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INVESTIGATION OF THE IMPACT OF COMPUTERIZED DYNAMIC ASSESSMENT ON LISTENING COMPREHENSION TESTS BY ARAB POSTGRADUATE EFL STUDENTS AT UUM

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Abstract

The current study aimed to answer the questions: Is following there statistically significant difference between the test-takers actual and mediated scores in the listening test? Can computerized dynamAssessmentent reveal the test-takers LP in the listening question types? Is there statistically significant difference between the number of hints in the Question types across the levels of the listening ability?.48 Arab postgraduate EFL students who attended an intensive English course at UUM were participants in this study? To mediate the test-takers with hints to process the listening questions, computer software developed, and it produced three types of scores: Actual, negotiated, and learning potential. The current study's findings emphasized the significant differences between the actual and mediated scores with various listening ability levels in almost all the question types. Generally, the results indicated that computerized dynamAssessmentent had a significant and positive effect on the improvement of proficiency of Arab EFL learners on the dialogue and monologue tasks. Using dynamAssessmentent was recommended incredibly computerized by teachers, dynamAssessmentent in particular, as the

information gained from this assessment mode empowers teachers to provide learners with more individualized and accordingly more effective teaching and assessment techniques and strategies in a sociocultural context.

Keywords:computerised,impact,assessmen arab,postgraduate etc

Introduction

This study put forward alternative assessment approach and its relationships with learning based Vygotsky's Socio-Cultural Theory (SCT) of mind (1978), as well as the concepts of computerized dynamAssessmentent (C-DA) in the TOEFL iBT listening test. DynamAssessmentent (DA) questions the classical perceptions about teaching aAssessmentent by mergiAssessmentent and instruction into a seamless task where various forms of support and mediation are undertaken to unveil the cognitive and metacognitive strategies of the test-takers (Lidz&Gindis, 2003). The other challenges affect the association between teaching and aAssessmentent lie within the mediators' lack of familiarity with DA

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conceptions and a myriad of theories underpinning how DA and C-DA are carried out (Poehner, 2008). Therefore, teachers most often find themselves at a loss to take the challenges of developing suitable assessment tools, implementing inferring outcomes processes, and (Torrance & Pryor, 1998). Instead, they employ several practices and tasks such as cloze tests, group assignments, and tests but with a theoretical understanding of assessment methods are such implemented to inform the test-takers ability. Such traditional approaches to Assessment are more likely to yield wrong inferences about the test-takers ability, especially when they emanate from a fuzzy overview of the construct, such as listening comprehension.

Although washback the EffectEffect explores the influence of Assessment on teaching, DA practitioners reverse this association by allocating more importance to teaching. That is, to conneAssessmentent to education, the assessment processes should emerge from well-established inquiry instructional activities and educational performances as carried out in the classroom (Poehner, 2008) to enable teachers to be engaged in a more active role in ascertaining the relevant assessment practices to the learners' potential. Teachers should not limit their testing methods, nor should they test the test-takers performance with a single final achievement test.

Recently, there has been a lot of research on onliAssessmentent and how it is used to promote and facilitate learning. For instance, (Wang, 2008) recorded the

online leading role learners can have without the mediators' presence. From a Vygotskyan perspective, this sociocultural and active e-learning context is given its due momentum. Both learning aAssessmentent are seamlessly merged, using software to put forward hints based on the learners' answers. Vygotsky's theory promotes the process rather than the product to understand learning and development where "the potential development varies independently actual development, meaning that the latter, in and of itself, cannot be used to predict the former" (Lantolf& Thorne, 2006, p. 328).

Review of the Literature

DA applies Vygotsky's SCT of mind Assessment in language learning, offering new language classroom insights and information to improve interventions. For Grigorenko (2002), DA is changing the assessment procedures and shifting toward a new assessment philosophy that focuses on the role of intervention in helping individuals develop. Lidz (1995) praised the DA test-intervention-retest format for altering the test-takers learning behavior. For Poehner (2007), DA is an ongoing and contextualized activity that engages the learners to unveil their underlying potential to change their learning behavior.

Vygotsky's SCT of mind perceives learning as a social process, and that human intelligence generates in a sociocultural context where mutual interactions become fundamental in

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cognitive development. He believed everything is learned by interacting with others and integrating into the individuals' mental structure. The Zone of Proximal Development (ZPD) is determined by the learners' ability to benefit from mediation; wheassessmentent assesses this size and describes the learners' changing ability to assistance. with collaboratiAssessmentent of the learners' abilities is a predictor of their functioning rather than a measure of independent performance. Therefore, the ZPD is assessed within this shared activity. The assisted version represents the learners' maturity of psychological functions where mediation applies traditional artifacts, notions, and accomplishments (Lantolf& Thorne, 2006) to regulate the individuals' mental and social activity. However, when the learning experience is not mediated, learners might face tremendous difficulties coming to grips with the learning reality (Feuerstein & Feuerstein, 1991).

