

Defossilization of Fossilized Pragmatic Routines: Corpus-Driven Input-Based and Output-Based Instruction

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Abstract

Mainstream L2 pragmatic research has shown that pragmatic fossilization is quite common among L2 learners at almost all levels of proficiency. This study examined the defossilizing effect of corpus-driven activities on 10 situationally-based pragmatic routines under two instructional conditions, i.e. input-based and outputbased treatments. Participants were 33 advanced EFL learners in two classes in a private English language center. They received instruction in four sessions across two weeks. Before and after the treatment, a WDCT was administered for pretest and posttest purposes. The results of paired-samples and Independent Samples ttests showed that input-enhancement and output-based instructions were effective in defossilization pragmatic routines which had a strong fossilization tendency among learners. Both treatment tasks led to significant increases in learners' comprehension and production of the routines. The output-based group; however, significantly outperformed the input-based group in the production of the routines. The findings indicate that pragmatic instruction can debilitate the fossilization tendencies of pragmatic routines and that different instructional tasks have differential effects on the production and comprehension of pragmatic routines. The pedagogical implication of this study is that a combination of instructionally supported corpusbased tasks would be effective for enhancing EFL learners' ability to comprehend and use routines appropriately in context.

Keywords: Defossilization, Input-based instruction, Output-based instruction, Pragmatic fossilization, Pragmatic routines

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1. Introduction

A common observation among advanced L2 learners is that despite having an acceptable command of grammatical knowledge, they often fail to use language appropriately in different contexts and registers (e.g. Bardovi-Harlig, 1999; Bardovi-Harlig & Hartford, 1990, 1993; Eslami-Rasekh, 2005; Liu, 2006; Roever & Al-Gahtani, 2015; Tajeddin & Hosseinpur, 2014; Woodfield, 2008). The situation is even worse in EFL contexts where limited opportunity for interaction with native speakers of English (Kasper & Rose, 1999) plays a debilitative role in the development of L2 pragmatic competence. The difficulty associated with mastering pragmatic features has led some researchers to conclude that pragmatic competence is the most challenging aspect of the language to master for L2 learners (e.g. Blum-Kulka & Sheffer, 1993). One corollary of this conclusion is that pragmatic components are not only likely but, in some senses, primary candidates for fossilization, particularly in EFL contexts (Romerro-Trillo, 2002; Tajeddin, Alemi, & Pashmforoosh, 2017).

An excursion into fossilization literature, however, shows that, aside from a few noteworthy exceptions (e.g. Hall, 2009; Romerro-Trillo, 2002), previous research has stalled short of studying fossilization and defossilization of pragmatic features. Considering the serious consequences that persistent pragmatic failures can have for L2 speakers, particularly higher proficiency ones (Gass, 1995; Saeko Fukushima, 1990; White, 1993), studying pragmatic fossilization merits attention. In view of the present gap in L2 pragmatic literature regarding the fossilization and defossilization of pragmatic features, the purpose of the present study is to examine the effect of two corpus-based types of instruction, i.e. input-based and output-based, on defossilization of 10 pragmatic routines among advanced Iranian EFL learners with a fossilized competence of these routines.

2. Literature Review

2.1. L2 Fossilization and Defossilization

Fossilization is one of the fundamental constructs in SLA introduced by Selinker (1972) to describe the failure of the vast majority of adult learners to achieve native-like competence in an L2. As a demarcation point between L1 and L2 acquisition, Selinker (1972) defined fossilization as:

A mechanism which is assumed also to exist in the latent psychological structure ... Fossilizable linguistic phenomena are linguistic items, rules, and subsystems which speakers of a particular NL will tend to keep in their IL relative to a particular TL, no matter what the age of the learner or the amount of explanation and instruction he receives in the TL. (p. 215)

Selinker and Lamendella (1979) broadened the scope of fossilization to include all levels of L2 structure and described it as "a relatively permanent cessation of interlanguage (IL) learning before the learner has attained target language norms at all levels of linguistic structure and in all discourse domains in spite of learners' ability, motivation, and opportunity for further progress" (p. 373). Han (2006) took Selinker and Lamendella's (1979) definition one step further and defined fossilization as a competence phenomenon which is manifested only at the discourse level. She justified her claim by drawing on Jakubowicz's (2002) model of syntactic complexity. She argued that complexity and variability are interrelated and noted that those parts of interlanguage which are controlled by discourse-pragmatic conditions, i.e. soft features (Sorace, 2005), require the integration of syntactic knowledge with knowledge from other domains, including semantics, pragmatics, and discourse.

