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Teachers' views of inclusive education in Serbian schools

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This study was conducted to determine the attitudes of teachers concerning inclusion in schools all over Serbia. The respondents were teachers of different subjects who were tasked to anonymously complete the provided closed-type questionnaire (970 respondents). Primary and secondary school teachers from urban and rural areas of the Republic of Serbia participated in the research. The results indicate that the teachers are supportive of inclusion. Despite significant differences in respondents' answers, the results of the research show that there are many similarities in teacher responses toward inclusive education. The results show that it is still necessary to work on the implementation of inclusive education in Serbia, especially to educate the teaching staff and involve experts in the planning and development of individual educational plans.

Keywords: attitudes; inclusive education; Serbia; teachers

Introduction

During the first half of the 20th century disability was often ignored. People with disabilities were usually looked after by their families or they lived in institutions. In addition, Eiesland (1994) points out that, as a result of the baby boom and a decrease in infant mortality rates, there was an increase in the number of children born with disabilities, giving rise to philanthropic and parent advocacy groups. As a response to these advocacy demands, the development of professional educational, social, and medical services emerged (Eiesland, 1994). Due to the increased number of children with special needs and with disabilities, there was a need for better education and training of these children. Inclusive education is one of the solutions for including these children in the educational process.

Theories of inclusion and inclusive education have a valuable influence on special education policies and practices in both developed and developing countries (Artiles, Kozleski & Waitoller, 2011; Singal & Muthukrishna, 2014). Although inclusion is a part of the human rights movement, working with students with disabilities in formal educational settings is largely dependent on the attitudes of teachers (Avramidis, A, Bayliss & Burden, 2000; Berry, 2010; Haq & Mundia, 2012; Hill & Davis, 1999; Huang & Diamond, 2009; Odom, Vitztum, Wolery, Lieber, Sandall, Hanson, Beckman, Schwartz & Horn, 2004).

Teachers believe that general education is not the most appropriate environment to meet the academic and social needs of students with disabilities (Heflin & Bullock, 1999). They also find that inclusive educational settings are more suitable and effective for students with mild disabilities compared to students with severe disabilities (Langdon & Vesper, 2000).

Studies on the attitudes of teachers toward inclusion have demonstrated differences in attitudes influenced by factors such as gender (Alghazo & Gaad, 2004), teachers' personal beliefs (Dupoux, Hammond, Ingalls & Wolman, 2006), the severity of the student's disability (Langdon & Vesper, 2000; Scruggs & Mastropieri, 1996), and teacher training and instructional skills (Minke, Bear, Deemer & Griffin, 1996; Shoho, Katims & Wilks, 1997; Vaughn, Schumm, Jallad, Slusher & Saumell, 1996; York & Vandercook, 1990). According to Tsokova and Becirevic (2009) inclusive education in Bulgaria and Bosnia and Herzegovina has not received sufficient popularity and support in society. In both countries, public opinion towards inclusive education was examined and it was concluded that negative attitudes still prevail. In Croatia, teachers are considered competent to teach children with disabilities. They have good cooperation with professional staff in schools (special teachers, speech therapists, social pedagogues), whose task is to support all participants in inclusive education (Ralić, Krampač-Grljuši & Lisak, 2012). Although Croatia has made significant improvements in the field of inclusive education, the medical approach remains (deficit and a lack of awareness of the need to adapt the environment to make it accessible to children with disabilities).

The purpose of this research was to highlight the problem of inclusive education in Serbia and to share experiences with other countries. The results can generate new ideas creatively and realise important goals. Also, these studies highlight the significance of the experience of direct participants in inclusion in education. Teachers who grapple with inclusive education in their daily practice give valuable data for such research. Teachers and their experiences are good indicators of how inclusive education should be designed.

Theoretical Framework

This study is about inclusion in education. Inclusion is a term which expresses commitment to educate each child, to the maximum extent appropriate, in the school and classroom he or she would otherwise attend. Theory-based attitudes support inclusion in education as an issue recognising the rights of students with

disabilities. These rights include equal access and equal opportunities in education (Ainscow & César, 2006; Avramidis, E & Norwich, 2002; Booth, 2000).

