This is the peer reviewed version of the following article: Gallardo-del-Puerto F, Basterrechea M, Martínez-Adrián M. *Target language proficiency and reported use of compensatory strategies by young CLIL learners*. **Int J Appl Linguist.** 2020; 30: 3–18. , which has been published in final form at https://doi.org/10.1111/jijal.12252. This article may be used for non-commercial purposes in accordance with Wiley Terms and Conditions for Use of Self-Archived Versions. This article may not be enhanced, enriched or otherwise transformed into a derivative work, without express permission from Wiley or by statutory rights under 1applicable legislation. Copyright notices must not be removed, obscured or modified. The article must be linked to Wiley's version of record on Wiley Online 2Library and any embedding, framing or otherwise making available the article or pages thereof by third parties from platforms, services and websites other 3than Wiley Online Library must be prohibited

Target language proficiency and reported use of compensatory strategies by young CLIL learners

Abstract

Studies investigating compensatory strategies (CSs) by means of questionnaires in English-as-a-Foreign-Language (EFL) contexts with young learners are lacking, particularly in Content-and-Language-Integrated-Learning (CLIL) environments. Three different proficiency groups of young English learners in a CLIL programme were administered a survey to explore the existence of intergroup differences regarding the amount and types of CSs used. Learners exhibited a moderately high use of CSs overall, and no differences emerged regarding the total number of CSs as a function of target language (TL) proficiency. In terms of types of CSs used, they reported using some CSs (*paraphrasing*) which are typical of more advanced learners. However, more proficient learners were found to draw on some non L2-based strategies (*avoidance, foreignising, miming*) to a lesser extent than less proficient learners.

Keywords: compensatory strategies, CLIL, English as a foreign language

Introduction

Studies of compensatory strategies (CSs) in the case of Content and Language Integrated Learning (CLIL) learners have been carried out mainly with reference to oral and written production, and the majority have revolved around the use of the first language (L1) as a CS. In addition, little is known about these learners' self-reported opinions concerning their use of CSs, particularly where young learners are concerned, Purdie & Oliver (1999) being the only study that employed self-report questionnaires in an English-as-a-second-language (ESL) context.

In this paper, we investigate the whole inventory of communication strategies through questionnaires administered to young English learners in a CLIL context. In order to overcome the lack of consensus on the inventory of CSs in the literature, in the present study the three main types of strategies identified by the most relevant taxonomies were employed, namely *linguistic, conceptual* and *interactional* strategies. Particularly, we analyze the effect of proficiency on learners' reported use of CSs as well as their preference in the type of strategies employed during target language (TL) production.

This paper is organised as follows: a first section is devoted to the review of the literature on CSs with a particular emphasis on the effect of second language (L2) proficiency on strategy use as well as on the study of CSs in CLIL settings. Research questions follow the literature background and precede the description of the study where participants, materials and procedures are progressively covered. Results are presented next, and subsequently discussed. Finally, a conclusion section closes the paper.

Literature review

Research on CSs

Two main theoretical approaches have been taken in the study of CSs in L2 acquisition –the interactional approach and the psycholinguistic approach. From an interactional viewpoint (Corder, 1978; Tarone, 1977, 1981; Váraidi, 1973), a CS is understood as a shared enterprise in which both the speaker and the hearer are involved. From a

submitted to InJAL for peer review

psycholinguistic perspective (Bialystok, 1990; Faerch & Kasper, 1980 1983, 1984; Poulisse, 1993, 1997; Poulisse, Bongaerts & Kellerman, 1990), a CS is the speaker's only responsibility, a mental plan "for solving what to an individual presents itself as a problem in reaching a particular communicative goal" (Faerch & Kasper, 1983, p. 36).

There have been as many as nine different classifications of CSs in the literature, as reviewed by Dörnyei and Scott (1997), with those by Tarone (1977), Faerch and Kasper (1983) and Poulisse (1990) attracting the most attention. The survey we administered to participants in the present study is mainly built upon the interactional taxonomy proposed by Tarone (1977) and the psycholinguistic one developed by Poulisse (1990) in the Nijmegen project regarding Dutch learners of English. Tarone's (1977) classification distinguishes five main types of CSs: avoidance (topic avoidance, message abandonment), paraphrase (approximation, word coinage, circumlocution), conscious transfer (literal translation, language switch), appeal for assistance, and mime. Poulisse's (1990) taxonomy divided CSs into two *archistrategies* depending on whether the meaning or the language is altered –conceptual vs. linguistic strategies. Within the former, two types of CSs are distinguished –analytic (circumlocution, description, paraphrase) and holistic (superordinate, coordinate, subordinate). Linguistic strategies are also classified into two types – transfer (borrowing, foreignising, calque) and morphological creativity.

Beyond the classification of strategies, research on L2 learners' use of CSs has focused on the factors affecting their frequency and choice, among which the TL proficiency has received the greatest attention. Research has shown that TL proficiency exerts an influence on the frequency of CSs, a lower proficiency being associated with a higher use of CSs because lower proficiency learners typically exhibit a more limited command of the L2 than higher proficiency learners (Fernández Dobao, 2002; Hyde, 1982; Liskin Gasparro, 1996; Paribakht, 1985; Poulisse et al., 1990). As for the choice of particular types of CSs, the influence of the proficiency factor does not happen to be so straightforward in the literature. Some researchers (Bialystok, 1983; Bialystok & Fröhlich. 1980; Jourdain, 2000; Wannaruk, 2003) conclude that less proficient learners are likely to fall back on L1-based strategies, mime and avoidance, whereas more proficient learners tend to opt for L2-based strategies, such as paraphrasing (Jourdain, 2000). However, Poulisse et al. (1990) found that the mediating effect of some variables, namely the nature of the communicative task, overruled the influence that proficiency exerted on the quantity of CSs used by Dutch L1 learners of English. In contrast, Fernández Dobao (2002) also provided evidence that more advanced learners tend to prefer L2-based strategies. In her study, she examined the effect of proficiency on the amount and type of CSs used by L1-Spanish EFL learners with different proficiency levels of English (elementary, intermediate and advanced). Results showed that intermediate learners used fewer CSs than the advanced learners examined, contradicting previous research. As per the type of CSs used, the results confirmed previous research findings demonstrating a higher percentage of avoidance and conscious transfer strategies employed by less proficient students, and a greater use of paraphrasing (i.e., an L2-based strategy) by more proficient ones.

Although most research on the use of CSs has analyzed oral or written production (e.g. Muñoz, 2007; Poulisse & Bongaerts, 1994), there is also some research which has looked into learners' self-reported opinions concerning the use of CSs by means of questionnaires. In such research, CSs are often investigated together with learning strategies in general (Ehrman & Oxford, 1990). Learning strategies can be defined as "specific actions taken by the learner to make learning easier, faster, more

enjoyable, more self-directed, more effective, more transferable to new situations" (Oxford, 1990: 8).

The strengths and weaknesses of survey research on the study of strategic competence have been discussed by scholars (Cohen, 1998; Dörnyei, 2003; Ellis, 2008; Khan & Victori, 2011). The use of such instrumentation, despite being considered valuable for providing quantitative data (Dörnyei, 2003; Ellis, 2008; Oxford, 1990), has been put into question because questionnaires are said to assume a stable reality for such a dynamic phenomenon as language acquisition (Tseng, Dörnyei & Schmitt, 2006), and to disregard the fact that learners modify their strategic behaviour according to the context (Macaro, 2006; Oxford, Cho, Leung & Kim, 2004).

