Assessment of knowledge level on learning disability among primary school teachers

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INTRODUCTION

Learning disability is a general term that refers to a heterogeneous group of disorders manifested by significant difficulties in the acquisition and use of listening, speaking, reading, writing, reasoning or mathematical abilities. These disorders are intrinsic to the individual presumed to be due to central nervous system dysfunction and may occur across the life span. Problems in self-regulatory behaviours, social perception and social interaction may exist with learning disabilities but do not by themselves constitute a learning disability.¹ The term learning disability (LD) was first coined in 1963 by Dr. Samuel Kirk, a psychologist while delivering a speech at an education conference held in Chicago.² He had worked extensively with many students who were repeatedly failing in their examinations but were clearly not retarded. He observed that these so-called scholastically backward students could be helped by specific methods of teaching.³

ABSTRACT

Background: Learning disability (LD) is one of the major causes of poor scholastic backwardness. Undetected and unmanaged specific LDs result in chronic scholastic backwardness ensuing school dropouts, emotional and behavioral problems such as depression, substance abuse and social delinquency. Since teachers are the ones who first encounter academic difficulties of children, their knowledge and training on LD is of utmost importance in identifying it at an initial stage and to prevent further mental and social damage. This study is to assess the knowledge level of primary school teachers on learning disability.

Methods: This cross-sectional study was conducted among government primary school teachers of Malappuram district, Kerala from April 16, 2018 to May 20, 2018. Convenient sampling method was adopted. The study sample consisted of 709 primary school teachers from 21 schools in Malappuram district of Kerala and the teacher’s knowledge level on learning disability was assessed using a questionnaire.

Results: Even though majority of the teachers had some knowledge about the outcome and treatment of learning disability, they lack sufficient knowledge about its concepts and causes and it is grossly insufficient for its practical application in the classroom.

Conclusions: There is a need to improve the knowledge of primary school teachers on LD and to enhance their basic skills in recognizing learning disability at the earliest. This is very important for the management of these children by introducing and applying the appropriate remedial measures on time. This can go a long way in improving the quality of learning among children with poor scholastic performance.

Keywords: Knowledge, Learning disability, Scholastic backwardness
Poor school performance or scholastic backwardness is estimated to affect one in every five school children in India.\(^4\)

Specific learning disabilities are recognized as an important cause for the scholastic backwardness even though many other reasons such as below average intelligence, vision and hearing impairment, chronic medical and mental disorders, emotional problems and poor socio-cultural environments are suggested.\(^5\)

Undetected and unmanaged specific learning disability results in chronic scholastic backwardness ensue school drop outs, emotional and behavioural problems such as depression, substance abuse and social delinquency.\(^4,10\)

In this context, it is imperative to acknowledge what the teacher thinks about the causes, reasons and consequences of learning disorders, that will enable the analysis of his/her point of view about this problem.

**METHODS**

This cross-sectional study was conducted among government primary school teachers of Malappuram district, Kerala from April 16, 2018 to May 20, 2018, along with the training session given to them as a part of IAP State President's Action Plan “VIBGYOR”. Convenient sampling method was adopted. The study sample consisted of 709 primary school teachers. Permission to collect data was taken from the relevant Block resource centres (BRC) of Malapuram district.

**Inclusion criteria**

- All teachers who were attending the training program.

**Exclusion criteria**

- Teachers who have already attended BRC training classes on learning disability.

Basic level of knowledge among the teachers were assessed using a questionnaire.

**Statistical analysis**

Statistical analysis was done using excel entry and SPSS trial version 22.

**RESULTS**

Out of the study population 56% were females and the males were 44% (Figure 1).

Table 1 describes the knowledge about the causes of LD. Among the study population 278 (39.2%) have no knowledge about any causes of poor scholastic performance. 42% of them answered one cause for scholastic backwardness in children, 14% of the study group correctly mentioned two causes of it.

Table 2 analyses the awareness of the group regarding the relation between LD and intellectual disability. Out of the 709 participants, 596 (84.1%) correctly mentioned that learning disability is not due to intellectual disability. It is very important to understand this concept since most of the time these children are labelled as having low IQ (intelligence quotient).

Table 3: Is LD treatable or not?

| q3 | Frequency | Percent |
|----|-----------|---------|
| 0  | 175       | 24.7    |
| 1  | 534       | 75.3    |
| Total | 709 | 100 |

Three forth of the study population correctly stated that learning disability is treatable. This is very significant since LD is completely curable if detected early and managed promptly (Table 3).

