Problems following topic shift in interactions with repaired cleft children

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ABSTRACT
Children with a history of cleft lip and/or palate (CL/P) can experience a range of difficulties such as sound articulation errors and reduced psychosocial functioning. This causes interaction with them to contain more frequent communication breakdowns than non-cleft children. The present study shows evidence of such breakdowns involving topic shifts in the interaction between parents and their repaired CL/P children. Interactional data were obtained through a series of recordings of three parent-child sets. The process is guided by the framework of Conversation Analysis (CA) while coding of topic shift adopts Crow’s typology (1983). Findings show that topic shift during interaction can indeed cause problems for children with a history of cleft, especially involving palatal cleft. Specifically, through the children’s repair initiations, the problems are manifest when a topic is introduced once the previous topic concludes, when a topic is extended and when a topic is revisited. This study shows that topic shift can potentially be a source of problems to CL/P children. Findings are useful for speech therapists, parents and teachers.

Keywords: Cleft lip and/or palate; communication breakdown; conversation analysis; parent-child interaction; topic shift

INTRODUCTION
Cleft lip and/or palate (CL/P) is the most common birth defect around the world (Xiangyou et al., 2019). The occurrence is recorded to generally impact one in every 700 live births worldwide but cleft cases in South-East Asian countries seem to be higher where the prevalence is between 1.1 and 1.9 per 1000 live births (Abumustafa et al., 2019). In Malaysia, its occurrence is recorded at 1.24/1000 births. The causes of cleft are primarily linked to history of cleft in family and/or substances taken by mother during pregnancy. However, definite causes are yet to be determined (Chetpakdeeitchit, 2010).

Cleft is classified based on the affected areas: cleft lip, cleft palate or cleft lip and palate. Given lip and hard palate are parts of speech mechanism, one negative consequence of cleft is on speech development. Speech of cleft-affected children is characterised into three: audible nasal air escape, hypernasality and weakening of high-pressure consonants such as /p/, /t/ and /k/ (Havstam, 2010).

To correct speech outcome, corrective surgery is the immediate treatment plan which later will be followed by other associated treatments such as speech therapy.

However, as surgery will not be performed until babies reach certain level of weight, language delays can be expected. Several studies have documented the deficits in early language development such as delays in expressive vocabularies as well as syntax (Boyce et al., 2018). The usage of vocabularies was found to be poorer when cleft children are compared to normal developing toddlers (Lancaster et al., 2020). Further
comparison also showed them to be lacking in consonant inventory and produce significantly more error patterns (Scherer et al., 2012).

With poor early language development skills, children with cleft even after corrective surgery can develop difficulties in psychosocial functioning (De Sousa et al., 2009) and interactional skills (Belucì & Genaro, 2016). In a broader linguistic term of pragmatics, interactional skills of cleft-affected children are the least area to be investigated due to high attention on pronunciation aspect (Frederickson et al., 2006). However, there is indeed a number of studies focusing on how such children participate in everyday interaction (McGahey, 2004).

One of the early studies is Chapman et al. (1998) that has examined conversational skills of preschool- and school-age children with history of cleft. When they are compared to non-cleft children of similar age, cleft children are found to have lesser assertive profiles; whereby most of their utterances are due to initiation by other speakers. Similarly, Frederickson et al. (2006) found lesser assertive utterances in the speech of younger children with history of cleft than normal developing children. Such children are also identified to be passive speakers.

In a higher age group, Slifer et al. (2004) recorded stimulated interaction of repaired cleft children between the age of 8 and 15 years old. Results in particular have identified their failure to give responses to conversational partners’ questions, have limited questions being asked to others and score lower Rho correlation value than non-cleft participants in certain speech acts such as making offer. In addition, parents have also reported them to be socially incompetent. In agreement to Slifer’s, Cocquyt et al. (2012) claimed that problems in starting up and participating in conversation are common among cleft children. This is especially true when cleft children are compared to other clinical populations such as autistic and Down syndrome children who exhibit different types of problems.

