Emotional Intelligence among Hearing Impaired Children

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A B S T R A C T

Emotional intelligence is knowing and managing of personal emotions, sympathizing with others and manipulation of communications in order to be satisfied with them. Thus the study was conducted with an objective to assess the emotional intelligence and factors influencing emotional intelligence of hearing impaired children. Sample consisted of 84 school children selected from 8th, 9th, and 10th standard from residential deaf and dumb schools of Dharwad, Sirsi and Belagavi district during the year 2018-19. Bar-On emotional intelligence (youth version) and socio-economic (SES) scale were used for the study. Modified chi-square, t-test and ANOVA were used to analyze the data. The results of the present study revealed that, majority (78.6 %) of hearing impaired children had low and 21.40 per cent had moderate level of emotional intelligence. There was a significant influence of age, ordinal position and socio-economic status on emotional intelligence of hearing impaired children. However there was no significant difference between boys and girls regard to emotional intelligence.

K e y w o r d s

Emotional intelligence, hearing impaired children.

Introduction

Disability of a person may be permanent or for some period of time and becomes more pertinent when it refers to a special group of population where individual suffers from long-term functional loss either by birth or due to certain other happenings in life. Effects of deafness on children always have social and emotional reflections and it is a stressful experience for parents. Since deaf or hard of hearing person often retard verbal communication with other members of family, could stay in retreat and have not desirable social growth (Hintermair, 2006). In India, 63 million people (6.30 %) suffer from significant auditory loss. Four in every 1000 children suffer from severe to profound
hearing loss and also every year over 100,000 babies are born with hearing deficiency. The estimated prevalence of adult-onset deafness in India was found to be 7.60 per cent and childhood onset deafness to be two per cent (Varshney, 2016).

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The effects of hearing loss are not easy to identify and it may vary from general to specific difficulties like language, social, emotional and educational problems. Based on Goleman’s theory (1995) emotional intelligence includes knowing and managing of personal emotions, sympathizing with others and manipulation of communications in order to be satisfied with them. Emotional intelligence considered as a general structure that could be the cause of the success of persons in various aspects of life. Goleman believed that persons who has higher emotional intelligence, has more ability in acquiring information and their life is more meaningful. The emotional intelligence is a good predictor of the person’s success in his practical life rather than the whole intelligence which is only a good predictor for the individual’s academic success. The people who are highly emotional intelligent are too close to achieve success in their life. The emotional intelligence helps in constructing the individual’s personality to be more successful and enjoyable (Al-Hadidi, 2013). Bar-on believed that emotional intelligence is a collection of abilities and skills that mobilizes person for consistency with environment and success. Children with hearing problem have a high risk for behavioural problems, emotional distress and have lower academic achievement compared to typical childhood. In addition, they tend to have low emotional intelligence because of inability to speak or express his or her emotions to their parents and others.

Accordingly, the objective of the study was to assess the emotional intelligence and to know the influence of selected factors on emotional intelligence of hearing impaired children studying in residential deaf and dumb schools.

Materials and Methods

The target populations of the study comprised of hearing impaired children and were selected from deaf and dumb schools of Sirsi, Belagavi and Dharwad areas of Karnataka, India. Sample comprised of 84 hearing impaired children both boys and girls in the age range of 13 to 17 years, who were studying in 8th, 9th and 10th standards.

A correlation research design was used to know the relationship and association of emotional intelligence with selected variables. Block education office and principle of respective schools were contacted and permission was taken to carry out the research work. A class wise list of hearing impaired children studying in 8th, 9th and 10th was made
and respondents were explained all questions in sign language with the help of class teachers. The structured interview schedule was used to collect personal information such as name, age, gender, education, composition of family, type of family and ordinal position of the child.

The socio-economic status of the family was assessed by using SES scale developed by Aggarwal et al., (2005). Bar-On Emotional quotient inventory- youth version developed by Bar-On and Parker (2000) was used to assess the emotional intelligence.

It is a self-report rating scale designed to measure emotional intelligence of individuals aged between 7 to 18 years. The scale consists of 60 items with four point likert-style from “very seldom true of me”, to “very often true of me”. Scale has six sub scales namely, intrapersonal, interpersonal, adaptability, stress management, general mood and total emotional intelligence.

