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# Assessing English Language Teachers' Initiation of Discourse in the Light of Teaching Experience and Learners' Proficiency Level

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## ABSTRACT

The pattern dominating Classroom discourse is Initiation-Response-Feedback (IRF) and the initiation move normally takes the form of questions asked by teachers. The questions might be either referential or inferential and classroom research has accentuated the role these questions can play in eliciting learner output with the latter more likely conducive to meaning-focused output. However, what still awaits scrutiny is the extent to which teachers tend to activate learners' semantic and syntactic processing by using appropriate questions and how their experience might mediate their choices at varying proficiency levels. Hence, the present descriptive study set out to compare the frequency of inferential and referential questions employed by novice and experienced teachers to initiate interaction at lower-intermediate (LI) and upper-intermediate (UI) levels. For the purpose of the study, a purposive sample of 20 English classrooms were selected at nine branches of an English institute in Tabriz, Iran. The classrooms were taught by five novice and five experienced teachers. Using a semi-structured researcher-made and piloted observation form, the classroom procedures were observed, recorded, and transcribed. The transcribed data were further analyzed employing the standardized coding system proposed by Long and Sato (1983) as a seven-category taxonomy of functions of teacher questions. The results revealed that experienced teachers used significantly more referential questions at both LI and UI levels. In contrast, novice teachers were found to use significantly more inferential questions at both LI and upper intermediate levels. Pedagogical implications of the findings will be discussed.

Keywords: Classroom Discourse; Inferential Questions; IRF; Referential Questions; Teaching Experience

## **INTRODUCTION**

Second and foreign language learning can be described as a complicated, multifaceted, and dynamic process within which success is a relative notion and noticeably reliant on a wide range of contextual features relevant to learners and the instructional context. Regardless of such variables, though, research findings in the last few decades have consistently stressed the distinction of negotiation for meaning in enhancing learners' communicative competence (Ellis, 2015; Ortega, 2009). In the last quarter of the 20th century, the attempts of cognitive interactionists to describe how negotiation for meaning develops in varying contexts and how interaction enriches learners' comprehension underscored the distinctive interactional patterns dominating ESL and EFL contexts (Guzel, 2022; Long, 1996; Swain, 1985; Young, 2011). Advocates of the sociocultural theory (Lantalf & Aljaafreh, 1995; Nassaji & Swain, 2000). conversation analysis (Seedhouse, 2005; Kasper, 2006; Mori, 2007), and socialization theory (Duff, 2007; Garrett & Baquedano-Lopez, 2002) have highlighted the social nature of learning and general consensus has been reached over the the facilitative role of interaction (Long, 1996) as a means of engaging learners in semantic processing of the input that is interactionally modified and syntactically processed through attention to meaning and form (Ellis & Shintani, 2014). The application of the findings from social perspective on language learning to classroom entails outlining and investigating unique features of formal instruction such as teacher-student (T/S) interaction that may have a bearing on learning outcomes. The dominant pattern governing classroom discourse, however, is Initiation-Response-Feedback (IRF) where the teachers' initiation can have profound impacts on the type of response from the student.

It has been widely recognized that more than half of the class time in EFL or ESL classrooms is taken up by question-and-answer exchanges. This classroom discourse pattern is one of the teachers' tools to maximize learners' engagement and followingly what can profoundly impact the quality of this participation is the type of question asked by the teacher. Interaction can occur in an English classroom as well and one of the most significant characteristics of a classroom discourse is that it follows a quite distinctive and expected structure, encompassing the teacher's initiating (I) the discourse, learners' responses (R), and the teachers' feedback (F) on that response, known as IRF (Sinclair & Coulthard, 1975; Swain & Lapkin, 2001). First turns are always initiated by teachers using different types of questions. Most researchers have agreed that questions can help learners to improve their language proficiency (Liu & Le, 2012). Accordingly, various classifications of questions have been suggested. Liu and Le (2012), for instance, have identified four types of factual, reasoning, opening, and social questions while Ellis (1994) made a distinction between display or inferential, that are inputoriented and demand lower level processing of information and referential questions that profound necessitate more processing mechanisms that allow the learners to express their opinions and share information. Furthermore, Brown (2001) defines display questions as questions for which the teacher knows the answer in advance, and which involve a single or short response of the lowlevel thinking kind where referential questions require deeper levels of processing on the part of the learner and longer responses that are not known to the teacher. These questions, according to Brock (1986), help to elicit more interaction and meaningful negotiation and viably more learning.

