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Conceptualizing Reading to Learn: Strategy Instruction and EFL Students' Reading Comprehension

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Abstract

This study examined the effects of explicit reading strategy instruction on the comprehension of Ethiopian EFL students. In total, 123 students at Bahir Dar University, Ethiopia were randomly assigned into two groups. The experimental group was taught with explicit reading strategy instruction while the control group was taught with skill-based teaching for a semester. Pre- and post-reading comprehension tests were used to determine whether explicit reading strategy instruction helped the students in enhancing their reading proficiency. The results of this study showed that the students who received reading strategy instruction made greater gains in reading comprehension than students who were taught with conventional skill- based teaching. The theoretical implications of these findings for higher education reading curriculum design, and future research directions are then presented.

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Keywords: Strategy Instruction, Reading, Skill-based Teaching, Comprehension, Cognition

1. Introduction

1.1. Background of the study

Many countries have used English language as the medium of instruction at high schools, colleges and universities. In Ethiopian public and state universities, almost all educational texts are written in English. Research has consistently revealed that reading proficiency is one of the most essential skills that university students of English as a second language (ESL) and English as a foreign language (EFL) must develop (Gorsuch & Taguchi, 2010; Grab, 2002; Tavakoli, 2014). Thus, the ability to read is pivotal to EFL/ESL students' learning achievement (Ahmadi, Ismail & Abdulla, 2013; Eskey, 2005).

Reading proficiency is a deciding factor that potentially affects students' understanding of complex academic resources. However, a mismatch between Ethiopian university students' reading skills needs and their reading competence has been reported despite the fact that the students studied English for more than 12 years (Eshetie, 2010; Jeylon, 2010; Jha, 2014).

* Yenus Nurie. Tel.: +251918020940 *E-mail address*: Yenusn@gmail.com Many EFL/ESL students often encounter the capacity to comprehend academic texts when they join university education. As a result, academic requirements and expectations have been disfigured by students' poor reading competence (Jha, 2014; Eshetie, 2010; Jeylon, 2010). This research emanates from well documented research evidence (Collins & Gillies, 2010; Durkin, 1978; Kamil, 2004; USAID, 2014) which has shown that reading comprehension instruction remains largely abandoned in the field of English language teaching. Consequently, as Cassidy et al (2011) claimed, adolescent literacy has been and indeed, should continue to be a debatable issue in literacy education for the coming years.

Recent studies showed that inadequate reading strategy use and a lack of meta-cognitive awareness are the two major factors that affect reading proficiency in adolescents (Akkakoson & Setobol, 2009; Cubukcu, 2008; Mokharti & Reichard, 2002; Pressley, 2000; Shokrpour & Fotovatian, 2009). Further, a growing number of recent studies have consistently provided ample evidence of the relationship between the use of these strategies and student academic achievement (Glaser & Brunstein, 2007; Patrick et al., 2007; Torrance et al., 2007).

1.2. Review of Related Literature

1.2.1. Reading Theories and the Development of Reading Strategy Instruction

A plethora of research in cognitive science has helped us in understanding the nature of comprehension processes and the possible reasons for the failure of such processes in various reading contexts and for a variety of readers (Graesser, McNamara, & Louwerse, 2003). Consequentially, many educational researchers have suggested different strategies to improve reading comprehension (Sheorey & Mokhtari, 2001; Winne & Nesbit, 2010).

Flavell's (1976) model of meta-cognition emphasized the development of meta-cognitive awareness and cognitive knowledge of readers. Based on this model, one component of meta-cognition is meta-cognitive knowledge, and the second component that occurs before, during, and after reading is called meta-cognitive experience.

Smith (2004) maintained that the cognitive or psycholinguistic perspective of learning explains that comprehension is a process of constructing meaning in transaction with texts. However, due to its limitation in addressing the influence of the social context of learning, the cognitive psychology received criticism from the newly emerged school of thought called the socially mediated learning theory, which emphasizes the social factors in the process of learning rather than the contribution of an individualistic process. The sociocultural theory theorizes the mind as a basic structure to develop concepts and acquire language, and assumes that interaction plays a fundamental role in the development of cognition.

Vygotysky (1978) considers learning as a social process that is enhanced by active interaction. As a result, the socio-cultural theory has influenced the second and foreign language pedagogy because, based on the premise of this theory, teachers can transfer higher order meta-cognitive reading strategies to their students by scaffolding, modeling and thinking aloud methods. He explains two different levels of learning. Every function in the child's cultural development appears twice: first, on the social level, and later, on the individual level; first, between people (inter-psychological) and then inside the child (intrapsychological). This applies equally to voluntary attention, to logical memory, and to the formation of concepts. All the higher functions originate as actual relationships between individuals (p.57).

1.2.2. Research on reading strategy instruction and reading comprehension

Research has revealed important findings related to enhancing reading autonomy with explicit modeling strategy instruction (Akkakoson & Setobol, Huang et al., 2009; Tavakoli, 2014). Studies have also emphasized that the significance of reading strategy training for increasing students' reading proficiency (Cubukcu, 2008; Hong-Nam & Leavell, 2015; Mokhtari & Reichard, 2002; Sheorey & Mokhtari, 2001; Tavakoli, 2014). Recent studies indicated that with a great deal of teacher modeling and feedback, explicit reading strategy instruction is a feasible way to help students enhance students' reading comprehension (Dabarera, et al., 2014; Khezrlou, 2012; Nemati, 2009; Pani, 2004; Shokrpour & Fotovatian, 2009).

1.3. Rationale for the study

There is an increased demand for better reading proficiency to understand complex academic texts, but students' comprehension is below academic requirements and expectations. As we continue to ignore the problem, it will be even more problematic to cope with the academic demands. Consequently, there is a tremendous need for designing new and effective instructional methods to meet the demands of these students (Ramirez, & Jones, 2013). There is currently limited research on the effects of reading strategy instruction for EFL university students as most of the local research on the reading strategies of EFL readers (Abiy, 2012; Dawit, 2014; Yohannis, 2012) has been limited to investigating students' reading comprehension at lower levels of education (either at elementary or secondary schools).