During the past four decades, research on L2 fossilization has mainly been concerned with linguistic errors. A large body of studies has investigated syntactic, morphological, and phonological fossilization (e.g. Lardiere, 1998; Washburn, 1994). However, fossilization in relation to pragmatics has remained relatively unexplored. In a longitudinal study, Lardiere (1998), for example, monitored grammatical errors in the interlanguage of Patty, an adult Chinese ESL learner, for a period of ten years. At the time of data collection, Patty had been living in the USA for ten years and when the final dataset was collected, he had been living there for 20 years. Data comprised three audio-recorded conversations between Patty and the researcher and two grammaticality judgment tasks which were collected cross-sectionally, i.e. at different points in time with regular intervals. Qualitative analysis of the data showed that Patty persisted in producing erroneous morphological markings on verbs over the ten years while her ability to produce extended phrase structures in English was almost native-like. Based on these findings, Lardiere concluded that ESL learners may have access to some aspects of UG including knowledge of abstract syntactic structures. However, they do not have access to the procedures which are needed to extract these structures and apply them to morphophonological forms. He also came up with the conclusion that some aspects of grammar are more prone to fossilization.

In another study, Washburn (1994) assigned 18 undergraduate students at a US university to a fossilized group and a non-fossilized group. The assignment criteria were length of residence and whether or not they had ever failed an ESL course. Participants in the fossilized group had been living in the US from six months to four-and-a-half years and had failed at least one ESL course. Length of residence for those in the non-fossilized group was between five to seven years and they had never failed an ESL course. Three Journal of Modern Research in English Language Studies 5(2),123-145.(2018) types of data collection instruments were utilized: an interview, a grammaticality judgment task, and an imitation task. In addition, all participants engaged in a learning task in which they received instruction on those structures they made errors in the grammaticality judgment task and imitation task. The findings of the study showed that participants in the nonfossilized groups benefited from instruction more than those in the fossilized group. Also, the findings showed that the non-fossilized group had more stability in the production of the correct forms after treatment than the fossilized group.

Despite receiving wide recognition in SLA research, fossilization of soft properties (i.e. discourse-pragmatic features) has remained relatively underexplored. This is in spite of the fact that the existence of pragmatic fossilization has been confirmed by the general findings in most studies showing advanced learners' failure to use the L2 appropriately and effectively after years of formal instruction (e.g. Bardovi-Harlig & Hartford, 1990, 1993; Roever & Al-Gahtani, 2015; Woodfield, 2008). An exception is Romero Trillo's (2002) study which investigated fossilization of DMs in child and adult SLA. He investigated the development of discourse markers in native and non-native child and adult English language speakers. He reported that advanced L2 speakers of English did not have the competence to use discourse markers required in casual conversation and that this leads to pragmatic fossilization. To explain these findings, Romero Trillo hypothesized that EFL learners seem to follow a "binary track" (p. 770) in their L2 linguistic acquisition: the formal vs. the pragmatic track. Development along these two tracks would occur simultaneously in L1 acquisition as a result of exposure to natural language contact. For EFL learners, however, linguistic and pragmatic development would occur through formal instruction and since it is often almost impossible to create (pseudo)-natural foreign language context in formal education, pragmatic competence often lags far behind grammatical competence and it is amenable to fossilization. Accordingly, he explained pragmatic fossilization as "the phenomenon by which a non-native speaker systematically uses certain forms inappropriately at the pragmatic level of communication" (p.770). Arguing in a similar vein, Han (2006) described fossilization as a competence phenomenon which is manifested only at the discourse level.

Employing a typical-error method, Tajeddin et al. (2017) aimed to identify the fossilization tendency of a number of pragmatic routines among 230 Persian-speaking EFL learners from different proficiency levels and explored the likely sources of their fossilization. They administered a pragmatic routines test to the participants and, based on their responses, they determined the common errors committed by most of the participants in all the proficiency groups. Subsequently, retrospective interviews were conducted with 15 highly fossilized advanced learners to explore the likely sources of the typical errors across the three proficiency groups. The findings showed that participants' lack of sociopragmatic knowledge was the main reason underpinning their failures. It was found that first language transfer, lack of knowledge, and overgeneralizations were among the most frequent sources of pragmatic fossilization. The researchers attributed this to the insufficient authentic input EFL learners are exposed to.

A different line of research in fossilization studies has explored the effect of various types of instruction on impeding the fossilization of language features. Vigil and Oller (1976), for example, studied the effect of interactive feedback conditions on determining which linguistic rules of IL system are the potential candidates for fossilization. They distinguished between cognitive and affective feedback as two different facets of feedback and argued that cognitive feedback which is used to exchange information, facts and supposition usually by using language is the most significant destabilizing factor in the development of IL rules although they acknowledge the mediating role that affective feedback which is used to express messages using non-linguistic devices like body language can have in fossilization of either correct or incorrect forms. Following Vigil et al. (1976), Brown (2001) argued that fossilization may be the result of lack of corrective feedback on the part of the teacher to have learners make alternations in their utterances. In a similar vein, Skehan (2002, p. 85) argued that "even within constraints that individual factors have great importance, it is nonetheless accepted that ... types of feedback on learner production can have some impact".