The teachers' questions are of great value for many educational purposes, Adedoyin (2010) believes, and can enhance students' reflection, and questioning, as well as deepen student comprehension and engagement in the classroom. Teacher questioning is an integral part of the process of teaching. With reference to what Cotton (1988) has reported about questioning, regarding popularity that questioning possesses after giving instructions, teachers in the classroom spend between thirty and fifty percent of their teaching time conducting question sessions (Hamiloglu & Temiz, 2012). Richards and Lockhart (1996) also stated that the exchange of questions and answers takes almost half of the class time. As a result, questioning has a vital function and countless studies have been carried out for this reason (Almeida, Pedrosa de Jesus & Watts, 2008; Chin and Osborne, 2008; Graesser and Olde, 2003). The positions that questions take within the classroom can take many forms, including questions for the purpose of understanding monitoring, ties to prior learning, and cognitive development stimulation.

From this perspective, the paramount importance of initial questions asked is accentuated in terms of the impact they may have on the nature of interaction and communication that follows in teacher-fronted settings in which asking the right type of questions can give students ample amount of talk time. Highly teacher-fronted Iranian language classrooms are typically marked with the use of questions to stimulate interaction and communication or to manage classroom procedures. However, the very nature of the questions asked can be anti-pedagogic (Marzban et al., 2010) and as Banafshi, Khodabande, & Hemmati (2020) indicate, may have detrimental effects on learning outcomes given the fact that teachers might tend to take the floor and dominate classroom discourse depriving students of the restricted opportunities, they have for engaging in communication.

The aim of the present work is to investigate the utilization of referential and inferential questions in the initiation of initiation- response- feedback (IRF) pattern with upperintermediate and lowerintermediate learners with regard to the teachers' experience. The importance of the present study resides in the deepening the understanding the of various features of such questions, engaging learners in interactions and ways of varying the sequence toward more authentic interactions by modifying the quality of the initial questions asked by the teacher.

### LITERATURE REVIEW

Classroom discourse has a number of characteristics that discriminate it from unplanned conversations in other interactive settings. Most of these features associate with the teacher's role and power (Lin, 2007), that is, teachers control the learners' contribution in the discourse by initiating most linguistic exchanges, determining turns, and having the right to the third move which is mostly feedback or evaluation. According to Crespo (2002), the adequacy of a question depends on the degree to which pre-determined objectives are accomplished. For example, for a teacher who is practicing inductive teaching, convergent questions are most suitable. To expose or encourage students' vocabulary and spelling knowledge, a language teacher can ask convergent questions. Thus, as Epstein (2003) has stated, the use of proper questions needs a strong method of planning. Questioning, primarily within the IRF sequence, is a universally used activation technique in teaching. It is difficult for ESL students to use English well, according to Yang (2017), while classroom questioning is one of the most basic methods of fostering communication between teachers and students, so it is becoming more and more relevant in teaching in the classroom. Besides, Fries (2008) considers questioning strategy as one of the most important dimensions of teaching and learning which should be activated to promote achievement. He further claims that questioning gives tutors the chance to find out what students know and understand, and it allows students to ask for clarification and help.