The purpose of this study was to contribute to current literature by examining a research-based practice of reading strategy instruction and enhance EFL students' reading achievement. The results of this study, therefore, could help EFL curriculum designers and instructors to conceptualize, plan and implement reading strategies in reading classrooms. In light of all the empirical evidence reported and the literature reviewed; henceforth, the researcher proposed that there is a dire need for an intervention to improve the students' reading comprehension, and this experimental research was designed to respond to this need.

Research Questions

- 1. What effects does explicit reading strategy instruction have on the reading comprehension of EFL university level students?
- 2. Is there any significant difference between the pre-test and post-test results of the experimental students regarding reading comprehension?
- 3. Is there any significant difference between the experimental and control group of students on their reading comprehension?

2. Method

2.1. Research Design and Participants

This research was a pretest posttest quasi-experimental design, for which two classes of first year accounting students were purposefully selected at Bahir Dar University, Ethiopia. There were two sections in the 2016/17 academic year. To equate one group with the other to the greatest possible extent, the researcher randomly assigned intact classes to

each condition (experimental and control). A quasi-experimental design was selected for its relative merit in classroom contexts where "properly designed and executed quasi-experimental studies yield scientifically credible results" (Dörnyei, 2007, 118).

2.2. Research Instruments

2.2.1. Reading Comprehension Tests

To determine the effects of reading strategy instruction on the reading comprehension of students and examine any significant differences, the pretest and posttest mean scores of students in the experimental group were compared to the scores of the control group using the independent t-test. The researcher developed the reading tests that consist of two passages followed by multiple-choice comprehension questions. This is because standardized tests that could measure reading comprehension of university level students in Ethiopia were not currently available. Moreover, standardized tests that were not designed specifically for the Ethiopian context were less suitable for the purpose of this study.

To illustrate, this reading intervention focuses on training EFL students with a particular reading strategy instruction to see the possible effects on the reading comprehension of EFL students. Therefore, the possibility of using standardized tests was opted out as standardized tests are general in nature, and hence were not compatible with the major purpose of this study. Preferring instead to help understand the strategy use of the four reading strategies emphasized in this study and determine the reading proficiency of students before and after the intervention, the researcher developed 30 items that ask participants to employ their specific knowledge of meta-cognitive reading strategies when reading a text.

The total items in the pre and posttests were initially 60. However, all the True False items in both tests were excluded from the analysis, for Multiple Choice question items had higher criterion-related validity for an independent external rating of competence than Multiple True False questions (Downing, Grosso, &Norcini, 1994). Accordingly, items number 9, 10, 11 in the pretest (see appendix A) and items number 10, 11, 12, 13, 14 in the posttest (see appendix B) were excluded. All the remaining 52 items comprehension scores of the students were entered in Microsoft Excel sheet and it was arranged in descending order. Overall, a total of the 52 items were utilized in the item analysis process using the following formulae: p= R/T, where

p = item difficulty index

R = the number of correct responses to the test item

T = the total number of responses comprises both correct and incorrect responses Eventually, 20 items out of 60 (33.3%) were rejected either due to test type validity eight True or False items) or level of difficulty, which seven items were omitted after item difficulty analysis to mitigate their influence in the pretest. Regarding item difficulty in the posttest, all the items in the posttest were valid; however, five items were excluded based on their optimal position (either too high or too low level of difficulty) to keep both pre and posttest items equal. The items levels of difficulty between 20% - 80% were accepted in the test for this study (See appendix C).

An item analysis was also conducted to examine the level of difficulty of both tests. Based on the item analysis, the pretest items had item difficulty level=mean .6010 and standard deviation, .14553 for 20 items (n=109), and posttest items had item difficulty=mean .6130

and standard deviation, .12942 for 20 items (n=109), which means that the pretest and posttest were comparable in terms of level of difficulty.

To check the internal consistency of the tests, Cronbach's alpha coefficient was computed through SPSS version 20. A reliability analysis of the 30 items indicated that the pretest reading comprehension test had a coefficient of alpha=.72 (n=55), and the posttest had a coefficient of alpha=.73 (n=55), which ensured the reliability of the tests as Muijs (2004) states, a correlation coefficient above 0.7 is usually considered to offer reasonable reliability for research purposes. A team of test administrators and data collectors in the field who planned and administered the tests were recruited for the project to ensure complete testing and quality control over the test administration. Further, a paired t-test was used to determine whether there was a significant difference between the experimental group of students' reading comprehension before and after the intervention.

So as to help determine which of the questions in the pre-and post-test items were more difficult than others and hence examine the difficulty of questions in relation to the types of individual reading strategies the questions ask students, the following individual strategy items were incorporated in the pre-and post-test items. Questions numbers 1, 13 and 14 ask students to "Determine the main ideas of the passage". Questions numbers 2, 7,8,12, 6, 18, 19, 21, 23,24,25,28 and 30 ask students' reading proficiency in terms of the effects of "Guessing meanings" strategy to comprehend a text. Similarly, questions numbers 3, 5, 9, 10, 11,17,22,27 and 29 were designed to help understand effects of teaching "Drawing inferences" on students' reading comprehension after intervention. The last individual reading strategy "Previewing" helps readers predict or make some educated guesses about what is in the text. Regarding this, therefore, questions numbers 4, 6, 15, 20 and 26 were constructed to explore the students' reading comprehension after they were taught this strategy.

2.3. The Intervention Procedure

Prior to the reading strategy instruction, the researcher discussed with the participants in the experimental group about strategic reading, the reading strategies training and the rationale for the intervention. The week before the study begins; the researcher oriented all the students so that they could be familiar with the meta-cognitive reading strategies. The students received direct instruction of meta-cognitive reading comprehension strategies with a total of four reading texts. The researcher modeled the strategies and provided adequate time for participants to practice the strategies through guided practice and independent work. Before and after the treatment sessions, students took reading tests.