In fact, a call for triangulation of data in survey research has been made (Gao 2007). A growing body of research has explored the effect of proficiency on the use (amount and type) of learning strategies -including CSs- in ESL (e.g., Griffiths, 2003; Hong-Nam & Leavell, 2006; Magogwe & Oliver, 2007; Purdie & Oliver, 1999) and EFL (e.g., Salahshour, Sharifi & Shalahshour, 2013; Yilmaz, 2010) contexts by means of self-report questionnaires. These studies have employed the Strategy Inventory for Language Learning (Oxford 1989), where learning strategies fall into six categories: Memory, cognitive, metacognitive, compensation, affective and social strategies (see Hong-Nam & Leavell, 2006, for further details). Results point to a positive linear relationship between strategy use and proficiency: more proficient language learners employ more learning strategies and in a greater number of situations than less proficient learners (Dreyer, 1992; Green & Oxford, 1995; Griffiths, 2003; Magogwe & Oliver, 2007; O'Malley & Chamot, 1990; Taguchi, 2002). In terms of type of strategy, many of the studies report a higher use of metacognitive strategies (that is, strategies used by the learners to manage their own learning). However, results regarding the

category of CS in particular are less conclusive. While some studies report a low use of CSs across all educational (primary, secondary and tertiary) and proficiency levels (Magogwe & Oliver, 2007), other studies show that, compared to the rest of the learning strategies, CSs rank moderate-to-high in use. For instance, Hong-Nam and Leavell (2006) found that CS was among the strategies that rank high in use in a 5-point Likert scale (M=3.59, where M=3.66 is the maximum). It is worth noting that when focusing on individual item scores, the most preferred item fell into the CS category 'When I can't think of a word during a conversation in English, I use gestures' (M=4.25). Yilmaz (2010) found that the category of CS had the highest mean (M=3.97), a result which kept constant across differing proficiency levelsⁱ, as well – M=4.13 in high (or good), M=3.99 in intermediate (or fair), and M=3.88 with low (or poor).

In the case of young learners, CS research studies using questionnaires are thin on the ground (Magogwe & Oliver, 2007- see above -; Purdie& Oliver, 1999). Purdie and Oliver (1999) analyzed the self-reported use of learning strategies by young schoolchildren (ages 9-12) learning L2 English in Australia, an acquisition context defined as naturalistic. These children exhibited a use of CSs which turned out to be lower than the rest of the strategies analyzed, a finding that accords with the results in the study by Magogwe and Oliver (2007), but contrasts with what has been found in young EFL learners during oral production (AUTHOR 1 2015; AUTHOR 3 2015; García Mayo & Lázaro, 2015; Pladevall-Ballester & Vraciu, 2017).

Thus in this paper we take up the call made by Purdie and Oliver (1999) for more research on young learners' strategy use by exploring the opinions gathered through a questionnaire administered to young EFL learners in a CLIL environment in Spain, a context where the use of CSs has been examined in the course of oral and

written production only. The next section, thus, focuses on the study of CSs in such a context.

CSs in CLIL settings

According to Dalton-Puffer (2011) CLIL is defined as an educational approach where curricular content is taught through the medium of a foreign language, typically to students in some form of mainstream education at the primary, secondary, or tertiary level. A more recent definition by Dalton-Puffer, Llinares, Lorenzo and Nikula (2014) stresses the dual focus of the approach on content and language, as it was originally labelled. Attempts to find similarities and differences between CLIL and other bilingual education programmes such as immersion (see Dalton-Puffer, 2011; Dalton-Puffer & Smit, 2013), or Content-based instruction (CBI; see definition in Richards & Schmidt, 2010: 125) have been made, but the description of what CLIL is in comparison to other bilingual education programmes is not clear (Llinares & Morton, 2017). In particular, while some define CLIL as an example of CBI (Shehadeh, 2017; Lyster, 2017), others find equivalences between CLIL and CBI (e.g., Cenoz, 2015). All in all, they share theoretical and pedagogical considerations (Nikula, Dalton-Puffer & Llinares, 2013), but they are distinct in the following respects:(a) CLIL programmes in Europe are characterized by the use of a foreign language (typically English) instead of a L2 as the language of instruction for content subjects; (b) less than 50% of the curriculum is taught in the foreign language; (c) apart from content instruction through the foreign language, English is also taught as a typical language subject; (d) teachers are usually non-native speakers of the TL and generally they are content specialists rather than language specialists; (e) basic literacy skills are acquired before the CLIL experience (Lasagabaster & Sierra, 2009; Nikula, et al, 2013). But, as Smit (2007) and Marsh

(2009) point out, CLIL comes in different shapes and forms. In fact, Coyle, Hood, and Marsh (2010) propose the idea of a continuum of CLIL types, with content at one end and language at the other. Nonetheless, Llinares and Morton (2017) warn that what actually happens in CLIL experiences is far from what its label stands for, as little integration actually happens. Instead, the primary focus seems to be on content teaching *through* an additional language.

Despite the different implementations of CLIL, all of these programmes are characterized by the provision of more natural and intense input than in mainstream EFL classrooms (Coyle, 2007; Lázaro Ibarrola & García Mayo, 2012; Marsh, 2002; Muñoz, 2007). The type of input offered in these meaning-oriented approaches is communicatively more meaningful than the input provided in non-CLIL programmes. In addition, learners in CLIL tend to use the foreign language for communicative purposes as they consider this language an instrument for interaction rather than an object of study (AUTHOR 3 AND COLLEAGUE, 2015). Learners construct knowledge and develop understanding about the subject-specific content by means of tasks that integrate language and subject-matter teaching goals (AUTHOR 2 AND COLLEAGUES, 2014). The exposure to more meaningful and intense input has been claimed to enhance general proficiency, as well as receptive and productive vocabulary knowledge in CLIL programmes (Agustín Llach & Canga Alonso, 2016; Canga Alonso, 2013; Canga Alonso & Arribas García, 2015; COLLEAGUE AND AUTHOR 3, in press; Jiménez Catalán et al., 2006; Jiménez Catalán & Ruiz de Zarobe, 2009; AUTHOR 1 AND COLLEAGUE, 2013, 2017; Xanthou, 2011). As a result of the greater proficiency and vocabulary knowledge attained by CLIL learners, they have been found not to rely so much on their previously known languages as a CS during production.

submitted to InJAL for peer review

While there is evidence of considerable research on CSs during oral and written production carried out in EFL contexts (Cenoz, 2003; Gost & Celaya, 2005; Muñoz, 2007; Navés, Miralpeix & Celaya, 2005; Poulisse & Bongaerts, 1994; Viladot & Celaya, 2007), little research exists in other educational contexts such as CLIL. Bearing in mind that CLIL implementation and its outcomes are influenced by contextual factors, we have restricted the following review of previous CLIL studies to Spain, where the present study was carried out.

