EFL Learners’ L1 Conceptual Transfer and Its Relation to Their Language Proficiency and Age

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Abstract
The present study was carried out to scrutinize the possibility and extent of transfer at the level of concepts in parity and internal content based on Jarvis’ (2007) framework among Iranian EFL learners having the following in focus: concepts in Persian that do not have counterparts in English, concepts that are broader than a corresponding concept in English or vice versa, and concepts in Persian and English that seem to be broadly equivalent but are still different. Also, it investigated to examine the role of the two learner-based variables of language proficiency and age in Iranian EFL learners’ possible conceptual transfer. To serve the purpose, the data were collected from 100 Iranian learners (70 females, 30 males) studying English as a foreign language in an English Language School in Mobarakeh, Isfahan. With the data being submitted to statistical analyses, the findings revealed significant cases of conceptual transfer from Persian to English. It was also noticed that the participants’ level of English proficiency played a significant role in their transfer of concepts but their age did not.

Keywords: cross linguistic influence, Conceptual Transfer Hypothesis (CTH), conceptual errors, concept transfer, conceptualization transfer

1. Introduction
A survey of recent cross linguistic research demonstrates that there have been many studies on different dimensions of language such as investigations into phonetics (e.g., Flege & MacKay, 2004), syntactic structures (e.g., Matthews and Yip, 2003), and pragmatics (e.g., Yu, 2004), all emphasizing the importance of transfer and the role of negative language influence in second and foreign language learning. Along with these studies, some scholars (e.g., Jarvis, 1998, 2007; Jarvis & Pavlenko, 2008, Odlin, 2008) have recently attended to the language transfer at the level of concepts and have attempted to apply their inferences from recent theoretical and empirical findings to language transfer. Jarvis (2007) introduced the term Conceptual Transfer Hypothesis (CTH) characterized as “the hypothesis that certain instances of cross linguistic influence in a person’s use of one language originate from the conceptual knowledge and patterns of thought that the person has acquired as a speaker of another language” (p. 44). Although the term conceptual transfer appeared sporadically in its informal sense in studies published throughout the 1980s and 1990s (e.g., Ijaz, 1986; Kroll and Potter, 1984; MacWhinney, 1992; Rocher, 1993), a new technical sense of this term and its methodological and theoretical issues were delicately proposed and discussed by Jarvis (2007). Regarding the theoretical issues, there is a classification of Concept Transfer and Conceptualization Transfer. As for methodological issues, four cross linguistic conceptual prerequisites have been suggested: 1. Parity, 2. Internal concept, 3. Internal structure, and 4. External membership. Given the four categories of concept transfer in CTH, it seems that conceptual transfer may lead to conceptual errors resulting from the tendency of ESL/EFL learners to assume that concepts in the native and target languages are always identical and can be transferred without considering the possible cross linguistic conceptual differences. Traditionally, in the fields of linguistics and SLA, a good deal of research has concentrated on linguistic as well as on semantic transfer (e.g., Jiang, 2000, 2002, 2004), but few studies have treated conceptual transfer. Besides, despite the attempts made in conceptual transfer, the achievements to date have been more exploratory than thorough examination of the issues (Oldin, 2005). Thus, empirical investigations into conceptual transfer and errors could be of significant importance in language teaching, in particular with regard to foreign language...
learners considering the fact that EFL learners are not mostly living in an English language country and consequently they are not exposed to enough input and opportunity to comprehend and internalize foreign language concepts.

1.2 Scope and objectives of the study

The current study is an investigation which falls within Jarvis’ (2007) concept and conceptualization transfer. Regarding conceptualization transfer, it considers the way the learners perceive, recall, and reason an object, event, and relationship. With respect to concept transfer, it focuses on parity and internal content, that is, concepts in L1 that do not have counterparts in L2, concepts in L1 that are simply broader than corresponding concepts in L2 or vice versa, and concepts in L1 and L2 that seem to be broadly equivalent but are still different. Also, as the role of individual variables has always been discussed and emphasized by researchers (e.g., Odlin, 1989) interested in language transfer, the present study examines the role of the two factors of foreign language proficiency and age in L2 learners’ possible conceptual transfer. In short, this research aims to answer the following questions:

1. To what extent do Iranian EFL learners at elementary and intermediate levels transfer concepts from Persian to English?