The explicit reading strategy instruction Model for reading comprehension, which was adapted from Vogt & Echevarria (2008), was utilized as a training guide for the reading intervention, for this model incorporates essential teaching procedures that can be applicable in the Ethiopian EFL context. It is manageable for Ethiopian EFL teachers as it requires no sophisticated materials and it can be easily utilized with training teachers in a limited time. This framework for teaching procedures also considers possible factors that can affect the result of the intervention and has a lot of clear guidelines based on the results of decades of research. The control group was taught with the conventional skill based reading approach while the experimental group received CSR (comprehension strategy instruction) for 12 weeks.

In order to ensure consistency in instruction, only the researcher taught both the experimental and the control group for three periods (150 minutes per week) period using

four reading passages for in- class tasks. He allocated the same time, tasks and materials for the experimental and control groups, but employed a different pedagogical approach. In the face of the reality, Lee (2012) maintains that a true control condition without any instructional input or learning opportunity is rare in the field of education research.

The major purpose of the intervention was to understand if explicit reading strategy instruction improves reading comprehension of EFL students. Therefore, the experimental group was trained with explicit reading strategy instruction, which includes guided practice, direct modeling, and explicit instruction. The researcher also facilitated opportunities for the students to practice each strategy until he transferred the target reading strategy to the students so that they could read the passage by themselves. On the other hand, no reading strategy training was provided for the control group. Instead, the researcher organized the whole reading class, asked students to read texts, which were accompanied by class works of comprehension questions and assignments. Finally, he corrected responses and gave a brief description on the topic with the conventional skill-based teaching for the entire semester. Consequentially, this study takes advantage of using quasi-experimental design in increasing external validity as the researcher (their ordinary English teacher) had already experienced a particular treatment of interest in the students' ordinary situations.

Schmidt (1994) stated that the intervention of a researcher's interest (usually an innovative one) could be something that participants are not likely to encounter in their real life classrooms (as cited in Lee, 2012), and this could have an inadvertent effect on their learning consequences. In comparison to other researchers who would conduct a study on the participants of this study, therefore, the researcher (as he was also their classroom teacher) could "get access to participants who have already experienced a particular treatment of interest (rather than providing such a treatment after a sampling procedure), and give a test measuring the dependent variable on which they aim to estimate the effect of a treatment" (Lee, 2012, p. 12).

A plethora of research has identified the types of reading strategies that yield best instructional practices that are effective in helping students to improve reading comprehension. One of the strategies that received top attention by researchers is activating students' prior knowledge for effective reading. It is only after the schemata is activated that one is able to see or hear, because it fits into patterns that s/he already knows (Harmer, 2001). Pausing and predicting what will come next is another individual reading strategy that received attention by recent studies. In this reading activity, the students are asked to stop for a while and guess what will come next based on the story. The third reading strategy instruction focused on summarizing and writing main ideas.

Research has indicated that an individual reading strategy can be executed using other individual reading strategies. For example, Rahmawati (2012) maintained that an individual strategy "guessing meanings" was often carried out by executing a wide range of other strategies such as rereading, making use of contextual use, asking (oneself) question or even paying closer attention to reading. Consequently, two main themes emerged when selecting reading strategies for this study. First, in teaching drawing inference strategy, various reading strategies like making predictions, clarifying, activating prior knowledge, asking questions, paraphrasing and visualizing on what he/she read could be incorporated. Second, under the strategy "guessing meanings," rereading, making use of contextual use, asking (oneself) question or even paying closer attention to reading from the three major reading strategies (Global, Problem solving and Support reading strategies) could be included.

The selection and inclusion of meta-cognitive reading strategies for the training was grounded in the belief that interlinking individual strategies need to be taken together to understand the potential effects of using individual reading strategies on the readers' reading comprehension. In fact, teaching several meta-cognitive reading strategies at the same time for the same groups of students in a limited time may not be feasible. Hence, to help the researcher teach fairly adequate reading strategies throughout the semester, and thereby diminishing learner anxiety, this study selected a few strands of strategies that could be taught, modeled and practiced together.

Despite individual instruction of each strategy, Anderson (2005) stated that there were relations among them as strategies are not utilized in isolation; instead, in relation to each other (as cited in Razi, 2014). Sequentially, the present study incorporated four individual reading strategies, namely predicting, inferring, summarizing and questioning strategies, and a total of 12 stranded meta-cognitive reading strategies. The individual strategies that are included in this study are, therefore, summarizing, generating questions, previewing a book before reading, using prior knowledge, making predictions, drawing inferences, rereading, setting purpose for reading, determining what to read closely, predicting or guessing text meaning, trying to stay focused on reading and adjusting reading rate.

2.4. The Skill-based Teaching for Reading Comprehension

The control group was taught reading using the conventional skill-based approach. In this approach, students were taught the three phases of skill-based teaching, namely the pre-reading stage, the while-reading stage, and the post-reading stage. The ultimate goal of the study was to compare the two approaches and examine the effects of reading strategy instruction on the students' strategy use and reading comprehension. In light of the literature, the researcher was cognizant of the importance of designating procedures for skill-based teaching and strategies training for effective instructional intervention.

Afflerbach, Pearson and Paris (2008) stated that the dual emphasis on explicit teaching of skills and strategies is evident for comprehension. They further asserted that "When we are teaching strategically, we help students to analyze tasks, to consider various approaches to performing the task, and to choose among alternative actions to reach the goal. The teaching skills involves practice and feedback to improve speed and efficiency, which taken together amount to what we call fluency" (p.372). Therefore, the participants in the control group were also taught the following skills necessary for enhancing their reading proficiency: drawing inferences from the given details and facts identifying the topic, or the main idea, providing the meaning of new words, explaining grammar points and sentence structures.