Apart from the fact that most studies have concentrated on secondary education, to our knowledge no studies have examined the whole inventory of CSs, but have mainly focused on L1-based strategies, instead. Some of these studies compare CLIL learners' strategy use to their mainstream EFL counterparts' use in oral and written production in secondary (Celava & Ruiz de Zarobe, 2010; AUTHOR 3 AND COLLEAGUE, 2015) and primary (Agustín Llach, 2009; Celaya, 2008; AUTHOR 1, 2015; García Mayo & Lázaro Ibarrola, 2015; AUTHOR 3, in press; Pladevall-Ballester & Vraciu, 2017) education. The general finding is that CLIL learners produce fewer borrowings (L1 words without any morpho-phonological adaptation) in oral (AUTHOR 1, 2015; Pladevall-Ballester & Vraciu, 2017) and written (Agustín Llach, 2009; Celaya, 2008; Celaya & Ruiz de Zarobe, 2010) production and tend to use the L1 as an interactional strategy to a lesser extent than EFL counterparts (García Mayo & Lázaro Ibarrola, 2015; AUTHOR 3 AND COLLEAGUE, 2015). Results in the use of foreignising (L1 words morpho-phonologically adapted to the L2), however, are somewhat contradictory, as its increased use from early stages observed in some studies (Agustín Llach, 2009; Celaya, 2008; Celaya & Ruiz de Zarobe, 2010) is not confirmed by more recent studies (e.g. AUTHOR 1, 2015), where CLIL learners resort to this CS less frequently than mainstream EFL learners.

Furthermore, to date little research has been carried out that examines the developmental nature of CS use in CLIL contexts, and the very few longitudinal and pseudo-longitudinal studies that have been conducted in CLIL contexts do not exhibit a clear tendency, either. Arratibel Irazusta (2015) found that foreignising was a strategy employed more frequently by beginners in secondary education –findings that support results in AUTHOR 1's (2015) study– but that there were no differences in the use of the L1 as an interactional strategy. On the contrary, Gutiérrez Mangado (2015) found a decrease in appeals for assistance at testing-time 2 in a primary-school context. Regarding borrowings, Arratibel Irazusta (2015) found no differences in their use at two different testing times whereas Gutiérrez Mangado (2015) reported an increase in their use.

Other studies analyzing data gathered through classroom observation have provided evidence of when the L1 and the TL are used (Gené Gil, Juan Garau, & Salazar Noguera, 2012). While the use of the TL (in this case, English) is common in planned discourse, the use of the L1 is still common in these CLIL classes, particularly in unplanned discourse, for disciplinary or organizational purposes. The TL has also been found to be employed in reformulations of learners' utterances (Milla Melero, 2017). Other studies have reported the tuning of teacher talk as a means of facilitating exposure to input at a challenging level (De Graaf, Koopman, & Westhoff, 2007) such as the use of repetitions and paraphrasing or approximation by CLIL teachers when struggling with specific terminology (Dafouz Milne & Llinares García, 2008; Dalton-Puffer, 2007; Hüttner & Rieder-Bünemann, 2010).

The scarce research on young CLIL learners' strategic behaviour suggests the need for more studies that examine the developmental nature of CS use. An inquiry into the whole inventory of CSs is also needed as, to the best of our knowledge, no studies

that examine the use of other CSs such as mime, avoidance or conceptual strategies in CLIL contexts have been reported so far. The present study will address this research gap by analyzing the opinions gathered through a questionnaire concerning the use of CSs by young CLIL learners. This line of research is particularly important when one considers that most research in CLIL has tended to focus on secondary education (Dalton-Puffer & Nikula, 2014).

Research questions

Based on previous findings regarding the effect of proficiency on strategic competence and the use of CSs both CLIL and mainstream EFL learners, we address the following research questions:

RQ 1. Do more proficient CLIL learners display a lower self-reported use of compensatory strategies than less proficient CLIL learners?

RQ 2. Are there any differences in terms of types of compensatory strategies that more and less proficient CLIL learners respectively report using?

The study

Participants

139 participants from the 3rd cycle of Primary Education (Grades 5 and 6) were recruited from a school in Vitoria-Gasteiz, the capital of the Autonomous Community of the Basque Country, a region with two co-official languages (Basque and Spanish) in northern Spain. Table 1 displays the main characteristics of the sample for the purposes of our research.

[TABLE 1 NEAR HERE]

As can be seen, participants were divided into three different English proficiency groups. An English proficiency placement level test had been administered to all participants so that their foreign language competence could be assessed. The test consisted of the reading, listening and writing sections of the Cambridge English Flyersⁱⁱ. The learner sample was divided into three categories on the basis of their English proficiency by dividing the Flyers test results (max = 75) into three portions as a result of both adding and subtracting 'half of the standard deviation value', that is 7.24 (standard deviation =14.48), to the mean score obtained by all subjects in the test, which was 48.88 (minimum obtained = 13; maximum obtained = 71). Participants were thus classified into three different types of foreign language proficiency learners: Lower Beginners (LBs) for those participants who obtained 40 or fewer points in the English test, Beginners (Bs) for those learners between 41 and 56 points, and Upper Beginners (UBs) for those subjects with 57 or more points. In addition, an ANOVA was computed revealing significant differences among the three proficiency levels (F = 460,388; p = .000).

Participants had also been administered a background questionnaire asking them to provide personal data and information about the languages they used for social and academic purposes, as well as the amount of foreign language input received both at school and extramurally. As regards participants' use of the three languages, they had all been exposed to L1 Spanish (majority language in the town as well as the language spoken at home by the children's families since birth), L2 Basque (minority language to which children are exposed from the beginning of nursery school at the age of 2) and L3 English (foreign language not readily available outside the school context where

children's first school exposure occurred at age 4). Both Basque and Spanish were the instruction languages at the school which the students belonged to, English being introduced as a school subject quite early (age 4), and later as a vehicle of instruction to teach other content subjects (e.g.: Arts and Crafts, Physical Education, and Science) from Grade 3 (age 8) onwards. At the time of data collection, Grade 5 and Grade 6 students were receiving 3-4 hours per week of English as a subject and 3-4 hours a week of content lessons delivered in English. Both language and content lessons were delivered by non-native teachers of English who shared participants' L1 and L2. The gap between 3 and 4 hours is accounted for by the fact that language lessons were progressively reduced as CLIL lessons were simultaneously increased, so that learners received from 5 to 7 weekly hours of instruction in English in the course of the two academic years examined. Additionally, 59% of the learners had received exposure to English extramurally, with an average of 2 hours of extra lessons per week in the past Per. few years.

Materials

Apart from the background questionnaire and the English proficiency test previously mentioned, participants completed a strategy questionnaire written in Spanish and adapted from Purdie and Oliver (1999)'s child survey. The questionnaire, which had previously been piloted with same-age children, was made up of forty 5point Likert scale statements aimed at the study of learning strategies in general in which the minimum score for each item was 1 (I strongly disagree) and the maximum 5 (I strongly agree) (see Appendix 1). Out of these forty statements, 11 items were devoted to CSs, which are the focus of our study. These items corresponded to conceptual, linguistic and interactional strategies in line with the taxonomies by Oxford (1989), O'Malley & Chamot (1990), Poulisse (1990) and Tarone (1977). Specifically, from Oxford (1989) and O'Malley & Chamot (1990) the following strategies were selected: *guessing, miming, morphological creativity, dictionary, predicting* and *paraphrasingⁱⁱⁱ*. From the taxonomy by Poulisse (1990), linguistic strategies such as *transfer*, which is broken down into *borrowing, calque* and *foreignising*– were also incorporated in the survey. Finally, *avoidance* and *appeal for assistance* included in the classification by Tarone (1977) were also adopted. Table 2 features the distribution of categories with their corresponding items, which were presented in Spanish to students but are written in English here for the reader's convenience.