Overall, findings are consistent to show the deficiency in social interaction among cleft-affected children. Such issue may be derived from poor cognitive functioning that the children are expected to develop. In addition to language and social, cognitive is another important skill for efficient social interaction (Cho & Larke, 2010). For these children, studies have identified their poorer cognitive functioning across all domains of testing such as processing speed, memory, attention and language (Roberts et al., 2012). As such, one can predict the difficulty for cleft children to participate in social interaction that happens spontaneously and experiences topic change at swift.

Topic is an important element of conversation. Even though the notion has been used to describe several concepts in linguistics (Baker, 2016), topic within the discourse of conversation is commonly defined as the “aboutness” of conversation (Riou, 2015) or something that speakers choose to talk about which then, becomes the content of conversation (Bloch et al., 2015). This understanding hence positions topic to be the “building block” of conversation (Baker, 2016, p. I).

Riou (2015) characterised topic into three main characteristics; topic becomes the speakers’ shared attention, it is not exterior to speakers or interactional setting and it is co-constructed where speakers take turns to make their contributions such as asking questions, commenting or giving responses. With specific reference to the third characteristic, the negotiation through turn-taking system allows topics to have flow and continuation and hence, be developed (Nuri & Waode, 2017). Topic development also allows conversation to not simply be restricted to one particular topic only. In fact, conversation is claimed to often include many topics (Sharimila Bai & Kuang, 2018). Some processes that enable topic development include topic continuation, topic shift, topic reintroduction and topic recycling (Gardner, 1987).

It is thus essential for speakers to be equipped with the ability to manage topics properly when topics are many. Existing literatures have documented several linguistic resources that are employed by speakers to indicate change or transition between topics. These include among others words such as “so” (Bolden, 2009), prosodic property (Riou, 2017) and laughter (Bonin et al., 2012). However, topic change can also happen without speakers being specific or using explicit element to inform other speakers on the change. Especially in such case, topic change can bring negative implications to mutual understanding between speakers. Schegloff (1979) showed that if turn containing topic change is not produced with self-repair, it is likely that the next turn will include repair initiation.

Schegloff (1979) has provided evidence that topic change can be one of the reasons for communication breakdown to occur between speakers. For this reason, we can expect the severity of such problem to be higher when conversation involves speakers with specific language disorders. For example, speakers with motor speech problems or dysarthria are seen to encounter problem in conversation when there is transition between topics (Bloch et al., 2015). Similarly, autistic children who are well documented to have social communication deficits have been documented to demonstrate poor topic management skill (Sevlever et al., 2015). Children with language delays also
exhibit difficulties in topic management during interaction (van Balkom et al., 2010).

Clearly, topic shift is one aspect of conversation that can cause problem for language impaired population (Bloch et al., 2015). In light with this, the present study is conducted to highlight evidences of communication breakdowns found in data of daily interaction between parents and their children with history of CL/P. Specifically, this study attempts to show that when parents execute topic change such as topic extension or initiate new topic, the children would experience problems that are evident in their repair initiation turns. In other words, when there is topic shift in interaction, there is a high a high chance of the next turn by children to be repair initiation turn to indicate their problems.

METHOD

Research design

This study intends to highlight communication breakdowns that have occurred following topic shift made by conversational partners in everyday interaction with repaired cleft children. As such, the method of Conversation Analysis (CA) that is primarily qualitative is adopted to guide the data collection procedure and data analysis technique.

Participants

The primary participants of this study are children with repaired CL/P while parents are included to serve as children’s conversational partners. Specifically, three parent-child sets were recruited for their everyday interactions to be recorded and analysed. The recruitment of the participants was made through two cleft centres; one is a cleft clinic governed by a university’s hospital and the other is a non-profit organisation that caters to cleft-affected families. Selection of participants is restricted to first, language that they use to interact (Malay language and English language) for the purpose of understanding and secondly, children being at primary school age with history of cleft. Other variables such as gender, cleft types or severity level and socio-economic status of the family are not within the scope of this study.

The permission for the family to participate was initially granted by the administrators at the two aforementioned centres. Once the family was informed, parents were explained on the objectives of study, their rights to withdraw and outcomes of the study. Subsequently, children’s participation was granted by their respective parents. The formal inclusion was made through parents signing an informed consent letter.