Before students begin reading the text, the researcher highlighted the background information related to the text. At this stage, the researcher also explained the new grammar and words written in bold in each reading passage. During the reading stage, the researcher told the students to read the text on their own. Then, students were directed to identify the main idea, draw inferences from the information given, which was simultaneously supported by the researcher. As a teacher scaffolding technique, ambiguous concepts and more complex concepts were explained. In the final post-reading stage, with extensive guidance, the researcher directed the students to practice exercises and answer the questions given in the materials.

2.5. Instructional Procedure for the Experimental Group

In the present study, the experimental group of 62 students received reading strategy instruction that consisted of engaging participants in the use of comprehension strategies, such as activating schemata before reading, and pausing and predicting what will come next while reading, questioning and summarizing what they have read in short. A reading strategy training manual was prepared before each lesson began. The procedure for training students of the experimental group was carried out in the following ways. First, the researcher provided a detailed description on how each strategy use can be applied in reading a text using the thinking aloud technique. The researcher explained to the students about the most appropriate context which students can effectively use each strategy when they read a text. Second, the researcher modeled each strategy briefly using various examples. Third, the students, began using each strategy in action with the researcher scaffolding. Then the students gradually employed the strategies independently.

Different reading strategy instruction tasks which are appropriate to practice activating schemata were selected and used. The researcher's intervention began by teaching explicitly how students could use their schemata before reading a text. To help students understand how this strategy works and encourage them how they can activate their background knowledge, the researcher asked them to brainstorm pre-reading activities that were related to the concept of the reading text. The reading strategy instruction also focused on modeling and guiding students to pause and guess strategy. Then, the students were asked to practice predictions trainings based on the model predicting strategy use the researcher had shown. To encourage the students to check their prediction and manage the task, the researcher wrote their predictions on the whiteboard. Finally, the researcher asked the students to read the text and check their predictions. The third reading strategy instruction focused on summarizing and writing main ideas. In this instructional phase, students were asked to read texts and summarize the main idea of each text.

2.6. Data analysis

The data were analyzed using statistical methods. The pre and posttest results of the participants in both groups were corrected by two raters out of 20 and the scores were converted into percentiles to determine if there was any difference in reading comprehension achievement between the experimental and the control groups. An independent samples t- test was conducted to determine if there was any pre-existing difference in the reading comprehension of the two groups. A paired t-test was also calculated to examine whether the students in the experimental group exhibited a significant difference on reading comprehension in their posttest performance in comparison to their own pretest performance.

3. Results and Discussion

3.1. Results

3.1.1. Comprehension Results for the experimental group

Table 1: The Pre and posttest Comprehension Scores of the Experimental Group

Pre-te Resul				Post-test Results	
Score	Frequency	Percent	Score	Frequency	Percent
45	8	14.5	45	1	1.8
55	16	29.1	50	6	10.9
60	15	27.3	55	3	5.5
65	12	21.8	60	14	25.5
70	3	5.5	65	16	29.1
75	1	1.8	70	13	23.6
			75	2	3.6
Total	55	100	Total	55	100

Table 1 shows that 1 participant (1.8%) in the experimental group got 75%, whereas 2 participants (3.6%) scored 75% on the posttest. 3 participants (5.5%) got 70% on the pretest, whereas 13 participants (23.6%) scored 70%. on the posttest. Before the intervention, 8 participants (14.5%) scored below an average point (50%), whereas only 1 participant (1.8%) got below an average point (50%) after the reading strategy instruction.

3.1.2. A Pre and post Intervention Results of Comprehension of the Participants

Table 2: Comprehension Mean, Standard Deviations, t and p-value of the Experimental Group

	Mean	Number	Sta. Deviation	t	p -value
Pre-test	58.27	55	7.279	-220	.311
Post-test	62.73	55	6.993	. 1.401	.000
		p<0.05			

To examine whether the reading comprehension proficiency of participants in the experimental group improved after receiving reading strategy instruction, and hence to determine the presence of a significant difference after the intervention, a paired samples t-test was used based on the participants' mean scores of the pre and post-test scores. Evidently, as the above table shows, the post-test means scores of the participants instructed with the reading strategy instruction was significantly different from their pre-test mean score at a significant level of 0.05, indicating that the reading strategy instruction helped in enhancing students' reading comprehension.

3.1.3. A Pre and post Intervention Results of Comprehension of the Control group

Table 3: Comprehension Mean, Standard Deviations, t and p-value of the Control group

	Mean	Number	Sta. Deviation	$t \ value$	<i>p</i> –
Pre-test	58.61	54	8.710	-1.705	.094
Post-test	60.56	54	7.811		

p<0.05

To examine whether the reading comprehension proficiency of the control group improved after receiving skill based reading instruction, and hence to determine the presence of a significant difference after the intervention, a paired t-test was used based on the students' mean scores of the pre and posttest scores. Evidently, as the above table shows, the posttest means scores of the participants instructed with the skill based reading instruction did not show any significant difference from their pretest mean score at a .094 level, indicating that the skill based reading instruction did not help in enhancing students' reading comprehension in the control group.

3.1.4. A Pre-and Post test comprehension results of the experimental and control group

Percentages of the pretest and posttest results were calculated to examine if the participants in the experimental group improved their reading comprehension after receiving explicit reading strategy instruction. Table 1 shows that 1 participant (1.8%) got 75% on the pretest, whereas two participants (3.6%) scored 75% on the posttest. three participants (5.5%) got 70% on the pretest, whereas 13 participants (23.6%) scored 70%. on the posttest. Before the intervention, eight participants (14.5%) scored below an average point (50%). The number of the students who scored below average point (50%) dropped to 1 (1.8%) after the reading strategy instruction.

