

A Systematic Review: The Effect of Culturally Responsive Pedagogy on Student Learning and Achievement

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Abstract

"Culturally Responsive Pedagogy" has gained increasing attention over the last two decades as a way to improve academic achievement. There are numerous studies related to this pedagogy have been conducted for various purposes. Hence, a systematic survey is conducted to gather evidence from the latest research on its impact on student learning and academic achievement through the ERIC and google scholar databases. This study is conducted to examine the effect of "Culturally Responsive Pedagogy" on students' learning where there are six articles were finally selected which meet the study' goals based on the PRISMA protocol. The findings show that this pedagogy has a positive impact in improving the involvement of students on their learning and academic achievement. Moreover, in order to strengthen the implementation of this pedagogy in learning, it is certain that reinforcement should be given to research that describes the practice and its implementation in the classroom as well as its effect on the students.

Keywords: Culturally Responsive Pedagogy, Systematic Review, Academic Achievement

Introduction

Races and ethnicity are often easily seen and scrutinized by people as well as related issues that can raise the level of self-awareness of individuals around different racial and ethnic groups (Silverman 2010). Malaysia is a country of diverse races and ethnicities. This is a privilege of this country. However, at the same time, these ethnic differences will affect the teaching and learning of students in the context of education (Hawley & Nieto 2010).

"Culture is central to how all learning takes place" (Gay 2010). "Culturally Responsive Pedagogy" can be defined as using cultural knowledge, past experiences and student performance styles of various ethnic groups to make learning more relevant and effective to students (Gay 2010). In short, "Culturally Responsive Pedagogy" is a student centered

approach that takes into account and recognizes the importance of the student's cultural background in learning. This includes the most important foundation of this pedagogy which is to ensure that students feel welcome and appreciated in the learning that takes place in the classroom.

"Culturally Responsive Pedagogy" is an effective teaching method for one classroom that consists of culturally diverse students (Irvine 2009). Recent studies have proved that "Culturally Responsive Pedagogy" is very effective in reducing the gap of academic achievement and promoting positive ethnic identities for different racial and ethnic groups (Dickson & Fernandez 2015; Sleeter 2012). Besides that, there is also a study proving that the teaching of "Culturally Responsive" will encourage the involvement of students in learning and also the academic achievement of students (Christianakis 2011; Rodriguez et al. 2004).

However, research that links "Culturally Responsive Pedagogy" with its impact on student academic achievement is very small in number which only consists of case studies in small scale while many studies related to "Culturally Responsive Pedagogy" have been conducted. In conclusion, teaching students who come from a wide range of ethnic and racial backgrounds is an important thing for a multi ethnic country like Malaysia and should be the main focus in the context of education in order to develop students holistically in line with the main goal of the National Philosophy of Education in Malaysia.

Finally, "Culturally Responsive Pedagogy" is a method of teaching that has been studied by many researchers and has proven its effectiveness in the teaching and learning process. Hence, this systematic review aims to examine the effect of "Culturally Responsive Pedagogy" on the learning and academic achievement of students in school as well as current research trends on this subject.

Methodology

The PRISMA Protocol has been used in the process of selecting relevant articles. The four steps identified in the PRISMA protocol are identification, screening, eligibility and included.

The search process uses the ERIC and google scholar databases at the identification stage which is the first stage based on the PRISMA protocol. There were three key words used: culturally responsive pedagogy, culturally responsive pedagogy and student engagement, culturally responsive pedagogy and student achievement. In addition, inclusive and exclusive criteria have also been set for obtaining data that really meets the objectives of this study. The inclusive and exclusive criteria that have been used are as follows: limiting the year for article search in which searches are made only to existing articles from 2010 to 2019; search sources are a variety of journals, theses, proceedings and reports; use articles references to track and obtain articles that are relevant to the objectives of this study; only articles written in English are accepted. A total of 452 articles were found through two databases which is ERIC and goggle scholar at the initial identification stage. Although specific criteria have been set in order to search for the related articles, there are some overlapping or non-relevant results. Through several screenings, the abstracts of the articles were reviewed and then those irrelevant articles were excluded from being analyzed for this study. Overall, six relevant articles were finally selected which meet the study' goals and systematically reviewed.

