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TEACHER ATTITUDES TOWARD THE MAINSTREAMING OF EXCEPTIONAL STUDENTS: EFFECTS OF THE EDUCATIONAL CLIMATE

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In the United States, PL 94-142 is now ten years old, and for a decade school districts have had the legal responsibility to provide for all exceptional children in the ‘least restrictive environment’. However, the movement toward integrating exceptional children into regular classrooms is not restricted to the United States. Many countries have been exposed to a vigorous advocacy on behalf of the handicapped for their right to enjoy an existence as close as possible to normal (Mitchell, 1981).

Canadians have closely observed the passage and progress of the American law as they move toward the passage of mandatory special education legislation. However, under the Canadian system, a child’s right to education is not entrenched by any constitutional provision. The responsibility for education depends entirely upon provincial legislation, and is a tenaciously guarded right. Currently, six Canadian provinces have some form of mandatory legislation regarding exceptional children. The other provinces and the two territories have permissive legislation, implying that they may provide services but are under no legal obligation to do so (Goguen, 1980).

Ontario, Canada’s most populous province, was the first to promulgate mandatory special education legislation that clearly delineates the rights of exceptional children to a free and appropriate education. Ontario’s Education Amendment Act was passed in 1980 for full implementation in September, 1985. Identical in intent to PL 94-142, the Education Amendment Act is less prescriptive in nature. Hodder (1984) observed that it slots between PL 94-142 and having no bill at all.

In Australia, exceptional children were traditionally educated in special schools, many operated by voluntary organizations. The disadvantages inherent in complete segregation, and the need to make provisions for mildly handicapped children, led to partial segregation in special classes in regular schools during the 1950s and 1960s (Drummond, 1978). The early 1970s witnessed increased interest in special education and the publication of a number of reports, at both the national and state level, directed at the future of Australian special education (Andrews, 1973; Cohen Committee, 1973; Drummond, 1978; Senate Standing Committee, 1971, 1972). In addition, non-government statements regarding special education appeared (Rehabilitation, 1972; Rigby, 1973).

The Karmel Report (Interim Committee, 1973) highlighted Australia’s lack of provision for exceptional children as well as the need for expanded teacher training. The Karmel Report gave full recognition to the need to accommodate exceptional pupils in regular schools, whenever possible, while also allowing segregated programming for children with handicaps of such a degree and nature that education in the regular stream was not feasible (Andrews, 1973). The Report has a major impact on Australian educational circles. It is now policy throughout Australia to provide free and appropriate education for exceptional children in the regular schools, where possible, and to ensure that support services are in place (Drummond, 1978).

Although policy at the Australian national level encourages the integration of exceptional children, the entire notion of mainstreaming remains an area of concern. One teacher trainer pointed out that “the concept of mainstreaming is . . . doubtful” because “teachers were never adequately prepared for mixed ability classes and in general have never learned to cope with them” (Mitchell, 1981, p. 474). With debate centred around whether or not to mainstream exceptional children, the concept of mandatory legislation, while certainly mentioned (Steinberg, 1980), has not yet become a real issue in Australia.

In advocating mainstreaming, the Australians recognize that “teachers’ attitudes toward the children and acceptance of responsibility for their education are of prime importance” (Drummond, 1978, p.40). Similarly, Canadian promoters of mainstreaming realize that attitudes are vital, and may be more important for the success of the enterprises than any other curricular or administrative strategy.

Attitudes are critical, at least as important as teacher competencies, curricular modifications, or administrative strategies. The attitudes held by regular classroom teachers can positively or adversely affect student achievement, teacher behaviour, and student behaviour. The significance of the effects of the attitudes of regular classroom teachers toward exceptional pupils and mainstreaming has led American researchers to examine various components of attitude formation and maintenance. The studies have generally consisted of three major types.

Firstly, investigators have carefully probed the variables associated with acceptance or rejection of specific groups of exceptional children (Hirschorn and Burton, 1979; Moore and Fine, 1978; Shotel Iano, and McGettinghan, 1972;
A second objective of the study was the development of an instrument that would measure specific dimensions of attitude toward mainstreaming. The final instrument was to be short, easy to administer, and operable with a variety of people interested in exceptional children. As well, the instrument was to demonstrate satisfactory validity and reliability.