Descriptive and inferential statistics such as chi-square, t-test and one-way ANOVA were employed to know the emotional intelligence of hearing impaired children and associated factors.

**Results and Discussion**

Table 1 showed the emotional intelligence of hearing impaired children by degree of hearing loss where 38.90 per cent children had low emotional intelligence and 36.40 per cent had moderate level of emotional intelligence and none of them belonged to low level of emotional intelligence among severe category.

Among profound category it was found that 63.60 per cent had moderate and 61.10 per cent had low emotional intelligence with the mean score of $83.43 \pm 10.74$.

There was no significant difference between severe and profound group of hearing impaired children on their level of emotional intelligence. The reason could be that both severe and profound group of hearing impaired children belonged to 70 to more than 90 dB range of hearing loss which hindering their communication, inter and intrapersonal relationship with their peers might lowered their emotional intelligence.

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The figure 1 indicated the percentage distribution of dimension wise emotional intelligence of hearing impaired children. Majority of hearing impaired children were low on interpersonal (53.57%), stress management (51.19%), adaptability (83.33%) and moderate intrapersonal (78.57%) dimensions of emotional intelligence.

An examination of Table 2 the association of emotional intelligence of hearing impaired children by age showed that 65.50 per cent of children ranged from 13- 14 years, 15- 16 years (90.0 %) and 17 -18 years (77.30 %) fell under low level of emotional intelligence.

It was found that there was a significant association ($\chi^2 = 5.94$) between age and emotional intelligence of hearing impaired children but there was no significant difference found between age groups. Bar-On (2006) assert that difference in the emotional intelligence by age is small in magnitude, however, his notion supports that as one becomes older, one becomes more socially and emotionally intelligence.

The findings are consistent with study done by Uma and Uma (2005) and Nasir and Iqbal (2011) who found significant association between age and emotional intelligence. Tables 3 indicated the association of emotional intelligence of hearing impaired children by gender.
The results found that majority of male (79.50%) and female (77.50%) had low level of emotional intelligence. However there was no significant association and difference found between male and female (t=0.98) hearing impaired children. The reason could be that both boys and girls are staying in residential deaf and dumb schools and equally availed boarding, lodging and educational facilities from 8th std to 10th standard irrespective of gender. The findings are consistent with Yuan et al., (2011) and Yasin (2012) who stated that no gender differences on level of emotional intelligence.

Table 4 indicated the association of emotional intelligence of hearing impaired children by ordinal position. Where all first (64.30 %), second (77.40%) and later born (96.0 %) were in low level of emotional intelligence. It was found that there was significant association ($\chi^2$= 7.92) and difference found with ordinal position where first born had higher mean score (86.92±12.06) than the second and later born.

The reason might be children with different birth-order positions may have different opportunities, care and attention that might have influenced. The study conducted by Vijayalakshmi et al., (2008), Kesavan (2009) and Enny (2013) also highlighted no significant difference between first and later born adolescent in their emotional intelligence.

Table 5 shows the influence of emotional intelligence of hearing impaired children by socioeconomic status (SES). Children from poor as well as middle SES fell under the low (76.60% and 81.10% respectively) level of emotional intelligence.

Mean comparison showed children from middle socio-economic status had better emotional intelligence than their counterpart. Chi square analysis revealed there was no significant association between SES and emotional intelligence. There was significant difference found between the two groups of socioeconomic status. The reason could be that parents with better socio-economic status can provide better and conducive family environment for the children emotional growth. The similar to the study Khan and Dar (2013) reported, high SES students were significantly emotionally intelligent than low SES students.

Correlation co-efficient matrix between emotional intelligence and personal factors among hearing impaired children are presented in Table 6.

Ordinal position was significantly negatively correlated with emotional intelligence where as SES was significantly positively correlated with emotional intelligence of hearing impaired children. It indicated that the hearing impaired children who were first born and had better socio-economic status had better emotional intelligence.