This research included teachers' experiences about inclusive education in schools in Serbia, based on the assertion that knowledge comes only or primarily from sensory experience (Psillos & Curd, 2010). This research was designed to measure and to evaluate the attitudes of teachers who meet with children with special needs and with disabilities in their everyday practice. The results from practice are important for this kind of research.

Most inclusion studies don't have an adequate theoretical background. A lack of empirical testing also exists (Shore, Randel, Chung, Dean, Holcombe Ehrhart & Singh 2011). According to Mor Barak (1999:52) "employee perception of inclusion-exclusion is conceptualized as a continuum of the degree to which individuals feel a part of critical organizational processes. These processes include access to information and resources, connectedness to supervisor and co-workers, and ability to participate in and influence the decision-making process."

Inclusive education in Serbia

The year 2001 (general education reform) was marked as the starting point for the implementation of the reforms within the educational system in Serbia (Cvjetićanin, Segedinac & Segedinac, 2011) in accordance with the general development of the system of education of the European Union. The Government of the Republic of Serbia issued two documents related to inclusive education: Law on the Fundamentals of the Education System (Republic of Serbia, 2009) and Strategy of the Development of Education in Serbia until 2020 (Mitrovic, 2012; Republic of Serbia, 2009, 2010). In Serbia, inclusive education is legally founded by the Law on the Fundamentals of the Education System 72/2009 (Republic of Serbia, 2009). This law abolished the enrolment policy that discriminated and prevented equal education for all; it stipulated that from the 2010/2011 school year all children would be included in the regular education system.

The medical model, which is still dominant in schools in Serbia, is in stark contrast to the social model that is widely accepted in Europe. All children have the right to a quality education, as guaranteed by law. However, in Serbia, 85% of children with special needs do not attend any school (Radivojević, Jerotijević, Stojić, Ćirović, Radovanović-Tošić, Kocevska & Paripović, 2007), while a number of schools in Serbia have alarmingly high numbers of Romani students, reaching up to 73% in 2012/13 (European Roma Right Centre,

2014). Children with special needs quite often become targets of discrimination. This is a common problem since the school climate does not promote democratic values. Additionally, teachers still need to develop a more positive attitude and competences necessary for working with children with different needs (Dedej, 2011; Radivojević et al., 2007).

According to the Law on the Fundamentals of the Education System (Republic of Serbia, 2009), children who, for any reasons, require additional support in education, have the right to attend school in accordance with the individual educational plan (IEP) based on their pedagogical profiles (Pavlović Babić, Simić & Friedman, 2018). Even though the IEP was introduced as a supportive tool, teachers still face many difficulties in including children with special needs in regular classes. Large class sizes in urban schools are one of the notable challenges and teachers lack adequate expertise to carry out inclusive practices because they have not received adequate teacher training (Malinen, Savolainen & Xu 2012; Yada & Savolainen, 2017).

Our inclusion framework provides a launching point for expanding the diversity literature by developing new ideas pertaining to the experiences of teachers in schools in Serbia.

Methodology

The aim of the research was to involve as many teachers as possible from different urban and rural regions in Serbia to determine what their opinions on implementing inclusive education were. The purpose of the research was to show whether teachers agreed on key questions regarding inclusion and how much their views on inclusion were similar or different. Also, one of the aims was to include as many teachers of different subjects as possible to determine the differences in their answers.

It was assumed that the teachers of different gender and places of employment would have gained different experiences related to inclusion and would, therefore, have developed different attitudes toward inclusive education. The starting hypothesis was that teachers agreed about the importance of inclusive education and that it was necessary to carefully plan inclusive education and its goals. The hypothesis included in the research stated that there are statistically significant differences in the respondents' attitudes. The process of implementing inclusive education differs significantly - depending on the subject. One of the hypotheses was that statistically significant differences existed in the opinions of teachers who taught different subjects and had more teaching experience that others.

This research on the attitudes of teachers towards inclusive education is one of the first done on the subject in Serbia.

Data Collection

The field-survey research method was used in this study. The design of the questionnaire was based on the original study.