[TABLE 2 NEAR HERE]

Data analysis

Data were analyzed for the whole participant sample and for each of the proficiency groups separately. Mean scores (between 1 and 5) and standard deviations were calculated both for the whole set of strategies and for each individual strategy. Kolmogrov-Smirnow tests were run to verify the normality of distribution of the samples. Data were not normally distributed and, thus, non-parametric procedures were used in our study. Kruskal-Wallis tests were computed to investigate if there were any differences among the learner group means. Mann-Whitney tests were subsequently carried out to compare the learners groups in twos (LB vs. B, B vs. UB, and LB vs. UB) so as to verify which of the bidirectional comparisons reached statistical significance. Statistical probability values were marked at below .05 for significant differences and below .09 for marginal differences.

Results

In this section we will present the results for the whole sample and for each of the three proficiency groups separately. Table 3 displays these results for all strategies taken together and also for individual strategies organised as shown in the Materials section (see Table 2). Mean scores (between 1 and 5) and standard deviations (between parentheses) are given. Kruskal-Wallis figures are marked with an asterisk (*) when the p-value (between parentheses) was found to be significant (below .05), and with a hash sign (#) when the p-value was marginally significant (below .09).

[TABLE 3 NEAR HERE]

The first line of Table 3 shows that, when the whole sample is considered, learners reported a moderate use of CSs with a general mean score of 3.39, a slightly positive value considering the range of the scale used (between 1 and 5). The comparison of the means obtained by the three proficiency groups indicated that the reported use of CSs decreased as learners' proficiency increased, values being moderate (between 3.28 and 3.47) for the three learner groups. Inter-group differences, however, did not reach statistical significance, which can be read as the three proficiency groups behaving very similarly as regards their general use of CSs.

As for the analysis of the different individual strategies, striking agreements were also discovered among the three proficiency groups. Firstly, all the learner groups coincided in the strategies which yielded the highest and the lowest mean scores. 'Appeal for assistance' and 'paraphrasing' were reported to be the strategies most frequently used at all proficiency levels, whereas 'morphological creativity' was the strategy that the three proficiency groups said they resorted to the least. Secondly, with regard to the comparisons among the learner groups for each strategy, the Kruskal-Wallis test revealed that on most occasions ('guessing', 'morphological creativity', 'dictionary', 'predicting', 'paraphrasing', 'borrowing', 'calque', and 'appeal for assistance') there were no statistically significant differences among the proficiency groups.

However, two cases were found in which the significance value reached by the Kruskal-Wallis test turned out to be below .05, namely 'avoidance' and 'miming'. A marginal statistical difference was also found in the case of 'foreignising'. The general pattern observed in these cases was that of lower proficiency learners making a greater use of these types of strategies.

Post-hoc analyses were subsequently performed for these three strategies in order to verify the direction of the differences. Table 4 displays the results of the Mann-Whitney tests carried out to look into one-to-one comparisons among the proficiency groups for these three variables. Significance values (between parentheses) are marked with an asterisk (below .05) or a dash (below 0.9) when differences were supported statistically.

[TABLE 4 NEAR HERE]

For 'avoidance' and 'miming', it was clearly seen that LBs reported a significantly higher use than Bs and UBs, differences between Bs and UBs not being statistically significant. As for 'foreignising', it was found that it is UBs that distinguished themselves from Bs and LBs, while no statistical support was reached for the LB vs. B comparison.

Discussion

In this section we will answer the two research questions posed for the present study. As for the first research question (*Do more proficient CLIL learners display a lower selfreported use of compensatory strategies than less proficient CLIL learners?*), no differences emerged when the total number of CSs was examined. Learners in the three proficiency groups examined reported a moderate use of CSs, results that contrast with the ones reported in Purdie and Oliver (1999) for child learners immersed in an ESL context. However, they are in line with studies conducted in EFL contexts (Poulisse et al., 1990). Similarly, this result is also consistent with the findings on the use of learning strategies reported in Hong-Nam and Leavell (2006) and Yilmaz (2010) according to which the category of CSs obtained the highest mean.

In addition, not many differences were found in the analysis of the eleven different strategies examined either, except for 'mime', 'avoidance' and 'foreignising'. The fact that the three groups are still beginner learners may explain the lack of differences between the groups. A comparison at a higher level of proficiency would probably be more likely to yield statistically significant differences among the three proficiency groups. We may also speculate that the difference in the number of hours of exposure received by the three groups is not so great as to observe larger differences in terms of proficiency and in turn in the number of CSs used. In this respect, this study aligns with other pseudo-longitudinal investigations into the use of the L1 as a CS by CLIL learners during oral production (Arratibel Irazusta, 2015).

As for the categories 'mime' and 'avoidance' in which language is not involved, proficiency seems to play a role, as the less proficient learners reported a greater use of these two categories than the beginners and upper beginners, supporting previous research on the effect of proficiency on the selection of these particular types of CSs (Bialystok, 1983; Bialystok & Fröhlich, 1980; Jourdain, 2000; Wannaruk, 2003). At more advanced stages of development, we would expect that the more proficient learners would probably differ from the less proficient learners in those categories in which language is clearly involved, such as 'paraphrasing' (Fernández Dobao, 2002; Poulisse et al., 1990).

As regards the category 'foreignising', which yielded a marginally significant difference, upper beginners reported not resorting to this category so frequently as low beginners and beginner learners, which supplements the existing evidence found in the oral production of CLIL learners (Arratibel Irazusta, 2015; AUTHOR 1, 2015). In other words, this type of strategy does not seem to be so characteristic of more proficient learners as previously thought (Agustín Llach, 2009).

With respect to the second research question (*Are there any differences in terms of types of compensatory strategies that more and less proficient CLIL learners report using?*), the most preferred strategies were 'appeals for assistance' and 'paraphrasing' and the least, 'morphological creativity' in the three proficiency groups. The categories 'paraphrasing' and 'morphological creativity' also coincide with the categories most and least widely used in the studies conducted by Poulisse et al. (1990). Even if research has shown that together with 'avoidance' and 'mime', L1-based strategies ('borrowing', 'calque' and 'foreignising') are usually more common among less proficient learners (i.e. AUTHOR 1, 2015; AUTHOR 3, in press; AUTHOR 3 AND COLLEAGUE, 2015), these CLIL learners, who are still beginner learners, seem to use some L2-based strategies (i.e. paraphrasing), which are typical of more advanced learners and may evince an advantage in line with other attested linguistic benefits of CLIL contexts (Agustín Llach & Canga Alonso, 2016; Merino & Lasagabaster, 2017). In other words, the effect of proficiency seems to be overruled by the effect of CLIL in this respect. The

fact that CLIL learners are used to employing the foreign language as a means of communication might lead them to risk more and to manipulate concepts in the TL to a larger extent. Additionally, the type of input received by CLIL learners could also be a factor accounting for their use of CSs characteristic of more advanced learners. In CLIL contexts, teachers tend to paraphrase with greater frequency and reformulate both their own and learners' utterances as well as scaffolding learners' messages so as to avoid communication breakdowns (Dafouz-Milne & Llinares-García, Dalton-Puffer, 2007, Huttner & Rieder-Bunemann, 2010). In this respect, the learners in this study might be imitating their teachers' behaviour.