Method

1. Sample

Students enrolled in introductory courses in special education provided the sample. Participants came from the three locations: British Columbia (n=142), Ontario (n=109) and Western Australia (n=93). The Attitude Survey was presented in the opening class.

Such a sample imposes limitations on the study. It was a critical assumption that the participants were not representative of the public at large. Moreover, enrolment in an introductory special education course may be indicative of already generally positive attitudes.

2. Instrument

The scale developed for this series of studies, the Attitude Survey, was constructed in order to measure attitudes toward exceptional children and the notion of mainstreaming. An earlier study (Winzer, 1984a) assessed the attitudes of 182 participants in introductory special education courses. A second study with 122 participants (Winzer, 1984b) measured whether information about exceptional children positively modified attitudes.

An original 40 item survey was piloted, and the responses item and factor analysed. This gave a 32 item scale, which was then used in the earlier studies. Further factor analysis indicated three underlying dimensions: the costs of mainstreaming to children, both regular and exceptional; costs to the regular classroom teacher, and financial considerations. However, on this 32 item survey form, the financial statements produced low correlation with the total scale, indicating that they did not measure the same universe of content as the other two dimensions.

The current 25 item scale was then compiled with regard to logical consistency, lack of ambiguity, and the elimination of items with low correlations. The present scale contains two major dimensions: A, costs to children, both regular and exceptional, and B, costs to classroom teachers and the school in general.

Items, positively and negatively worded, were presented on a five-point Likert type scale (Likert, 1932). Participants using the Attitude Survey were asked to mark one of the five alternatives for each question strongly agree, agree, disagree, strongly disagree, or no opinion. A score of one was attached to responses representing the least favourable attitudes; a score of five represented the most favourable.
TABLE 1
Responses to the Attitude Survey

<table>
<thead>
<tr>
<th>Dimension A</th>
<th>Dimension B</th>
<th>Full Scale</th>
<th>Mean</th>
<th>S.D.</th>
<th>Total Possible</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>N</td>
<td></td>
<td>Mean</td>
<td>Mean</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>British Columbia</td>
<td>184</td>
<td>104</td>
<td>44.571</td>
<td>48.760</td>
<td>3.204</td>
</tr>
<tr>
<td>Ontario</td>
<td>60</td>
<td>60</td>
<td>48.040</td>
<td>48.780</td>
<td>3.290</td>
</tr>
<tr>
<td>Western</td>
<td>87</td>
<td>86</td>
<td>44.570</td>
<td>44.570</td>
<td>3.290</td>
</tr>
<tr>
<td>Australia</td>
<td>521</td>
<td>521</td>
<td>44.570</td>
<td>44.570</td>
<td>3.290</td>
</tr>
<tr>
<td>All Samples</td>
<td>1384</td>
<td>1384</td>
<td>44.570</td>
<td>44.570</td>
<td>3.290</td>
</tr>
</tbody>
</table>

Results

This research was concerned with ascertaining whether teachers in widely varied geographical locations, functioning under different educational policies and legislation, held different attitudes toward exceptional children and mainstreaming.

The 25 item Attitude Survey produced two dimensions related to mainstreaming -- A, costs to children, and B, costs to teachers. Reliability estimates of the internal consistency of the scale, as determined by the KR.20 statistical procedure (Nelson, 1974), gave satisfactory results on the two dimensions and the full scale. Hoyt estimate of reliability indicated Dimension A, 0.86, Dimension B, 0.79. Cronbach's alpha for composite was 0.85.

Mean attitude scores were obtained and a one-way analysis of variance (ANOVA) conducted in order to determine whether meaningful differences existed between the groups. The means and standard deviations are presented in Table 1. High mean values are representative of positive attitudes.

Examination of the data demonstrated that the main effect for ANOVA was location. Australian teachers held significantly less positive attitudes toward exceptional children and mainstreaming than did the other two groups. They proved less positive in relation to the costs to the regular classroom teacher, and also regarding the costs to children. No significant differences were found between the Ontario and British Columbia samples on either dimension.