Mukkatash (1986), on the other hand, reported quite different findings. He studied the effect of corrective feedback and grammatical explanation on a set of common errors (e.g. erroneous tenses and relative clauses) made by his adult Arabian students. He found that grammar correction and feedback did not exert a significant influence on defossilizing these errors and his students kept making these errors. He, therefore, argued that systematic error correction and explicit grammar instruction cannot necessarily stop fossilization. In another study, Washburn (1994) reported the partial effectiveness of corrective feedback in defossilizng grammatical errors. He compared the impact of corrective feedback on the grammatical errors made by a fossilized group and a non-fossilized group of learners. The findings demonstrated that the treatment sessions were more effective in the nonfossilized group, leading to faster improvements in accuracy while using the target constructions. In the fossilized group, by contrast, participants learned to use approximately a third of the target constructions accurately and they kept perpetrating the same errors while using the target constructions. The studies on interlanguage defossilization, however, have mainly examined the effect of instruction on defossilizing grammatical features. To the

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128 Journal of Modern Research in English Language Studies 5(2),123-145.(2018) researchers' knowledge, no outstanding study has to date examined the effect of instruction on defossilizing pragmatic features.

2.2. Pragmatic Routines

Pragmatic routines are "highly conventionalized prepatterned expressions whose occurrence is tied to more or less standardized communication situations" (Coulmas, 1981, pp. 2-3) and are essential in dealing with everyday situations. They are generally divided into two types: conversational routines and situationally bound utterances (SBUs) (Kecskes, 2010). While the former is functionally bound, the latter is situationally bound. As noted by Bardovi-Harlig (2012), routines such as you know (House, 2009; Pilcher, 2009) and *I mean* and *you see* (Romero Trillo, 2002) represent functionally bound expressions. As for SBUs, Kesckes (2010) considers them as formulas specific to the context in which they are used. Hall (2009) provides some examples of these routines, including expressions serving as topic-opening (e.g., So what's up with you?), expressions of honorifics (e.g., Your Highness, I am deeply honored), or expressions conveying affective content (e.g., That's what I'm talking about).

House (1996) described pragmatic routines as an integral part of everyday conversations and argued that "it is important to learn routines at any learning stage because they embody the societal knowledge that members of a given speech community share" (p. 226). The findings of several studies have indicated that the representation of pragmatic routines in L2 textbooks is absent, decontextualized, or even inaccurate (Bardovi-Harlig, Mossman, & Vellenga, 2015a; Cohen & Ishihara, 2013; Eisenchlas, 2011; Ishihara & Cohen, 2010; Vellenga, 2004; Williams, 1988), thus, making this aspect of pragmatic competence quite susceptible to fossilization.

Several studies have investigated the effectiveness of corpus-based noticing activities on learners' ability to produce and recognize formulaic expressions. Furniss (2016), for example, examined the effectiveness of input for teaching nine pragmatic routines in Russian which were new to learners. Participants were 34 learners of Russian as a foreign language who were assigned to the control group and the instructional group (N = 18). They took part in a self-paced 4.5-5.0 hours instruction via the web. The pre-test, posttest, and delayed post-test had three subsections: (a) two scenarios which elicited a written response, (b) six multiple-choice scenarios, and (c) an 18-item recognition task. The findings revealed significant improvement in learners' ability to produce appropriate routines from pre-test to post-test in the instructed group. Besides, the analysis of responses to the judgment task demonstrated that the instructed group's ability to recognize non-authentic expressions witnessed a considerable improvement compared with the control group.

Bardovi-Harlig and Vellenga (2012) also used the conversation of the Friends series to teach 30 pragmatic routines. The purpose of the study was to compare the effectiveness of instruction and mere exposure. Participants were divided into two groups; Group A were given noticing activities on the first half of the expressions (Set A) and Group B did the noticing activities on the second half (Set B). The participants took a pretest and then received three one-hour lessons over three weeks. The posttest was administered one week after the final treatment session. Both pretest and posttest measured oral production of the expressions. The findings documented that both instruction and exposure to the expressions were effective for the learners in both groups. Also, Bardovi-Harlig et al. (2015b) supplemented noticing activities with communicative oral practice to teach 16 routines used in academic discussions. In the first part of the instruction, participants were engaged in noticing activities and, in the second part, they were given oral activities in which they were supposed to use the routines they had noticed. The pretest and posttest required oral production of the routines in simulated team works on a computer. Participants were 37 learners in four classes. Two classes received the instructions over a period of two weeks, and two classes served as the control group. The results showed significant improvements in learners' ability to produce the pragmatic routines in the instructed group.

In another corpus-based study, Bardovi-Harlig, Mossman, and Su (2017) compared the effect of using direct corpus searches by learners and studying teacher-developed corpus-based materials on the acquisition of pragmatic routines used for agreement, disagreement, and clarification in academic English discussion in four 50-minute lessons across two to three weeks. The pre- and post-tests were computer-delivered oral tasks consisting of 30 items. Based on the results, significant improvements were made in the oral production of the routines in both treatment groups.

