Using Video Viewing to Evoke Hispanic Children's Narrative Samples

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ABSTRACT

**Background.** Discourse or narrative sampling is used routinely to examine children’s language skills. Conclusions differ as a function of elicitation procedures. Some investigators suggest using multimedia with reconstruction tasks as a choice method. This study was a preliminary examination of the video, *Frankenweenie*, for narrative sampling to examine the language abilities of English-Spanish speaking and English-speaking children.

**Method & Procedure.** Participants were four normally developing 6 to 9-year-old Hispanic males (Mexican-American). After each narrative elicitation, subjects completed an attitudinal survey about the video.

**Conclusions.** All 4 children produced lower-level narratives in response to the video. Revision of the protocol is planned to determine the influence of different cues to increase use of episode elements.

**Clinical Implications.** The case studies were a first step for developing a video protocol for *Frankenweenie* as an alternative to *The Frog Story* and to examine the discourse skills of Hispanic children in the Rio Grande Valley of Texas.

**KEY WORDS:** Narrative Assessment, Narrative Sampling, Language Sampling, Language Development in Children, Bilingual Language Development, Hispanic Children’s Language Development, Multicultural Issues
INTRODUCTION

Discourse or narrative sampling is a technique routinely used by speech-language pathologists to diagnose communication impairments in children (Kayser, 1998).1 Conversational discourse is well-established as a basic strategy in assessment. Westby (1991) refers to the oral style, or conversational discourse, as basic to regulating face-to-face social interactions, with topics centered on everyday objects and events. Conversational sampling is considered a lower-level language task, with conversation representing the first type of extended discourse to emerge during the preschool period (Westby, 1991). Narrative discourse emerges after conversational discourse, argued, by some, to represent a more complex form of discourse that serves as the vehicle for eventual comprehension and production of the literate style of discourse necessary for school success (Paul, 2007).

Story or narrative sampling, although used often by speech-language pathologists, is described with greater diversity of viewpoint regarding rationale, process, and outcome. Paul (2007), Hedberg and Stoel-Gammon (1986) assert that analysis of narratives provides useful information about the linguistic and cognitive abilities of the speaker. Hickmann (1991), McCabe & Rollins (1994) and Wigglesworth (1997) are examples of researchers who describe the developmental course of narrative abilities. Other researchers examine the use of narratives for differential diagnosis between typically developing and language disordered children and adolescents (Liles, Duffy, Merritt, & Purcell, 1995; Miranda, McCabe & Bliss, 1998; Norbury & Bishop, 2003; Weatherell, Butting, & Conti-Ramsden, 2007). Fey, Cats, Proctor-Williams, Tumbling and Zhang (2004) asserted in their study of school-age children that story production tasks are highly educationally relevant and should be used in evaluation of children with Language Learning Disabilities (LLD). In contrast, Lamarque (2004) contends that too much is being expected of narratives based upon the divergent and skimpy evidence to support the numerous claims. Lamarque primarily asserts that not enough is known about the broad area of narratives and research addresses different aspects of narratives.

Despite such controversy as suggested by Lamarque, a preponderance of researchers suggest the utility of this method for inclusion in language assessment. Weatherell, Butting and Conti-Ramsden (2007), in a recent study comparing the narrative samples of 99 typically developing adolescents and 19 adolescents with specific language impairment (SLI), found that adolescents with SLI were distinguishable from their typically developing peers. Adolescents with SLI made more errors than their peers and the errors were found to be qualitatively different. Seven types of errors were analyzed from a retell storytelling task and from a spontaneous personal narrative. The error types included verb tense, subject-verb agreement, lexical errors (made-up words or incorrect word use), subject omission, other word omissions, added morphemes and other errors. SLI subjects produced a higher number of errors in tense and agreement during storytelling and personal narratives when compared to their counterparts. SLI children made errors classified as “other word errors,” while typically developing adolescents made no “other

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1Discourse is the general term that encompasses different types of extended talk. Types include conversation and narrative, which can be further subdivided into other descriptors, such as personal, or procedural narrative. Throughout this paper, our discussion is limited to story-telling. The terms, discourse, narrative and story-telling will be used interchangeably.
word errors.” Interestingly, the SLI group produced fewer subject omissions than typically developing adolescents. Both groups, however, produced large amounts of subject omission during spontaneous personal narratives.