2. What is the role of EFL learner’s language proficiency and age in their conceptual transfer?

2. Background

The work by Lakoff (1987) on the nature of conceptual representations and their interaction with language, Levelt (1989) on the process of speech production, and von Stutterheim and Klein (1987) on a concept-based approach to SLA research highly succeeded in bringing conceptual transfer to the attention of researchers in the fields of SLA and bilingualism. Also, among studies in 1990s, an important attempt was Slobin’s (1991) work on the thinking for speaking hypothesis (TFSH) being directly relevant to the transfer at the level of concept. However, after the work of Jarvis and Pavlenko in 1998, conceptual transfer began to become a technical term referring to research on cross linguistic influence grounded in theories and empirical findings on the nature of conceptual representations.

Odlin (2005) defines conceptual transfer in relation to Linguistic Relativity Hypothesis: “Linguistic relativity is often defined as the hypothesized influence of language on thought … conceptual transfer can accordingly be defined as those cases of linguistic relativity involving, most typically, a second language” (p. 5). Jarvis mentions that conceptual transfer “assumes that certain types of cross linguistic effects that we find in the language behavior of language learners, bilinguals, and multilinguals, originate from influences that have taken place in the conceptual system prior to the conversion of conceptual structure into linguistic structure.” (2009, p. 2).

According to Jarvis (2007) the word ‘conceptual’ refers to both concept and conceptualization. Jarvis (ibid) contends that concept transfer arises from “cross linguistic differences in the conceptual categories stored in L2 users’ long-term memory” while conceptualization transfer arises from “cross linguistic differences in the ways L2 users process conceptual knowledge and form temporary representations in their working memory” (p. 52). He divides conceptualization transfer into three levels: (a) general, nonlinguistic cognition, (b) macroplanning for speaking, and (c) microplanning for speaking. With respect to concept transfer, he presents four prerequisites as shown in Table 1.

Table 1. Cross Linguistic Conceptual Prerequisites for Concept Transfer (Jarvis, 2007)

| 1. Parity | A concept in Language A does not have a counterpart in Language B (or vice versa) |
| 2. Internal Concept | A concept in Language A does not have the same internal content as the corresponding concept in Language B |
| 3. Internal Structure | A concept in Language A does not have the same internal structure as the corresponding concept in Language B |
| 4. External Membership | A concept in Language A does not belong to the same superordinate categories as the corresponding concept in Language B, or it does not have the same status within those categories |
Conceptual transfer should not be confused with semantic transfer. Odlin (2005) states that “All conceptual transfer involves meaning transfer but not all meaning transfer involves conceptual transfer. In effect, conceptual transfer is a subset of meaning transfer” (p. 6). In this regard, Jarvis (2007), focusing only on concept transfer, considers Finnish student’s sentence (he bit himself in the language) as an example of semantic transfer and adds, “semantic transfer involves cross linguistic influence related to the links between words and concepts, but not the makeup of concepts themselves” (p. 60). In fact, he believes that concept transfer involves differences in conceptual distinctions, whereas semantic transfer is more a matter of how words are mapped onto concepts.

3. Research Method

3.1 Participants

The participants of the study were 100 Iranian EFL learners (70 females, 30 males) studying English as a foreign language in an English Language School in Mobarakeh, Isfahan. All available learners were 700: 400 elementary learners ranged between the ages of 10 and 27 and 300 intermediate learners ranged between the ages of 15 and 27.

At first, all available learners were stratified by age at each level resulting in three elementary groups and two intermediate groups. Then 20 participants were selected from each of the five age groups using a random sampling method; the sampling frame was merely separate lists of all members at each group. As represented in Table 2, the selected learners at the elementary level comprised three groups of 20: one group of children (10-13), one group of teenagers (14-17), and one group of young adults (18-27). The selected learners at the intermediate level consisted of two groups of 20: one group of teenagers aged between 15 and 17 and one group of young adults aged between 18 and 27.