Table 1 provides information on the children’s demographic profiles. To preserve anonymity, suitable pseudonyms were used to identify the children while generic descriptions such as father or mother were assigned to the parents.

| Profile          | Child 1      | Child 2      | Child 3      |
|------------------|--------------|--------------|--------------|
| Pseudonym        | Lisa         | Aiman        | Aniq         |
| Recruitment age  | 7 years old  | 9 years old  | 11 years old |
| Recording ages   | 7 & 8 years old | 9 & 10 years old | 11 & 12 years old |
| Gender           | Female       | Male         | Male         |
| Types of cleft   | Unilateral CL | Bilateral CP | Unilateral CLP |
| Cleft surgery    | Yes (one time) | Yes (multiple) | Yes (multiple) |
| Speech therapy   | No           | Yes          | Yes          |

Data

Data for this study are part of a large data set that specifically look into the practice of other-initiated repair, an interactional practice whereby one speaker initiates repair following trouble relating to speaking, hearing or understanding in the speech of another speaker. The data primarily consist of everyday interaction in Colloquial Malay, a loose version of Standard Malay language that is common to be used in informal interaction. Certain parts of the interaction contain instances of the participants speaking in English or code-switching between the two languages. However, data in English language can generally be viewed as minimal.

Data collection procedure

This study is principally guided by the framework of CA. CA is a scientific study that investigates how actions are accomplished through interaction (Wilkinson, 2009). It emerged from the work of Harvey Sacks, Emanuel Schegloff and Gail Jefferson in the 1960s and is part of ethnomethodological work. In obtaining its data, CA focuses on everyday interaction between people that is deemed to be natural. The interaction will be recorded and later transcribed for the purpose of analysis.

As such, this study first arranged time with recruited participants for their interactions to be recorded. Participants freely decide on aspects that matter to the interactions such as time and place of recording in order to preserve their comfort. Once logistic arrangement is finalised, recording process began.

Recordings mostly took place at participants’ home except in a number of recordings where
participant requested to be recorded at other public places such as restaurant. The clarity of recording is maintained even when the recordings were performed at such places. Suitable recording tools were used to record the interaction and were placed near to participants when they interact.

Interactions were not restricted to any specific topic or stimulated activity. Rather, the participants were free to talk about anything. This has resulted in the study to have recordings that range from a few minutes of interaction to almost a few hours. Such decision was made to ensure the interactions are at the most natural state. In the end, the study is able to collect almost 7-hour of interactional data.

Transcription
The recorded interactions were later transcribed to provide static form of verbal data (Liddicoat, 2007). To serve this purpose, The Jefferson System of Transcription Notation (University of Leicester, 2020) has been adopted as reference (see Appendix). This system is preferred because it captures various features of talk in written form such as pauses, overlaps, pitch, sound lengthening and pace of talk. In addition, non-verbal data such as eye gaze or hand movement are also integrated into the transcription. Such techniques thus allow this system to provide comprehensive representation of interactional data.

The interactions were mostly conducted in Malay language. To facilitate understanding, the transcription was prepared in a multi-linear format (Hepburn & Bolden, 2013). In this format, the first line represents the original talk as in the recording while the second line provides a morpheme-by-morpheme English gloss of the original that gives translation to original word and grammatical information. Finally, the third line represents English translation that aims to take the local and interactional meaning of the original.

Data analysis technique
The first step in data analysis was identification of sequences within the interactions that contained breakdowns. The identification was made by looking at turns containing clarification requests such as I don’t understand or simply huh? that prompted the other speaker responsible for topic shift to provide a repair. Once the sequences were located, turns that were the sources of problems were coded according to model of topic shifts proposed by Crow (1983). According to this model, topic shifts can be grouped into four types; topic initiation, topic shading, topic renewal and topic insertion.

Topic initiation refers to attempts made by a speaker to introduce new topic of interaction either at the beginning of interaction or after previous topic concludes. On the other hand, topic shading refers to a new topic that has been introduced yet relating to the current on-going topic. Next, topic renewal describes a situation in interaction when speakers shift discussion back to previous topic after another topic ends. Finally, topic insertion is when speakers choose not to abandon the last topic hence shift is made within the same turn of speaking.