If appropriately designed, narrative or discourse sampling may be an excellent technique for assessing language development in bilingual populations and offers a rich opportunity to observe children’s integrated communicative abilities. When used to monitor language growth, sampling is a more accurate and reliable measurement of children’s expressive language and comprehension in comparison to standardized testing which may be characterized by unrepresentative normative samples (Paul, 2007; Weatherell et al., 2007).

Data collected from discourse samples may be used to assess the language of bilingual Hispanic children who speak a dialect of Spanish, code-switch, or speak Spanish-influenced English, or other dialects of English. Caution, however, is warranted when using narrative assessment. Several factors warrant this caution, because, narrative studies vary in: (1) methodology and the way in which samples have been collected, (2) the ages and language backgrounds of subjects included in such studies, and (3) the claims made about what narratives reveal as suggested by Lamarque (2004).

Narrative discourse is a broad area of study and there is clearly a need to increase the research base to support the way in which assessment is devised, implemented and interpreted. The same studies that offer support for the utility of assessment are limited by various methodological issues. Studies are characterized by different approaches to narrative elicitation and analysis, different subject pools, variable elicitation procedures, and limited attention to cultural variation in narrative structure and content (Botting, 2002; Gilliam, Peña & Miller, 1999; Liles, Duffy, Merritt & Purcell, 1995.) The current study does address these issues by using subjects who are all of Mexican-American heritage, living in the same geographic location, and attending similar schools. Further, as is discussed more thoroughly later in the paper, detailed information is provided regarding elicitation procedures. The third investigator, who is bilingual and Mexican-American, elicited the samples.

Overview Of Narratives Elicited For Assessment

Narratives may be broadly characterized as personal, script or fictional, according to Hughes, McGillivray, and Schmidek (1997). Personal narratives recount significant personal experiences. Script narratives concern a particular routine or series of events, while fictional narratives refer to generation of a story or retell of a story, television show or movie. Story generation is considered more difficult than retell tasks.

Narratives are characterized by macrostructure and microstructure. Macrostructure refers to the overall structure of story elements or story grammar elements. A classic system for developmental classification of narratives that is frequently referenced in speech-language pathology literature was developed by Applebee (1978), as described in Paul (2007). Five developmental stages are summarized by Paul, with Stage 1 consisting of Sequence/Primitive Stories and Stage 5 culminating in true narratives, containing a central theme, character, and plot. True narratives are temporally organized and will contain at least five story grammar elements. Basic grammar elements are the setting and episode. An episode consists of five elements: an initiating event, internal response of the character, a plan, an attempt based on the plan, a consequence and reaction. The most complex stories may contain multiple episodes, complex episodes, embedded episodes or interactive episodes.

In addition to setting and episode, cohesive devices are considered part of the macrostructure that hold a story together. Cohesive ties are pronouns, conjunctions and conjunctive adverbs that connect sentences together in discourse. For a more complete discussion of the subject, see Applebee (1978) and Westby (2005).

Microstructure is a reference to the structure of individual sentences and would include sentence type (simple vs. complex), sentence length, and vocabulary.

Culture and Ethnicity

Culture and ethnicity should be taken into account when narration is used for assessment. Researchers should consider differences in story-telling across cultures when devising sampling procedures, comparative criteria, and normative milestones. A case in point is the attention to detail that may distinguish the narratives produced by Hispanic children. In contrast, for example, the narratives of African American children are characterized by emotional appeal to the audience (see, for example, Curenton, Wilson, & Lillard, 2000). In the Hispanic culture, listeners judge storytelling or “cuentos” excellent when every detail is told (Winkler, 2003). Therefore, the listener will have the full effect of the story. African Americans value the emotional appeal and judge a story excellent if storytelling engages the audiences’ emotions—even if details are exaggerated
Heath (1986) suggests that many Hispanic children are socialized in a context of unequal roles and status from adults. These experiences might lead to wide individual variation in the size of samples and the quality of discourse samples produced by Hispanic children. Some Hispanic children may be unaccustomed to conversing freely with adults when adults solely use an interview or adult-child play strategy to elicit narratives.

**Language Variation**

Gutiérrez-Clellen, Restrepo, Bedore, Peña and Anderson (2000) published methodological considerations for spontaneous language sampling in Spanish speaking children. Methodological issues included effects of codeswitching, and dialect as assessed with the Developmental Assessment of Spanish Grammar (DASG), mean length of response in words (MLR-w), mean length of terminable unit (MLTU), and mean length of utterance in morphemes (MLU-m) (Gutiérrez-Clellen, et al., 2000).