Table 2. Distribution of Available Learners and Participants by Age and Proficiency

<table>
<thead>
<tr>
<th>Level</th>
<th>Age groups</th>
<th>Total N</th>
<th>Selected N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elementary</td>
<td>10-13 Children</td>
<td>152</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>14-17 Teenagers</td>
<td>157</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>18-27 Young Adults</td>
<td>91</td>
<td>20</td>
</tr>
<tr>
<td>Intermediate</td>
<td>15-17 Teenagers</td>
<td>162</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>18-28 Young Adults</td>
<td>138</td>
<td>20</td>
</tr>
</tbody>
</table>

3.2 Instrument

This study benefited from two proficiency tests and one researcher-designed questionnaire. Excerpted from Nelson English Language Tests, the two proficiency tests 050 B and 250 D were administered to the elementary and intermediate learners respectively in order to make sure of their homogeneity at each level. To measure the degree of participants’ conceptual transfer, a questionnaire was planned in three parts (A, B, and C), each consisting of 10 items requiring the participants to fill in the blanks based on the sentences in Persian, translate some sentences from Persian to English, and select appropriate options in ‘two-choice’ items. The following are three examples, each representing a sample item in the sections A, B, and C of the questionnaire respectively:

1. Please, give me a glass of . . . . . .

对我说，给我一杯……

2. ..................................................

全部小孩喝……

3. A baker is a person who bakes and sells . . . . .

a. bread b. bread, cakes, and cookies

Each item in the questionnaire was specifically designed so as to contain a concept which might be transferred from Persian to English (see the boldfaced words in the above examples). Singled out from nearly 80 cases, the 30 concepts fell into parity and internal content categories of the concept transfer classification proposed by Jarvis (2007). The following is the elaboration of the items in the questionnaire:

A. Parity:

- Concepts related to the expressions in Persian that lack an English equivalent such as [khasteh nabashid]:
  - لطفا یک لیوان آب پرتابل به من بده. 
  - دختر گلی داری.
• Concepts that seem to be religiously culture-specific and have no counterparts in English such as [ تعالى [ta-aziyeh khandan].
• Concepts that are culture-bound. Although we may find some English concepts that are somewhat close to them, they do not include the same internal content like [شغله آزاد: [shoghl e azad]

B. Internal Content
• Concepts in Persian that are simply broader than their corresponding concepts in English or vice versa.
  • Concepts in Persian that seem to be broader than their corresponding concepts in English such as [خوردن: [khordan] (meaning: to eat) that is also used for drinks, medicine, etc. which is not the case in English.
  • Concepts in English that seem to be broader than their corresponding concepts in Persian such as [baker] that is used for a person who bakes and sells bread, cakes, and cookies, while its Persian counterpart [نانور] is a person who only bakes and sells bread.
  • Concepts that are metaphorically broader in Persian such as [گل: [gol] (meaning: flower) used to compliment someone: [گل خانم: [gol dokhtar].
• Concepts in Persian and English that seem to be broadly equivalent but are still different in relation to which particular objects or events, etc. are included in the concept.
  • Concepts that are equally broad but are different in their internal content mostly because of the differences in the two cultures like [dog] versus [سگ: [sag]
  • Concepts that are equally broad but are metaphorically different in English and Persian such as the concept [moon] and [ماه: [mah]. The former is metaphorically used for describing a round face but the latter for describing a beautiful face.

Before administering the questionnaire, a preparatory pilot study was conducted which led to some slight changes in the selected concepts and the design of the questionnaire. For example, the participants at the elementary level were provided with the meaning of unfamiliar words in the third part of the questionnaire and a few items were omitted and replaced with new ones.

3.3 Procedure
First, the participants, three elementary and two intermediate groups, each consisting of 20 learners, were selected based on their age and language proficiency as described above. After that, two proficiency tests were used to be assured of the participants’ homogeneity at each level. Next, a questionnaire was given to the participants to fill out. In the questionnaire, each item was marked 0 where the conceptual transfer occurred and 1 where no conceptual transfer occurred even if the learners did not provide appropriate equivalents for the concepts. Here, the focus was on the learners’ awareness of differences between the concepts in the two languages.