Overall, the general insight gleaned from the literature indicated that noticing activities and oral production activities hold promises for the instruction of pragmatic routines. In studies reviewed, however, the researchers have generally investigated the effectiveness of instruction on a set of randomly selected expressions that were used as the basis for instruction. In the present study, we aimed to explore the use of corpus-based noticing activities and oral production activities on defossilization of routines with fossilization tendencies. To this end, the following research questions were formulated:

1. Do corpus-driven input-based and output-based activities have any significant effect on the defossilization of pragmatic routines among EFL learners?

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2. Is there a significant difference between the performances of the input-enhancement and the output-based groups in the comprehension of pragmatic routines?

3. Is there a significant difference between the performances of the input-enhancement and the output-based groups in the production of the pragmatic routines?

3. Method

3.1. Participants

Participants were 33 advanced learners, consisting of 15 males and 18 females. They were taking part in Cambridge CPE exam preparation courses which, according to the Common European Framework of Reference, are equivalent to advanced proficiency levels. They ranged in age from 18-37 (M = 23.18, SD = 1.17). To select this group of participants, henceforth called "fossilized advanced learners", a written discourse completion test (WDCT) which evaluated learners' ability to employ appropriate pragmatic routines in response to 20 situations was administered to 93 advanced learners who were studying English in a private language institute. At the same time, the test was administered to 32 American native speakers of English online. Learners' responses to the WDCT were compared with those given by native speakers and each response was assigned either 0 or 1 based on whether it was appropriate (1 = appropriate) or inappropriate (0 = inappropriate). Thirty-five learners who fell at least one-half standard deviation (SD) below the mean on the test were considered to possess a fossilized competence of the target pragmatic features.

Participants were randomly assigned to the two modes of treatment, that is, input-enhancement and output-based groups. Two participants in the input-based group participated in only one of the treatment sessions. Consequently, they were excluded from the final analysis of the data. Table 1 below presents gender distribution of participants in the two modes of instruction.

Pragmatic feature	Treatment type	Gender	Total	
		Male	Female	
	Input-based Instruction	9	8	17
Pragmatic Routines	Output-based Instruction	8	10	18
	Total	15	18	33

Table 1

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3.2. Instructional Materials

This study is part of a large-scale study which sought to examine the overriding acquisition regularities of pragmatic routines. In this study, we examined whether and how direct corpus searches by learners is likely to hamper the fossilization tendency of routines. The target of instruction included a total of 10 pragmatic routines which were found to have strong fossilization tendencies in advanced learners' IL based on the findings of a descriptive study conducted prior to this study. These expressions included 'Thanks for having me', saying to the host while leaving a party, to let somebody know you will answer the phone, 'Go ahead', used to let somebody say or do something, 'Long time no see', 'After you', while entering a place, 'You have the wrong number', on the phone, '(you've)mistaken me for someone else', 'sorry to hear that', 'No problem/That's Ok', in response to 'I'm sorry', 'Make yourself at home', saying to a guest to make him feel relaxed, and 'Can I leave a message?', on the phone.

The instruction in both groups was corpus-based. Corpus of Contemporary American English (COCA) was used to design the activities. We contrasted two different approaches to corpus-driven instruction in this study, i.e. input-based and output-based instruction. In both groups, learners were involved in teacher-guided corpus searches for the 10 routines in COCA. This online corpus consists of more than 560 million words, in 2017, from five genres of spoken, fiction, popular magazines, newspapers, and academic journals. The expressions are presented in interactive texts, which make it possible to demonstrate the use of the targeted expressions in context. The routines were randomly divided into four categories and were taught in four treatment sessions. Table 2 shows the focus of each of the four lessons. In the first session, two routines were presented as it was predicted that familiarizing learners with the procedure would take some time. In session four, too, only two routines were taught because the instructor was requested to brief learners on the posttest they would take in the following week.

In both groups, each session began with giving learners cue cards for the routines that were to be covered in that session, the instructions for carrying out the searches, and a noticing activity for each routine. In what follows, an example of the noticing activity for one of the target expressions is presented.

Learners then started searching the target expressions one-by-one, as specified by the instructor. Figure 1 shows the search results for '*Make yourself at home*' in the COCA. As can be seen, in all examples, the expression '*Make yourself at home*' is highlighted, which serves as a kind of

132 Journal of Modern Research in English Language Studies 5(2),123-145.(2018) input-enhancement for helping focus learners' attention on the target features (Eslami & Eslami-Rasekh, 2008).