**Children’s Social and Learning Experiences**

It is also important to consider children’s experiences with toys, books, computers, and videos. For some Hispanic children, using a book may be an unfamiliar interaction between an adult and child. Moreover, it may be an unfamiliar style of telling stories (Kayser, 1998). The studies currently available whose subjects are Hispanic children have used books and videos to elicit narratives.

**The Influence of Input and Task Type On Narratives**

Gibbons, Anderson, Smith, Field, and Fischer (1986) examined the influence of input and narrative type on children’s productions. Children, ages 4 to 7 years of age, were presented brief stories through an audio or audiovisual media. Authors produced alternate story types, with one story consisting of narration matched to character actions. In the audiovisual version, stop animation was used instead of auditory narrative of character actions. Younger children were more likely to report action than utterances regardless of input. Audiovisual input produced superior performance on explicit information produced by the four-year olds. The authors also found that reconstruction was superior to recall for children’s narrative production.

This study provides some guidance regarding key factors that must be considered for future studies. A retell/recall task is different from a reconstruction task which may involve the child having some choice to generate a unique viewpoint or reaction to the stimulus. Retell may be a task more heavily weighted by memory than discourse (Gibbons et al., 1986). Thus, retell activities may reveal less about the child’s ability to construct macro narrative structures, but reveal more about what the child can recall immediately about sentences heard. Further, the type of stimulus does seem to have an influence on narratives produced by children, according to Gibbons et al. (1986), with audiovisual described as a superior input, given that the children have multiple sources of input, which appear to enhance comprehension and retelling. Recall, also, that for many Mexican American children, storytelling routines between parent and child may not include experiences with books (Gutiérrez-Clellen et. al., 2000). In Southwest Texas, inclusion of dramas, plays and movies are common in the schools and local churches. This lends some support to incorporation of film, video or DVD for narrative elicitation.

Gutierrez-Clellen and Hofstetter(1994) used movie retellings of 77 school-age, Spanish-speaking children to examine the children’s development of oral narrative organization, with focus on the use of temporal and causal coherence devices. The authors reasoned that children’s use of complex syntax in narratives may reveal important information about their facility with school literacy. The subjects were 28 preschoolers, 26 first-graders, and 23 third-graders who were all native Spanish Speakers. A strength of the study is that they describe the children’s background to provide additional insight. There were 46 Puerto Rican and 31 Mexican American children sampled from two public schools in a school district located in New Jersey and from a third school in Southern California, respectively. The Puerto Rican and Mexican American children were attending inner-city schools. All children were enrolled in bilingual classes. At the time of the study, all children were receiving content instruction in Spanish and English as Second-Language instruction one hour daily, through pull-out.

The children viewed a short silent movement, “Frog Goes to Dinner”, lasting about 7 minutes. A Spanish-speaking interviewer pretended she had not seen the film and asked the child to tell the “whole story.” Preselected prompts were used, including, for example “Keep going, keep going, I really want to know the story.” Stories were audiotaped and transcribed verbatim. Transcripts were coded for T-units which were further analyzed into their constituent structures, including relative clauses, nominal clauses, infinitive clauses, adverbal clauses, adverbal phrases, and
prepositional phrases. The investigators identified a number of developmental differences in syntactic complexity. The investigators found some differences across the two Spanish language groups in syntax between Puerto Rican and Mexican American children. The investigators described the study as preliminary and provide an example of a methodology that incorporated video with story retell.

Gillam, Peña & Miller (1998) utilized the same story as used by Gutierrez-Clellen & Hofstetter (“Frog Goes to Dinner”) (Mayer, 1974 in Gutierrez-Clellen), A wordless picture book and the film were used to study Spanish-speaking children’s syntactic skills. The task involved the same story, presented in a wordless picture book and in a 7-minute color movie with no dialogue. The interviewer was Spanish-speaking. After each child watched the movie, they were asked to tell the story. The interviewer pretended to have not seen the video to encourage children to provide expanded story-telling. After retelling the movie, the child looked at the picture book and retold the story a second time. The researchers found no significant task differences in complex language use between children with low and average school achievement from kindergarten to fifth grade. One can assume that there were reduced memory demands for narrative production in this study since the children had the opportunity to tell the same story twice. Further, this study involved only retell, with a focus on syntax rather than narrative generation. The few studies that are available demonstrate the usefulness of film/video input and retell tasks to find out about children’s syntax and use of cohesive ties. None of the studies that focus specifically on Spanish-speaking children provide information regarding the influence of reconstruction or novel generation of narratives. To our knowledge, researchers have not examined the quality of narratives based on retell of a familiar story vs. generation of a narrative based on retell of an unfamiliar story.