The C-DA form used in this study was conducted through a computer where learners received online mediation through sets of prefabricated hints. According to Poehner and Lantolf (2013), the potential score (LPS) considers the learning difference between the learners' actual and mediated scores, using this formula: "LPS = (2 * mediated score -actual score) / maximum score" (Kouzlin& Grab, 2002). The mediated score is the culmination of the score emanating from mediation, a software program, or a human mediator (Poehner&Lantolf, 2013). In the current study, the mediated score is computed by deducting the hints' frequencies from the total score of each item. For example, if the item's total score was three (3), and the learner used two hints to get the correct answer, the mediated score would be one (1). The hints and prompts were gradually organized from implicit to explicit to make the learning ability as malleable as possible.

Similar to DA, C-DA is grounded in the theoretical framework of Vygotsky (1978/1986). With the development of various technological tools, Dixon-Krauss (1996) recommended their application to realize Vygotsky's vision of designing lessons in a way that simplifies teaching. In interventionist DA, "a prefabricated and fixed set of clues and hints is determined in advance and offered to learners as they move through a test item by item" (Poehner&Lantolf 2010, p. 318). C-DA provides a more in-depth discovery of the learner's capabilities (Tzuriel& Shamir, 2002). It can additionally act as a classroom teacher to mediate the learners in their ZPD (Crook, 1991).

Defining Listening

Listening is extensively (Scarcella& Oxford, 1992) in second language learning, yet it is the least explicit skill (Vandergrift, 2004). It holds key role in communication (Mendelsohn, 1994) as "an active and conscious process where the listener constructs meaning by using cues from information and contextual existing knowledge while relying upon multiple strategic resources to fulfill the task requirement" (O'Malley, ChamotKupper, 1989, p. 19). Interpreting the listening input is contingent upon "the cognitive environment of the listener" (Buck, 2001,

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p. 29). This makes listening to an active and inferential process (Buck, 2001; Rost, 2002), and for the listening message to be decoded, it has to rely on the prior and linguistic knowledge (Underwood, 1989; Vandergrift, 2007). Vandergrift (2007) stated that listening is at the heart of learning any language. It is problematical active process where the test-taker must distinguish sounds, understand stress and intonation, recognize vocabulary and grammatical structure, and relate them to a particular context. Two cognitive processes are involved in listening: Top-down and bottom-up. While the former is about interpreting meaning using background knowledge or schemata, the latter linearly involves generating sense from the smallest to the largest spoken unit (Nunan, 1998). In the current study, listening is operationally defined as the test-takers ability to get the correct answer using the predetermined hints online environment. The mediated score only represents this ability.

The impact of DA on language such as listening, has been investigated throughout the last two decades. For instance, Ableeva (2008) implemented DA and concluded that the difficulties in learning French uncovered the learners' unique ZPD, unlike the case with the non-dynamic pre-test. Likewise, Alavi, Kaivanpanah, and Shabani (2011) contended that group DA prepared for collaboration and interaction by highlighting standard Additionally, the Author (2014) developed a DA listening test using static and DA approaches and concluded that DA was conducive to understanding the cognitive and metacognitive listening processes. Ghahremani (2013) tackled the Effect of summative, formative, and DA on learning listening and recorded that the learners in the dynamic group outperformed the other In addition, Emadi and groups. Arabmofrad (2015)showcased comprehensive account of interactive listening and found that DA instructions boosted the test-takers initiate to developmental changes. HashemiShahraki et al. (2015) conducted a study to estimate test-takers listening conversational implicatures of pragmatic knowledge and conveyed that the mediational support improved their practical grasp conversational implicatures. For Wang (2015), DA of listening enhances the amalgamation of Assessment and instruction.

Several investigations have identified the possible Effect of C-DA on language skills. For example, Jacobs's (1998) Kidtalk software used a sequence of computerized tasks to assess pre-school learners' ability. Additionally, Birjandi and Ebadi (2012) implemented a similar automated context to gauge the developmental levels of the verbal command and found a significant correlation between the more advanced ZPD and the fewer time learners spent interacting with the mediator. Also, Poehner et al. (2015) designed online multiple-choice (MC) tests of L2 listening in which each test item is tagged along implicit explicit graduated to prompts. The results indicated significant differences between the actual mediated scores. In the same vein, Heidari

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and Afgari (2015) addressed a web-based investigation on EFL learners' sociocognitive progress through DA of listening and stressed the actual learners' ability and the diagnosis and Assessment potential of the developmental listening level.

Rationale and problem

The only interventionist study on C-DA of listening was carried out by Poehner et al. (2015). They addressed one of the main issues in applied linguistics, whethAssessmentent and instruction affect each other. What relationship can there be between education and aAssessmentent? Concerns have arisen over "teaching to the test" and the "power" that tests have gained to control instruction down and narrow the curriculum where teaching aAssessmentent are perceived as mutually exclusive (McNamara, 2001; Shohamy, 2001). It can then be deducted that testing and teaching have been treated as two separate specializations, each having its well-recognized professional journals and conferences. The first step is needed to debate how "interventions based upon the results of dynamic testing provide superior gains" (Elliott, 2003, p. 189). Therefore, this study aimed to show a significant difference between the test-takers actual and mediated scores in the listening test. The other purpose was to indicate how Can computerized dynamAssessmentent reveals the test-takers LP in the listening question types. In addition, it aimed to show if there is any statistically significant difference between the number of hints in the Question types across the levels of the listening ability.