Table 2

Lessons' Outline

Lesson	Expressions in Focus
(1)	(1) Thanks for having me, (2) Go ahead
(2)	3) After you, (4) You have the wrong number, (5) you've mistaken me for someone else
(3)	(6) No problem/That's Ok, (7) Sorry to hear that, (8) Make yourself at home
(4)	(9) Can I/we leave a message?, (10) Long time no see

Corpus Search Guide for '*Make yourself at home*' (Lesson 3)

A. Search for 'Make yourself at home' in the search box in COCA.

- B. From the given list, open number 1, 3, and 10, and read them carefully.
- C. Now answer the following questions:
- a) In which contexts can we use this expression?
- b) What is the expression used in Persian under similar circumstances?
- c) In what ways is it similar or different from the English one?

Learners' search might have given rise to several corpora in which the target routines had been used. They were, however, asked to check only the first three cases for each routine and read them carefully. Learners in both treatment groups were then expected to do a noticing activity for each routine immediately after carrying out the guided searches. This helped them better recognize different contexts in which the expressions could be used. The noticing activities were the same for both treatment groups. When learners completed the noticing activities, the instructor discussed the expressions with the learners and summarized and emphasized the key points about each routine in both groups. Whenever necessary, the instructor referred to the Persian equivalents of the expressions and the likely similarities or differences. Learners' active participation in the discussions was encouraged by the teacher. The treatment for the input-based group continued likewise for each routine in the next two sessions.

In the output-based group, however, after the corpus search and the instructor's explanations, learners were engaged in production activities as well. The activities were designed in a way to provide the opportunity for the participants to produce the routines in a context with the instructor's guidance. To this end, after searching for all the routines and doing the

noticing activities, learners were given a set of 10 cards. They were required to read the situation on the card and to use a routine to fill in the blanks. The situations on the cards were taken from COCA, but were different from the three excerpts that learners had already read. Learners were required to write their answers on the other side of the card. At the end, the entire class was involved in a discussion of the answers given to each cue card. The instructor monitored and guided the discussions and helped with any possible misunderstandings or problems. The treatment in the output-based group followed the same procedure for two more sessions. Below is given a practice card for '*Make yourself at home*'.

	SEARCH	FREQUENCY	CONTEXT	UNIVERSITY
SEE CONTENT: CL	ICK ON WORD OR SEL	ECT.WORDS + (CONTEXT) [HELP]		HVED MAKE AT HOME
	CONTEXT A	L FORMS (SAMPLE) - 100 - 200 - 500	FREQ	
t	WARE YOURSEL	FAT HOME	14 J	
	SEARCH	FREQUENCY	CONTEXT	UNIVERSITY
OLICK FOR MORE C	TETAD	🛛 🕅 🔤 skeust (Hooseust — Gre	TË NEM UST (1)	SHOW DUPLICATES
1 2017 FC 1	The Arciach Review	A B C the next marring juliet was just about to	eave for work." Make yourself at home , " she said. She, Rai	i, and Maximiliano would be
1 2017 FC 1 3 2015 FC 1	The Artioch Review Ferræsjócí R	A B C the rest marring, Juliet was just about to A B C folding chairs and blankets. We're here all	eave for work. " Make yourself at home , " she said. She, Pai night, so please make yourself at home . " I am home, I sho	il, and Maximilians would be .ght, fidding with the locus
1 2017 PC 1 3 2015 PC 7 4 2015 PC 1	The Antioch Review FarrzayScifi RarisRev	A B C the rext morning julies was just about to A B C folding chains and blankes. We're here all A B C will be right along "Bornie said, plugging	eave for nork. " Make yourself at home ." She said, She, Rai nigʻrr, so please make yourself at home . " Jan home, I sho in earbuds. " Make yourself at home ." She danced off to sh	il, and Maximilians would be gift, fidding with the focus e kitchen area where she began mix
1 2017 FC 1 3 2015 FC 7 4 2015 FC 1 5 2014 FC 8	The Ardoch Review FernasySc R ParisRev BkRidigUndertaking	A B C the next morning, juilet was just about to A B C folding chairs and blankets. We're here all A B C will be right along. "Bornie said, plugging A B C will be right along. "Bornie said, plugging A B C me say good night to the others and III be	eave for nork. " Make yourself at home ." she said She, Ra night, so please make yourself at home . " Jern home, I sho in earbuds." Make yourself at home . " She danced off so sh night back. Wake yourself at home ." #1 looked around she	il, and Maximilano would be ught, fidding with the focus e kitchen area where she began mix room, at a loss for
1 2017 PC 1 3 2015 PC 1 4 2015 PC 1 5 2014 PC 1 6 2014 PC 1	The Artioch Review FarrasySc R ParisRev Bk-RishgUnderzeking ParisRev	A B C the next morning, juliet was just about to it. A B C folding chains and blankets. We're here all A B C will be right along. "Bornie said, plugging A B C will be right along. "Bornie said, plugging A B C me say good night to the others and III be A B C ,she liked there. From thing the ever said	eare for work. " Make yourself at home. " she said. She, Pai night, so please make yourself at home." I am home, I sho in earbucks." Wake yourself at home. " She danced off to sh night back. Make yourself at home. " All looked anound she o me was make yourself at home. No kidding, She was an - workson make yourself at home. No kidding, She was an	I, and Maximilano would be ught, fidding with the focus e kitchen area where she began mix room, at a loss for her way out skating -

Figure 1. The results of corpus search for 'Make yourself at home' (Lesson 3)

Sample production cue card for "Make yourself at home"

Cue Card NO#8

Jack said to Peter "If I'm late, please don't wait for me? The guest cabin is yours", indicating the forward door. "Rest up and change. We'll meet for drinks in the dining car, say, eight? _____, my friend.