4. Data Analysis
In order to examine the extent of conceptual transfer by the participants and the role of language proficiency in this transfer, the data from the questionnaires were collected and analyzed. Tables 3 and 4 are the results of the descriptive statistics and T-test respectively:

Table 3. Descriptive Statistics at Each Level and Category

<table>
<thead>
<tr>
<th>Category</th>
<th>Level</th>
<th>N</th>
<th>Mean</th>
<th>Std. Deviation</th>
<th>Std. Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parity</td>
<td>Elementary</td>
<td>60</td>
<td>2.53</td>
<td>1.171</td>
<td>.151</td>
</tr>
<tr>
<td></td>
<td>Intermediate</td>
<td>40</td>
<td>5.40</td>
<td>1.057</td>
<td>.167</td>
</tr>
<tr>
<td>Internal Content</td>
<td>Elementary</td>
<td>60</td>
<td>5.75</td>
<td>1.503</td>
<td>.194</td>
</tr>
<tr>
<td></td>
<td>Intermediate</td>
<td>40</td>
<td>10.73</td>
<td>2.136</td>
<td>.338</td>
</tr>
<tr>
<td>Total</td>
<td>Elementary</td>
<td>60</td>
<td>8.28</td>
<td>1.923</td>
<td>.248</td>
</tr>
<tr>
<td></td>
<td>Intermediate</td>
<td>40</td>
<td>16.13</td>
<td>2.430</td>
<td>.384</td>
</tr>
</tbody>
</table>
Table 4. The Results of T-Test on Two Categories of Transfer

<table>
<thead>
<tr>
<th>Categories</th>
<th>T-test for Equality of Means</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T</td>
<td>Df</td>
</tr>
<tr>
<td>Parity</td>
<td>-12.458</td>
<td>98</td>
</tr>
<tr>
<td>Internal Content</td>
<td>-13.676</td>
<td>98</td>
</tr>
<tr>
<td>Total</td>
<td>-17.956</td>
<td>98</td>
</tr>
</tbody>
</table>

As illustrated in Table 3, there was a noticeable difference between the total means of the two levels as well as their means at each category. Also, Table 4 indicates that the observed p-value was far less than the alpha decision level ($\alpha < .001$).

In order to examine the role of age in the participants’ conceptual transfer, the data were analyzed separately at each level. Tables 5 and 4 are the results of the analyses at the intermediate level.

Table 5. Descriptive Statistics of the Intermediate Level at Each Category

<table>
<thead>
<tr>
<th>Categories</th>
<th>Age Group</th>
<th>N</th>
<th>Mean</th>
<th>Std. Deviation</th>
<th>Std. Error Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parity</td>
<td>15-17</td>
<td>20</td>
<td>5.50</td>
<td>1.000</td>
<td>.224</td>
</tr>
<tr>
<td></td>
<td>18-27</td>
<td>20</td>
<td>5.30</td>
<td>1.129</td>
<td>.252</td>
</tr>
<tr>
<td>Internal Content</td>
<td>15-17</td>
<td>20</td>
<td>10.25</td>
<td>2.489</td>
<td>.557</td>
</tr>
<tr>
<td></td>
<td>18-27</td>
<td>20</td>
<td>11.20</td>
<td>1.642</td>
<td>.367</td>
</tr>
<tr>
<td>Total</td>
<td>15-17</td>
<td>20</td>
<td>15.75</td>
<td>2.653</td>
<td>.593</td>
</tr>
<tr>
<td></td>
<td>18-27</td>
<td>20</td>
<td>16.50</td>
<td>2.188</td>
<td>.489</td>
</tr>
</tbody>
</table>

Table 6. The Results of T-Test of the Intermediate Level

<table>
<thead>
<tr>
<th>Categories</th>
<th>T-test for Equality of Means</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T</td>
<td>Df</td>
</tr>
<tr>
<td>Parity</td>
<td>.593</td>
<td>38</td>
</tr>
<tr>
<td>Internal Content</td>
<td>-1.425</td>
<td>38</td>
</tr>
<tr>
<td>Total</td>
<td>-.975</td>
<td>38</td>
</tr>
</tbody>
</table>

As observed in Table 6, the total significance level (.336) was more than the alpha decision level (.05).

Tables 7 and 8 indicate the results of the role of age at the elementary level.

