Multiple Disabilities Among Students with Visual Impairments

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Introduction
What is visual impairment? Most people believe that person with visual impairment is a blind person. In reality, people who are considered visually impaired are those not only blind but they may also be those who have some useable vision. They also maybe those who may have some visual perception of light and dark. Visual impairments may often due to loss of visual acuity or visual field. According to Resnikoff et al. (2004), visual impairment encompasses of low vision with visual acuity of less than 6/18, but equal or better than 3/60, and blindness of which visual acuity is less than 3/60.

The loss of vision will makes difficulty for students to complete daily tasks without specialized adaptations. As stated by Layton and Lock (2001), the educational performance of a child who is visual impaired would be affected even with correction. Most children with visual impairments need some extra help to succeed in school. This is because of the challenges that visual impairment (and sometimes additional disabilities) pose to learning. These students are placed in either the special schools or in the integration programmes are those who are partially sighted and totally blind (Mohd. Salleh et al. 2004). In the section that follows, this paper will briefly discuss the special education programme in Malaysia that caters for students who have visual impairment. This is followed by the discussions on multiple disabilities among people who are visually impaired and causes for such disabilities. Lastly, the implication of these multiple disabilities on the education of these students will be highlighted.
Special Education Program for Visually Impaired Students in Malaysia

Services for children with special educational needs in Malaysia are provided from four different ministries, namely Ministry of Education, Ministry of Health, Ministry of Women, Family and Community Development (particularly Social Welfare Department), and the Ministry of Higher Learning. In addition, non-governmental agencies also play an important role in providing services for children with special educational needs.

The Ministry of Education caters for the educational needs of children with hearing impairments; visual impairments; and learning disabilities. Students with visual impairments are placed in the special schools for the visually impaired and as well as in the integration programmes in the mainstream schools. At present, there are 6 special schools for the primary level and 2 for the secondary level. The integration programmes for the visually impaired are run in 9 primary schools and 14 secondary schools. In total, there are 823 students with visual impairments (Ministry of Education, 2004).

Although the Ministry of Education are responsible for providing educational services for children with mono disability, there are also those who have more than one disabilities present in the school system. Mat Akib (2004) explains that these situations may due to the ministry’s mono disability policy which explains why those involved in the disability certifying process as reluctant to acknowledge the other disabilities that children with sensory impairments may have. As a result, these children with additional disabilities may be being diagnosed as children with mono sensory disability. A possible explanation is given by Erin and Koenig (1997) who explain that it is easy to detect visual disability as it “seems easier to define, comprehend, and treat; therefore, it may be the only disability diagnosed, when in truth both conditions or a learning disability only are present”. Erin and Koenig further explain that learning disabilities are often overlooked in students with visual impairments due to the following factors:

1. visual impairments are usually detected early in life, whereas learning disabilities usually become apparent in the elementary grades;

2. learning difficulties are sometimes mistakenly attributed to subnormal visual functioning;

3. a visual disability is more easily observed than is a learning disability;

4. atypical learning patterns can easily be overlooked;

5. the physiological nature of low vision may be more readily acceptable than the more obscure label of a learning disability and, therefore, a more acceptable explanation for low grades or failure in school.
With regards to students having more than one disability in the school system, Mat Akib (2004) provides the combination of disabilities (see Table 1) that children with multiple disabilities who are in the special schools may have.

Table 1: The Type Of Combination Of Disabilities In Children With Multiple Disabilities In Special Schools.

<table>
<thead>
<tr>
<th>Type Of Sensory Disability</th>
<th>Additional Impairments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual impairment</td>
<td>Hearing impairment</td>
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<tr>
<td></td>
<td>Learning disabilities</td>
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<td>Physical disability</td>
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<td></td>
<td>Other disabilities/disorders</td>
</tr>
<tr>
<td>Hearing impairment</td>
<td>Visual impairment</td>
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<td>Other disabilities/disorders</td>
</tr>
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(Mat Akib, 2004)

The existence of more than one disability may results in children with multiple disabilities having difficulty to access to the national curriculum used in either the special schools or the integration programmes. In addition, the multiple disabilities may contribute to behavioral problems which is caused by differences in the learning patterns. As described by Erin (1996), the uniqueness of each child with multiple disabilities may result to differences in responses by those interacting with them. In many ways, the different temperaments and set of experiences that these children have making it almost possible to predict how much they learn. Therefore, in the school setting, most teachers modify the existing curriculum to accommodate the different learning patterns. The following section provides a general description of multiple disabilities.

**Multiple Disabilities: A General Description.**

Generally, a person with multiple disabilities refers to someone who have two or more disabilities. Similarly, Raynolds and Fletches – Janzen (2000) describe persons with “multiple handicapping conditions are persons with two or more disabilities that result in handicaps within functional living experiences”. They may have concomitant impairments like mental retardation and blindness that requires special education
programme that could accommodate for the different disabilities they are having. The combination of various disabilities may include hearing impairments, visual impairments, mental retardation, learning disabilities, speech, physical impairments and many more. In addition, behavior and social problems may also be evident alongside the multiple disabilities that one is experiencing. Batshaw (2002) reports that “the incidence of blindness in children with multiple disabilities is more than two-hundred times that found in the general population; one-third of children with partial sight and two-thirds of children with blindness have other developmental disabilities”.