Following this coding scheme, turn-by-turn examination which is a hallmark of CA was performed with specific emphasis on reasons for problems to occur (the types of topic shifts) and responses made by children to indicate their problems following topic shift turns by the parents.

FINDINGS AND DISCUSSION
This section presents findings that will demonstrate the problems experienced by children with history of CL/P when their conversational partners performed topic shift. Selected extracts from the interactional data are used to highlight the problems and how such problems are displayed by the children.

Problems following topic initiation
Problems in topic initiation happens when the parents introduce new topic once previous topic concludes. Extract 1 shows one situation between mother (M) and his son, Aiman (AMN). The interaction took place while both of them were having lunch with father (F) being present as well.

Extract 1. Nilam book (Aiman-Mother)

| 1   | F          | ade pibg ke? |
|-----|------------|--------------|
| 2   | AMN        | there is PTA? |
|     |            | inside bag   |
|     |            | inside (my bag) |
| 3   | M          | (0.3) hm:: |
| 4   |            | kene bayar tar pibg tiga puluh ringgit |
| 5   |            | must pay NOUN thirty ringgit |
|     |            | must pay (to) PTA thirty ringgit |
| 6   |            | adik hari tu mama ade beli buku nilam tak? |
| 7   |            | TOA day that TOA did buy NOUN EMP? |
| 8   | AMN        | adik, did I buy the Nilam book? |
|     |            | (0.2) ((Aiman looks at the mother)) |
|     |            | ((Aiman moves his head up while looking at mother)) |
| Line | Speaker | Utterance |
|------|---------|-----------|
| 9    | M       | ade: kan buku nilam? (mother maintains gaze at Aiman) there EMP NOUN is Nilam book right? |
| 10   | (0.2)  | ((Aniq withdraws mutual gaze)) |
| 11   | M       | mama ade beli tak buku nilam? TOA did buy EMP NOUN did I buy the Nilam book? |
| 12   | (0.1)  | |
| 13   | AMN     | <ade tige buku> has three books there are three books |

*EMP=Emphasis; TOA=Term of address*

Extract 1 captures an interaction that primarily includes mother and Aiman with father participated in the earlier part of the sequence. The interaction begins when father seeks confirmation from mother on parent-teacher meeting that is scheduled by Aiman’s school (line 1). However, there is an interruption from Aiman when he mentions the invitation letter is in his school bag. Mother acknowledges this through minimal response “hm” (line 3). The use of minimal response by mother seems to bring an end to the sequence and this is evident in 0.3-second pause that follows.

Mother reclaims the speaking turn and addresses father’s earlier confirmation request on PTA (line 5). Even though no specific turn allocation is employed by mother, the utterance which is about payment that parents have to make to school gives indication that she is revisiting the topic from father’s previous turn. Immediately after that, mother selects Aiman to be the next speaker (indicated through turn of address “adik”) and puts forward question that is framed within confirmation request format (line 6). Specifically, she wants to know whether she has bought his school book (Nilam book). The subject that is raised by mother here shows the new topic is introduced (topic initiation) once she concludes topic on PTA with father. However, there is a pause of 0.2 seconds even though Aiman in line 7 establishes mutual gaze with mother to signal his awareness on the allocated turn (Ho et al., 2015). In line 8, Aiman initiates repair from mother through non-verbal strategy (Jariah & Saad, 2018). He moves his head up to signal the trouble he is having with mother’s speech. Such behaviour prompts mother to repair as evident in line 9.

Another example of problem resulting from topic initiation is given in Extract 2. The extract showcases interaction between Aniq (AQ) and his mother (M).