The research was conducted during the 2014/2015 and 2015/2016 school years. The sample was random. The survey resulted in 970 correctly completed questionnaires. The respondents were of different gender, had varied experience, were not employed at the same schools nor lived in the same places, and taught different subjects. The research was conducted in urban and rural environments throughout the Republic of Serbia and participants voluntarily agreed to participate in the study.

The schools' principals or teachers were asked to introduce and deliver the questionnaire to the teachers.

Participants' Characteristics

The final number of correctly completed questionnaires was 970. The respondents were mainly teachers who had taught between six and fifteen (38.7%), and between sixteen and twenty-five years (25.7%) (see Table 1).

Table 1 Respondents by gender, location (urban and rural), place of employment and years of service

	f	%
By gender		
Male	380	39.2
Female	590	60.8
Total	970	100.0
By location		
Urban	515	53.1
Rural	455	46.9
Total	970	100.0
By place of employment		
Primary school	836	86.2
Secondary school	134	13.8
Total	970	100.0
By years of service		
Less than 5 years	182	18.8
6–15 years	375	38.7
16–25 years	249	25.7
More than 26 years	164	16.9
Total	970	100.0

Only 18.8% of respondents had taught less than five years, while only 16.9% of respondents had taught more than twenty-six years. Most of the respondents worked in primary schools (86.2%), while only 13.8% worked in secondary schools. The reason for the big difference was that there are more primary schools and primary school teachers than secondary schools and secondary school teachers in Serbia. The results from the work environment are as follows: 53.1% of teachers taught in urban schools, while 46.9% worked in rural schools. The majority of the respondents were women (60.8%), while only 39.2% were men. This

was expected as, in general, more teachers in the country are female. In addition, teachers of 32 different subjects (from primary schools, high schools and secondary technical schools) took part in the research. The respondents who participated taught Geography (11.5%), Serbian (language) (10%), Mathematics (9.3%), and History (8.4%). Only 7.7% of the respondents taught Biology and lower grades in elementary school. As Serbian and Mathematics are the subjects with the highest number of weekly classes, more teachers of these two subjects participated, thus, the results were expected. As many teachers are employed in primary schools, a great number of teachers of lower grades in elementary schools participated. The number of teacher participants of other subjects was much lower, and included teachers of Chemistry, Physics, Information Technology (IT), foreign languages, Sociology, Philosophy, Logic, Constitution and Citizen's Rights, Economics, Law, Statistics, Accountancy, Religion, Citizen's Rights, Art, Music, Technical Education, Physical Education (PE). Participants also included school psychologists and pedagogues. All of the subjects are regarded as equally important in the planning and implementation of IEP in inclusive education.

Research Instruments

A three-part questionnaire with 15 items was used in data collection. The research was conducted through personal surveys and every respondent received a questionnaire. The first part (5 items) of the questionnaire collected demographical data. The second part (5 items) contained yes/no questions. The third part (8 items) was a 5-item Likerttype scale ranging from 1 (strongly disagree) to 5 (strongly agree) that measured attitudes toward inclusive education. The reliability of the third part (8 items) was analysed using Cronbach's alpha, of which the obtained value was 0.72. Taking into account that reliability coefficients higher than 0.7 are considered satisfactory, the questionnaire has an acceptable level of reliability. The content of the questionnaire is original; it is not based on any available research of this type. The questionnaire was created to follow the trends regarding inclusive education in Serbia.

Data Analysis

The obtained data was analysed using version 23 of the SPSS statistical program, which has been widely applied in similar researches (Alghazo & Gaad, 2004; Altınkök, 2017; Sharma, U, Moore & Sonawane, 2009). The most common statistical analyses that have been applied in this research include: an initial descriptive statistical analysis followed by the *t*-test analysis for independent samples, and the one-way analysis of variance (ANOVA). In order to determine how significant the difference was among individual groups, the post-hoc Scheffe test

was used as one of the most rigorous and most commonly applied tests. The *t*-test of independent samples was applied in order to compare the arithmetic means of two groups of respondents: male and female, teachers working at primary and secondary schools, teachers working at the urban and rural schools. The one-way analysis of variance, ANOVA, was used to examine the effect of participants' social characteristics (independent variables) on their responses to items related to the

attitudes toward inclusive education (dependent variables).

