation* (CLVE), conducted by a low vision specialist (i.e., an ophthalmologist or optometrist experienced in working with persons who have low vision), with recommendations for optical devices, electronic devices, non-optical tools, and/or strategies to enhance the use of vision. Any optical or electronic low vision device is classified as an assistive technology device.
	3. A *functional vision assessment* (FVA), conducted by the TVI, which provides information on the use of the student’s vision within natural environments engaging in a variety of visual tasks (Wilkinson, 2010).
	4. An *assistive technology (AT) assessment*, conducted by team members with expertise in the use of AT for students with visual impairment, to determine the appropriateness of additional AT devices and services not addressed by the CLVE.
	5. Any other assessments or documentation that provide relevant information on the student’s current level of performance (e.g., reports or other information from a parent, classroom teacher/general education reading teacher, physical therapist, occupational therapist, school psychologist, reading specialist, speech pathologist, or other medical or educational professional).

Under IDEIA, medical services, such as an initial eye exam or CLVE, are related services and may be necessary for diagnostic or evaluation purposes §300.34. During the LMA assessment, the student should be allowed to use any prescribed optical or non-optical devices. If reading large print (with or without a prescribed optical aid), the child should be allowed to use the print format that is most appropriate at the preferred working distance based on data from the above sources and informed by research in the field of low vision (e.g., Lueck, Bailey, Greer, Tuan, Bailey, & Dornbusch, 2003).

1. A variety of sensory factors (visual, tactual, kinesthetic, proprioceptive, and auditory), as well as cognitive abilities, may have a direct impact on the acquisition of literacy skills (whether print or braille), and therefore, must be considered (Lusk & Corn, 2006a; 2006b). Possible factors include reading stamina, reading speed and comprehension, writing speed, prognosis of the visual impairment, hand strength and dexterity, increased level and intensity of literacy materials, and progression of the acquisition of literacy skills.
2. Literacy skill development often involves the use of various literacy tools and technologies. Time must be devoted to *instruction and practice* with any prescribed optical, electronic, or braille device, or any other assistive technology to be used while reading and writing, as the skills needed to use these technologies are not necessarily intuitive (Corn, Wall, & Bell, 2000; Corn et al., 2002; Koenig & Holbrook, 2000). The IEP team members, including parents, must decide the amount of time devoted to braille and/or print instruction (e.g. duration, frequency, and intensity) based on the individual needs of the student (Corn & Koenig, 2002; Koenig & Holbrook, 2000). Without appropriate instruction, students with visual impairment may be at risk for becoming low performing students and may require intensive support from the IEP team to improve literacy skills. Any difficulties in the area of literacy should be addressed as early as possible to narrow the academic achievement gap. Furthermore, the role and responsibility of the TVI is to keep abreast of emerging technologies and assess their potential use for students with visual impairments.
3. Instruction in the use of accommodations cannot be taught in isolation from literacy (Wall Emerson, Holbrook, & D’Andrea 2009; Wall Emerson, Sitar, Erin, Wormsley, & Herlich, 2009). Thus, evidence-based instructional curricula and strategies, literacy-based and/or those specific to the field of visual impairment, must be taught in conjunction with the use of accommodations and/or assistive technologies. Collaboration between general and special educators, including the TVI, is needed to effectively incorporate the use of accommodations into literacy programming.
4. After initial identification of literacy medium or media, ongoing assessment is key to monitoring the successes and needs of students with visual impairments.
	1. It is recommended that LMA, FVA, and AT assessment data be reported annually to the IEP team, including family members, (Holbrook, 2009) and that these assessments be conducted every three years, unless the IEP determines that an assessment needs to be conducted before the three year IEP review or that an assessment is not necessary.
	2. Students with visual impairments should follow the individualized medical plan established by the ophthalmologist and/or optometrist. The general eye care exam and/or clinical low vision reevaluation is necessary when there is a change in the student’s vision, an educational transition is anticipated or occurs, or there is an observed concern related to visual functioning that suggests the need for further evaluation (Wilkinson, 2010).
	3. Ongoing assessment, incorporating summative, formal data (e.g., basic reading inventories, evidence-based literacy curricula), as well as ongoing, informal reading assessments (e.g., periodic timed readings, curriculum-based assessment, observations, and diagnostic teaching) ensure consistent monitoring of a student’s academic progress (Heinze, 2000; Layton, 2000).To mitigate the possibility of literacy-related gaps, students should be assessed on multiple literacy skills (e.g., phonemic awareness, phonics, fluency, vocabulary, comprehension, writing mechanics, handwriting), particularly in the early years. For students struggling academically, Response to Intervention (RTI) strategies may be employed to adjust instructional interventions to meet individual student needs (Kamei-Hannan, Holbrook, & Ricci, 2012).

**Recommendations for Practice**

A variety of assessments from a wide range of medical and educational professionals is needed to fully assess students with visual impairments and provide individualized “conventional literacy” programming. Beyond determining if the student requires braille, print, or a combination of print and braille, there are additional factors that must be continually evaluated. Information on how these factors impact the acquisition of literacy skills must be recorded and charted to determine the rate of progress, or a lack thereof. TVIs also need to address new technologies and instructional methods as they emerge to ensure that future changes or additions to students’ literacy programming are individualized and data-based.

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