As Ortega-Auquilla, Hidalgo-Camacho, & Heras-Urgiles (2019)state, classroom communication and interaction both have facilitative roles for second language (L2) development. One of the factors that may guide teachers in employing the right type of their question might be professional knowledge as well as their teaching experience which seems to improve teaching self-efficacy (Chan, 2008). To what extent, however, can teaching experience illuminate teachers' understanding of how to tailor their questions to learners' characteristics at varying levels of proficiency? Several studies have been conducted to investigate the differences (David, 2007; Shomoossi, 2004). The results of the study conducted by Shomoossi (2004) indicated that that display questions were utilized by teachers more frequently than referential questions. Moreover, it was concluded that NOT all referential questions could generate enough interaction. Similarly, in his study in 2007, David concluded that teachers used more display questions rather than referential questions and referential questions create less classroom interaction than display questions.

Forster, Penny, and Shalofsky (2019) examined the role of questions in scientific conversation. Specific purposes of the study were for novice teachers to expand their understanding of quality questioning in primary science and its possible effect on children's intellectual engagement. They identified definite ways in which their practice of questioning could be improved and put these into practice in a follow-up lesson with the same children which verified their overreliant on questions as their default strategy.

In a different study in 2019, Milawati and Survati investigated the type and effectiveness of EFL teachers' oral questioning. Classroom observations, field notes, and videotape recording, were utilized to collect the data. The findings revealed that among four types of questioning strategies, redirecting was the most frequently used to initiate students' responses and to analyze students' understanding. Other findings manifested that low-cognitive questions were common. Of those, knowledge-based questions were the most frequently used in order to confirm students' understanding of the materials they learned. however, the higher-level questions were rarely used. It was similarly found out that the teacher employed questioning strategies ineffectively to manage the class, insufficient time responded to a complex level of questions, and the number of questions created confusion. Some changes to create effective classroom questioning and a stronger connection between the level of question and the questioning strategies were discussed. Evidence proved that teacher question can assist EFL students in various purposes in teaching learning process. Nevertheless, teacher's lack of knowledge about questioning taxonomy could cause a failure in leading students' learning.

Claiming that classroom questioning can be considered a key element in the promotion of student engagement, Ribeiro, Rosário, Moreira and Cunha (2019) examined the number and type of questions asked by the teacher and by the students in the classroom and analyzed their perceptions about the significance of classroom questioning. The results suggested that the teacher and most students consider questioning significant for student learning. However, it was found that 93% of the questions were asked by teacher and that loworder questions predominated classroom discourse.

In 2020, Susantara and Myartawan analyzed the types of teacher questions, the purposes of the teacher in asking questions, and student answers to the teacher questions in the English classroom. The result of the analysis showed that the teacher more frequently asked convergent and display questions rather than divergent and referential questions; however, procedural questions were also found. They confirmed that the teacher's questions served several aims such as to develop students' interests and curiosity, to observe students' knowledge, and to diagnose students' difficulties in the learning process. Kucuktepe and Cakmakci (2021) investigated practicing teachers' opinions about questioning skills, strategies and types. In their qualitative research, they interviewed 52 primary school class teachers who were working in state and private schools in Istanbul. They found that the school class teachers primary mostly concentrated evaluation, employed on questions measuring the information possessed by students and attributed the benefit of asking questions to the feedbacks elicited. The researchers highlighted the need for seminars and in-service teacher training programs to raise teachers' awareness of questioning strategies.

Similarly, in 2021, Svanes and Andersson-Bakken investigated the functions of open questions in whole-class teaching in language classrooms in an elementary school, and examined how these questions may work as a mediating tool. The findings of their study showed that the teacher use of asking open questions has one fundamental function which is classroom management. The teachers likewise ask open questions that are more subject oriented, and the material covers writing activities and orthography and grammar instruction. The functions of open questions are quite similar in the two data sets. They finally concluded that the teachers' open questions can mediate an understanding of school culture and the values of the subject to the students, in this case how writing activities and grammar instruction should be interpreted.