The present investigators decided to examine the effectiveness of videos as a general purpose method for gathering samples, using a silent black and white video characterized by multiple episodes, with an obvious conflict that motivates the main character’s actions: his pet dog that he loves is run over by a car. The Frog series of wordless picture books are excellent stimuli and well-established in the literature; however, research supports that audio-visual input may be associated with superior narrative production in some children (Gibbons, Anderson, Smith, Field,& Fischer, 1986).

Videos are readily available in both home and school environments. Further, television viewing and exposure to media is common among low, middle and high socioeconomic status homes. Therefore, videos or DVD may be the choice material for evoking samples from a wide variety of children of diverse backgrounds.

With this in mind, the present investigators made the foray into the forest of narrative assessment for the purposes of focusing on some basic methodology issues: (a)use of video to elicit narratives, and (b) the content and structure of narratives generated by normally developing, school-age bilingual children who viewed the videos. The purpose of this study was two-fold including (1) an opportunity to examine a protocol for discourse sampling that involved a video and (2) an opportunity to examine the effectiveness of the video for eliciting narrative samples from Hispanic children with the sample involving both story retell and reconstruction.

The questions addressed by this study were:
- How do bilingual children respond to videotapes in discourse samples in comparison to monolingual children?
- What level of narrative development do the children exhibit?
- Can videos be used to effectively evoke representative samples of children’s narratives?

METHOD

Subjects

Hispanic children living in the Rio Grande Valley region of south Texas in the United States represent the complete continuum from monolingual (Spanish or English) to bilingual (Spanish-English). Mexican Americans constitute the majority of the population in this region of the state, with a population just under 200,000, combined for the two cities from which subjects were recruited (U.S. Census Bureau, 2007). Persons of Hispanic or Latino origin are estimated at 88.7% of the population, based on current census data for 2003, with 81.8% of individuals reporting speaking a language at home other than English.

Four normally developing Hispanic males between the ages of 8-6 and 9-2 years were recruited via the professional contacts of our third author. All procedures were explained to the parents prior to the investigation. Two of the males...
were bilingual (English/Spanish) and two of the males were monolingual (English). All participants were natives of the Rio Grande Valley and were similar in socio-economic status based on parental education and employment, with frequent exposure to Spanish even for the monolingual English speakers.

In order to qualify for this study, the subjects had to:

- be performing at grade level,
- have passed a hearing screening across the frequencies of 250 Hz to 4000 Hz at an intensity of 25dB during the past six months,
- exhibit normal language skills as indicated by the CELF Screener (Semel, Wiig, & Secord, 1989) and the Spanish Language Assessment Procedures, (Mattes, 1995).

Subjects were visited at a site that was most convenient for their parents or at school. The two bilingual subjects were recruited two weeks prior to the investigation. Our third investigator met the two bilingual subjects in their aunt’s home approximately four hours prior to gathering the data.

The third investigator maintained a similar routine for each subject. A meeting would occur with the parent. Informed consent was obtained and arrangements would be made to collect the sample.

Subject Descriptions

M.M., the monolingual English-speaking male, age 8-11 years, attends third grade at a private school located in the upper western region of the Rio Grande Valley. He is an only child and resides in a household with his mother and grandparents. English is the primary language spoken at home; however, parents and grandparents are bilingual.

G.G. was introduced to the third investigator one week prior to gathering data. Data was gathered at school in a quiet room away from the regular classroom. G.G., the second monolingual English-speaking male, age 8-7 years, attended third grade at a private school in the upper western region of the Rio Grande Valley. He is the middle child with two other siblings, an older brother and a younger sister. He resides in a household with his parents and siblings. English is the only language spoken at home. The two bilingual males, E.G. age 8-6 years and K.G. age 9-2 years, were siblings attending third grade at a public school in the upper western region of the Rio Grande Valley. The school district offers a dual (English/Spanish) curriculum for children until the third grade. Both children were enrolled in school as non-Limited English Proficiency (S.G., personal communication, January 3, 2002). The subjects are the youngest of four siblings and reside in the home with their mother. So, the children differ in age by only 8 months - an unusual circumstance. In addition, the youngest subject was born premature (S.G., personal communication, January 3, 2002). It is not known if the prematurity was due to gestational age or birthweight, or both. All developmental milestones were met at the appropriate times. A combination of Spanish and English are spoken at home.