A total of 60 minutes of instruction was planned each session in the input-based group. Approximately 40 minutes were used for searching the expressions in COCA and doing the noticing activities and 20 minutes for metapragmatic information. In the output-based group, an additional 30 minutes were allocated to oral production activities.

3.3. Instrumentation

The pretest and posttest were a WDCT consisting of 10 situations which were randomly arranged. Each situation was provided by a response, and participants were supposed to point out whether the provided utterance in response to a given situation was appropriate. In case they perceived the response to be inappropriate, they were to provide their own response. The responses provided to each situation on the test were selected based on the fossilization tendencies of the routines identified from learners' responses to the WDCTs in the descriptive study conducted before the current study. The items in the posttest were the same as those in the pretest but in different order. The test was pilot-tested with a group of advanced level learners who were similar to the main study participants in terms of their L1 background and age range. The participants were requested to underline any part which seemed ambiguous to them or included expressions they had difficulty understanding. The wording of some items was modified. Cronbach's alpha estimate of internal consistency for the test at this stage was .72. The following is an example of the test items:

Situation#11

You are at home watching TV. Your telephone rings. You pick up the receiver. A stranger on the phone says "Hello, may I talk to the bank manager?" What would you say?

To familiarize the participants with the test, they were provided with two examples with the pragmatic routines which were not part of the treatment. Learners took the post-test a week after the final session of instruction.

3.4. Data Collection

The main purpose of the present study was to explore the potential effectiveness of two corpus-based instructional approaches to the defossilization of 10 pragmatic routines which showed strong fossilization tendencies. Advanced learners who scored the lowest on the pragmatic routines WDCT and who were willing to take part in the experimental study were randomly assigned to two treatment groups: the input-based group and the output-based group. The study was conducted in four weeks. In the first and last weeks, the pretest and posttest were administered, respectively. Each treatment group received four sessions of instruction on the 10 pragmatic routines over two weeks, two sessions every week, with three days in between. In the first session, the instructor familiarized learners with corpus searches on COCA by searching one expression as an example. The classes met in a private English language teaching institute and learners carried out the searches on their cell phones, tablets, or laptops. The instruction was delivered by the second researcher. The posttest was administered a week after the final treatment sessions.

3.5. Data Analysis

To examine the effectiveness of instruction, the data obtained from the pre-tests and post-tests were analyzed by the researchers. If a participant identified the appropriateness of the routines correctly, he/she was given a score of one point. Incorrect identification of the appropriateness of the routines scored zero. As a result, the maximum comprehension score was 10. Since appropriate routines were provided for two scenarios, learners were supposed to produce the target routines in response to eight scenarios. It follows that a maximum possible score of 8 could be gained for the production of the routines. Inappropriate expressions and the expressions which were grammatically incorrect (e.g. Thank for have me) received a score of zero. Descriptive analysis for pretests and posttests was calculated. Paired-samples *t*-tests were run to see if there were statistically significant differences between fossilized advanced learners' ability to comprehend and use the fossilized pragmatic routines before and after the instruction. To find out which type of instruction was more effective in defossilizing the stabilized pragmatic errors, two Independent Samples *t*-tests were run.

4. Results and Discussion

4.1. Results

Table 3 presents descriptive analyses of the pre-test data for the two groups. As shown in the table, the mean scores of the input-enhancement and the output groups were 1.58 and 1.66 on the comprehension and 1.11 and 1.00 on the production sections, respectively.

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	Treatment	Mean	Std. Deviation	Ν
Pretest	Input	1.58	.61	17
Comprehension	Output	1.66	.59	18
Pretest	Input	1.11	.60	17
Production	Output	1.00	.59	18

Descriptive Statistics for Pretest Comprehension and Production Scores in the Two Treatment Modes

To ensure that the two experimental groups were not significantly different in their ability to comprehend and produce the target pragmatic routines before the treatment, two independent samples *t*-tests were run on the pre-test comprehension and production scores (see Table 4). The results showed no significant differences between the two groups in comprehension (t(33) = -.38, p = .70) and production (t(33) = .58, p = .56) sections of the test.