To further differentiate inter-group differences, the data was analyzed in relation to single items, confirmed by Sheffe post hoc procedures. Summary statistics of the one-way analysis of variance are presented in Table 2.

TABLE 2
Summary statistics on selected single items and location on the Attitude Survey

<table>
<thead>
<tr>
<th>Dimension A</th>
<th>Location</th>
<th>Grade Level Taught</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SS</td>
</tr>
<tr>
<td>1. Mainstreaming the exceptional child will promote his/her independence.</td>
<td>31.025</td>
<td>19.136*</td>
</tr>
<tr>
<td>4. Exceptional children will find it much easier to mix with their peers after leaving school if they have been taught together in regular classrooms.</td>
<td>4.506</td>
<td>3.426**</td>
</tr>
</tbody>
</table>
9. The integration of exceptional children into regular classes is beneficial to regular pupils.

12. Mainstreaming offers mixed group interaction which fosters understanding and acceptance of differences.

14. Mainstreaming is likely to have a negative effect on the emotional development of the exceptional child.

16. Mainstreaming will give exceptional students a better chance to readily fit into their home community.

17. The exceptional child is likely to be socially isolated by regular students.

24. Regular students quickly become accustomed to having exceptional pupils in the school and naturally accept them as peers.

8. The image of a particular school benefits from the presence of exceptional children.

13. As a teacher, I would be willing to have an exceptional child in my classroom.

15. Classroom teachers should make the decision as to whether or not to take an exceptional child in their classroom.

19. As a teacher, I would be willing to take extra training so as to be able to better handle exceptional children in my classroom.

23. Teachers need extra training if they are to teach exceptional students.

<table>
<thead>
<tr>
<th>Item</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>t-value</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.</td>
<td>8.259</td>
<td>8.199</td>
<td>2.119</td>
<td>1.089</td>
</tr>
<tr>
<td>14.</td>
<td>11.777</td>
<td>6.105*</td>
<td>3.908</td>
<td>.849</td>
</tr>
<tr>
<td>16.</td>
<td>10.602</td>
<td>10.108</td>
<td>3.139</td>
<td>1.188</td>
</tr>
<tr>
<td>17.</td>
<td>8.735</td>
<td>3.122**</td>
<td>2.219</td>
<td>.303</td>
</tr>
<tr>
<td>24.</td>
<td>7.669</td>
<td>5.013*</td>
<td>2.838</td>
<td>.924</td>
</tr>
<tr>
<td>8.</td>
<td>15.804</td>
<td>6.665</td>
<td>5.252</td>
<td>.852</td>
</tr>
<tr>
<td>13.</td>
<td>8.131</td>
<td>6.273*</td>
<td>5.018</td>
<td>1.684</td>
</tr>
<tr>
<td>15.</td>
<td>191.891</td>
<td>66.139*</td>
<td>24.557</td>
<td>2.668*</td>
</tr>
<tr>
<td>19.</td>
<td>11.510</td>
<td>11.842*</td>
<td>1.777</td>
<td>.672</td>
</tr>
<tr>
<td>23.</td>
<td>3.434</td>
<td>3.027**</td>
<td>3.562</td>
<td>1.305</td>
</tr>
</tbody>
</table>

* p < .01  
** p < .05

Again, on analysis of single items, Australian teachers demonstrated significantly less positive attitudes. In discriminating between British Columbia and Ontario, it was found that generally on the single items, B.C. teachers held slightly more positive means scores. However, very meaningful differences were found among the three groups in regard to whether the classroom teacher should have the final decision in mainstreaming an exceptional child. Further analysis of item 15 indicated that differences also existed in regard to grade level taught. Junior high school teachers felt most adamant about input into decision-making.

To complete the analysis, teacher variables—sex, age, grade level taught, status, experience, and qualifications—were assessed on both dimensions of the Attitude Survey. The three groups demonstrated some intra-group consistency. Summary statistics, as shown in Table 3, however, do point to older teachers holding more positive attitudes. As well, school administrators were significantly more favourable.