Method

The participants of this study were 48Arab postgraduate EFL learners attending an English intensive course at UUM. They had to take the English language course because of their low performance in English. The test-takers age varied from 20 to 36, and they were mainly selected through the convenience sampling procedure. A placement test was administered to a larger pool of test-takers only, of which 40, who scored IELTS band 5 to 6, were selected to attend the English language course. The instrument used was an adapted C-DA TOEFL listening test where the test-takers listened to two lectures and dialogues and then received 16 MC questions to answer in 70 minutes. Data collection consisted of five phases: Test preparation, piloting, hints development, software preparation, description, and test administration.

The listening test consisted of three classroom lectures, two dialogues, and 34 test items in test preparation. For practical reasons, the listening test was trimmed. Five question types, main idea, attitude, function, detail, and inference, were utilized. In phase two, test piloting, the test was piloted on a group of 30 EFL learners with almost the exact characteristics of the target group. Score Cronbach's alpha, reliability, estimated at 0.823, and the results of item analysis retained all items since no item was found to be faulty. In phase three, hints' preparation, the test-takers were given two academic lectures and two dialogues, and 16 questions to answer. Three implicit to explicit indications were prepared for each of the listening items. Eight TOEFL teachers checked, adjusted,

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and validated the predetermined clues for

validity

purposes.

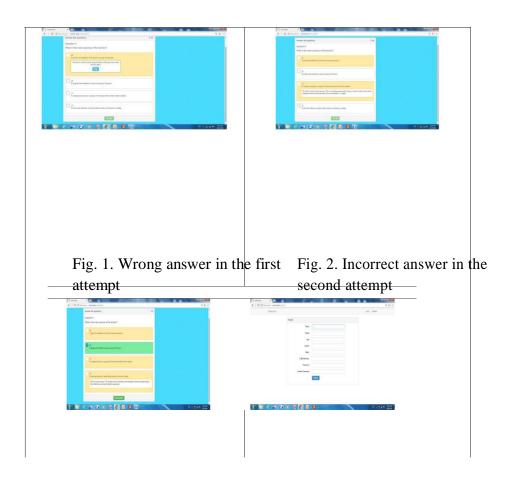


Fig. 3. Wrong answer in the third

attempt Fig. 4. Opening page

Fig. 5. Instruction page of the online Fig. 6. Actual and mediated test scores

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In phase four, software preparation and description, a computer software expertdesigned software to test listening dynamically by offering the test-takers some prepared hints. The software is comprised of three parts: The opening page (Figure 4), the test (a sample of some answers is presented in Figures 1-3), and the scoring file (Figure 6). On the opening page of the software (Figure 4), test-takers were asked to insert their details. The following section describes the software (Figure 5, see Appendix A for a detailed description of the instructions). In the first section, the test-takers listened to a threeminute dialogue, followed by the first Question. If the first attempt was correct, the test-takers could view an explanation for the right option before tackling the next item. If their first attempt was incorrect, a hint was provided, and it asked them to listen again to a part of the conversation.

In the case of the correct answers, an explanation was displayed before proceeding to the next item. If the second trial was incorrect, a more explicit hint was displayed. However, if the test-takers failed to select one answer within three minutes, they were systematically moved to the next Question. The following is an example of the hints:

What is the primary purpose of the lecture?

- a. To point out similarities in Emerson's essays and poems.
- b. To prepare the students to read an essay by Emerson

c. To compare Emerson's concept of Universal truth to that of other authors, d. To show the influence of early united society on Emerson's writing

Hint One: No, that is not the correct answer. Listen to this part of the lecture once more and try again.

Hint Two: No, that is not the correct answer. This is a central purpose question, and you need to watch out for minor details and look for the main topic of the conversation. Try again.

Hint Three: No, (b) is the correct answer. The professor tries to introduce some thoughts so that the students keep them in mind while they are doing that night's assignment.

If the correct answer is chosen in the first place:

Yes, (b) is the right answer. The professor tries to introduce some thoughts so that the students keep them in mind while they are doing that night's assignment.

In phase five, the software's scoring procedure yielded three sets of scores: Actual, mediated, and LP upon finishing the test. The actual score received three (3) marks if the test-takers answered correctly; if not, it would be zero (0). However, the mediated score was weighted so that a test-taker received each mediating prompt; one mark was deducted. Therefore, for any given item, the test-takers actual score was zero (0) to three, but their mediated score could extend from zero (0) to three (3), depending upon the used number of hints. Finally, an LPS was calculated for each test-taker using Kozulin and Garb formula

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(2002). In the last phase, test administration, the test was administered after a formal approval had been received from the ethical committee. Before administering the test, the instructions were explained in Persian, where the test-takers were informed about the purpose of the study and the test procedure using the software.