Table 4: Descriptive statistics for the Pre and posttest Comprehension Scores of the Control Group

	Pre-test		P	•	
Results					
Score	Frequency	Percent	Score	Frequency	Percent
35	2	3.7	45	3	5.6
40	1	1.9	50	5	9.3
45	3	5.6	55	9	16.7
50	2	3.7	60	13	24.1
55	16	29.6	65	15	27.8
60	11	20.4	70	6	11.2
65	11	20.4	75	3	5.6
70	7	13.0			
75	1	1.9			
Total	54	100	Total	54	100

Table 4 shows that one participant (1.9%) got 75% on the pre-test, whereas three participants (5.6%) scored 75 on the posttest. 7 participants (13.0%) got 70% on the pretest, whereas six participants (11.2%) scored 70% on the posttest. The data also showed that six participants (11.2%) scored below average (50%) on the pretest, whereas three participants (5.6%) scored below average (50%) on the posttest. Overall, the students' comprehension scores of the two groups obtained from the pretest results exhibited a similar pattern of results, indicating that the students had almost similar reading proficiencies before the intervention.

Table 5: The Pre and posttest comprehension mean and standard deviation of the experimental and control group

	Group	No.	Mean	S.D	df	t	p-value	
Pre-test	Experimental	55	58.27	7.279	107	-220		
	Control	54	58.61	8.710				
Post-test	Experimental	55	62.73	6.993	107	1.401		
	Control	54	60.56	7.811			.695	

*p<0.05

The pre-test and post-test mean scores of the reading comprehension tests of the experimental and the control groups were used to examine whether the students in the experimental group showed greater reading achievement after receiving the reading strategies instruction than those who were taught with the skills based teaching. The results depicted that the students in the reading strategy instruction group (the experimental group) achieved a higher mean score (62.73) than those in the control group (60.56). The comparison results of the post-test scores of the experimental and the control groups of students favored for the experimental group.

To illustrate, nine participants in the control group scored 70, whereas 15 participants in the experimental group scored 70 and above. Further, three participants (5.6%) the control group scored below average (50%) on the post-test, whereas only 1 participant (1.8%) of the experimental group scored below average (50%) on the posttest. Overall, the comparison scores of the two groups indicate that the number of students who failed the reading examination after the intervention was greater in the control group than the experimental group of students in this study. However, as it was indicated, the difference between the mean scores of the two groups after the strategy instruction was not statistically significant.

3.2. Discussions and Conclusion

3.2.1. Experimental Group's Reading Comprehension before and after the Instruction

One of the major purposes of this study was to understand the effects of explicit reading strategy instruction on students' reading proficiency. Pertaining to this, the results of this study revealed several major findings that could be summarized as follows. After the students were taught in explicit reading strategy instruction for a semester, the participants exhibited significant progress in their reading achievement. This observation is reminiscent of numerous researchers who revealed that students' reading comprehension improves when teachers model strategies and provides an opportunity for students to practice the strategies (Akkakoson & Setobol, 2009; Cubukcu, 2008; Hong-Nam & Leavell, 2015; Mokhtari & Reichard, 2002; Sheorey & Mokhtari, 2001; Tavakoli, 2014).

The findings of the study showed that systematic direct instruction in meta-cognitive language learning strategies could develop reading comprehension. From the outset, it was hypothesized that the instruction has a certain effect on students' reading comprehension when the teacher explicitly demonstrates key reading strategies, models them and explains the reason and context for using them. However, this research was cautiously aimed at examining to what extent the instructional strategies impact the students' reading achievement, which will be discussed in detail in the next section.

3.2.2. A pre and post intervention comprehension comparison of the experimental group

A paired t-test results of this study showed that the students in the experimental group exhibited a significant difference on reading comprehension in their posttest performance in comparison to their own pretest performance at a significant level of p<0.05. The findings of this study revealed that reading strategy instruction had a significantly positive effect on the English reading comprehension of university students. Similarly, a plethora of research has revealed a strong positive correlation between reported metacognitive awareness of reading strategies and reading comprehension achievement of university level EFL students (Karbalaei, 2010; Tavakoli, 2014).

Based on the results of the independent t-test, therefore, it was, therefore, possible to claim that the intervention had the benefits for the treatment group in getting practical techniques necessary for improving their English reading proficiency. Recent research that has investigated on reading strategies suggested that teachers need to assist EFL/ESL students to improve reading comprehension by integrating meta-cognitive reading strategy tasks in their regular English reading courses (Cubukcu, 2008; Huang & Newbern, 2012; &Wang et al, 2009).

There is a tremendous need for designing new and effective instructional methods to meet the demands of these students (Ramirez, & Jones, 2013). Research indicated that with a great deal of teacher modeling and feedback, explicit reading strategy instruction is an effective way to help students enhance their reading comprehension (Cubukcu, 2008; Khezrlou, 2012; Nemati, 2009; Pani, 2004; Shokrpour & Fotovatian, 2009).

The results of the studies conducted in the area of reading comprehension asserted that meta-cognitive reading strategy instruction had a significant contribution for the development of students' reading comprehension (Akkakoson & Setobol, 2009; Cantrell & Carter, 2009; Huang et al, 2009; Pressly, 2000). In a nutshell, the researcher posited that reading intervention research like this will help address the needs of EFL students who have little exposure to the English language.

3.2.3. Reading comprehension of the experimental and control group after the instruction

The finding of this study addresses the research question that seeks to understand the statistical significance of the effects of reading strategy instruction on the reading achievement of both groups (experimental and control). The results of the study showed that the students in the experimental group achieved a higher mean score and than those in the control group. While the paired t-test results of the pre- and posttest scores of the experimental group of students showed that reading strategy instruction had a statistically significant effect on the reading comprehension of students at p < .005, but the paired t-test results of the control group did not show any significant difference between the pre-and post-test results of reading comprehension after they were taught skill based teaching for a semester, indicating the positive effect of strategy instruction on the improvement of

students' reading comprehension. The independent t-test results of this study revealed a non-significant trend indicating no statistically significant difference between the post-test mean scores of the experimental group and the control group at .695 level (Significant <0.05). Taken together, the finding of this study indicated that reading strategy instruction helped students in the treatment group in enhancing their English reading proficiency more than skill-based conventional method did. As experiments rely on analytical generalization to theory (Robert & John, 2003), the results of this study in this regard may provide corroborative evidence for the theory of meta-cognition, which clearly stresses that meta-cognition is critical to effective reading in ESL/EFL settings.