Due to the claim that teacher questions have long been considered important in mediating students' learning in language classrooms, Liu and Gillies (2021) examined the mediated-learning behaviors involved in teachers' questions during whole-class instruction in high schools in China. The study suggested that the interactions initiated by referential questions contain more varieties of mediated-learning behaviors. This study suggested that teachers are supposed to be encouraged to use referential questions more frequently whether in display interactions or in referential interactions.

The existing literature unravel a recent focus on questions as the initiating move in classroom discourse (e.g., Aflalo & Raviv, 2020; Tsui, 2008; Van Lier, 2000); however, what has been overlooked is the learner teachers' characteristics like proficiency and teaching experience that might moderate their use of appropriate questions. In addition, many EFL teachers might not yet be quite cognizant of the extent to which the questions they ask engage learners in mere recitation of information newly presented or let them link the teaching content to their background by making inferences. Lack of sensitivity to learners' proficiency level in selecting the right question type may spoil this very limited interactional opportunity within the confines of language classrooms. Some timid LI learners might feel reserved to produce longer stretches of response while UI leaners' lack of interest in fixed and restricted interaction might be linked to the nature of questions asked by the teacher. The question awaiting further scrutiny is, thus, the extent to which Iranians EFL teachers apply referential question to elicit more genuine interaction in their classrooms and whether teachers' use of such questions may vary in terms of learners' proficiency level or the teachers' experience.

Hence, the current study aimed to explore novice and experienced Iranian EFL teachers' use of referential and inferential question types as the initiation of IRF pattern in teaching learners at LI and UI levels of proficiency. The significance of this study can be attributed to the detailed information it can provide which may serve to develop teachers and educators' perspectives on the issue, help teachers develop a better understanding of the questions they deploy, suggest ways of varying the sequence toward more authentic interactions by modifying the quality of the initial questions asked by the teacher. The following research questions were formulated to serve the purpose:

**Q1.** How frequently do novice and experienced teachers employ inferential and referential questions to initiate interaction at LI level?

**Q2.** How frequently do novice and experienced teachers employ inferential and referential questions to initiate interaction at UI level?

**Q3.** Is there any significant difference between novice and experienced teachers in terms of the inferential questions while initiating interaction at LI abd UI level?

**Q4.** Is there any significant difference between novice and experienced teachers in terms of the referntial questions while initiating interaction at LI abd UI level?

### METHOD

### **Participants**

The participants in this study comprised 10 English teachers and their learners in UI and LI classes. The number of learners in each class was 15 on average. The purposive sampling procedure was applied in selecting the teachers who were teaching UI and LI classes regardless of their age, sex, and L1 background. They were selected out of a population of 60 teachers at nine branches of Goldis language institute in Tabriz. The participants were grouped based on Palmer and et.al (2005) and Fuller's (1970) teacher development model: those with one to four years of teaching were regarded as novice and those above five years of teaching were regarded as experienced. The experienced teachers ranged in age from 28 to 39 and varied in experience from 5 to 15 years; likewise, the novice teachers' age range was 24 to 34 and their teaching experience was between 2 and 4 years.

The institutional regulations did not allow for administration of a general English pre-test in 20 classes; thus, the initial homogeneity of the participants was checked by comparing their obtained final scores from the preceding semester. This seemed a viable option to minimize the effect of the limitation we faced in administering the pre-test since the participants had been attending English classes for more than ten successive semesters. Moreover, the study was not directly focused on the participants' homogeneity, but rather on the type of IRF patterns employed by the teachers at two different proficiency levels.