Results and Discussion

The reliability coefficient analysis (Table 1) displayed a good Cronbach's alpha value (α =.752) in the actual and mediated types of scores, totaling 32. To examine the construct validity of these scores, the PCA¹ of the rotated component matrix of the actual and mediated scores designated that the factors loaded at higher values ranging from .90

to.95. In table 2, the researcher presented the descriptive statistics of the actual and mediated scores. The actual scores had values of 7.35 (SD=9.07), 7.63 (SD=4.17), 7.81 (SD=9.22), and 7.44 (SD=4.73), and 9.02 (SD=4.77) for attitude, detail, function, inference and main idea, respectively. The SD values in attitude and function were higher than the other question types, indicating that the test-takers scores in detail, inference, and main idea items were relatively closer. In contrast, the test-takers scores in the attitude and function items were more spread. The mean of the mediated scores in attitude (M=10.41;SD=7.91), detail (M=10.68;SD=4.52), inference (M=10.16; SD=5.12), and main idea (M= 10.51; SD=5.45) items were lower than the function items (M=11.74; SD=7.73).

Table 1 Reliability Statistics of Actual and Mediated Scores (n=185)

Cronbach's Alpha	Number of Items
.752	32

¹Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 6 iterations.

Table 2 Total Actual and Mediated Scores (n=185)

Total actual scores	Total mediated scores
Min. Max. Mean SE	SD Min. Max. Mean SE SD

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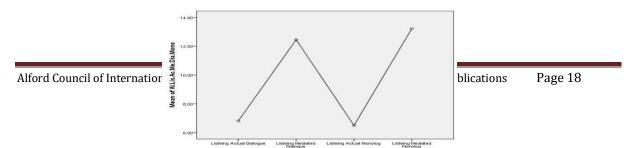
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.58 7.91	_
.33 4.52	
.56 7.73	
.37 5.12	
.40 5.45	
.37	5.12

The paired t-test, Table 3, shows a statistically significant difference in the actual and mediated scores (column 8) and that the mediated mean scores outperformed the actual ones. The actual means ran from 7.35 (attitude) to 9.02 (main idea), and from 10.16 (inference) to 11.74 (function) for the mediated means. However, the homogeneity of test-takers scores in actual and mediated responses was relatively the same.

Table 3 Actual and Mediated Scores (n=185)

		Mean	SD	SEM	t-value	df	Sig.
Pair 1	main. Idea.actual	9.02	4.77	.35	-3.90	184	.00
	main.idea.mediated	10.51	5.45	.40			
Pair 2	function.actual	7.81	9.22	.67	-5.25	184	.00
	function.mediated	11.74	7.73	.56			
Pair 3	attitude.actual	7.35	9.07	.66	-4.53	184	.00
	Attitude. mediated	10.41	7.91	.58			
Pair 4	inference. actual	7.44	4.73	.34	-5.94	184	.00
	Inference. mediated	10.16	5.12	.37			
Pair 5	detail.actual	7.63	4.17	.30	-6.09	184	.00
	Detail. mediated	10.68	4.52	.33			

Figure 7 introduces the descriptive statistics of the actual and mediated scores of the dialogue and monologue listening input, moving from 6.81 (column 2) and 6.49 to 12.45 and 13.22, respectively. Moreover, the mediated scores in both contexts were more homogenous than the actual ones, thus leading to better improvements and more homogeneity of scores.



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Fig. 7. Dialogue and monologue actual and mediated scores

Concerning the multiple comparisons of the actual and mediated scores in dialogue and monologue tasks, Table 4 demonstrated no significant difference (column 5, with values of .80 and .10) between the natural and mediated scores in dialogue and monologue contexts. At the same time, it was not the case between the other pairs of comparisons with a significant level of p=<.000.

Table 4 Dialogue and Monologue Comparisons of Actual and Mediated Scores (n=185)

(I)	(J)				95% Co	onfidence Interval
Fac. Al.Actual.	Factor.Analysis	(I-J)				
Mediated. Dialogu						
Actual.Mediated.I	Dialogue.	Mean			Lower B	ound Upper
Monologue	Monologue	Difference	SE	Sig.	Bound	The office
Actual dialogue	Mediated dialogue	-5.64*	.31	.00	-6.51	-4.76
	Actual monologue	.312	.31	.80	56	1.18
	Mediated monologue	-6.41*	.31	.00	-7.28	-5.53
Mediated dialogue	Actual monologue	5.95	.31	.00	5.08	6.82
Actual monologue	Mediated monologue	76	.31	.10	-1.64	.10
	_					
	Mediated monologue	-6.72*	.31	.00	-7.59	-5.85

^{*.} The mean difference is significant at the 0.05 level.

The descriptive statistics of the LPSs in the various item types, Table 5, demonstrated that the LPS in function item types (=.39) was the highest, followed by attitude (=.30), detail (=.30), inference (=.27), and main idea (=0.14) item types. The median scores of detail item types were the highest (.55), followed by inference and main idea item types (.23 and .22). The median of function and attitude item types was zero (0), implying the test-takers lacked other

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hints to answer correctly. Another challenging issue in the minimum LP of all item types was negative with -1.33, -2.00, -1.50, and -1.22 due to other latent variables that distracted the test-takers from answering correctly.