Discussion

As the movement to integrate exceptional children into regular classrooms gains momentum, the attitudes of the professionals most closely concerned with the process become important to evaluate. This study was undertaken in order to assess whether the educational climate, implying the concepts and notions circulating concerning mainstreaming, impacted on teachers' attitudes.

For the research, a twenty-five item Attitude Survey was employed. Data analysis revealed that Canadian teachers hold attitudes that are generally in a positive direction and, at the very least, reflect the idea that mainstreaming will not have an adverse effect. The responses of the teachers from British Columbia were somewhat more positive overall than two earlier groups of B.C. students studies (Winzer, 1984a, 1984b). British Columbia and Ontario were similar on both dimensions of the Attitude Survey and on single scale items. Generally, however, the response means indicated that Ontario teachers are not quite as positive on all domains as their western counterparts.

On all aspects of the Attitude Survey, the Australian teachers demonstrated significantly less positive attitudes. They appear relatively unsympathetic to the integration of exceptional children and uninspired by the advantages of the process. Such attitudes echo many studies which have shown regular classroom teachers to dismiss mainstreaming and argue for the retention of special classes (Barmgrover, 1971; Bradfield, Brown, Kaplan, Rickert and Stannard, 1973; Gickling and Theobald, 1975; Hudson, Graham and Warner, 1979; Major, 1961). The significance of these variables on attitude formation remains imprecise. Assessment of the present data in relation to a number of teacher variables induced responses which reflected differences according age and position in the educational hierarchy.
Some recent research (Larrivee and Cook, 1979; Winzer, 1984b) has found grade level taught to be a factor in attitudes, with less positive attitudes reflective of teachers in the upper levels. In this study, high school teachers from British Columbia demonstrated significantly less positive attitudes in regard to the effects of mainstreaming on the regular classroom teacher. Similarly, junior high school teachers in the entire sample were the most adamant that mainstreaming decisions should ultimately rest with the classroom teacher.

The major attitude determinant in the study was the geographic location of the respondents. Teachers in British Columbia, who function under a policy and practice of mainstreaming, demonstrated the most positive attitudes toward the procedure. Ontario teachers, working within mandatory special education legislation, presented slightly lower attitude means, but were generally leaning in a positive direction. However, in Australia, where the mainstreaming philosophy is relatively novel, the attitudes were significantly less positive and reflected the notion that integration would not be greatly beneficial to the exceptional child or the regular classroom teacher.

As well as determining geographical differences, the study resulted in the development of twenty-five statement Likert type scale. The Attitude Survey appears to meet the criteria presented earlier for the measurement of attitudes toward exceptional children and mainstreaming.

**Conclusion**

Attitudes are not a unitary dimension; many variables are interdependent on the formation and maintenance of attitudes, and the significance of each is not precisely known. The Attitude Survey assessed two specific dimensions thought to underlie attitude development. Obviously, a two-dimensional survey is limited and not exhaustive of the domain of attitudes. Nevertheless, the results are suggestive.

Canadian teachers, thoroughly immersed in the current mainstreaming philosophy, appear to hold generally positive attitudes toward exceptional children and their integration into the regular classroom. Contrastingly, teachers in Western Australia hold attitudes that would not bode well for mainstreaming ventures. As adherence to mainstreaming philosophy and process is a feature of the Canadian educational scene, and not as prominent in Australia yet, some credence, at least, must be given to the effects of the educational climate.

In the early 1970's special training of Australian teachers of exceptional students was reported to be generally from three months to one year duration (Andrews, 1973). However, since that time, major developments have been witnessed in the area of teacher training. Drummond (1978) reports that, of all the factors that have been reviewed, 'possibly none is more important than the recognition in education generally of the importance of the class teacher in implementing a policy of integration' (p.40).
Australian teachers need to gain competencies in understanding and teaching exceptional children, and in providing appropriate individual programmes (Drummond, 1978). With these competencies, plus an understanding of the philosophy and process of mainstreaming, the attitudes of Australian teachers may shift to a more positive orientation.

References