Extract 2. After Friday prayer (Aniq-Mother)

| Line | Speaker | Utterance |
|------|---------|-----------|
| 1    | M       | besok sekolah tak nik? toma tomorrow school EMP TOA |
| 2    | (0.1)  | ((mother gazes at Aniq)) |
| 3    | AQ      | sekolah ((Aniq holds handkerchief and plays with it)) school |
| 4    | (0.3)  | ((mother focuses on her phone)) |
| 5    | M       | hari tu yang jumaat lepas tu pegi jalan kaki?, day that which friday after that go walking that day which is last friday, (you) go (by) walking? |
| 6    | AQ      | jumaat=((Aniq withdraws mutual gaze)) friday |
| 7    | M       | =lepas semayang jumaat after pray friday after friday prayer |
| 8    | (0.1)  | ((mother maintains gaze at Aniq)) |

Problems following topic shading

In addition to topic initiation where new topic is introduced, topic shading can also be one point in
interaction where communication breakdown can occur. Extract 3 shows one example where extension on topic by mother (M) causes a problem to Aniq (AQ).

Extract 3. Weather (Mother-Aniq)

1 M hari ni cuace kat luar macam mane? today weather outside how (0.1) (Aniq looks away))
   2 (.)
   3 hujan ke: panas ke? rain EMP hot EMP (is it) raining or hot? (0.1)
   4 ()
   5 AQ (Aniq looks at mother)) pan- panas EMP hot EMP (you are) not playing outside? AQ
   6 M panas::s? ((Aniq maintains gaze at mother)) hot EMP hot?
   7 ()
   8 tak main kat luar ke? not play outside EMP (you are) not playing outside?
   9 AQ ta#k hhhh EMP no EMP no
   → 10 M nape::? EMP why? EMP why?
   → 11 AQ hm?
   → 12 M nape? EMP why EMP why?
   → 13 AQ panas hhhh EMP hot EMP hot

*EMP=Emphasis

The interaction begins with mother trying to have a casual talk with Aniq. She makes reference to the weather outside and asks Aniq about it (line 1). As there is a short pause and Aniq’s withdrawal of mutual gaze when he looks outside, mother continues to claim turn of speaking by presenting possible answers for Aniq to select (line 2). This seems to be successful as Aniq re-establishes mutual gaze with mother and provides his answer (line 5). Mother recycles Aniq’s answer and proceeds with another question (line 6-7). The question that seeks information on Aniq plans to play outside later is responded with simple no (“tak”) accompanied with exhalation of breath (line 9).

Aniq’s dispreference to go outside which seems unusual to mother prompts mother to seek reason for it. Evidently, line 10 shows mother’s question with “nape” or “kenape” (why) that specifically is used to seek reason. However, it fails to bring the required response from Aniq because in line 11, Aniq initiates repair from mother through open-class word “hm” (Drew, 1997). Even though such strategy does not specify the kind of problem Aniq is having (Svennevig, 2008), mother treats it as initiation of repair and hence, repeats the question (line 12).

Extract 4 further shows another example of communication breakdown indicated through repair initiation that is resulted from topic shading. In the extract, Aniq (AQ) is recorded to be in conversation with mother (M) on some issues that he is having at school. One of them is his vision problem in class. Following this, mother suggests it might be due to the glare of the sun. The extract presented here resumes the interaction when mother shows an interest to know whether Aniq’s classroom windows have curtains.

Extract 4. Class curtain (Aniq-Mother)

1 M tak de langsir ye ta↓di: kelas tak de langsir? no curtain EMP just now class EMP no curtain EMP there is no curtain right just now, class has no curtain?
   2 AQ huhuh mane ade langsir: ((Aniq turns gaze to mother)) EMP no curtain EMP (there is) no curtain EMP
   → 3 M tkena la kan EMP must EMP right EMP must (have) la right EMP
   → 4 AQ kutip duit kelas tak? EMP collect money class EMP EMP (did you) collect class money?
   → 5 AQ a? EMP EMP EMP EMP
   → 6 M kutip duit kelas tak? EMP collect money class EMP EMP (did you) collect class money EMP EMP
   → 7 F suruh mak buat langsir tu EMP ask TOA do curtain EMP ask mak (to) do that curtain EMP