	Table 5 Descriptive Statistics of LPSs (n=185)							
	Main Idea	Function	Attitude	Inference	Detail			
Mean	.14	.392	.30	.27	.30			
Median	.22	.00	.00	.33	.55			
Mode	.00	.00	.00	.50	.89			
SD	.51	1.01	.919	.62	.679			
Min.	-1.33	-2.00	-2.00	-1.50	-1.22			
Max.	.89	2.00	2.00	1.33	1.33			

Table 6 gives data on the LP in the five-question types. The LP of the main idea items went from -1.33 to. 89 with 16.2% of the test-takers who had an LP of 0.00. The function LP items varied from -2 to .2, and the mode of function question types was 1.33, which represented a high LP and positive EffectEffect of mediation. The function LP item type indicated that the mediated practices were influential in reaching the correct answers. The LP of attitude items differed from -2 to .2 with a mode of 0.00. The attitude LP specified that54.1% of the test-takers had an LP below 0.00. The LP of inference items extended from -1.33 to 1.33 with a mode of .50. The detail LP items ranged from -1.22 to 1.33 with 0.89. The wide variety of the LPSs in the detail part meant that the items were more accessible to the test-takers.

Table (6) LP of the Questions Types (n=185)

Main		Function)	Attitud		Inferen	С		
Idea		n		e		e		Detail	
LP	%	LP	%	LP	%	LP	%	LP	%
-1.33	.5	-2.00	7.6	-2.00	5.4	-1.33	1.1	-1.22	1.1
-1.33	1.1	-1.33	1.1	-1.33	3.8	-1.17	.5	-1.11	2.2

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-1.11	2.7	67	8.1	67	6.5	-1.00	3.8	-1.00	2.2
89	4.3	.00	34.1	.00	38.4	83	1.1	89	2.7
67	4.3	.67	10.3	.67	17.3	83	1.1	78	1.6
44	.5	.67	.5	1.33	24.9	67	3.8	78	2.2
44	3.8	1.33	31.9	1.33	2.2	67	1.6	67	1.1
22	2.2	1.33	2.2	2.00	1.6	50	3.8	67	2.2
22	1.1	2.00	4.3	Total	100.0	33	1.6	56	2.2
22	.5	Total	100.0			33	1.1	56	2.2
.00	16.2					17	2.2	44	3.8
.22	12.4					17	.5	33	1.6
.22	.5					.00	8.6	33	.5
.22	4.9					.17	1.6	33	.5
.44	3.2					.17	1.1	22	1.6
.44	2.2					.17	3.8	11	.5
.44	15.1					.33	10.8	.00	.5
.44	3.2					.33	1.6	.22	1.1
.67	11.9					.33	2.2	.33	4.3
.67	4.9					.50	13.0	.33	.5
.89	2.2					.67	4.9	.33	1.6
.89	2.2					.67	11.4	.44	7.6
Total	100.0					.83	3.8	.44	2.7
						.83	.5	.56	6.5
						1.00	8.6	.56	3.8
						1.17	1.1	.67	3.8
						1.33	4.3	.67	6.5

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Total	100.0	.78	2.2
		.78	5.4
		.89	13.5
		1.00	3.8
		1.11	5.4
		1.22	1.6
		1.33	.5
		Total	100.0

To compare the number of hints across the ability levels, a series of Chi-Square analyses, Table 7, was performed. The test-takers were classified based on four relatively equal groups, while their actual scores were examined based on their language ability. The majority of the test-takers clustered around the moderate and moderate-high levels with 48.64% and a low percentage of 14.0 high achievers. (n=48).As shown in the table below:

Table(7) Test-takers' Listening Ability Levels

Ability level	Frequency	Percent
Low	34	18.37
Moderate low	34	18.37
Moderate high	56	30.27
High	26	14.05
Tota1		100

The results of a series of Chi-square analyses of the mediated scores, Table 8, revealed there were statistically significant differences (p=<.00, p=<.01) in using hints in the main idea dialogue, function dialogue, attitude dialogue, detail monologue, inference monologue, main idea dialogue, inference dialogue, detail monologue questions types. However, no statistically significant differences were found in detail monologue (19), inference dialogue (24), and central idea monologue (16) question types.

A paired t-test was carried out, Table 9, and it represented a statistically significant difference in the actual and mediated scores. Therefore, the null hypothesis that the hints could support the test-takers could be safely rejected. The descriptive statistics confirmed that the mediated scores' mean scores outperformed their actual scores.