## Materials

The research data in this descriptive interrelational classroom research explored classroom interactions in naturally occurring The research classroom contexts. data comprised audio-recorded flow of classroom interactions that were further transcribed and analyzed based on a validated researcherdesigned observation form and were further tabulated based on the coding system offered by Molinari et al. (2013). The following materials were opted for in this study:

### **The Observation Form**

In order to collect the research data, a semistructured observation form was designed based on (Molinari et al., 2013) views on the factors involved in IRF pattern and the dominant classroom procedures of preview and post-view stages to measure the frequency of teacher-student IRF interactional patterns and the type of questions used in the initiation part during the warm-up, pre-view, and post-view phases of teaching listening, reading, and speaking skills. Writing was intentionally excluded since it is normally treated very lightly in English classes and is assigned as homework. Also, the view stage of teaching was not included in the observation since teacher-student interaction is less likely at this stage when learners are individually involved in comprehending the written or oral texts or planning their task-based speaking in pairs and groups. The main parameter considered in the observation and analysis of teacher-student interaction in each of the lesson stages was the overall number of IRF interactions used as well as

the teachers' referential and inferential question types.

Because it was impossible to access and analyze student-student interactions, we had to limit this analysis to teacher-student interactions typically during the pre-view and post-view stages of teaching. Student-student interactions during the post-view phase of teaching in the form of pair and group-work were also excluded from the analysis.

The content validity of the observation form was assessed by two licensed mentors with more than 10 years of supervising and mentoring English teachers and more than 20 years of teaching English. Further, the finalized observation form was explained to two trained observer mentors who agreed on the fit between the content of the form and the requirements of the study. They were also required to observe four recorded classes taught by an experienced teacher and four by a novice teacher and complete the related forms regarding the IRF and referential and inferential question types used by the teachers. The results were reported in the form of frequencies and the inter-rater reliability was estimated through Cohen's Kappa that revealed a moderate and almost perfect agreement (Altman, 1999; Landis & Koch, 1977) between the ratings of two raters for the IRF (k = .47, p=.000) and referential and inferential question types (k = .71, p = .000).

Having collected the research data, two of the researchers listened to the collected data and transcribed those sections relevant to the warm-up, pre-view and post-view stages. Further, the frequency of IRF interactions occurring at each of these stages as well as the frequency of referential and inferential question types were computed and tabulated.

## The IRF Categorization Framework

Some parts of a useful framework for investigating patterns of classroom interaction proposed by Molinari, et al (2013) were utilized in coding the transcribed data with the addition of (Aljaafreh & Lantolf, 1994). Specific sub-categories of IRF sequence are summarized in Table 1. As illustrated in Table 1, the system provides a detailed coding for the three turns of the IRF interaction. The teachers' initiations are coded according to two categories of function and form. Regarding the function, the initiation can elicit information from an individual using interrogative or yes/no questions or ask for elaboration or clarification of prior output, or address the same question to another student in the same interactive sequence. The teacher may employ a focused (referential) question with only one possible answer or an authentic (inferential) one without a pre-determined response. Learners' answers are coded based on three features of form, whether the response has been requested or not, correctness, showing the quality of the learner's answer as correct, incorrect or not assessable in terms accuracy, and production, if it is minimal, brief and simple comprising one to five words or complex, long and elaborated containing more than five words. The teachers' feedbacks are coded into two categories, one concerning the teachinglearning processes (simple, refusal/missing, elaborate, scaffold, and graduated and contingent) and the second assessing the relational quality.

Table 1

A S	Summary	of	Sub-categor	ies of	f IRF	Pattern
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IRI	F sequences	IRF sub-categories		
I	Initiation	Function	New Elaboration Re-launch	
		Form	Authentic/ inferential Focused/ referential	
	Response	Form	Requested Not requested	
II		Correctness	Correct Partially correct Incorrect Not accessible	
		Production	Minimal Complex Not accessible	
III	Feedback	Teaching-learning process	Simple Elaborate Scaffold Refusal Graduated/ contingent	
		Related quality	Content Non-verbal indicators	

In simple teaching-learning processed, the teacher may either admit the answer as it is or decide to offer some solutions to rectify it. Refusal/missing process involves either the lack of student's response or the teacher's rejection of it. It is possible for the teacher to go one step beyond and offer elaboration on the student's answer, reformulate it, or enrich it by adding detailed information. The focus in the present study was on the frequency and type of questions employed by novice and experienced teachers to initiate interaction at lower and UI levels.