The reading comprehension questions employed for the pretest and post test consist of the basic components of reading comprehension, such as vocabulary, literal and inferential understanding of reading texts. Based on the results of the students' answers for the tests, a paired t-test was used to determine whether the experimental groups of students showed a significant difference on their reading comprehension in each item after the intervention. It was found that both groups of students made significant progress on each item, especially on questions number 1, 3, 5 except question number 2. Question number 1 asks students to determine the main idea of the text, whereas questions number 3 and 5 ask the students to draw inferences and question 2 asks students to guess meaning of words in the reading text.

The finding of this study in this regard is in line with previous studies of Salataci and Akyel (2002), and Fan (2010) who revealed that reading strategy instruction had a positive effect on the university learners' reading comprehension particularly in relation to the comprehension questions on getting the main idea and finding the supporting details, and students use more top-down strategies, like finding the main ideas and summarizing after strategy instruction training. Interestingly, even after the participants were asked to find out the meaning of a word in the passage (please refer to question number 2 of this study), they could not do so even after the instruction. Wong (2010) also reported that although the students did well in answering almost all the questions, they encountered real difficulty in guessing the meanings of words correctly in the pre-and post-tests.

Given the students' significant improvement on the posttest scores, the results of this study may have implications for EFL university teachers, and curriculum designers to fully understand, develop and apply reading strategy instruction to help students improve their reading comprehension. Taken together, this study revealed the importance of metacognition for regulating and supporting student learning by assisting students with teacher scaffolding in developing their proficiency to monitor and regulate their cognition. However, the present research aimed at examining the effects of reading strategy instruction on the reading comprehension of EFL students under a specific term of training, so long term follow-up treatment is needed to determine if the effects could stay longer.

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Appendix A:	Pretest Reading comprehension Question	S
Name	Gender Department Yea	r of study

I. Read the following passage and answer the questions that follow.

"Pole, pole, dada," goes my new Swahili mantra. My oxygen-starved body is capable of moving any other than "slowly, slowly". The sister reference at the end is a nice touch, though, strangely comforting coming from the guides and porters who leap up and down Mount Kilimanjaro like mountain goats. Back home in Britain, I have already conquered Scotland's Ben Nevis and Mount Snowdon in Wales- both of which seem like *molehills* compared to *this* majestic rock.

The distance from the starting point at Londorossi Gate at the summit is a deceptively manageable 49 kilometers on the Lemosho route. Kilimanjaro is not an overly technical climb-making it a draw for enthusiastic amateurs like myself. And as the number of adventure tourists continuous to escalate, so too has the number of tour operators to meet the rising demand-including the African Walking Company, with whom I climbed.

Founded in 1999, the company has emerged as one of most well respected outfits, noted for its workers and sustainability for the environment and ensuring the safe movement of thousands of visitors each year. The porters and guides are not only paid above the recommended minimum wage, but they are also offered training courses, including first aid, guiding skills and English language lessons. For me, though, the real secret of the AWC's success is the confidence they instill in even the most tremulous climber faced with the mammoth task ahead. The support team of 56 porters, guides and cooks assigned to our group of 14 is organized with military precision.

The route up Kilimanjaro is winding and diverse, passing through jungle and scree fields before rising above the tree line, where the mountain features only snow and rock. The Senecio Forest lies along the Machame route, just below where it combines with the Lemosho. By summit day, my flesh and bone have become lead- I am disoriented, altitude-addled lump. There are no calls to "pole, pole" at this stage- I find I am incapable of doing anything else. Not too exhausted, however,

to notice that the promised lunar eclipse has failed to *materialize*. Nothing could have prepared me for what would turn out to be the most physically and mentally grueling experience of my life.

C. Tourism

1. The best title for the reading text above can be:

A. The Kilimanjaro Challenge

5.

В.	The traveler's	memory		D. The clever guide	е					
2.	In paragraph 1	the writer tells u	ıs thatmy oxyg	en-starved body is	What	does she mean				
	when she says t	that her body wa	s oxygen-starve	! ?						
A.	She was exhausted due to the long journey									
В.	The air grew thinner and thinner as she was at the highest peak of the mountain									
C.	Her body was d	ehydrated as sh	e spent ascending	and descending alon	g the	way				
D.	She carried little oxygen before climbing.									
3.	Why did the wr	Why did the writer describe the porters and guides of the African Walks Company as mountain								
	goats? It was pr	obably because :								
A.	They were able	e to leap up and o	lown Mount Kilin	nanjaro like mountair	n goats	3				
В.	They were capa	ble of jumping th	nroughout their jo	urney						
C.	They could man	nage 49 kilomete	rs on the Lemosho	route						
D.	They were as sh	nort as goats								
4.	Based on the writer's opinion, the real secret of AWC's success is because:									
A.	the porters and guides are highly paid									
В.	they are also of	fered training co	urses							
C.	of the confidence	e they instilled i	n							
D.	they were not p	aid at a minimu	m wage							
Acc	cording to the pa	ssage, %	of the support tea	m was travelling witl	h the v	writer.				
	A. 25	В. Б	50	C. 75		D. 35				
6.	According to the	e passage, which	of the following v	vas not part of the joi	nt tea	m of the support				
	team?									
A.	Cooks	B. Porters	C.	Doctors	D.	Guides				
7.	" <i>this</i> " paragrap	h 1 line 5 refers	to							
A.	Kilimanjaro	B. Tanzania	a C.	Ben Nevis	D.	Snowdon				
8.	For me, 'me'	paragraph 3 line	e 5 refers to:							
A.	The writer	B. The	guide	C. The porter		D. The cook				
9.	According to the	e passage the wr	iter is a Scottish j	professional in mount	ain cli	imbing.				
A.	True		В.	False						
10.	The writer belie	The writer believes that the African Walking Company has emerged as one of most well								
	respected outfit	s, for its workers	and sustainabili	ty for the environmer	nt.					