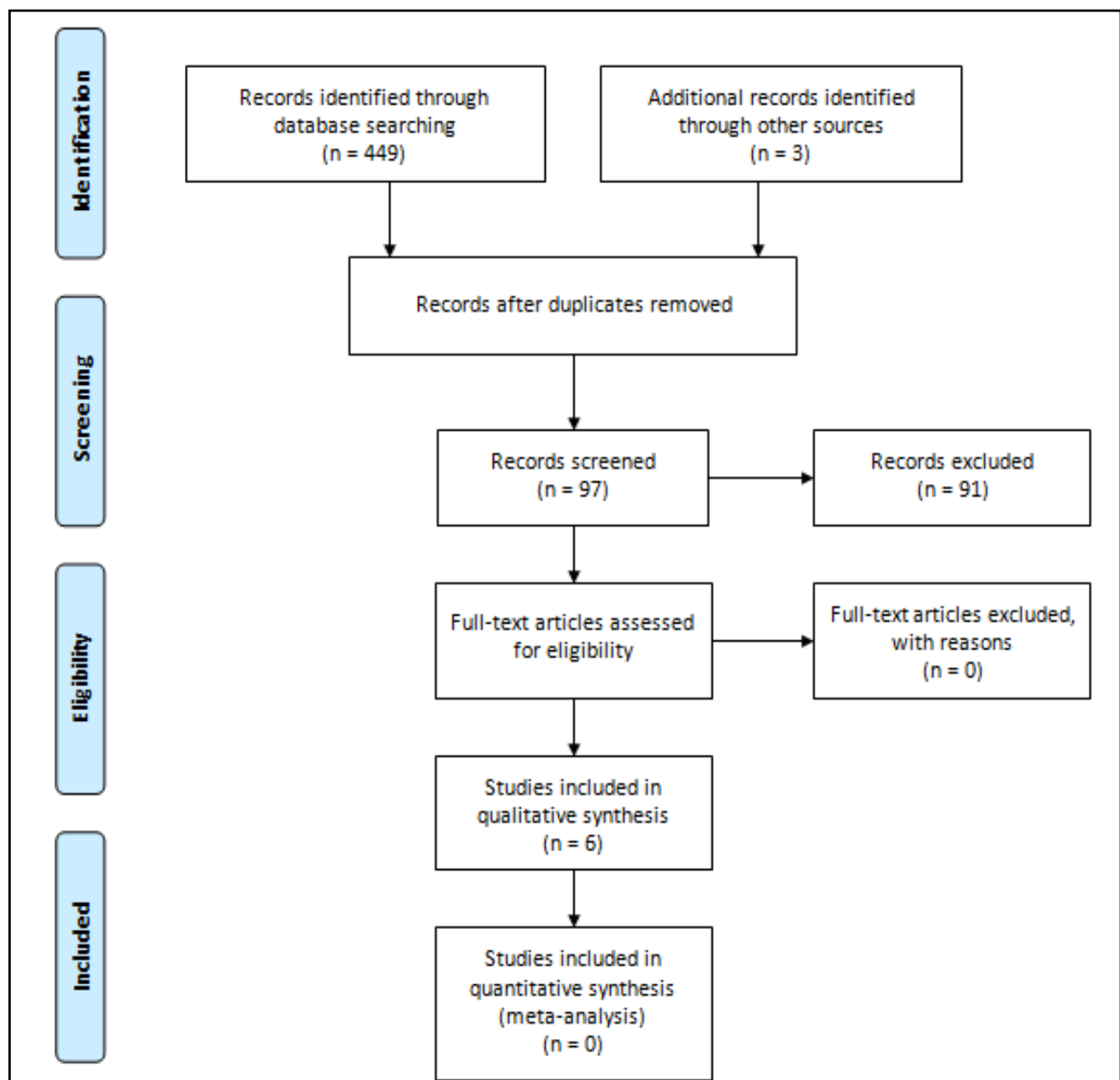


Figure 1: Data collection using PRISMA Protocol

Findings

Table 1

List of articles and synthesis reviews

No.	Author	Year	Title	Type of Research	Research Objectives	Research Findings
1	Christy M. Byrd	2016	Does Culturally Relevant Teaching Work? An Examination From Student Perspectives	Case study	<ul style="list-style-type: none"> Explore how the perceptions of students about "Culturally 	<ul style="list-style-type: none"> The findings show that "Culturally Relevant" teaching has a positive impact

					Relevant” teaching and school racial socialization are relevant to the academic achievement and students’ attitudes towards racial socialization.	on the daily teaching and learning process of students in the classroom.
2	Cholewa et al.	2014	A Qualitative Examination of the Impact of Culturally Responsive Educational Practices on the Psychological Well-Being of Students of Color	Case study	<ul style="list-style-type: none"> Examine the “Culturally Responsive” education practices that can be linked to the improvement of student psychology. 	<ul style="list-style-type: none"> The results show that “Culturally Responsive Teaching” which acts as a psychological intervention has the potential to promote academic achievement of students. The psychological factors affecting students learning where researchers suggest that the use of “Culturally Responsive Teaching” in learning to improve students’ academic achievement directly or indirectly through psychological well-being that will lead to academic success.