**Figure 1: Gender distribution.**

Only 2% of the study population could answer five causes of scholastic backwardness in school going children.

**Table 1: Major causes of learning disability.**

| q1 | Frequency | Percent |
|----|-----------|---------|
| 0  | 278       | 39.2    |
| 1  | 298       | 42      |
| 2  | 100       | 14.1    |
| 3  | 26        | 3.7     |
| 4  | 5         | 0.7     |
| 5  | 2         | 0.3     |
| Total | 709 | 100 |

**Table 2: Is there a relation between LD and intellectual disability?**

| q2 | Frequency | Percent |
|----|-----------|---------|
| 0  | 113       | 15.9    |
| 1  | 596       | 84.1    |
| Total | 709 | 100 |
Table 4 evaluates the idea about the possibility of higher education in children with LD. A significant number of the participants (86.7%) believed that children with learning disability could enroll for higher studies.

| q4 | Frequency | Percent |
|----|-----------|---------|
| 0  | 94        | 13.3    |
| 1  | 615       | 86.7    |
| Total | 709     | 100     |

Only 7.3% of the participants were able to answer that dyslexia was the most common learning disorder. It is important for the teacher to understand the common causes of LD and its significance (Table 5).

| q5 | Frequency | Percent |
|----|-----------|---------|
| 0  | 657       | 92.7    |
| 1  | 52        | 7.3     |
| Total | 709     | 100     |

A decisive majority (78.7%) of the respondents felt that students with learning disability did not need “special schools” for education. The basic idea that LD children don’t need special schools but require special attention has got a significant impact in the way teachers evaluate and train them (Table 6).

| q6 | Frequency | Percent |
|----|-----------|---------|
| 0  | 151       | 21.3    |
| 1  | 558       | 78.7    |
| Total | 709     | 100     |

Out of the 709 participants, 505 (71.2%) teachers correctly believed that LD was not caused due to impairment in communication skills (Table 7).

| q7 | Frequency | Percent |
|----|-----------|---------|
| 0  | 204       | 28.8    |
| 1  | 505       | 71.2    |
| Total | 709     | 100     |

More than half of the participants (57.1%) correctly answered that attention deficit hyperactivity (ADHD) disorder was more common among children with LD.

So, teachers need to look for this problem in children with LD and take appropriate steps to get an optimal outcome (Table 8).
DISCUSSION

The study revealed that even though primary school teachers have some knowledge about learning disabilities it is grossly insufficient for its practical application in the class room.

Similar findings were reported by earlier researchers (Gandhimathi and Eljo; Adebowale and Moye).11,12 In other countries, various studies on the subject found that teachers had low to moderate knowledge and awareness about learning disabilities (Khatib; Saludes and Dante; Adebowale and Moye).13-15

Few Indian studies have revealed that the teachers had an average level of knowledge about specific learning disabilities, irrespective of their gender and teaching experience (Kamala and Ramganesh; Lingeswaran).16,17

Furthermore, the teachers’ age, years of teaching experience and the nature of the school were not related to knowledge and awareness about learning disabilities among them (Sarojini; Gandhimathi and Eljo).11,18

However, teachers with higher education qualifications exhibited better awareness (Dharmaraj).19

Since teachers are the ones who first encounter academic difficulties of children, their knowledge and training on LD is of utmost importance in identifying it at an initial stage. It can prevent the incidence of further mental and social damage by giving them proper remedial education.

The challenge of achieving full educational and social integration of children with difficulties within the society can be easily achieved if the teachers possess better knowledge about disabilities, attitude towards children with disabilities and competencies to handle the children. Such knowledge and understanding will enable them to develop positive attitude towards children with disabilities which in turn leads to acquiring or developing better competencies to handle the children.20-22

In general, primary school teachers usually have very little knowledge about learning difficulties. This could be due to the lack of teacher training programs for understanding the challenges faced by children with particular disabilities. Also, teachers usually don’t undertake any further training that focuses on the effective ways to teach children with learning difficulties. Moreover, educational authorities do not provide ongoing in-service training for teachers about teaching learners with special needs.11,23

CONCLUSION

Present study showed the need for intensive training of primary school teachers on LD and the importance of incorporating it in the professional teacher’s education curriculum so as to ensure identification and management of children with learning disability at an early stage.

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