*EMP=Emphasis; TOA=Term of address

Line 1 in Extract 4 presents mother’s question to Aniq that is designed as a confirmation request. Specifically, mother seems to notice that Aniq’s class is not equipped with curtain (the first part of the utterance) and she continued to request for confirmation in the second part of the utterance. In line 2, Aniq responds by affirming to mother that his classroom is not equipped with curtain. This completes the adjacency pair of question-answer and can possibly close the sequence. However, mother continues in line 3 where she suggests that curtain is a must (so problem such as Aniq’s blurry vision can be avoided). Following the suggestion, mother poses another question related to the topic but this time, mother extends the topic by asking whether he and his classmates collect money to buy or install curtain (line 4). There is no specific word or cue employed by mother to indicate this shift of topic but the emphasis word “tak” should yield.
close-response from Aniq. Instead, Aniq’s problem is evident in the open-class repair initiator word “a?” (line 5). This clearly indicates his trouble when mother extends the topic of interaction. Consequently, mother performs repair in line 6 before father joins in line 7.

**Problems following topic renewal**

Extract 5 shows interaction between Aniq (AQ) and his parents relating to his examination result i.e. overall class placement. Prior to this sequence, mother (M) and Aniq were discussing the result of one of his friends in a recent national examination before father (F) joins the discussion by asking Aniq about his own placement result.

Extract 5. Class placement (Aniq-Father-Mother)

1 AQ due tige a joke
2 M boleh plak due a ke tige a ke dok
3 AQ [hahaha]
4 F anik dapat nombo berape kelas?
5 AQ ha?
6 F perikse?
7 M ala:: tinggal [lam kerete: left inside car]
8 AQ [tige belas thirteen]

*EMP=Emphasis*

Interaction in Extract 5 begins with Aniq’s response to mother’s earlier query on the examination result of his friend. In line 1, Aniq exhibits uncertainty on the specific result that is evident in the use of “kol” (loosely translated as “guess” as in “I guess so”). He claims his friend has obtained either two As or three As in their recent national examination. Following this, mother changes the focus of interaction by pointing out Aniq’s somewhat inappropriate behaviour (Aniq is scratching a part of his body during the interaction) and this invites both of them to laugh.

Father then claims the next turn of speaking (line 4) and asks Aniq question relating to his own class placement. Here, father initiates new topic once mother and Aniq seem to conclude topic about Aniq’s friend through their shared laugh (Bonin et al., 2012). In doing so, father specifically allocates turn to Aniq through name calling strategy before proceeding with the question. Upon receiving this question, Aniq claims the speaking turn. However, he is seen to initiate repair through open-class word “ha” in line 5 that evidently displays his problem with father’s preceding turn. This immediately prompts father to repair as shown in line 6.

Another example of problem following topic renewal is given in Extract 6. The interaction records multiparty interaction between parents and Aiman (AMN) while they were having lunch. In the interaction, mother (M) first asks Aiman on reason for him to go downstairs (the family lives in an apartment complex). However, the topic is abandoned when father (F) interrupts and seems to create an interaction exclusively with mother on another topic. Once the interaction concludes, mother revisits her earlier query to Aiman.

Extract 6. Going downstairs (Father-Mother-Aiman)

1 AMN adik tak banyak (.) habis (.)
2 M [la::: adik cakap la]
3 F huh [huh huh]
4 M [tak payah la cakap adik tak]
5 AMN has eaten EMP TOA no need EMP say TOA not nice
6 (.)
7 AMN has many finish EMP TOA die punye ni dah habih dah his (food) has already finished
8 M tinggal isi je? leave meat only
9 (0.3)
10 kan? right
11 (0.2)
12 AMN has eaten EMP TOA his (food) has already finished no need EMP say TOA not nice (.)
13 (.)
14 F =ha= (he) leaves out (the) meat part only
15 AMN is he? =ha= (he) leaves out (the) meat part only
16 AMN =(Aiman turned to mother and nodded his head up)
17 M turun bawah buat pe?
go down do what
downstairs?

(0.2)

*TOA=Term of address; EMP=Emphasis

The extract presented in Extract 6 begins with Aiman’s turn where he somehow informs parents that he has finished his lunch or claims he has eaten certain food being offered to him (line 1). The different kinds of information are evident when there are short pauses in between. Mother then in the next turn (line 2) puts forward suggestion that Aiman has eaten enough (line 2) and rejects Aiman’s claim earlier that the food is not nice. Following this, mother shifts the conversation to father when they are talking about the leftover food (line 6 - 10). In line 11, there is a short pause even though in preceding turn (line 10), mother seeks confirmation request. However, the request is ignored by both father and Aiman which explained the pause.