Results

The *t*-test of independent samples was applied to compare the arithmetic means of two population groups (see Table 2). Only the results showing statistical relevance at the level of significance p < 0.05 are presented in this paper.

Table 2 The results of the *t*-test for participants employed in primary and secondary schools

	Place of				
Item	employment	M	σ	F	p
The inclusion of children with special needs is a good decision for	Primary school	3.04	1.496	6.197	.013*
education in Serbia.	Secondary school	3.52	1.616		
Including pedagogical assistants in inclusive classes is an important	Primary school	4.24	1.128	8.513	.004*
step in helping the school employees.	Secondary school	3.92	1.298		
Inclusion should be planned in detail in cooperation with many	Primary school	4.42	.984	3.959	.047*
experts.	Secondary school	4.09	1.100		
Inclusion influences other children in the class in a bad way.	Primary school	3.21	1.363	23.899	*000
	Secondary school	3.27	1.609		

Note. *p < 0.05.

The respondents mostly agreed with the given statements or they were indifferent towards certain statements. The following statement scored the highest mark among primary school teachers: *Inclusion should be planned in detail in cooperation with a great number of experts*. The respondents

mostly disagreed on the statement: The inclusion of children with special needs is a good decision for education in Serbia. The statistically significant difference in the answers of the primary and secondary school teachers is noticeable in four out of ten tested statements.

Table 3 The results of the *t*-test for the participants employed in urban and rural schools

	Place of				
Item	employment	M	σ	F	p
I had an opportunity to work in a class where the process of inclusion	Urban school	-	-	33.961	*000
of children with special needs was implemented.	Rural school	-	-		
The inclusion of children with special needs is a good decision for	Urban school	2.92	1.582	10.824	.001*
education in Serbia.	Rural school	3.30	1.427		
Including pedagogical assistants in inclusive classes is an important	Urban school	4.09	1.258	22.308	*000
step in helping the school employees.	Rural school	4.32	1.021		
Inclusion should be planned in detail in cooperation with many	Urban school	4.33	1.057	6.010	.014*
experts.	Rural school	4.42	.947		
Teachers, after completing a college, do not gain enough knowledge	Urban school	4.11	1.285	11.798	.001*
about working with children with special needs.	Rural school	4.08	1.080		
The future teachers should be equipped with necessary knowledge	Urban school	3.96	1.331	7.308	.007*
during their studies about how to work with children with special	Rural school	4.09	1.153		
needs.					
Educators should gain more insight into how to work with children	Urban school	3.95	1.254	4.038	.045*
with special needs by attending seminars and trainings.	Rural school	4.07	1.128		
Inclusion influences other children in the class in a bad way.	Urban school	3.34	1.481	37.115	*000
<u> </u>	Rural school	3.09	1.290		

Note. *p < 0.05.

As indicated in Table 3, the respondents either agreed with the given statements or they were indifferent towards certain statements. The following statement scored the highest mark among urban and rural teachers: *Inclusion should be planned in detail in cooperation with a great number of experts.* The respondents mostly disagreed with the statement: *The inclusion of children with special needs is a good decision for education in Serbia.*

Disagreement with this statement can be explained by the fact that most teachers are not sufficiently prepared for inclusive education. In Serbia, future teaching staff are still not trained sufficiently for the inclusion of and working with children with special needs in regular schools. The statistically significant difference is noticeable in eight out of ten statements.

Table 4 The results of the *t*-test for the participants of different genders

Item	Gender	M	σ	F	p
I had an opportunity to work in a class where the process of inclusion of	M	-	-	10.076	.002*
children with special needs was implemented.	F	-	-		
I had an opportunity to work in a class where the process of inclusion of	M	-	-	4.443	.035*
children of Roma nationality was implemented.	F	-	-		
Including pedagogical assistants in inclusive classes is an important step in	M	4.02	1.223	5.315	.021*
helping the school employees.	F	4.31	1.100		
Inclusion should be planned in detail in cooperation with many experts.	M	4.23	1.072	9.220	.002*
	F	4.46	.953		

Note. *p < 0.05.

The results in Table 4 show that the respondents agreed with the given statements or that they were indifferent towards certain statements. The statement the respondents mostly agreed with is: *Inclusion should be planned in detail in coopera-*

tion with a great number of experts. The statistically significant difference is noticeable in four out of ten tested statements.