But despite the greater use of paraphrases reported by these CLIL learners, they still manifest an extensive use of 'appeals for assistance', which seems to contradict what has been previously found in CLIL research with respect to this strategy (see AUTHOR 3, in press; AUTHOR 3 AND COLLEAGUE,, 2015). Nevertheless, this finding would be in line with studies that investigated the use of the developmental nature of learning strategy use (Victori & Tragant, 2003), according to which a younger age seems to favour the choice of this particular social strategy.

Conclusion

This study set out to investigate the role that TL proficiency plays in young CLIL learners' reported use of CSs as well as in their preference regarding the type of strategies employed during production of the TL.

This study has revealed a moderate-to-high use of CSs. Even if these learners are involved in a CLIL programme, where a focus on meaning is promoted, they are still in an EFL context where the language is not used for communication purposes outside the school. Besides, a low impact of proficiency has been found on the amount of CS use, probably because participants still were beginner learners. Regarding types, proficiency differences were found in the case of avoidance, mime and, more marginally, foreignising. These strategies were more common among low-proficient learners, a finding which is in line with oral production data analyzed in previous studies. Additionally, the results suggested that proficiency might be overruled by the effect of CLIL, as learners immersed in this type of meaning-oriented approach reported using strategies typical of more advanced learners, namely paraphrasing, a finding which would agree with the purported linguistic benefits of CLIL (Agustín Llach & Canga Alonso, 2016).

Some pedagogical implications can be drawn from our findings. First, teachers should take into consideration TL proficiency-based differences while learners need to compensate their lack of knowledge when interacting with others. In an attempt to foster TL use they could, for instance, develop classroom activities which prevent beginner learners from using non-linguistic strategies such as avoidance or mime. Interactive tasks in which students cannot see but just hear each other might be helpful in this regard. Second, regarding L2-based strategies, teachers should become aware of the fact that young CLIL students, despite their low proficiency, report having more advanced TL resources to paraphrase and to explain themselves in different ways, and thus make use of this potential in their content lessons. Third, primary education teachers must take cognisance of the fact that social strategies, namely appeals for assistance, seem to be quite abundant in young learners, and take benefit of this fact when designing tasks for their language or content lessons. Finally, as for the L1-based strategies that these three groups of CLIL learners report resorting to (i.e.; borrowing, foreignising), in the light of existing evidence that the use of the L1 can be a useful resource in bilingual and/or multilingual education (see Gené Gil, Juan Garau, & Salazar Noguera, 2012),

submitted to InJAL for peer review

and following current theoretical perspectives that consider the L1 a cognitive and mediating tool that might report multiple advantages in language learning (see Lo & Lin 2015), we advocate a judicious use of these languages.

For future research, a longitudinal study of self-reported opinions over time, as in Serra (2007), would be advisable since self-reported behaviours in survey research are surely unstable (Macaro, 2006; Oxford et al., 2004) and change over time (Tseng et al., 2006). Secondly, it would be convenient to compare these three groups of beginner learners at a higher level of proficiency, as proficiency may interact with such variables as age or any other age-related variables, namely attitudes or motivation. Thirdly, a comparison of these CLIL learners with non-CLIL learners would also shed more light on the effect of CLIL and, more particularly, it would help to differentiate the effects of CLIL from those of formal English learning courses. Fourthly, a better comparison between our survey research findings and those of studies comparing CLIL and non CLIL learners while performing production tasks (e.g.: Agustín Llach, 2009; Celaya & Ruiz de Zarobe, 2010; García Mayo & Lázaro Ibarrola, 2015, among others) could be established. Finally, following Gao's (2007) recommendation, triangulation of the selfreported opinions analyzed in this study with other linguistic behaviour measurements from the same participants would be recommendable. As in Kahn & Victori (2011), we are awaiting the results of the comparison between the findings of the survey study presented here and the results of observations of the CSs these participants actually use when they are engaged in an interactive oral activity with their peers. This way, some of the general criticisms made about the reliability of survey research outcomes (Cohen, 1998; Dörnvei, 2003; Ellis, 2008; Kahn & Victori, 2011) could be overcome.

Acknowledgements

References

. . .

- Agustín Llach, M. P. (2009). The role of Spanish L1 in the vocabulary use of content and non-content EFL learners. In Y. Ruiz de Zarobe & R.M. Jiménez Catalán (Eds.), *Content and Language Integrated Learning: Evidence from research in Europe* (pp. 112-129). Bristol: Multilingual Matters.
- Agustín Llach, M. P. (2014, October). *L1 use in children EFL learners in traditional versus CLIL instruction.* Paper presented at the International Conference on Child Foreign Language Acquisition, Vitoria-Gasteiz (Spain).
- Agustín Llach, M. P. & Canga Alonso, A. (2016). Vocabulary growth in young CLIL and traditional ELF learners: Evidence from research and implications for education. *International Journal of Applied Linguistics*, 26(2), 145-287.doi: <u>https://doi.org/10.1111/ijal.12090</u>
- Arratibel Irazusta, I. (2015). 'They start to busq the jump': A pseudolongitudinal study of crosslinguistic influence in 13 English CLIL learners. Unpublished master's thesis, University of the Basque Country.

AUTHOR 1 (2015)

- AUTHOR 1 AND COLLEAGUE, 2013
- AUTHOR 1 AND COLLEAGUE, 2017
- AUTHOR 2 AND COLLEAGUES, 2014
- AUTHOR 3 (in press)

AUTHOR 3 AND COLLEAGUE (2015)

COLLEAGUE AND AUTHOR 3 (in press)

- Bialystok, E. (1983). Some factors in the selection and implementation of communication strategies. In C. Faerch & G. Kasper (Eds.). *Strategies in interlanguage communication* (pp. 100-118). London: Longman.
- Bialystok, E. (1990). Communication Strategies: A psychological analysis of second language use. Oxford: Basil Blackwell.
- Bialystok, E., & Frohlich, M. (1980).Oral communication strategies for lexical difficulties. *Interlanguage Studies Bulletin*, 5(1), 3-30.
- Canga Alonso, A. (2013). The receptive vocabulary of Spanish 6th grade primary school students in CLIL instruction: A preliminary study. *Latin American Journal* of Content and Language Integrated Learning, 6(2), 22–41. doi: <u>https://doi.org/10.5294/laclil.2013.6.2.2</u>
- Canga Alonso, A., & Arribas García, M. (2015). The benefits of CLIL instruction in Spanish students' productive vocabulary knowledge. *Encuentro: Revista de investigación e innovación en la clase de idiomas*, 24, 15–31.
- Celaya, M. L. (2008). 'I study natus in English': Lexical transfer in CLIL and regular learners. In R. Manroy, & A. Sánchez (Eds.). 25 años de lingüística aplicada en España: Hitos y retos (pp. 43-49). Murcia: Editum (Ediciones de la Universidad de Murcia).
- Celaya, M. L., & Ruiz de Zarobe, Y. (2010). First language and age in CLIL and non-CLIL contexts. *International CLIL Research Journal*, 1(3), 60-66.
- Cenoz, J. (2003). Cross-linguistic influence in third language acquisition: Implications for the organization of the multilingual mental lexicon. *Bulletin VALS-ASLA* (*Vereinigung für angewandte Linguistik in der Schweiz*), 78, 1-11.