A. '	Γrue			B. False					
11.	Based on the infor	rmation from the pass	sage, mount	tains in Scotlar	nd and Wal	les are higher than			
	other mountains in	n Africa including Mo	unt Kilima	njaro. A. True	B. False	e			
12.	'wage' paragraph	3 line 4 means							
A.	payment	B. labor	C. 1	title	D.	respect			
13.	The main purpose	of paragraph 4 is to:							
A.	describe the panor	amic view of Mount K	Kilimanjaro						
В.	introduce the chall	lenging route of Moun	ıt Kilimanja	aro as you clim	b up				
C.	provide evidence v	why the AWC has emo	erged as on	e of most well 1	respected o	outfits			
D.	show that the num	ber of tourists has in	creased dra	amatically.					
12.	In paragraph 4, it	is stated that:							
A.	Lemosho route is le	ocated in the Senecio	Forest						
В.	the Senecio Forest	t lies along Lemosho ı	route						
C.	Lemosho route lie	s along the the Senec	io Forest						
D.	the Senecio Forest	lies along the Macha	me route						
13.	Based on the passa	age, the highest topog	raphy of M	ount Kilimanja	ıro is				
A.	scree fields	B. snow and rock	C . 1	forest	D.	bushy field			
14.	instill paragraph	3 line 6 means							
A.	develop	B. avoid	C. (escape	D.	live			
15.	The attitude of the	writer to the guides	and porters	s of the AWC s	eems to be	:			
A.	Positive	B. Negative	C.	Unknown	D.	. bad			
16.	In paragraph 4, the	e writer states that	.I find inca	pable of doing	anything e	lse. This was becaus			
A.	she was exhausted	[
В.	she noticed that th	e promised lunar ecli	pse has fail	led to materiali	ze				
C.	No one calls to "p	oole, pole" at this stag	e						
D.	she was disoriente	d							
17.	paragraph 4 line 6	materialize means							
A.	happen	B. enter	C. (construct	D.	rise			
18.	The most physicall	ly and mentally gruel	ing experie	nce of writer's	life is her:				
A.	book entitled: "Kili	imanjaro"	C.	journey to Scot	tland				
В.	climbing at Mount	t Kilimanjaro	D.	mountains in V	Wales				
19.	This piece of writing	ng may be written to:							
A.	educate students		C. (conduct investi	gation				
В.	entertain people		D. 1	urge people					
20.	, guides and cool	ks assigned to our gro	up of 14 is	organized with	military p	recision. Paragraph			
	3 line 7. What does	B line 7. What does the writer mean when she states "organized with military precision?"							

A.	The guides and porters showed genuine time management						
В.	The guides and porters were reluctant to share se	cret	s				
C.	They were cooperative only when danger encount	ered	the travelers				
D.	There were some military personnel with them.						
21.	<i>'it'</i> paragraph 4 line 3 refers to						
A.	Mount Kilimanjaro	C.	Senecio Forest				
В.	Lemosho	D.	Machame route				
22.	'this' paragraph 4 line 4 refers to						
A.	The rock	C.	The jungle				
В.	The summit day	D.	The field				
23.	In the passage, it is stated that the number of adv	ent	ure tourists continues to				
A.	increase	C.	fall				
В.	decrease D. remain the same						
24.	4. The starting point of the summit at Kilimanjaro is						
A.	Lemosho route	C.	The Senecio Forest				
В.	Londorossi Gate	D.	Machame				
25.	The writer describes Scotland's Ben Nevis and Mo	ount	Snowdon in Wales as <i>molehills</i> in				
	comparison to Mount Kilimanjaro to mean that						
A.	Kilimanjaro is shorter						
В.	The bases of both mountains are Molehills						
C.	They are similar in topography						
D.	Kilimanjaro is the highest						
26.	Inferring from the passage, 'pole' that was used by	y th	e writer can be a new word from				
A.	Zulu B. Swahili	C.	Arabic D. English				
27.	They' paragraph 3 line 3 refers to						
A.	Tourists	C.	Cooks assigned to the group				
В.	The porters and guides D. Soldiers						
28.	8. Which of the following benefit was not provided to AWC porters and guides?						
A.	Scholarship						
В.	first aid training						
C.	training on guiding skills						
D.	English language lesson						

A. increasing dramatically

B. decreasing at a startling rate

Appendix B: Postt	est Readin	g comprehensior	a Questions
Name	Gender_	Department	Year of study
İ. Read the f	ollowing pa	ssage and answer	the questions that follow.
Family ph	ysicians – a	n endangered spec	ries?
Many Canadians are awa	are that prob	lems with the nation	i's health care system have resulted in a lack of
hospital beds and medica	l equipment,	overcrowded emerge	ency rooms, long surgical and diagnostic waiting
lists, and not enough long	g term care h	omes. But with 3.6 n	nillion Canadians unable to find a family doctor,
a particularly insidious	and growing	problem is making it	self evident.
The family doctor	or is the cor	nerstone of the nati	on's health care system. The vast majority of
Canadians have said mar	ny times over	that they want thei	r family doctor to be their first point of contact
in the health care syster	n. Neverthele	ess, family doctors a	re becoming a dying breed. With diminishing
access to that first point	of contact, n	nany Canadians in r	need of medical help are finding it increasingly
difficult to receive timely	and appropri	ate care. In my provi	nce of British
Columbia, the conserva	itive estimat	te is that 200,000 E	British Columbians looking for a family doctor
cannot find one.			
There are many	reasons for t	this predicament .	Over the last 10 years, the number of medical
students choosing family	practice as t	heir lifelong career l	has been dropping at a startling rate. It used to
be that 50% of students c	hose family p	practice as their first	choice. As of 1997, that proportion had fallen to
35%; in 2004, it has decli	ned further to	o 24%. At a time who	en the population is living longer and increasing
in size, these are alarmin	g statistics.		
When asked why	they lack into	erest in family medic	ine, students cite a daunting student debt load
(often more than \$100,00	00 upon grad	uation) and the long	hours required of a doctor \mathbf{who} is managing a
family practice. As in oth	er kinds of w	vork, young doctors t	oday want a balance between their professional
and personal lives.			
1. What does the title su	ıggest about f	family doctors?	
A. They are no longer		C	. They will soon become extinct.
B. They are too few i		D	
•			
2. Over the last 10 years	s, the number	of medical students	choosing family practice as their lifelong
career has been dropp	oing at a star	tling rate. It means	that students choice on family practice
has been			