Table 5 presents the results showing the statistical relevance at the level of significance p < 0.05.

Table 5 The results of the analysis of variance, ANOVA, for the respondents with different length of work experience

CAPETICIOC	Years of work				
Item	experience	M	σ	$\boldsymbol{\mathit{F}}$	n
		1V1	0		<i>p</i>
I had an opportunity to work in a class where the process of inclusion	Less than 5 years	-	-	5.005	.002*
of children of Roma nationality was implemented.	From 6 to 15	-	-		
	years				
	From 16 to 25	-	-		
	years				
	Over 26 years	-	-		
Teachers, after completing a college, do not gain enough knowledge	Less than 5 years	4.04	1.267	3.718	.011*
about working with children with special needs.	From 6 to 15	4.20	1.139		
	years				
	From 16 to 25	4.15	1.117		
	years				
	Over 26 years	3.84	1.310		
Inclusion influences other children in the class in a bad way.	Less than 5 years	3.22	1.345	3.464	.016*
·	From 6 to 15	3.28	1.356		
	years				
	From 16 to 25	3.00	1.413		
	years	- /			
	Over 26 years	3.41	1.498		

Note. *p < 0.05.

The results in Table 5 show that the respondents agreed with the given statements or that they were indifferent towards certain statements. The statement the respondents mostly disagreed with is: *Inclusion influences other children in the class in a bad way*.

The analysis of the variance, ANOVA, was implemented in order to determine the statistically significant differences between answers given by the respondents who taught different subjects. The statistically significant difference for these groups of respondents was determined only according to one statement.

Discussion

The results of the *t*-test show that the respondents employed in primary and secondary schools have not developed equal attitudes toward inclusive education. The statistically significant difference noticeable in four out of ten tested statements partially confirms the following hypothesis: statistical-

ly significant differences exist between answers given by primary school teachers and those given by secondary school teachers. This hypothesis is justified owing to the fact that primary and secondary school teachers face different kinds of challenges related to inclusive education and students with special needs. There are more students with special needs in primary schools than in secondary schools. Therefore, the attitudes of primary school teachers could be perceived as more objective and reliable. The results of research in other countries on the topic of different attitudes of certain groups of teachers and students who study to be teachers correlate with the results of this research to a high extent (Cardona, 2009; Dupoux et al., 2006; Ernst & Rogers, 2009; Sharma, A & Dunay, 2018; Tsokova & Becirevic, 2009). In general teachers are of the opinion that it is necessary to include as many experts as possible in the processes of inclusive education (see Figure 1). Furthermore, it is common knowledge that this is an extremely complex area and that teachers are not trained sufficiently for the implementation of inclusion in Serbia (Milanković, Ivkov-Džigurski, Đukičin, Ivanović-Bibić, Lukic & Kalkan, 2015). According to Radić-Šestić, Radovanović, Milanković-Dobrota, Slavković and Langović-Milićvić (2013), the team approach of general and special education teachers proved to be useful for all students in an inclusive school, which should provide all prerequisites for their joint work. The results of the t-test show that the respondents employed in urban and rural regions do not have equal attitudes toward the implementation of inclusion in education. The noticeable statistically significant difference in eight out of ten tested statements confirms the following hypothesis: the differences in the answers of respondents employed in urban and rural environments are statistically significant. The following hypothesis is, thus, justified: the teachers who work in different environments face different kinds of challenges related to inclusion of children with special needs. Since urban regions are bigger, there are more students with special needs. On the other hand, urban regions offer more opportunities to children with special needs and inclusion is more easily implemented. A great number of rural schools in Serbia lack basic teaching means and it is almost impossible to work with children with special needs in those schools (see Figure 2) (Leščešen, Ivanović-Bibić, Dragin & Balent, 2013). Other authors confirm the above-mentioned state of inclusive education (Fakolade, Adeniyi & Tella, 2009; Ryan, 2014).