- Cenoz, J. (2015). Content-based instruction and content and language integrated learning: The same or different? *Language, Culture and Curriculum*, 28(1), 8-24. doi: https://doi.org/10.1080/07908318.2014.1000922
- Corder, P. (1978). Strategies of communication. In C. Faerch, & G. Kasper (Eds.), *Strategies in interlanguage communication* (pp. 15-19). London: Longman.
- Coyle, F. (2007). Content and language integrated learning: Toward a connected research agenda for CLIL pedagogies. *International Journal of Bilingual Education and Bilingualism*, 10, 543-562. doi: <u>https://doi.org/10.2167/beb459.0</u>
- Dafouz-Milne, E. & Llinares-García, A. (2008). The Role of Repetition in CLIL Teacher Discourse: A Comparative Study at Secondary and Tertiary Levels. *International CLIL Research Journal*, 1, 50-59.
- Dalton-Puffer, C. (2007). *Discourse in Content and Language Integrated Learning*. Amsterdam: John Benjamins. doi: <u>https://doi.org/10.1075/lllt.20</u>
- Dalton-Puffer, C. (2011). Content-and-language integrated learning: From practice to principles? *Annual Review of Applied Linguistics*, 31, 182-204. doi: https://doi.org/10.1017/s0267190511000092
- Dalton-Puffer, C., & Nikula, T. (2014). Content and language integrated learning (guest editorial). *The Language Learning Journal*, 42, 117-122. doi: <u>https://doi.org/10.1080/09571736.2014.891370</u>
- Dalton-Puffer, C., & Smit, U (2013). Content and language integrated learning: A research agenda. *Language Teaching*, 46 (4), 545-559. doi: <u>https://doi.org/10.1017/s0261444813000256</u>
- Dalton-Puffer, C., Llinares, A., Lorenzo, F. & Nikula, T. (2014). "You can stand under my umbrella". Immersion, CLIL and bilingual education. A response to Cenoz,

Genesee & Gorter (2013). *Applied Linguistics*, 35(2), 213-218. doi: https://doi.org/10.1093/applin/amu010

- De Graaff, R., Koopman, G.J., Anikina, Y., & Westhoff, G. (2007). An observation tool for effective L2 pedagogy in Content and Language Integrated Learning (CLIL). *International Journal of Bilingual Education and Bilingualism*, 10(5), 603-624. doi: <u>https://doi.org/10.2167/beb462.0</u>
- Dörnyei, Z. (2003). Questionnaires in second language research: Construction, administration, and processing. Mahwah, NJ: Lawrence Erlbaum. doi: <u>https://doi.org/10.4324/9781410606525</u>
- Dörnyei, Z., & Scott, M. L. (1997). Communication strategies in a second language: Definitions and taxonomies. *Language Learning*, 47(1), 173-210. doi: <u>https://doi.org/10.1111/0023-8333.51997005</u>
- Ehrman, M., & Oxford, R. (1990). Adult language learning styles and strategies in an intensive training setting.*Modern Language Journal*, 74, 311-326. doi: <u>https://doi.org/10.2307/327627</u>
- Ellis, R. (2008). *The study of second language acquisition*. Oxford: Oxford University Press.
- Færch, C., & Kasper, G. (1980). Processes and strategies in foreign language learning and communication. *Interlanguage Bulletin Studies*, 5, 47-118.
- Færch, C., & Kasper, G. (1983). Strategies in interlanguage communication. London: Longman.
- Færch, C., & Kasper, G. (1984). Two ways of defining communication strategies. Language Learning, 34, 45-63.doi: <u>https://doi.org/10.1111/j.1467-1770.1984.tb00995.x</u>

- Fernández Dobao, A. M. (2002). The effect of language proficiency on communication strategy use: a case study of Galician learners of English. *Miscelánea: A Journal of English and American Studies, 25,* 53-75.
- Gao, X. (2007). Has language learning strategy research come to an end? A response to Tseng et al. 2006. *Applied Linguistics*, 28(4), 615-620. doi: <u>https://doi.org/10.1093/applin/amm034</u>
- García Mayo, M. P., & Lázaro Ibarrola, A. (2015). Do children negotiate for meaning in task-based interaction? Evidence from CLIL and EFL settings. *System, 54*, 40-54. doi: <u>https://doi.org/10.1016/j.system.2014.12.001</u>
- Gené Gil, M., Garau, M. J., & Salazar Noguera, J. (2012). A case study exploring oral language choice between the target language and the L1s in mainstream CLIL and EFL secondary education.*Revista de Lingüística y Lenguas Aplicadas, 7*(1), 133-146. doi: <u>https://doi.org/10.4995/rlyla.2012.1129</u>
- Gost, C., & Celaya, M. L. (2005). Age and the use of the L1 in EFL oral production. In
 M. L. Carrió Pastor (Ed.), *Perspectivas interdisciplinares de la lingüística* aplicada (pp. 129-136). Valencia: Universitat Politècnica de València.
- Green, M. & Oxford, R. (1995). A closer look at learning strategies, L2 proficiency and gender. TESOL Quarterly, 29, 261–297. doi: <u>https://doi.org/10.2307/3587625</u>
- Griffiths, C. (2003). Patterns of language learning strategy use. *System*, *31*, 367-383. doi:<u>https://doi.org/10.1016/s0346-251x(03)00048-4</u>
- Gutiérrez Mangado, J. (2015, April). *The development of L1 use by school children in CLIL and non-CLIL contexts.* Paper presented at the 33rd AESLA International Conference, Madrid (Spain).