The present study focused on emotional intelligence of hearing impaired children and factors influencing emotional intelligence. Most of the hearing impaired children fell under low (78.6%) level of emotional intelligence and were low on interpersonal, stress management, adaptability and moderate on intrapersonal dimensions of emotional intelligence. There was significant effect of age, ordinal position and socio-economic status on emotional intelligence of hearing impaired children. This calls for educational program for children, teachers and parents to maximize the emotional intelligence of hearing impaired children. Intervention is also required to prevent the negative outcomes and enhance emotional intelligence of children.
**Table 1** Percentage distribution of emotional intelligence of hearing impaired children by hearing loss.

| Hearing loss | Levels of emotional intelligence | $\chi^2$ | Mean (SD) | t-test |
|--------------|---------------------------------|---------|-----------|--------|
|              | Low | Moderate | Total |       |         |         |
| Severe       | 24 (38.9) | 7 (36.4) | 31 (100) | 0.039 | NS | 82.35 ± 10.74 | 0.44 | NS |
| Profound     | 42 (61.1) | 11 (63.6) | 53 (100) |       |         |         |
| Total        | 66 (78.6) | 18 (21.4) | 84 (100) |       |         |         |

Figure in parenthesis indicates percentages, NS-Non Significant

**Table 2** Association of emotional intelligence of hearing impaired children by age.

| Age   | Levels of emotional intelligence | $\chi^2$ | Mean ±SD | F |
|-------|---------------------------------|---------|-----------|---|
|       | Low | Moderate | Total |       |   |
| 13–14 | 19 (65.6) | 10 (34.5) | 29 (100) | 5.94* | 83.48 ± 8.03 | 1.29* |
| 15–16 | 30 (90.0) | 3 (9.1) | 33 (100) |       | 80.93±11.38 |   |
| 17–18 | 17 (77.3) | 5 (22.7) | 22 (100) |       | 83.03±10.63 |   |

Figure in parenthesis indicates percentages, NS-Non Significant, *- Significant

**Tables 3** Association of emotional intelligence of hearing impaired children by gender.

| Gender | Levels of emotional intelligence | $\chi^2$ | Mean ±SD | t-value |
|--------|---------------------------------|---------|-----------|---------|
|        | Low | Moderate | Total |       |         |         |
| Male   | 35 (79.5) | 9 (20.5) | 44 (100) | 0.05 | NS | 84.13±10.0 | 0.98 | NS |
| Female | 31 (77.5) | 9 (22.5) | 40 (100) |       | 81.82±11.41 |   |

Figure in parenthesis indicates percentages, NS-Non Significant

**Table 4** Association of emotional intelligence of hearing impaired children by ordinal position.

| Ordinal position | Levels of emotional intelligence | $\chi^2$ | Mean ±SD | F |
|------------------|---------------------------------|---------|-----------|---|
|                  | Low | Moderate | Total |       |   |
| First born       | 18 (64.3) | 10 (35.7) | 28 (100) | 7.92* | 86.92±12.06 | 8.18* |
| Second born      | 24 (77.4) | 7 (22.6) | 31 (100) |       | 84.80±9.33 |   |
| Later born       | 24 (96.0) | 1 (4.0) | 25 (100) |       | 76.48±7.50 |   |

Figure in parenthesis indicates percentages, NS-Non Significant, *- Significant
Table.5 Association of emotional intelligence of hearing impaired children by socio-economic status (SES).

| SES   | Levels of intelligence | emotional intelligence | $\chi^2$ | Mean ±SD | t-value |
|-------|------------------------|------------------------|---------|----------|---------|
|       | Low    | Moderate | Total |         |         |         |
| Poor  | 36(76.6)| 11(23.4) | 47 (100) | 0.25<sup>NS</sup> | 86.0±9.85 | 2.99<sup>*</sup> |
| Middle| 30(81.1)| 7 (18.91) | 37 (100) | | 72.27±10.65 | |

Figure in parenthesis indicates percentages, NS-Non Significant, *- Significant

Table.6 Correlation co-efficient matrix between emotional intelligence and personal factors of hearing impaired children

| Particulars       | Age      | Ordinal position | Socio-economic Status |
|-------------------|----------|------------------|-----------------------|
| Emotional intelligence | 0.09<sup>NS</sup> | -0.38<sup>*</sup> | 0.42<sup>*</sup> |

*significant at 0.05 level  NS-Non-significant

Fig.1 Percentage distribution of hearing impaired children by dimensions if emotional intelligence.
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