3	Tyrone Howard & Clarence L. Terry	2011	Culturally responsive pedagogy for African American students: promising programs and practices for enhanced academic performance	Case study	<ul style="list-style-type: none"> Examine "Culturally Responsive Pedagogy" as an intervention to improve the performance of African American students. 	<ul style="list-style-type: none"> The results show that the achievement of the students, the rate of graduation as well as the rate of pupils who further their learning in college increases after the "Culturally Responsive Pedagogy" is practiced in the teaching and learning process.
4	Kelley et al.	2015	Culturally familiar tasks on reading performance and self-efficacy of culturally and linguistically diverse students	Case study	<ul style="list-style-type: none"> Explore the effectiveness of "Culturally Responsive Pedagogy" among students who are culturally and linguistically different. Explore the relationship between "Culturally Responsive" teachings with self-confidence. 	<ul style="list-style-type: none"> The results show that the use of "Culturally Responsive Pedagogy" as a method of teaching can improve reading achievement as well as improve self-reading among students.
5	Greg Wiggan & Marcia J. Watson	2016	Teaching the Whole Child: The Importance of Culturally Responsiveness, Community Engagement, and Character Development in High Achieving African American Students	Case study	<ul style="list-style-type: none"> Explore the perceptions of teachers and students on the "Culturally Responsive Pedagogy". 	<ul style="list-style-type: none"> Results show that "Multicultural" curriculum and "Culturally Responsive" education have positive impacts on the social, cultural and academic achievement of students.

6	Deborah A. Harmon	2012	Culturally Responsive Teaching Through a Historical Lens: Will History Repeat Itself?	Historical research	<ul style="list-style-type: none"> Investigate and study “Culturally Responsive” teaching through past history of American education for African students. 	<ul style="list-style-type: none"> Results show that “Culturally Responsive Pedagogy” has proven its value and effectiveness through past history.
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Discussion

To get a comprehensive picture of the impact of “Culturally Responsive Pedagogy” on student academic achievement as well as to understand the current research trends on this subject, research questions are focused on the major findings of research on student learning and academic achievement in relation to “Culturally Responsive Pedagogy”.

The results of this study show that “Culturally Responsive Pedagogy” has a positive impact on students’ academic learning and achievement. This pedagogy can increase student involvement in learning (Hill 2009; Howard 2001). For example, Byrd’s (2016) study proves that “Culturally responsive Pedagogy” approach can improve students’ interests, grades, exploration, commitment and self-concept of learning. In short, this approach has a positive impact on student participation in learning besides improve student academic achievement. Not only that, previous research has shown that positive ethnic-racial identity are associated with student academic achievement as well as the students’ persistence and this indirectly affects students’ academic success. Positive ethnic-racial identity is also capable to reduce discrimination among individuals with different ethnics and racial (Thomas et al. 2009). It is clear that “Culturally Responsive Pedagogy” has a positive impact on the learning of students especially for students that come from various ethnic and racial groups. This should be taken into account as Malaysia is a country of diverse ethnic groups which can get infinite benefits in relation to “Culturally Responsive Pedagogy” as this pedagogy is still new in this country. Hence, more studies relating to this pedagogy are needed to get a more comprehensive picture of the impact of this pedagogy on student learning and academic achievement. In addition, studies related to the readiness of teachers to teach using the “Culturally Responsive pedagogy” are also needed as this directly affects the implementation of this pedagogy in schools which will later affect students' learning. This can be seen when research related to this pedagogy is not conducted in Malaysia. Not only that, studies and research that have been conducted so far only limited to small scale case studies as well as very few or limited (Samuels 2018).

Finally, previous studies have proven the effectiveness of “Culturally responsive Pedagogy” on student learning and academic achievement. However, the number of studies in particular that links this pedagogy to academic achievement is still very few and research involving theoretical framework is indispensable for a clear and holistic description of this pedagogy.

Conclusion

In conclusion, the "Culturally Responsive" pedagogy is an important way of improving student academic achievement as well as building positive self-identity for students of various ethnic and racial groups. In order to strengthen the implementation of this pedagogy in learning, it is certain that reinforcement should be given to research that describes the practice and its implementation in the classroom as well as its effect on the students. Finally, we need more and comprehensive research including teachers who are proficient in practicing this pedagogy. More studies related to this pedagogy and its impact on students' academic achievement should be carried out as it's contribute to the country that is multiracial especially in the context of education.

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