Table 4

Table 5

Independent-samples T-tests for the Pretest Comprehension and Production Scores

		F	Sig.	t	df	Sig. (2-tailed)
Pretest	Equal variances assumed	.17	.68	38	33	.70
Comprehension	Equal variances not assumed			38	32.68	.70
Pretest Production	Equal variances assumed	.28	.59	.58	33	.56
	Equal variances not assumed			.58	32.84	.56

Table 5 presents descriptive analyses of the posttest data for the two groups. As shown in the table, the mean scores of the input-enhancement and the output groups were 8.94 and 9.16 on the comprehension and 6.05 and 7.72 on the production sections of the test.

Descriptive Statistics for Posttest Comprehension and Production Scores in the Two Treatment Modes

	Treatment	Mean	Std. Deviation	Ν
PosttestComprehension	Input	8.94	1.02	17
-	output	9.16	.92	18
Posttest Production	Input	6.05	1.78	17
	Output	7.72	.66	35

Subsequently, to answer the first research question, i.e. the effectiveness of the treatments on defossilizing learners' fossilized

competence of the 10 routines, two paired-sample *t*-tests were carried out (see Table 6). As can be seen from the table, participants' performances in both sections of the test, i.e. comprehension (t(33) = -36.77, p < .05) and production (t(33) = -3.69, p < .05), was significantly better on the posttest compared with the pretest. Thus, the pragmatic instruction seems to have exerted a positive influence on learners' ability to produce the targeted routines.

Table 6

Paired-Samples T-tests for the Comprehension and Production Scores of Pretest and Posttest

	Mean	t	df	Sig. (2-tailed)
Comprehension	-7.42	-36.77	34	.00
Production	-5.85	-20.17	34	.00

To answer the second and third research questions, i.e. to investigate whether there was a significant difference between the performance of the input-enhancement group and that of the output-based group as measured by the comprehension and production of the targeted routines, two independent-samples *t*-tests were run on the posttest scores. The treatment type, i.e. input-enhancement and output-based, was considered as the between-subject variable (see Table 7). As the table demonstrates, the results did not show any significant difference in the comprehension ability of the two groups (t(33) = -.68, p = .49). The results, however, were quite opposite for the production section of the test. The output-based group significantly outperformed the input-enhancement group (t(33) = -3.69, p < .05), showing the superiority of the output-based instruction over input-enhancement group in enhancing learners' ability to produce the targeted routines.

Table 7

Independent-Samples T-tests for the Posttest Comprehension and Production scores

		F	Sig.	t	df	Sig. (2- tailed)
Posttest	Equal variances assumed	.06	.80	68	33	.49
Comprehension	Equal variances not assumed			68	32.11	.50
Posttest	Equal variances assumed	17.17	.00	-3.69	33	.00
Production	Equal variances not assumed			-3.61	20.19	.00

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4.2. Discussion

This study compared the effect of using corpus-driven input-based and output-based instruction on the defossilization of the pragmatic routines which exhibited a strong fossilization tendency among adult Iranian EFL learners. The results showed that the use of corpus-based treatments led to significant improvements in participants' comprehension and production of the pragmatic routines in both input-based and output-based instructional groups. The overall improvements in learners' ability to comprehend and use routines are consistent with the findings of previous research which have documented the effect of using corpus-based materials for the instruction of the routines (e.g. Bardovi-Harlig et al., 2015b; Bardovi-Harlig et al., 2017; Bardovi-Harlig & Vellenga, 2012; Simpson, Briggs, Ovens, & Swales, 2002). The effectiveness of using instructional materials based on naturally occurring language has been reiterated in several studies in instructional pragmatics in the past decade (e.g. Bardovi-Harlig et al., 2015a, 2015b; Bardovi-Harlig et al., 2017; Bardovi-Harlig & Vellenga, 2012; Flowerdew, 2015; Furniss, 2016; Gilmore, 2011). This type of input seems to lead to more positive learning outcomes and thus can serve as a good substitute for the rather decontextualized pragmatic input in L2 textbooks (Eisenchlas, 2011; Ishihara & Cohen, 2010; Jiang, 2006; Vellenga, 2004). In a 10-month study on the effectiveness of authentic materials and standard textbooks in facilitating the development of communicative competence including pragmatic competence, Gilmore (2011) concluded that learners who used authentic materials had better performance.

Moreover, the results showed that the observed differences between the comprehension scores of the two treatment groups were not statistically significant. Improvements in participants' comprehension ability can be ascribed to the noticing activities that participants did. This is in line with the noticing hypothesis suggesting that "what learners notice in input is what becomes intake for learning" (Schmidt, 1995, p. 20). In his review of studies on form-focused instruction, Ellis (2012) concluded that input-enhancement activities such as highlighting the target features assist the noticing and acquisition of the features. Besides, in this study, the noticing activities the learners were engaged in were based on a discovery-based approach. As noted by Vyatkina (2016a), discovery learning has a great potential for promoting noticing through exposing learners to several contextualized examples of the target feature (i.e. input enrichment) and by highlighting the target expressions (i.e. input-enhancement). In instructional pragmatics, discovery learning is seen crucial to noticing and pragmatic awareness (Bardovi-Harlig et al., 2015b; Tomlinson, 1994). It seems that the hands-on learning experience provided by discovery learning tends to boost learners' noticing of the target features.