Table 8 A Sample of the Significance Level Hints in Question Types Across Ability Levels (n=185)

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	Mediated ability l	evels	Mean rank	Chi- square	df	sig
1. main idea.dialogue	low	34	56.24	15.215	3	.00
	moderate low	34	67.74			
	Moderate high	56	85.73			
	High	26	88.81			
2.function.dialogue	low	34	49.29	20.705	3	.00
	moderate low	34	74.34			
	Moderate high	56	85.99			
	High	26	88.69			
3.attitude.dialogue	low	34	58.59	17.690	3	.00
	moderate low	34	62.82			
	Moderate high	56	85.07			
	High	26	93.58			
	Total	150				
4. main idea.monologue	low	34	63.53	5.035	3	.16
	moderate low	34	81.78			
	Moderate high	56	74.66			
	High	26	84.75			
	Total	150				
5.detail.monologue	low	34	59.74	10.598	3	.01
	moderate low	34	75.13			
	Moderate high	56	76.90			
	High	26	93.58			
6.detail.monologue	Total	150				

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	low	34	53.29	21.475	3	.00
	moderate low	34	80.56			
	Moderate high	56	74.04			
	High	26	101.08			
	Total	150				
7. inference. monologue	low	34	59.15	16.217	3	.00
	moderate low	34	64.21			
	Moderate high	56	83.18			
	High	26	95.12			
	Total	150				
9.main.idea.dialogue	low	34	59.09	13.805	3	.00
	moderate	34	69.29			
	Moderate high	56	79.41			
	High	26	96.65			
	Total	150				
10.inference.dialogue	low	34	62.04	5.315	3	.15
	moderate low	34	77.54			
	Moderate high	56	78.15			
	High	26	84.71			
	Total	150				
11.inference.dialogue	low	34	52.68	17.422	3	.00
	moderate low	34	72.62			
	Moderate high	56	82.64			
	High	26	93.73			

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Total low moderate Moderate high High Total	150 34 34 56 26 150	63.91 80.78 76.04 82.58	4.183	3	.24
moderate Moderate high High Total	345626	80.78 76.04	4.183	3	.24
Moderate high High Total	56 26	76.04			
High Total	26				
Total		82.58			
	150				
low					
	34	59.50	12.170	3	.00
moderate low	34	71.79			
Moderate high	56	77.86			
High	26	96.19			
Total	150				
low	34	66.90	7.699	3	.05
moderate low	34	77.49			
Moderate high	56	70.92			
High	26	94.02			
Total	150				
low	34	62.34	4.704	3	.19
moderate low	34	80.21			
Moderate high	56	78.11			
High	26	80.94			
Total	150				
	Moderate high High Total low moderate low Moderate high High Total low moderate low Moderate high High High	Moderate high 56 High 26 Total 150 low 34 moderate low 34 Moderate high 56 High 26 Total 150 low 34 moderate low 34 Moderate high 56 High 56 High 26	Moderate high 56 77.86 High 26 96.19 Total 150 low 34 66.90 moderate low 34 77.49 Moderate high 56 70.92 High 26 94.02 Total 150 low 34 62.34 moderate low 34 80.21 Moderate high 56 78.11 High 26 80.94	Moderate high 56 77.86 High 26 96.19 Total 150 low 34 66.90 7.699 moderate low 34 77.49 Moderate high 56 70.92 High 26 94.02 Total 150 low 34 62.34 4.704 moderate low 34 80.21 Moderate high 56 78.11 High 26 80.94	Moderate high 56 77.86 High 26 96.19 Total 150 low 34 66.90 7.699 3 moderate low 34 77.49 Moderate high 56 70.92 High 26 94.02 Total 150 low 34 62.34 4.704 3 moderate low 34 80.21 Moderate high 56 78.11 High 26 80.94

Table 9 A Sample of Test-takers' Actual and Mediated Performance as per Question Types (n=185)

				t-		
Question Types	Mean	SD	SEM	value	df	Sig.

VS Publications

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Pair 1	1.actual.mainidea.dialogue	1.02	1.42	.10	-13.9	184	.00
	1.mediated.mainidea.dialog ue	1.99	.96	.07			
Pair 2	2.actual.function.dialogue	1.00	1.41	.10	-13.7	184	.00
	2.mediated.function.dialogu e	2.01	.93	.06			
Pair 3	3.actual.attitude.dialogue	1.02	1.42	.10	-14.8	184	.00
	3.mediated.attitude.dialogue	2.05	.89	.06			
Pair 4	4.actual.mainidea.monologu e	.92	1.38	.10	-13.7	184	.00
	4.mediated.mainidea.monol ogue	1.88	1.00	.07			
Pair 5	5.actual.detail.monologue	.77	1.31	.09	-16.8	184	.00
	5.mediated.detail.monologu e	1.92	.89	.06			
Pair 7	7.actual.inference.monologu e	.95	1.40	.10	-15.6	184	.00
	7.mediated.inference.monol ogue	2.01	.87	.06			
Pair 10	10.actual.inference.dialogue	.92	1.38	.10	-15.3	184	.00
	10.mediated.inference.dialo gue	1.94	.90	.06			
Pair 12	12.actual.detail.dialogue	1.20	1.47	.10	-12.6	184	.00
	12.mediated.detail.dialogue	2.09	.91	.06			
	15.mediated.detail.monolog ue	2.08	.91	.06			