#### **Design and Procedure**

This descriptive ex-post-facto research was undertaken in several steps including selecting sample, developing the research the observation form, recording, transcribing, tabulating and analyzing the data. The first two stages of the study were described in the previous sections of the methodology. The data collection procedure initiated with observing and audio recording three sessions of each LI and UI classes taught by participating novice and experienced teachers making a total of 60 sessions. This did not interfere with the classroom procedure since

all the classes in the observed institutes are constantly recorded based on institutional regulations and the teachers and students are quite used to being observed. To reduce the Hawthorne effect, the teachers were not informed of the focus of the study. Next, the recorded teacher-student exchanges were independently transcribed by two of the researches and 25% of their transcripts were matched with the recorded data by a third experienced teacher to ensure the consistency of transcripts with actual classroom interactions. The transcribed data were then coded based on the analytic framework developed by (Molinari et al., 2013) and the instances of IRF interaction and types of teachers' questions were marked in the observation form and tallied for novice and experienced teachers with respect to the proficiency level of the learners. The inter-rater reliability of the tallies was further estimated. The frequency of experienced and novice teachers' use of inferential and referential questions at the two proficiency levels were measured and further compared via Chi Square test.

# RESULTS

The first research question delved into the frequency of novice and experienced teachers' use of inferential and referential questions at LI level. To answer this research question, the participating novice and experienced teachers at LI were observed and their use of these question types was measured based on the class observation form previously described. The data were further tabulated and statistically analyzed. The results are presented in Table 2.

Table 2

The Frequency of Novice and Experienced Teachers' Use of Referential and Inferential Questions at LI level

Teacher's experience	No		LI
-		Referential	Inferential
	1	30	32
_	2	30	39
	3	39	43
Novice	4	23	33
Ž	5	29	40
-	Total	151	187
-	Perc.	44.67%	55.32%
	1	40	22
-	2	48	21
- v	3	29	8
- uce	4	35	28
	5	34	31
Experienced	Total	186	110
Ш́ –	Perc.	62.83%	37.16%

Table 2 indicates that the novice teachers used more inferential questions (f = 187) than referential questions (f = 151) while, the results were the opposite for the experienced teachers who employed more referential (f =186) than inferential questions (f = 110). The proportion of the two question types to the total number of questions asked by the teachers verified the results; Only 44.67% of the novice teachers' questions were referential compared to the 62.83% of the experienced teachers. With regard to inferential questions, 55.32% of the questions asked by novice teachers' were inferential compared to the 37.16% for the experienced teachers. Hence, it was found that both teachers employed both referential and inferential questions at LI level with novices opting for inferential questions and experienced teachers preferring referential ones.

As demonstrated in Table 3, the novice teachers also employed remarkably more inferential (f = 361) than referential questions (f = 166) whereas experienced teachers' initiation of discourse displayed an equal reliance approximately on both referential (f = 155) and inferential (f = 154)types. The proportion of the two question types to the total number of questions asked by the participating teachers verified the results; from all the questions asked by novice teachers, merely 31.50 were referential compared to the 50.16% of the inferential questions asked by experienced teachers. As for inferential questions, the figure was higher for novice teachers, 68.50%, than the experienced participants, 49.83. Answers to the first two questions were provided inspectionally based on the frequency of the participant teachers' use of the two question types at LI and UI levels and showed conspicuous variations viably attributable to teaching experience. The third and fourth research questions, however, addressed the significance of the observed differences in the use of referential and inferential questions at LI and UI levels, respectively. To answer these research questions, thus, two Chi-square tests were performed on relevant research data and the results are presented in Table 4 for the referential questions and Table 5 for inferential questions.