GENERAL PROCEDURES

Subject Recruitment and Testing

The third investigator observed subjects in a routine setting, such as school or home. The two monolingual subjects were observed interacting with other children during the after school program. The two bilingual subjects were observed interacting with their family. Only the two bilingual subjects, K. G., 9-2 and E. G., 8-6, exhibited code switching (interchanging Spanish and English during their conversations with family such as: “Yo quiero play ese game!” “Ya, you won?”). All four children were observed to be active conversationalists, exhibiting assertive and responsive acts such as requesting information, clarifying, and using language to seek attention or actions (Fey, 1986). Subjects were individually administered the CELF Screener (Semel, Wiig, Secord, 1989) and/or the Spanish Language Assessment Procedures, (Mattes, 1995) which indicated normal language use by all four children (Mattes, 1995).

After completion of all testing, each subject was shown the same 10-minute video sequence from the video Frankenweenie©. After viewing the video sequence, the subjects participated in a controlled conversation using the language sampling directions for the Frankenweenie© video to explain what they had seen in the video and to construct an ending for the story (see Appendix B). The sample was audiotaped on a Sony Cassette–corder model number TCM-929, which was equipped with a Radio Shack boutonniere microphone, model number 33-3013 attachment, to insure speech clarity. After the sample was obtained, each subject answered a 21-question attitudinal survey regarding the video (see Appendix A).

Data Analyses

Each sample was transcribed orthographically. One week later, a sample was randomly selected for a second transcription for intra-judge reliability. Intra-judge reliability was 92.4% and was determined using the
following formula: (total # of words in agreement/total # of words · 100). After orthographically transcribing each sample, the third author and first author met to discuss the criteria for analyzing the samples.

Each sample was assessed for total word count (TWC), total morphemes, sentence complexity, clausal types, T-units, type token ratio (TTR), narrative structure and fluency. Criteria for rating narrative structure were based on descriptions by Applebee (1978), Botvin and Sutton-Smith (1977), Westby (1984) and others. Criteria for determining total word count (TWC), total morphemes, type token ratio (TTR), sentence complexity, and fluency were based on Shipley and McAffee (1998). Guidelines for segmenting utterances or T-units were based on Lund and Duchan (1993). These measures with descriptions of the calculations appear in Table 1.

Table 1. Summary of Measures and Description of Calculation

<table>
<thead>
<tr>
<th>Measure</th>
<th>Description</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Word Count (TWC)</td>
<td>Total # of intelligible words in entire sample counted</td>
<td>Shipley &amp; McAffee (1998)</td>
</tr>
<tr>
<td>Total Morphemes (TM)</td>
<td>Total # of free/bound morphemes</td>
<td>Shipley &amp; McAffee (1998)</td>
</tr>
<tr>
<td>Sentence Complexity</td>
<td>Total # of sentences (Simple vs. complex sentences)</td>
<td>Lund &amp; Duchan (1993)</td>
</tr>
<tr>
<td>T-Units (Clausal Units)</td>
<td>Total # of main clauses with all subordinates and phrases attached or embedded</td>
<td>Shipley &amp; McAffee (1998)</td>
</tr>
<tr>
<td>Type-token Ratio (TTR)</td>
<td>To measure lexical diversity (tndw/tnw) X 100</td>
<td>Shipley &amp; McAffee(1998)</td>
</tr>
<tr>
<td>Narrative Structure</td>
<td>Each narrative was classified</td>
<td>Applebee (1978)</td>
</tr>
<tr>
<td>Narrative Structure Classifications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Sequence/Primitive</td>
<td>1. No central theme or organization.</td>
<td></td>
</tr>
<tr>
<td>2. Sequence/Primitive</td>
<td>2. Labeling events around a theme, with events not necessarily temporally related.</td>
<td></td>
</tr>
<tr>
<td>3. Primitive Narratives</td>
<td>3. Central person, object or theme, with at least 3 story grammar elements.</td>
<td></td>
</tr>
<tr>
<td>5. True Narrative</td>
<td>5. Stories with a central theme, character and plot. All 5 grammar elements included: setting, initiating event, an action, consequence, resolution</td>
<td></td>
</tr>
<tr>
<td>Fluency</td>
<td>A Dysfluency Index was calculated for each subject.</td>
<td>Shipley &amp; McAffee (1998)</td>
</tr>
</tbody>
</table>