Hong-Nam, K., & Leavell, A. G. (2006).Language learning strategy use of E	ESL
students in an intensive English learning context. System, 34, 399-415. d	loi:
https://doi.org/10.1016/j.system.2006.02.002	

- Huttner, J., & Rieder-Bunemann, A. (2010). A cross-sectional analysis of oral narratives by children with CLIL and non-CLIL instruction. In C. Dalton-Puffer, T. Nikula, & U. Smit (Eds.), *Language use and language learning in CLIL classrooms* (pp. 61–80). Amsterdam: John Benjamins. doi: <u>https://doi.org/10.1075/aals.7.04hut</u>
- Hyde, J. (1982). The identification of communication strategies in the interlanguage of Spanish speakers of English. *Anglo-American Studies*, *2*(1), 13-30.
- Jiménez Catalán, R. M., & Ruiz de Zarobe, Y. (2009). The receptive vocabulary of EFL learners in two instructional contexts: CLIL versus non-CLIL. In R. M. Jiménez Catalán & Y. Ruiz de Zarobe (Eds.), *Content and language integrated learning. Evidence from research in Europe* (pp. 81–92). Bristol: Multilingual Matters.
- Jiménez Catalán, R. M., Ruiz de Zarobe, Y., & Cenoz, J. (2006). Vocabulary profiles of English foreign language learners in English as a subject and as a vehicular language. *Vienna English Working Papers (VIEWS)*, 15(3), 23–27.
- Jourdain, S. (2000). A native-like ability to circumlocute. *The Modern Language Journal*, 84(2), 185-195. doi: <u>https://doi.org/10.1111/0026-7902.00061</u>
- Khan, S., & Victori, M. (2011). Perceived vs. actual strategy use across three oral communication tasks. *International Review of Applied Linguistics in Language Teaching*, 49, 27-53. doi: <u>https://doi.org/10.1515/iral.2011.002</u>
- Lázaro Ibarrola, A., & García Mayo, M. P. (2012). L1 use and morphosyntactic development in the oral production of EFL learners in a CLIL context. *International Review of Applied Linguistics*, 50, 135-160. doi: <u>https://doi.org/10.1515/iral-2012-0006</u>

- Liskin-Gasparro, J. E. (1996). Circumlocution, communication strategies, and the ACTFL proficiency guidelines: An analysis of student discourse. *Foreign Language Annals, 29*(3), 317-330.doi: <u>https://doi.org/10.1111/j.1944-</u> 9720.1996.tb01245.x
- Lo, Y. Y., & Lin, A. M. Y. (2015). Introduction to Special Issue: Designing Multilingual and Multimodal CLIL Frameworks for EFL students. *International Journal of Bilingual Education and Bilingualism*, 18(3): 261-269.
- Lyster, R. (2017). SLA perspectives on learning and teaching language through content.
 In A. Llinares & T. Morton (Eds.), *Applied Linguistics Perspectives on CLIL* (pp. 19-31). Amsterdam: John Benjamins. doi: <u>https://doi.org/10.1075/lllt.47.02lys</u>
- Macaro, E. (2006). Strategies for language learning and language use: Empirical implications for questionnaire studies. *JACET Bulletin, 31,* 21-32.
- Magogwe, J. M. & Oliver, R. (2007). The relationship between language learning strategies, proficiency, age and self-efficacy beliefs: A study of language learners in Botswana. *System*, 35(3), 338-352. doi: https://doi.org/10.1016/j.system.2007.01.003
- Marsh, D. (2002). *CLIL/EMILE- The European dimension: Actions, trends and foresight potential.* Brussels: European Comission.
- Merino, J. A. & Lasagabaster, D. (2017, early view). The effect of content and language integrated learning programmes' intensity on English proficiency: A longitudinal study. *International Journal of Applied Linguistics*. doi: <u>https://doi.org/10.1111/ijal.12177</u>
- Milla Melero, R. (2017). Corrective feedback episodes in CLIL and EFL classrooms: teachers' and learners' beliefs and classroom behaviour. Unpublished dissertation, University of the Basque Country.

- Morton, T. & Llinares, A. (2017). Content and Language Integrated Learning (CLIL):
 Type of programme or pedagogical model? In Llinares, A. & Morton, T. (Eds.).*Applied Linguistics Perspectives on CLIL*. (pp. 1-16). Amsterdam: John Benjamins. doi: <u>https://doi.org/10.1075/lllt.47.01mor</u>
- Muñoz, C. (2007). Cross-linguistic influence and language switches in L4 oral production. *Vigo International Journal of Applied Linguistics, 4,* 73-94.
- Navés, T., Miralpeix, I. & Celaya, M. L. (2005). "Who transfers more...and what? Cross-linguistic influence in relation to school grade and language dominance in EFL". *International Journal of Multilingualism*, 2(2), 113-134. doi: <u>http://dx.doi.org/10.1080/14790710508668380</u>
- Nikula, T., Dalton-Puffer, C. & Llinares, A. (2013). European research on CLIL classroom discourse. *Journal of Immersion and Content-Based Language Education*, 1(1), 70-100. doi: <u>https://doi.org/10.1075/jicb.1.1.04nik</u>
- O'Malley, J. M., & Chamot, A. U. (1990). *Learning strategies in second language acquisition*. Cambridge: Cambridge University Press. doi: https://doi.org/10.1017/CBO9781139524490
- Oxford, R.L. (1989). Use of language learning strategies: a synthesis of studies with implications for strategy training. System, 17, 235-247. doi: <u>https://doi.org/10.1016/0346-251x(89)90036-5</u>
- Oxford, R. L. (1990). *Language learning strategies: what every teacher should know*. Newbury House. doi: <u>https://doi.org/10.2307/329849</u>
- Oxford, R., Cho, Y., Leung, S. & Kim, H-J. (2004). Effect of the presence and difficulty of task on strategy use: An exploratory study. *International Review of Applied Linguistics*, *42*, 1-47.doi: <u>https://doi.org/10.1515/iral.2004.001</u>

Paribakht, T. (1985). Strategic competence and language proficiency. *Applied Linguistics*, 6(2), 132-146. doi: <u>https://doi.org/10.1093/applin/6.2.132</u>

- Pladevall-Ballester, E., & Vraciu, A. (2017). Exploring early EFL: L1 use in oral narratives by CLIL and non-CLIL primary school learners. In M. P. García Mayo (Ed.), *Learning foregin languages in primary school: Research insights*. Clevedon: Multilingual Matters. doi: https://doi.org/10.21832/garcia8101
- Poulisse, N. (1990). *The use of compensatory strategies by Dutch learners of English*. Dordrecht: Foris.
- Poulisse, N. (1993). A theoretical account of lexical communication strategies. In R. Schreuder & B. Weltens (Eds.), *The bilingual lexicon* (pp. 157-189). Amsterdam: John Benjamins. doi: <u>https://doi.org/10.1075/sibil.6.09pou</u>
- Poulisse, N. (1997). Some words in defense of the psycholinguistic approach. *Modern Language Journal, 81,* 324-328.doi: <u>https://doi.org/10.1111/j.1540-</u> 4781.1997.tb05489.x
- Poulisse, N., & Bongaerts, T. (1994). First language use in second language production. *Applied Linguistics*, 15(1), 36-57. doi: <u>https://doi.org/10.1093/applin/15.1.36</u>
- Poulisse, N., Bongaerts, T., & Kellerman, E. (1990). *The use of compensatory strategies by Dutch learners of English.* Enschede: Sneldruk.
- Purdie, N., & Oliver, R. (1999). Language learning strategies used by bilingual schoolaged children. System, 27, 375-388. doi: <u>https://doi.org/10.1016/s0346-251x(99)00032-9</u>
- Richards, J. & Schmidt, R. (2010). Longman Dictionary of Language Teaching and Applied Linguistics (4thedn.) London: Longman. doi: <u>https://doi.org/10.1108/09504121111114171</u>