The sample comparison, Table 9 (8 pairs out of 16), made clear that there was a statistically significant difference between the test-takers' actual mediated scores as to the various question types including the main idea dialogue, pair 1, column 6, (T (47)= - 13.9, p < = .00), function dialogue, pair 2, (T (48) = -13.7, p < = .00), attitude monologue, pair 3, (T (47)= -14.8, p < = .00), main idea monologue, pair 4, (T (47)= -13.7, p < = .00), detail monologue, pair 5, (T p < = .00), (47) =-16.8, inference monologue, pair 7, (T (47)= -15.6, p < = .00), attitude dialogue (T (47)= -14.8, p < = .00), inference dialogue, pair 10, (T (47)=-15.3, p<=.00), detail dialogue, pair 12, (T (47)= -12.6, p < = .00), and purpose monologue (T (184)= -13.5, p < =.00).

Discussion

Results of the study proved that a complete understanding of the listening ability required active intervention in its development. Accordingly, this shifts the classical view of Assessment to a more interventionist one by accentuating the process rather than the product. The current study echoed the findings of other DA studies (e.g., Lantlof&Poehner, 2008; Poehneret al., 2015), who argued that DA offers a diagnostic understanding of the test-takers difficulties through provision of particular predetermined hints and prompts during the assessment process. The results suggested that C-DA, i.e., the integration of teaching aAssessmentent software via with predetermined suggestions, could serve as a mere diagnosis of the test-takers ability both in the ZAD and ZPD. This

integration was efficient in probing the test-taker's LP. The findings could be supported because DA creates a supportive atmosphere to highlight the test-taker's further learning and improvement by judging their ZAD and ZPD (Ahmadi&Barabadi, 2014).

the test-takers Moreover. significant improvement from the actual to mediated performance could typically be attributed to the aspects of C-DA that could eliminate any possible learning handicaps. DA procedures helped activate the metacognitive listening strategies, which was in line with other studies (e.g., Ajideh, &Nourdad, 2013; Alavi, KaivanpanahShabani, 2012; Haywood 2007; Pishghadam&Barabadi, &Lidz, 2012; Poehner, 2007). Concerning the types' LP. the question findings highlighted that the highest LP was in the function items, followed by the main idea, attitude, detail, and inference items. Therefore, gaining information about this potential could allow the language learners to have an accurate picture of their capabilities (e.g., Peña et al., 2001). This aspect was reflected in the current study, especially when the C-DA hints spontaneously promoted the test-takers to self-assess their ability. Also. statistically significant difference was found between high, moderate-high, moderate-low, and low achievers in the number of hints used in almost all questions types, except for the inference and detail items. This showed that the testtakers in the diverse listening ability levels recourse tended to have to their multifarious traits to answer the main idea, attitude, and function items, while mainly

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relying on the allocated hints to answer detail and inference items.

The results highlighted the significant and positive difference in the actual and mediated performances of the test-takers in the monologue and dialogue parts. However, like other studies (e.g., Ableeva, 2008; Poehneret al., 2014; and Shrestha& Coffin, 2012), no significant difference was found in the actual and mediated scores in the dialogue and monologue contexts. This implicated that the test-takers brought into play their cognitive abilities in taking advantage of the hints in the monologue and dialogue types. Consequently, assessing listening in the dialogue and monologue contexts dynamically involved the test-takers in joint activities to overcome task difficulty and attain the level where they could construct meaning in an independent and self-governing way (Author, 2014, 2017). Further, DA attends to the development and learning and supports discovering the test-takers developing capabilities that are different from their actual skills (Shrestha& Coffin, 2012). However, Anton (2009) argued that educators could misrepresent the test-takers qualifications if they rely on only traditional assessments. The study's findings in this respect agree with other studies (e.g., Ahmadi&Barabadi, 2014; Anton, 2009; Haywood &Lidz, 2007; Author, 2014, 2017; Poehner&Lantolf, 2005).

A high LPS meant that the test-takers ZPD level was typically close to their own ZAD when the targeted capability was close to internalization (Kozulin& Garb, 2002). Conversely, a low LPS was evidenced by

test-takers the need for more predetermined hints and some external assistance to internalize the targeted LP in Along with Ouestion. this conceptualization, it was reflected that the EFL learners with a low LPS in the study took advantage of much more mediation of predetermined hints than those EFL learners with high LPS. The findings of this study are congruent with Kozulin and Garb's study (2002). However, to the researchers' knowledge, regarding the difference between the numbers of hints applied for each Question type of listening, no study was found to scrutinize the difference between the variables above directly. Finally, the statistically significant difference between the testtaker's actual and mediated performances meant a significantly higher performance in the mediated performance than their actual performance one. This efficiency of C-DA for the test-takers language development in general and listening, in particular, is reported by other studies (e.g., AhmadiSafa&Jafari, 2017; Alavi, Kaivanpanah&Shabani, 2012: Lantolf&Aljaafreh 1995; Sadeghi& Khan Ahmadi, 2011).