Table 3

Teacher's experience	No	U	[
		Referential	Inferential
	1	31	67
a	2	35	84
Novice	3	42	71
Ň	4	31	74
	5	27	65
	Total	166	361
	Perc.	31.49%	68.50%
	1	34	36
	2	30	32
	3	28	30
pec	4	30	28
ien	5	33	28
Experienced	Total	155	154
Ex	Perc.	50.16%	49.83%

#### Table 4

Chi-square Tests for the Novice and Experienced Teachers Use of Referential Questions at LI and UI Levels

	Value	Df	Asymp. Sig.	Exact Sig	Exact Sig.
			(2-sided)	(2-sided)	(1-sided)
Pearson Chi-Square	3.141 <sup>a</sup>	1	.076		
Continuity Correction <sup>b</sup>	2.870	1	.090		
Likelihood Ratio	3.143	1	.076		
Fisher's Exact Test				.086	.045
Linear-by-Linear Associ	3.136	1	.077		
N of Valid Cases	658				

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 154.65.

b. Computed only for a 2x2 table

The findings of Chi-Square in Table 4 shows that the value of chi-square for the use of referential questions was not statistically significant,  $\chi^2$  (1, *N*=658) = 2.870, *p* = .090. Therefore, the answer to the fourth research question is negative: There was not any

significant difference between novice and experienced teachers' use of referential questions at LI and UI proficiency levels.

Another Chi-Square test was run to examine the significance of the differences in the participants' use of inferential questions at the two proficiency levels, the results of which

are presented in Table 5.

#### Table 5

	Value	Df	Asymp. Sig. (2-sided)	Exact Sig. (2-sided)	Exact Sig (1-sided)
Pearson Chi-Square	4.369	1	.037		
Continuity Correction <sup>b</sup>	4.050	1	.044		
Likelihood Ratio	4.333	1	.037		
Fisher's Exact Test				.043	.022
Linear-by-Linear Association	4.364	1	.037		
N of Valid Cases	812				

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 96.56.

b. Computed only for a 2x2 table

As shown in Table 5, the chi-square results for the novice and experienced teachers' use of inferential questions at LI and UI levels was statistically significant, X2 (1, N=812) = 4.050, p = .044. Hence, to simply quantify the differences, the effect size of the association between teaching experience and the use of inferential questions across proficiency were computed via the phi coefficient (see Table 6).

#### Table 6

Symmetric Measures	for the Frequency	of Inferential Questions
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		Value	Approx. Sig.
Nominal by Nominal	Phi	.073	.037
Nominal by Nominal	Cramer's V	.073	.037
N of Valid Cases		812	

Table 6 indicates a Phi-value of about .08 (.073) for a  $2 \times 2$  table of the study which, according to Cohen's criteria (1988), represents an association between the teachers' experience and proficiency level of the students with regard to the use inferential questions. That is to say, taking the percentage and frequency of inferential questions asked by the two groups at the two levels of proficiency, one notices that the novice teachers were significantly more trying to encourage the learners to make inferences. In addition, their use of such questions at UI was twice that of the LI level. Likewise, experienced teachers employed more referential questions at UI (49.83%) than at LI (37.16). Yet, this was quite fewer compared to the novice teachers. Therefore, the answer to research question 3 is positive: There was a significant difference between novice and experienced teachers' use of inferential questions at LI and UI proficiency levels.

### DISCUSSION

The findings from the current study examined teachers' use of referential and inferential

questions to initiate discourse in the classroom. This complies with the principle of Sociocultural theory and socio-intractionism (e.g., Mondada & Pekarek Doehler, 2004) that view learning as an initially inter-mental process that is further consolidated intramentally. A major role for the teacher is to scaffold learners' speech withing the Zone of Proximal Development (ZPD). This, however, may not simplistically be equated with asking low-level questions that can be mechanically responded. It rather emphasizes the need for extending learners and pushing him out of his mental comfort zone by attempting to bridge the gaps in the input based on his background knowledge and teacher's supportive speech. The primacy of interaction in language learning has crystalized the paramount of coconstruction of interaction and interactionist research has been provoked by the premise that language improves from communicative necessities in genuine interactions while learners involve in an environment that meaning-focused provides form and interactionally modified input (Norris &

Ortega, 2003). In the current study, experienced teachers were unexpectedly found to rely more heavily than novice teachers on referential questions both at LI and UI levels. That is teaching experience impacted the use of appropriate question types in the wrong way! Although, referential questions may elicit longer responses because learners are quite certain about the authenticity of their responses, overuse of such questions alludes to teachers' perception of learning as a merely cognitive activity and disregard for helping learners' conjecture about what they don't know based on known information.