Mother then reclaims turn of speaking and in line 12, she revisits her query to Aiman on reason for him to go downstairs. As a side note, the question has been asked much earlier but there appears to be an interruption when father introduces new topic that is relevant to him and mother only. In line 12, mother revisits the topic and asks Aiman the same question. The question in line 12 is considered to be specific with question word “buat apa” (do what) is employed but since mother does not specify the next speaker, a short pause occurs (line 13). Line 14 shows mother’s effort to re-allocate the turn with simple open-class word and here, it is found to be successful because father claims the turn. Aiman also claims the next turn (line 15) but employs a specific head movement to initiate repair from mother; he nods his head up while placing gaze at mother. This specific non-verbal behaviour is treated as repair initiation (Jariah & Saad, 2018) when mother in line 16 provides repair by repeating her earlier question.

Overall, this study has supported the fact that communication breakdowns are not random and can occur at specific place during the on-going interaction. Specifically, findings have been in agreement with Bloch et al. (2015) that highlights topic shift to be one possible place in interaction where communication breakdowns can occur. In particular, this study has managed to identify problems that have occurred following topic initiation, topic shading and topic renewal in interaction with children with repaired CL/P. Breakdowns following topic insertion on the other hand are not found in the data set.

Failure to become aware on the shift of topics shown by such children can signify their poor cognitive skills. It has been understood that cognitive skills are one of the requirements for effective interaction (Cho & Larke, 2010). Several existing studies that have focused on examining the cognitive functioning such as remembering, reasoning and paying attention have consistently shown the poorer performance level of the cleft-affected children than the non-cleft population (Hentges et al., 2011; Roberts et al., 2012). Hence, findings from this study further strengthens the relationship between cleft and its impact on their cognitive ability.

Looking at individual children in the aspect of cleft type, it can be noted from the extracts presented in this study that problems following topic shift actually were significantly low in interaction with Child 1, Lisa who has history of cleft lip only (CL). On the contrary, the occurrence of problems is consistent in interactions with Aiman (CP) and Aniq (CLP). The almost non-existence of problems within the context of topic shift in interaction with Lisa may be explained through the fact that children with CL only will not experience greater language deficits or have the same risk similar to children with cleft involving the palate (Vallino et al., 2008). In fact, it is typical within clinical studies to assume the difference in impacts between cleft affecting lip only and cleft affecting the palate as well (Hardin-Jones & Chapman, 2011). For this particular reason, the comparison between each child in fact has enabled this study to somehow develop possible link between cognitive skills of children with history of cleft and their types of cleft. However, this requires further investigation.

CONCLUSION

In summary, the present study has provided evidences on problems that occur when topic of interaction shifts. Data that were acquired through recorded interactions between parents and repaired cleft children have shown such occurrences can be expected when topic is initiated, extended (topic shading) or revisited (topic renewal). Poor cognitive skills that have been documented in existing database could potentially be the reason for them to experience such difficulty. This information can be useful for speech-language pathologist to incorporate element of everyday interaction such as topic shift into speech therapy. They can also design activities for parents to adopt when they interact with the children at home which hopefully could further increase their interaction skills. Similarly, teacher when having such children in their classroom can use this information to guide interaction with them.

Future intended studies are recommended to increase the interactional data especially involving children with cleft lip only to further validate the claim made through this study. It is also
recommended for future studies to conduct analysis on linguistic resources employed by parents in constructing turn that cause topic shift to be problematic or unproblematic.

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APPENDIX
Transcription Symbols (adapted from Jefferson Transcription Notations):

( ) a micropause – a pause of no significant length
(0.7) a timed pause – long enough to indicate time
[ ] overlapping speech
> < the pace of speech has quickened
< > the pace of speech has slowed down
( ) unclear section
( ) an entry requiring comment but without a symbol to explain it
Underline a raise in volume or emphasis
↑ rise in intonation
↓ drop in intonation