Table 7. The Results of ANOVA (one-way) of the Elementary Level

<table>
<thead>
<tr>
<th>Categories</th>
<th>Sum of Squares</th>
<th>Df</th>
<th>Mean Square</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parity</td>
<td>Between Groups</td>
<td>11.033</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Within Groups</td>
<td>69.900</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>80.933</td>
<td>59</td>
</tr>
<tr>
<td>Internal Content</td>
<td>Between Groups</td>
<td>33.700</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Within Groups</td>
<td>99.550</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>133.250</td>
<td>59</td>
</tr>
<tr>
<td>Total</td>
<td>Between Groups</td>
<td>80.833</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Within Groups</td>
<td>137.350</td>
<td>57</td>
</tr>
</tbody>
</table>
Table 7. The Results of ANOVA (one-way) of the Elementary Level

<table>
<thead>
<tr>
<th>Categories</th>
<th>Sum of Squares</th>
<th>Df</th>
<th>Mean Square</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Between Groups</td>
<td>11.033</td>
<td>2</td>
<td>5.517</td>
</tr>
<tr>
<td>Within Groups</td>
<td>69.900</td>
<td>57</td>
<td>1.226</td>
</tr>
<tr>
<td>Total</td>
<td>80.933</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Internal Content</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Between Groups</td>
<td>33.700</td>
<td>2</td>
<td>16.850</td>
</tr>
<tr>
<td>Within Groups</td>
<td>99.550</td>
<td>57</td>
<td>1.746</td>
</tr>
<tr>
<td>Total</td>
<td>133.250</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Between Groups</td>
<td>80.833</td>
<td>2</td>
<td>40.417</td>
</tr>
<tr>
<td>Within Groups</td>
<td>137.350</td>
<td>57</td>
<td>2.410</td>
</tr>
<tr>
<td>Total</td>
<td>218.183</td>
<td>59</td>
<td></td>
</tr>
</tbody>
</table>

Table 8. The Results of ANOVA (one-way) of the Elementary Level

<table>
<thead>
<tr>
<th>Categories</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Between Groups</td>
<td>4.499</td>
<td>.015</td>
</tr>
<tr>
<td>Internal Content</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Between Groups</td>
<td>9.648</td>
<td>.001</td>
</tr>
<tr>
<td>Total</td>
<td>16.773</td>
<td>.001</td>
</tr>
</tbody>
</table>

As shown in Table 7, the total observed p-value was estimated to be .001, much less than the alpha decision level (α<.001).

Also, the mean plots of the participants’ performance indicated that the leaner-based variable of age was an important factor in the amount of transfer in the category of parity among the three elementary groups while at least two age groups were different in the category of internal content as well as for the total mean (between age groups of 10-13 and 14-17 or 18-27).

5. Results

This study revealed that:

1. The participants significantly transferred concepts or some of their features from Persian to English and sought to find a nonexistent, word for word translation.
2. Language proficiency of the learners affected their conceptual transfer. The elementary learners erroneously transferred concepts twice as much as the intermediate learners and relied more on their native conceptual system.
3. Age difference in the elementary learners played a role in their conceptual transfer, but not in the intermediate learners.
4. The variable of age was a significant factor in the amount of transfer in the category of parity among the three elementary groups.
5. However, in the category of internal content, it seems at least two groups were different in transferring concepts based on the age factor.

6. Discussion

The results of this study confirm Jarvis’ (2007) idea of conceptual transfer, which assumes foreign language learners “often refer to the same objects and events in conceptually different ways and in ways that are specific to their language backgrounds” (p. 44). On the other hand, some findings of this study support Danesi’s (2008) argument of conceptual errors. To be more specific, in this study, the conceptual transfer occurred in the sub-categories of metaphorically broader and equally broad but metaphorically different overlap the types of conceptual errors viewed by Danesi (2008). These types of errors might be committed when L2 learners encode meanings in the target language with identical or parallel structures of their native language.

The findings for the role of language proficiency can be discussed in relation to some views proposed on
The role of the language proficiency in conceptual transfer in this study can be justified through the two processes of *conceptual translation* and *conceptual awareness*. The former, suggested by Danesi (2008), occurs when L2 learners during the earliest phases of second language learning unconsciously rely on their native conceptual system (CS1) to decipher novel input and direct the choice of L2 structures; therefore, they express themselves largely through the process of conceptual translation. Similarly, it seems that in this study the learners of lower proficiency, compared to those of higher proficiency, relied more on their CS1 through the process of conceptual translation. Regarding conceptual awareness, its role in conceptual transfer parallels the effect of language awareness on language transfer. As the role of explicit knowledge and conscious monitoring in decreasing the occurrence of transfer (e.g. Odlin, 1989; Jarvis, 2002) or in avoiding negative transfer (e.g. Kasper, 1997) has constantly been highlighted, this role can likewise be discussed at the level of concepts. To be more specific, the extent to which L2 learners are aware of the possible differences in concepts between the L1 and L2 may be considered as their conceptual awareness. Based on the findings of this study, it can be hypothesized that the elementary learners had less knowledge of conceptual awareness than the intermediate learners and consequently made more conceptual errors.