Overall, this study supports C-DA's positive effect on EFL learners' listening ability. Applying various formats of DA procedure, encompassing C-DA in a sociocultural context, is regarded as an essential step to shifting the paradigm of movement" "teaching to the test (Shohamy, 2001) to a "testing to the teaching movement" whose true objective would be to serve and guide test-takers to independently. Mediation learn potentially activate past knowledge, raise

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consciousness, and help to boost active learning. And it is in this regard that the current study should be contextualized.

Implications, Limitations, and Recommendations

Several features of C-DA, namely improving the test-takers listening ability and providing information about their LPSs, could empower the language teachers and material and test designers to use such types of assessments interactively and productively. To this end, C-DA offered both EFL learners hints which engaged them with the appropriate tools to diagnose problems and find remedies to the listening problems, and language teachers to understand the test-takers LP in the Question types for which there is no need for a tutorial to reflect language testtakers ZAD and those for which a tutorial brings about correct responses to integrate language test-takers (Poehner&Lantolf, 2013). Additionally, the findings of this study bespoke the support role computers and software can give language teachers and test developers in implementing the main principles of DA, permitting educators to assess a large number of the test-takers dynamically simultaneously. Since C-DA allowed for learners' self-assessment and such reassessment, a procedure encourages and inspires language learners to join the language learning and assessment process essentially. Curriculum and material developers are recommended to use C-DA so that test-takers are no longer language dependent upon their teachers to be assessed and detect their progress. In other

words, with the availability of C-DA, language learners can consider and reassess themselves as many times as required, and such an opportunity naturally might pave the way to becoming autonomous language learners.

The first delimitation of this study rested on the use of the interventionist approach, and the main limitation of C-DA was that the chances of coconstructing the ZPD decreased (Poehner, 2008). Lidz and Gindis (2003), like the case with this study, stated that integration arises as the intervention is intertwined with the assessment process to explain the test-takers capabilities and assist them in reaching more challenging levels. Kozulin (2003) argues that test-takers cognitive development mainly depends on mastering these instruments; however, these tools might not function successfully without a mediator. Hence, the limited aspects of C-DA in making the test-takers reach their full potential.

findings indicated C-DA's Since the significant and positive impact improving test-takers listening ability, EFL learners in similar contexts can take advantage of such a procedure to enhance their listening ability. Furthermore, EFL teachers should encourage their learners to participate in DA activities individually, in pairs, or in groups. C-DA had a significant and positive impact on listening monologues and dialogues of TOEFL, and perhaps EFL teachers are recommended to implement this model Assessment in various language courses. Educational decision-makers and teachers initiate ways to use and apply C-DA and

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traditional standardized tests. However, to garner more generalizable data regarding C-DA effectiveness, other language skills and even subskills such as vocabulary needed to be explored using the same type of Assessment. Curriculum and material developers are recommended to focus on DA and C-DA and suggest various materials and user-friendly software in class. This study can be replicated on other high-stakes tests by considering a proportionate number of males and females. This study was carried out among learners within the age span of 20-36 years old; the same research could be done among a different age group to check the probable EffectEffect of age on performance.

Conclusion

This study could be perceived as a timely contribution to the other works undertaken on **References:**

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integrating C-DA and learning. As stated by many researchers, C-DA is regarded as innovative in the field of DA. It empowers educators with tools and strategies to assess test-takers dynamically simultaneously, thus making Assessment an authentic socio-cognitive activity that needs to be shared by the different participants. Unlike other studies (e.g., Author, 2019), applying C-DA puts forward the opportunity for the testtakers to be assessed and reassessed several times and generates an instant scoring profile of each test-taker. Using C-DA does not eliminating suggest other types of assessments, such as traditionAssessmentent from the educational system of language learning and teaching. It is believed that both CD-DA and traditionAssessmentent are naturally complementary rather than contradictory.

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• Wang, T. H. (2008). Web-based quizgame-like formatiAssessmentent: Development and evaluation. Computers & Education, 51(3), 1247-1263 You have 4 minutes to answer each question. If you do not answer the question in 4 minutes, you will automatically be moved to the next Question.

Remember, you can receive the HINTS if you only click on the TRY button. If you click on the Next button, you will not be able to go back to the previous Question.

Your personal information will be safe with us.

Thank you for your cooperation.

Appendix A

Dear Test-Takers, Please read the instruction carefully. This software is designed to test and help you improve your listening comprehension ability in TOEFL IBT.

You will hear two academic lectures and two conversations at the university and get 18 questions to answer. By clicking on the PLAY icon, you will be able to listen to the conversation or lecture only once. And then click on the ANSWER THE QUESTIONS button to start answering the questions about each part. If you answer a question correctly in the first place, you will get an explanation why for example, choice (A) is the correct answer. If you choose an incorrect answer, a HINT will be given to you, which is listening to a part of the conversation or lecture by clicking on the PLAY icon, and you can try again. If you choose the wrong answer, another HINT will be given to you, which is written, and you can try another option. If you cannot select the correct answer, the correct answer will be given to you and an explanation. Then by clicking on the NEXT QUESTION button, you can move to the next Question. If you answer a question in the first place, you will get the total score, but by using each HINT, you will lose a score from the total score of that Question.