- Salahshour, F., Sharifi, M. & Shalahshour, N. (2013). The relationship between language learning strategy use, language proficiency level and learner gender. *Procedia-Social and Behavioral Sciences*, 70, 634-643.doi: <u>https://doi.org/10.1016/j.sbspro.2013.01.103</u>
- Serra, C. (2007). Assessing CLIL at primary school: A longitudinal study. *The International Journal of Bilingual Education and bilingualism*, 10(5), 582–602.
- Shehadeh, A. (2018). Foreword: New frontiers in Task-based language teaching. In J. Ahmadian & M. P. García Mayo (Eds.), *Recent Perspectives on Task-Based Language Learning and Teaching* (pp. vii-xxi). Boston: Walter de Gruyter. doi: <u>https://doi.org/10.1515/9781501503399-015</u>
- Taguchi, T. (2002). Learner factors affecting the use of learning strategies in crosscultural contexts. *Prospect*, *17*(2), 18–31.
- Tarone, E. (1977). Conscious communication strategies in interlanguage: A progress report. In H. D. Brown, C. A. Yorio & R. C. Crymes (Eds.), On TESOL 77: Teaching and Learning English as a Second Language: Trends in Research and Practice (pp. 194-203). Washington D.C.: TESOL.
- Tarone, E. (1981). Some thoughts on the notion of communication strategy. TESOL Quarterly, 15(3), 285-295. doi: <u>https://doi.org/10.2307/3586754</u>
- Tseng, W., Dörney, Z., & Schmidt, N. (2006). A new approach to assessing strategic learning: The case of self-regulation in vocabulary acquisition. *Applied Linguistics*, 27(1): 78-102. doi: <u>https://doi.org/10.1093/applin/ami046</u>
- Váradi, T. (1973). Strategies of target language learner communication: Message adjustment. *International Review of Applied Linguistics*, 18, 59-72.
- Victori, M., & Tragant, E. (2003). Learner strategies: A cross-sectional and longitudinal study of primary and high-school EFL learners. In M. P. García Mayo & M. L.

García Lecumberri (Eds.), *Age and the acquisition of English as a foreign language* (pp. 182-209). Clevedon: Multilingual Matters.

- Viladot, J., & Celaya, M. L. (2007). 'How do you say preparar?': L1 use in EFL oral production and task-related differences. In M. Losada Friend, P. Ron Vaz, S. Hernández Santano & J. Casanova García (Eds.), *Proceedings of the 30th international AEDEAN conference*. Huelva: U de Huelva.
- Wannaruk, A. (2003). Communication strategies employed by EST students. *Studies in Language and Language Teaching*, *12*, 1-18.
- Xanthou, M. (2011). Current trends in L2 vocabulary learning and instruction. Is CLILthe right approach? Advances in research on language acquisition and teaching:SelectedPapers.Retrieved

from http://www.enl.auth.gr/gala/14th/ Papers/English%20papers/Xanthou.pdf.

- Yılmaz, C. (2010). The relationship between language learning strategies, gender, proficiency and self-efficacy beliefs: a study of ELT learners in Turkey. *Procedia-Social and Behavioral Sciences*, 2(2), 682-687. doi: https://doi.org/10.1016/j.sbspro.2010.03.084
- Yule, G., & Tarone, E. (1990). Eliciting the performance of strategic competence. In R.
 Scarcella, E. Andersen & S. Krashen (Eds.), *developing communicative competence in a second language* (pp. 179-184). Boston: Heinle & Heinle.

TABLES

	English proficiency	Mean age	Mean hours	Ger	nder
	Mean SD		of exposure	М	F
Lower Beginner	30.00 (6.61)	10.71	782.00	68.57	31.43
(n=35)					
Beginner (n=52)	48.15 (4.81)	10.59	789.19	55.77	44.23
Upper Beginner	63.67 (4.09)	10.90	818.62	61.54	38.46
(n=52)	Ö.				
Table 1. Participants					

Table 1. Participants

Purdie & Oliver (1999)	Guessing	If I don't understand something in English, I guess what it means.
(1999)	Miming	If I can't think how to say something in English, I use my hands to show what I mean.
	Morphological creativity	If I can't think how to say something in English, I make up new words.
	Dictionary	If I don't understand what something means in English, I look it up in a dictionary.
	Predicting	When someone talks to me in English I try and guess what they will say next.
	Paraphrasing	If I can't think how to say something in English, I use other words that mean the same thing.
Poulisse (1990)	Borrowing	If I can't think how to say something in English, I say it in my mother tongue.
	Calque	If I can't think how to say something in English, I translate word for word from my mother tongue.
	Foreginising	If I can't think how to say something in English, I adapt a word from my mother tongue.
Yule & Tarone (1990)	Avoidance	If I can't think how to say something in English, I avoid referring to it.
(Appeal for assistance	If I can't think how to say something in English, I ask for help.

Table 2. Distribution of CSs.

STRATEGIES	ALL	LB	В	UB	Kruskal-
					Wallis
					(sig.)
All Strategies	3.39 (.56)	3.47 (.60)	3.42 (.55)	3.28 (.53)	2.198 (.333)
Guessing	3.66 (1.32)	3.56 (1.28)	3.87 (1.25)	3.46 (1.41)	.2531 (.281)
Miming	2.74 (1.36)	3.38 (1.53)	2.58 (1.36)	2.42 (1.19)	9.046 (.011)*
Morphological creativity	2.24 (1.27)	2.47 (1.54)	2.08 (1.17)	2.27 (1.19)	.891 (.641)
Dictionary	3.80 (1.13)	3.69 (1.20)	3.73 (1.20)	3.88 (1.00)	.335 (.856)
Predicting	3.16 (1.28)	3.19 (1.35)	3.27 (1.25)	3.00 (1.26)	1.285 (.526)
Paraphrasing	4.09 (.96)	3.94 (.95)	4.21 (.96)	4.02 (1.00)	2.537 (.281)
Borrowing	3.75 (1.33)	3.64 (1.47)	3.94 (1.29)	3.66 (1.25)	2.070 (.355)
Calque	3.39 (1.21)	3.18 (1.33)	3.71 (1.06)	3.30 (1.18)	4.322 (.115)
Foreginising	3.01 (1.40)	3.27 (1.62)	3.16 (1.33)	2.66 (1.27)	5.064 (.079)#
Avoidance	3.07 (1.30)	3.53 (1.11)	2.83 (1.22)	2.90 (1.43)	6.730 (.035)*
Appeal for assistance	4.57 (.62)	4.52 (.71)	4.47 (.70)	4.67 (.47)	1.939 (.379)

Table 3. Means and standard deviations for reported use of CS

STRATEGIES	LB vs. B	B vs. UB	LB vs. UB
Avoidance	-2.562 (.010)*	103 (.918)	-2.072 (.038)*
Miming	-2.357 (.018)*	399 (.690)	-2.947 (.003)*
Foreignising	607 (.544)	-1.904 (.057)#	-1.855 (.064)#

¹Proficiency was determined by the average grades at university.

ⁱⁱ Cambridge English Flyers is a Cambridge English exam specially designed for children in primary and lower-secondary school. It assesses the four language skills (listening, reading, writing and speaking) and it is targeted at Level A2 of the Common European Framework of Reference for Languages (CEFR). See http://www.cambridgeenglish.org/exams/young-learners-english/flyers/test-format/

ⁱⁱⁱ Note that 'paraphrasing' (conceptual strategy) and morphological creativity (linguistic strategy) belong to the classification by Poulisse (1990). The strategy 'miming' is also included in Tarone (1977).

erez