C. growing graduallyD. remaining the same

3. The writer mentions 200,000 British Columb	pians to show that Canadians
A. have adequate health care	C. have diminishing access to public health
B. cannot find health officers	D. cannot find a family doctor
4. According to the article, which step does not	need to be taken to remedy?
A. Encourage a healthy lifestyle	C. Reduce student debt load
B. Family practice	D. Restructure expectations of young doctors
5. What is the primary purpose of the article?	
A. to inspire young people to consider a care	er as a family doctor
B. to inform readers about the day to day st	resses placed on a family doctor
C. to make readers feel sympathy for the dis	fficulties experienced by family doctors
D. to convince readers that the declining nu	mber of family doctors must be addressed
6. Based on the information in the passage, the	e most important of the Canadian health care system is
A. Family planning	C Malaria
B. The family doctor	D. Contagious diseases
7. In 2004, the number of students who chose it	amily practice declined to
A. 35% B. 50%	C. 12% D. 24
8. Which of the following was not a factor for th	ne declining of family doctor in Canada?
A. population is living longer	C. economic instability
B. population is increasing in size	D. students' choice
9. The cost share for a medical doctor graduate	e can be the primary cause for the lack of
A. students' interest in family medicine	C. poor quality education
B. death of people in malaria affected areas	D. low economic progress
10. Canadians have never been aware of the cau	se of the health care system
A. True	B. False
11. Canadians need to get British family doctors	s
A. True	B. False
12. The number of students who want to be a far	nily doctor is increasing alarmingly
A. True	B. False
13. Young doctors today want a balance between	n their professional and personal lives in terms of being a
family doctor. A. True	B. False
14. According to the passage, the writer lives in	British Columbia
A. True	B. False
15. Which of the following problems is not stated	l as the Canadian health care system?
A. low quality of medicines	C. lack of medical equipment
B. lack of hospital beds	D. overcrowded emergency rooms

16. It is stated in the passa	age that the number of Ca	nadians that are unabl	le to find a family doctor is
A. 200, 000	B. 500,000	C. 3.6 million	D. 1.2 million
17. According to medical st	tudents, what is responsib	le for their reluctance	to become family physicians?
A. student debt and lo	ong working hours	C. limited numb	er of places in medical school
B. high malpractice in	surance premiums	D. an increasing	g number of patients
18. Insidious paragraph 1	l line 4 means		
A. causing serious har	m	C. known	
B. helping to improve		D. stagnant	
19. Diminishing paragra	aph 2 line 4 means		
A. becoming large		C. equalizing	
B. becoming small		D. increasing	
20. startling paragraph 3	line 2 means		
A. common	B. surprising	C. slow	D. gradual
21. dying breed paragrap	oh 2 line 3 means		
A. decreasing	B. increasing	C. fast	D. slow
22. predicament paragra	ph 3 line 1 means		
A. comfort	B. difficulty	C. Safety	D. Solution
23. daunting paragrap	h 4 line 1 means		
A. making less confide	nt	C. supporting	
B. encouraging		D. revising	
24. conservative paragr	aph 2 line 6 means		
A. lower than the give	n	C. Accurate	
B. higher than the giv	ren	D. Imagination	
25. they paragraph 2 line	2 refers to		
A. Canadians	B. British	C. doctors	D. students
26. who paragraph 4 line	2 refers to		
A. a teacher	B. a student	C. a doctor	D. a merchant
27. their paragraph 2 line	2 refers to		
A. Doctors'	B. Canadians	C. Farmers	D. Patients
28. it paragraph 2 line 4 re	efers to		
A. education	B. medical help	C. sport	D. tax
29. itself paragraph 1 line	4 refers to		
A. finding a doctor	B. hospital	C. equipment	D. nation

30. **their** paragraph 3 line 2 refers to

- A. Nurses
- B. medical students
- C. Farmers
- D. Doctor

Appendix C: Item Difficulty of Pre and Posttest Reading comprehension questions Pretest Reading Comprehension Questions Items with Item Difficulty

Item	Item difficulty	Item	Item difficulty
1.	0.61	16.	0.51
2.	0.19	17.	0.77
3.	0.61	18.	0.38
4.	0.42	19.	0.17
5.	0.50	20.	0.59
6.	0.18	21.	0.79
7.	0.90	22.	0.16
8.	0.57	23.	0.54
9.	0.54	24.	0.75
10.	0.77	25.	0.45
11.	0.36	26.	0.77
12.	0.81	27.	0.91
13.	0.44	28.	0.62
14.	0.55	29.	0.16
15.	0.42	30.	0.75

Posttest Reading Comprehension Questions Items with Item Difficulty

Item	Item difficulty	Item	Item difficulty
1.	0.75	16.	0.81
2.	0.27	17.	0.75
3.	0.77	18.	0.27
4.	0.51	19.	0.36
5.	0.78	20.	0.50
6.	0.44	21.	0.57
7.	0.62	22.	0.66
8.	0.79	23.	0.55
9.	0.77	24.	0.62
10.	0.81	25.	0.45

11.	0.51	26.	0.77
12.	0.81	27.	0.29
13.	0.61	28.	0.75
14.	0.54	29.	0.57
15.	0.54	30.	0.45

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