Although there are differences in characteristics of persons with multiple disabilities due to the different combination of disabilities and the severity of these disabilities, there are common characteristics which these persons may exhibit. Shukla and Kamal Mishra (2005) describe such characteristics include having:

- limited speech or communication;
- difficulty in basic physical mobility;
- tendency to forget skills through disuse;
- trouble generalizing skills from one situation to another; and/or
- a need for support in major life activities (e.g., domestic, leisure, community use, vocational).

In many cases, persons with multiple disabilities may have sensory, neurological and/or psychological problems. Rogow (2005) explains that the “multiple effects of combined visual and movement impairments impose many obstacles on a child’s ability to explore and interact with the social and physical environment”.

**Causes of Visual Impairment and Other Disabilities**
The causes of visual disabilities are numerous and varied. They may be the result of syndromes, inherited eye conditions, pre-natal or post natal factors. A visual impairment may be present at birth, or it may develop during infancy or childhood. Some visual impairments get worse over time, some stay about the same, and few may even get better. There are many ways that vision can be impaired, one or more parts of the visual system may be damaged or may malfunction. In general, visual impairments are due to one of three broad causes (Stiles & Knox, 1996):

- structural impairment, or damage to one or more parts of the eye;
- refractive errors, or an inability of the eye to sharply focus images on the back of retina; or
- cortical visual impairments, which are due to damage to the part of the brain that interprets visual information.
Any of the visual conditions can occur with or without additional disabilities. Several visual conditions, however, almost always occur with another disability. Such conditions are:

*Cortical Visual Impairment*
A high proportion of children with cortical vision impairment also have additional disabilities with varying degrees of severity which, interact with each other (Sacks, 1998; Groenveld et al., 1990). The following conditions are frequently associated with cortical vision impairment:
1. cerebral Palsy
2. intellectual disability
3. hydrocephalus
4. microcephaly (Hughes 1995).

According to Moore (1995), infants and children with cortical vision impairment are delayed to a greater or lesser degree in reaching developmental milestones and in all sensory-motor activities and social development. Direct intervention and stimulation at an early age and support for caregivers is essential particularly in the early years. Moore reports that 70% of children who have cortical vision impairment or who are blind have some degree of intellectual disability and/or other disabilities.

*Optic Nerve Atrophy and Optic Nerve Hypoplasia*
These conditions affect the optic nerve, the bundle of fibers that transmits signal from the retina to the brain. In optic nerve atrophy, the optic nerve has been damaged in some way; in optic nerve hypoplasia the nerve has not developed. This may mean that the child may have some vision or may be blind, depending on how much of the optic is intact. The child also may have other disabilities such as cerebral palsy or growth problems, since the optic nerve is located close to the pituitary gland.

*Usher’s Syndrome*
Usher's Syndrome is a genetic problem which accounts for about 50% of all people diagnosed as deafblind; usable vision, hearing, or both (Batshaw, 2002). The first symptom of Usher's Syndrome to be diagnosed is usually a problem with hearing.

*Educational Implications of Children with Multiple Disabilities*
Rogow (2005) stresses on the increasing recognition of the education of children with visual impairments combined with other disabilities as one of the most compelling and challenging aspects of special education. In order to provide educational opportunities
for these children, a number of measures can be taken into consideration. These include:

- having appropriate policy for including children with multiple disabilities in either special schools (for the mono disability) and in the mainstream schools.

- developing effective educational programmes and teaching strategies specifically for children with vision impairment with multiple disabilities.

- including a variety of components with functional objectives into the educational programmes to enable for increased skills and independence in dealing with the daily routine of the children's life.

- allowing opportunities for integration to take place effectively. This would be of benefit to both the children with no known disabilities and those with multiple disabilities. Examples of such benefits are opportunities to develop their social skills and positive attitude change.

- increasing teachers skills and knowledge on multiple disabilities. In most cases, special education teachers are trained to teach a single category of disability which creates limited knowledge and skills to handle children with multiple disabilities.

- providing suitable and disable friendly infrastructure in schools to ensure children with multiple disabilities can be accommodated in these schools.

**Conclusion:**
The possibilities of a person who is visually impaired having more than one disability may be due to the different factors including pre and post natal factors, inherited eye conditions and factors resulted to syndromes. Such complexities of human growth and development poses new challenges for the educational authorities like the Ministry of Education to provide appropriate human resource (in this case, teachers and teacher aides), support system and adequate teacher training. There is a call to all sectors involved to ensure maximum cooperation and collaborative efforts to take place effectively in order to provide meaningful educational opportunities to children with multiple disabilities.

**References:**