The results of this study demonstrated conceptual errors in the category of parity outnumbered those in the internal content category at both levels. This outcome, on the one hand, may evidence that the process of conceptual translation played a more leading role in the category of parity. On the other hand, it backs up Pavlenko’s (2009) proposition of *conceptual non-equivalence* which seems to correspond to Jarvis’ (2007) category of parity. Defining it as a linguistic category of one language that does not have a counterpart in another language, Pavlenko states that some bilinguals may pause, hesitate and stutter to search for a nonexistent translation while coming across conceptual non-equivalence. She contends that *non-equivalence* complicates learning since learners have to develop new categories, and that it is more challenging in the case of abstract or emotion categories.

As for the role of age in conceptual transfer in this study, the younger elementary learners were more susceptible to conceptual transfer than their older counterparts. This finding runs counter to the general belief regarding age in language transfer that “child learners are less likely to draw on their L1, particularly in a pervasive way that leads to fossilization, than are adult learners” (Murphy, 2003, p. 11). Meanwhile, this negative relationship between conceptual transfer and age in this study muddies the waters of the principle that ‘the younger is better’ at least in terms of conceptual transfer. Also, among the findings of this study was the result that age difference in the intermediate learners, unlike that in the elementary learners, did not have a remarkable effect on their conceptual transfer suggesting that the more language proficiency the less effect of age in conceptual transfer. Apparently in this study, the intermediate learners had gained more conceptual awareness, hence better able to figure out that their native language concepts cannot always have exact word for word equivalence in English or that there are sometimes some layers of conceptual nuances in the two languages.

Not unrelated to the mentioned-above relationship between language proficiency and age in conceptual transfer is the correspondence between *cognitive maturity* and age. In language comprehension, L2 users’ level of cognitive maturity affects their ability to comprehend the concepts expressed through language (Weist, 2002), and to abstract important conceptual, lexicosemantic, and morphosyntactic information from the new words they encounter (e.g., Weinert, 2004). Correspondingly, cognitive maturity may be deemed as a factor which explains why the youngest elementary learners in this study committed the most conceptual errors among the other participants.

**Further Research Areas**

The following can be suggested for further investigations:

1. Future research can investigate into other two categories of Jarvis’ (2007) framework such as *internal structure* and *external membership*.
2. Further investigations into conceptual transfer can be conducted at advanced levels to find out about the possibility and extent of conceptual errors.
3. Future studies can test the role of other learner-base and language-based variables in conceptual transfer.
4. Next studies can also examine the ways and techniques through which FL textbook authors and teachers would help learners understand the subtle differences between concepts of native and foreign languages.

Implications of the Study

Learning a new language involves learning to conceptualize the world in a different way, from new ways of categorizing objects, events, and phenomena to making new attributions to familiar objects and events (Jarvis and Pavlenko, 2008). The findings of this study showed that EFL learners had difficulty in developing L2 conceptual internalization seemingly due to the influence of their native language on L2. Pedagogically speaking, input and context for FL learners, as Kecskes and Papp (2000) noted, do not go beyond word definition to form a multimodal representation and form a concept. On the other hand, concept internalization is obviously a long and arduous process. Thus, textbook authors and teachers should be concerned with finding ways to present multiple opportunities to face conceptually difficult issues and areas, in different formats, throughout the years of instruction in order to raise awareness of negative conceptual transfer through cross linguistic comparisons. For example, learners can take part in communicative practices that help them to attend to new conceptual distinctions. Such experiences could involve miscommunications that serve to highlight cross linguistic differences in the representation of particular concepts.

Based on the findings of this study, raising conceptual awareness had better commence at the elementary level and considerable attention needs to be paid to the concepts fallen into the category of parity.

References