These findings concerning overuse of referential questions by experienced teachers might reflect their conception of such questions as output generators because, as suggested by Cundale (2001) and Nunan (1987), referential questions engage learners in the exchange of information and negotiation of meaning and thus will enhance the emergence of necessary feedback for eliciting more information from students. However, when the focus of the lesson is on communication, there must be a tendency in asking referential questions to keep the language learners involved (Omari, 2018). Furthermore, researchers such as Nunan (1987) and Thornbury (1996) claim that referential questions will facilitate critical thinking, eliciting students' personal experiences, and responding to individual preferences of students.

A surprising finding concerns the novice teachers' more logical and balanced selection of question types at varying levels of proficiency and compared to experienced counterparts. As such, they are more similar to main stream teachers who prefer inferential questions (David, 2007; Rachmawaty & Ariani, 2018; Yang, 2010) possibly because they are more familiar with the new findings in the field. Conversely, experienced teachers' use of referential questions might be attributed to the fact that they are more preoccupied with eliciting feedback from the learners' to assess their learning (Cundale, 2001; Nunan, 1987; Thornbury, 1996). Omari (2018) seems to take the same stand when he suggests that referential questions should occur more

frequently in a lesson with a communicative focus especially in the EFL contexts. The findings for experienced teachers run counter to those reporting that teachers ask more inferential questions than referential questions (David, 2007; Omari, 2018). In fact, teachers tend to ask inferential questions that they already know the answer to (Scrivener, 2012) possibly owing to the elevated functions they serve including Encouraging critical thinking, eliciting students' personal experiences, and responding to individual preferences of students (Brock, 1986; Cundale, 2001; McGee & Johnson, 2003; Nunan, 1987; Pressley et al., 1990; Thornbury, 1996). Rachmawaty and Ariani's (2018) findings also showed that inferential (test or check) questions were the types mostly preferred by the teachers.

# CONCLUSION

number of Despite а limitations and delimitations in the research methodology, sample size and data collection instruments employed, a number of conclusions might be drawn from the findings from this study. First, the participating teachers' use of referential questions indicated their cognizance of the importance of IRF as a way of engaging learners in interaction and likely assessing their learning. Conversely, restricted use of inferential questions by experienced teachers can accentuate the need for in-service teacher training programs that update their understanding of how to engage learners in higher-level critical thinking by helping them make inferences. In such training programs the focus should be on undeniably pivotal role of negotiated interaction the purpose should be growing realization of IRF as the dominant classroom interactional pattern that can help teachers initiate more effectively and provide scaffolded learner-contingent feedback to facilitate learners' transition from otherregulation to self-regulation. Last but not lease, the study alludes to the effectiveness of observation as a teacher development and teaching enhancement technique because it can provide illuminating insights for the teacher being observed as well as the observer while the observed processes are interactively discussed and assessed in follow-up teacher

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meeting. This might be offered through supervision meeting with practicing teachers. Yet, it needs to be remembered that the quality teacher-supervisor and of the mentor interaction can extremely affect the outcomes. are recommended Supervisors to be abundantly briefed on the aim and the significance of seizing the teachers' attitude by first admiring what they do right and then derive value and satisfaction in upgrading their questioning techniques. It is through such constructive professional exchanges that both novice and experienced teachers can notice ways of modifying the quality of each turn in IRF toward more authentic interactions and develop a better understanding of how to tailor all turns to the needs of the learners.

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