By contrast, although both groups improved significantly in their ability to use the routines on the posttest, the results of between-group comparisons revealed that learners in the output-based instruction outperformed the learners in the input-enhancement group in the production of the appropriate routines. These results were to some extent predictable given that learners in the output-based instruction were engaged in tasks which required the production of the routines every session. Thus, they seemed to have more effectively learned how to use these expressions. This provides further evidence for Swain's (1995, 1998, 2005) output hypothesis, which posits that output-based tasks require thinking about the form and function of the target feature which in turn leads to improvements in the future production of those features. These findings are in line with many studies which have shown that output-based tasks benefit different aspects of L2 acquisition (e.g. Suzuki & Itagaki, 2007; Tajeddin & Pezeshki, 2014). Tajeddin and Pezeshki (2014), for example, reported the positive effects of the output tasks on the comprehension and production of politeness markers, opposed to input-enhancement tasks which improved learners' as comprehension of (im)politeness of the sentences. In this study, however, the participants in the input-enhancement group improved significantly in both comprehension and production of the pragmatic routines, which can be in part due to the explicit instruction of the routines after corpus searches. This finding provides further support for Kupferberg's (1999) study which showed that input-based activities, when coupled with explicit instruction, can result in improvements in learners' comprehension and production.

Overall, the findings of the study provide evidence for the effectiveness of pragmatic instruction to counteract the fossilization tendency of the routines. To the researchers' knowledge, few if any studies have to date investigated the defossilization of pragmatic features. Therefore, the findings cannot be compared with the past research in this regard. Ellis (1989), however, posited that formal instruction can facilitate the defossilization of grammatical features. Given that pragmatic routines can facilitate interactions by providing the leeway for the speakers to convey their intended illocutionary force and helping the interlocutors to understand the speaker's intention (Bardovi-Harlig et al., 2017), the study of how best this aspects of pragmatic competence can be taught merits attention.

5. Conclusion and Implications

The results suggested that learners in both output-based and inputbased groups benefited from the instruction of the pragmatic routines which had exhibited a tendency for fossilization. However, in line with several studies in L2 pragmatics research, the instructional tasks employed in this study seemed to have differential effects on different aspects of learners` pragmatic competence. While input enhancement tasks in the input-based Journal of Modern Research in English Language Studies 5(2),123-145.(2018) group resulted in increases in the learners' ability to notice the appropriate routines, they seemed to be less effective in bringing about similar results in their ability for the production of routines. By contrast, the results showed that the output-based tasks were more effective in enhancing learners' ability to identify and to produce appropriate routines. Moreover, the findings highlight the importance of the development of instructional materials that portray naturally occurring interaction in the target language.

The results of this study have implications for teaching pragmatic routines. The findings show that routines are teachable and pragmatic instruction should be integrated into EFL classrooms. This provides further evidence for the results of the previous studies which have shown that pragmatic knowledge does not progress hand in hand with grammatical competence in a foreign language context. Hence, teaching L2 pragmatic features is both necessary and effective given the limited opportunities that EFL students have to communicate with native speakers (Alcon Soler & Martinez-Flor, 2008). Teachers are, therefore, recommended to devise activities which help enhance learners' pragmatic competence. As revealed by the findings of this study, input-enhancement or output tasks can improve learners' comprehension or production of the routines. The pedagogical implication is that a combination of instructionally supported corpus-based materials and activities would be effective for enhancing EFL learners' ability to comprehend and use routines appropriately in context. The accessibility to free online corpora can provide resources for L2 teachers to develop instructional pragmatics tasks based on authentic language and, by so doing, compensate for the shortcomings of the L2 textbooks which usually lack relevant, contextualized input for the acquisition of pragmatics.

Future studies are certainly needed to investigate long-term influences of different instructional methods on the destabilization of pragmatic features which exhibit fossilization tendency. Besides, future research will also benefit from examining how some individual learner differences, including L2 pragmatic motivation, attention to L2 pragmatic features in the input, and attitudes toward the L2 culture, are likely to impact the effectiveness of instruction. It is also necessary to acknowledge the limitations of the study. The result presented here may not be generalizable beyond the learners participating in this study. Participants in this study were a select group. Clearly, future research with a larger and more representative data set is required to determine whether findings of the study are typical of Iranian EFL learners in general and to draw stronger conclusions. Also, the present study aimed to examine the effect of corpus-driven input-based and outputbased instruction on defossilizing pragmatic routines among young adults, aged between 18-35. Replication of the study with learners from different age groups is needed to find out if the effect of instruction is similar across different age groups.

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