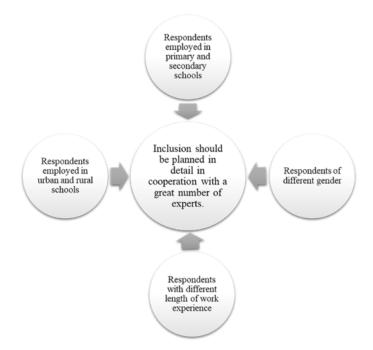


Figure 1 Respondents agree that inclusion should be planned in detail

The statistically significant difference among male and female respondents is noticeable in four out of ten tested statements. Therefore, the following hypothesis is only partially confirmed: there are significant differences in the attitudes of teachers of different gender. It is very important to take into consideration the fact that there are more female than male teachers, which means that women are

faced with challenges related to inclusion much more often. The statement: *Including pedagogical assistants in inclusive classes is an important step in helping the school employees*, was marked as highly significant by the female respondents. This is, after all, one of the guidelines on which inclusive education should be based (Gal, Schreur & Engel-Yeger, 2010; Haq & Mundia, 2012).

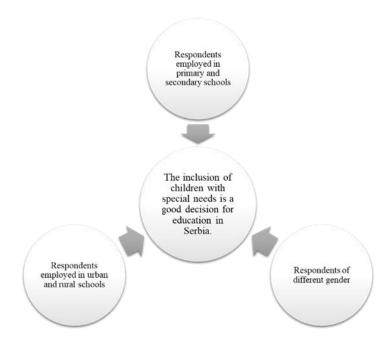


Figure 2 Respondents indicated that inclusion was not as beneficial for education in Serbia as was expected

The analysis of variance, ANOVA, partially confirmed that there are statistically significant differences in the attitudes of the respondents with more experience. Ten statements were tested, while the statistically significant difference was noticeable in three out of ten. For this reason, the hypothesis is only partially confirmed. In this part of the research it was more important to collect data showing that teachers with different periods of work experience agreed about the key problems of inclusive education. Since they mostly agreed with the given statements, it can be concluded that all the teachers realised what kinds of problems Serbia faced in implementing better inclusion. It can also be concluded that schools all over Serbia faced similar challenges in their attempts to implement inclusion.

The hypothesis that was a statistically significant difference existed in the answers of the teachers of different subjects was not confirmed. Inclusion of children with special needs is quite specific when it comes to different subjects, while the results of the questionnaire used in this research only revealed respondents' general attitudes.

Inclusive education in Serbia is still under development and there is a lack of scientific literature dealing with this topic. Teacher experiences and their views on inclusion in schools are very important for further planning of inclusive education in Serbia. According to Odom, Buysse and Soukakou (2011) issues that may affect the provision of inclusion in the future are related to implementation science, changing child and family demographics, the current economy, retrenchment, and the cost of inclusion.

Conclusion

Joining forces, knowledge, and experience of experts in different fields can lead to successful implementation of inclusive education. The whole educational system should be prepared and changed according to the demands of inclusive education.

The research described in this paper reveals only one part of the picture of inclusive education in Serbia, which was the main objective of the research. The results clearly point to different problems related to the implementation of inclusion in Serbia. The research identified some of the problems of implementation of inclusion in Serbia (especially in rural areas), such as insufficient commitment to inclusion in the curriculum, insufficient training of teaching staff, poor working conditions and equipment.

Many children have more than one disability and teachers should be specifically trained to work with those students. The respondents agreed that students with special needs have difficulties in learning the materials determined by the curriculum. One of the solutions they proposed included the involvement of pedagogical assistants as an important affirmative measure of improving the quality of inclusive education. This measure is also proposed in the *Strategy of the Development of the Education in Serbia until 2020*.

The statistically significant differences that were determined in the research partially or fully confirm the hypothesis that teachers from different schools, places of employment, and gender do not have the same attitudes towards inclusion. The specific context of primary, secondary, urban, and rural schools should also be taken into considera-

tion, especially since inclusion cannot be implemented in the same way in rural regions due to the lack of basic means and facilities.

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Authors' Contributions

All authors contributed to the writing of the manuscript and provided data for Tables 1, 2, 3, 4 and 5. All authors contributed to the collection of the correctly completed questionnaires and the statistical analyses. All authors reviewed the final manuscript.

Notes

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