Five microstructure measures (total morphemes, sentence complexity, T-units, clausal types and sentence types) were syntactic and one, the type-token ratio, was semantic. The type-token ratio is used to assess a child’s functional vocabulary skills and also reflects the diversity of words used by the subject during the language sample (Shipley and McAffee, 1998). The formula for determining type token ratio is: \((tndw/tnw) \times 100\). Total morphemes were assessed also using criteria based on Shipley and McAffee (1998). A morpheme is the smallest meaningful unit of language (Shipley & McAffee, 1998). Both free and bound morphemes were analyzed for each sample. The utterances were segmented based on guidelines by Lund and Duchan (1993). Partial utterances, unintelligible utterances, discourse markers (um), and noises were excluded from the count. Plurals, gerunds and participles that are not part of the verb phrase, irregular past tense, uninflected lexical morphemes and grammatical morphemes were counted as one morpheme. T-units were segmented using pitch intonation patterns, which were the most reliable and distinct in the samples. Each T-unit was distinguished using slashes to indicate pitch change and numbered individually on each sample. No capitalization or punctuation was used. Sentence complexity was another measure used to assess each sample. The first 20 utterances of each sample were assessed for clausal structures such as: clause type (independent or dependent), complex verb structure, subject type, relative or compound. Sentence types analyzed included the four basic types: declarative, imperative, interrogative or negative. In addition, each
sample was analyzed to determine the occurrence and types of dysfluencies exhibited. Each subject’s data is described subsequently in order.

The macrostructure measure used was semantic-pragmatic (narrative structure). Criteria for rating narrative structure were based on the descriptions by Applebee (1978), Botvin and Sutton-Smith (1977) and Westby (1984). Sequence/Primitive narratives have no story macrostructure, relationship or organization among elements or individual microstructures. Text organization comes from whatever attracts attention. Sequence/Primitive narratives are a step above Sequence/Primitive narratives.

RESULTS

Bilingual Subjects
In order to examine discourse samples evoked with a videotape, several language measures were obtained. E.G. produced a total word count of 460 with 476 total morphemes (see Figure 1). His type token ratio was .27 (see Figure 2) with 55 T-units in the sample (see Figure 3). E.G. had a total dysfluency index of 3.91%, the lowest index between the four subjects (see Figure 2). Dysfluencies included phrase repetitions and revisions, word and part word repetitions, word revisions, broken word, and interjections. Narrative maturity rating indicated that E.G. was in the Sequence/Primitive stage of narrative development. Of the 20 sentences analyzed for syntax, E.G. produced 13 independent clauses, the most between all four of the subjects. In addition, E.G. produced 2 dependent clauses, and 5 conjoined clauses. No complex verb phrases, subject or compound clauses were noted. Nineteen of the 20 clauses were declarative and one clause was negative.

K.G., the second bilingual participant, produced 294 total words in his sample with 285 total morphemes (see Figure 1), the least among the four subjects. His sample included 37 T-units and a type token ratio of .35 (see Figures 2 and 3). K.G. produced the least amount of words and morphemes of the four subjects, but used the greatest variety of words in comparison to other participants. A total dysfluency index of 3.74% included whole and part word repetitions, phrase repetitions, and word and phrase revisions, the lowest total dysfluency index between the four subjects. Narrative maturity rating indicated that K.G. was in the Sequence/Primitive stage of narrative development.

Of the 20 sentences assessed, K.G. produced 11 independent clauses, three dependent clauses, one compound clause, 2 conjoined clauses and three embedded clauses. No complex verb phrases or subject clauses were noted. K.G. produced 18 declarative clauses, and 2 negative clauses.

Monolingual Subjects
G.G., a monolingual participant, matched with E.G, his bilingual counterpart, produced a total word count of 452 with 473 morphemes (see Figure 1). His type token ratio was .33 (see Figure 2) with 48 T-units in his sample (see Figure 3). The total dysfluency index of 3.98% included interjections, phrase and part-word repetitions, word revisions and a prolongation (see Figure 2). Narrative maturity rating indicated that G.G. was in the Sequence/Primitive stage of narrative development.

Of the 20 total sentences assessed, G.G. produced 7 independent clauses, zero dependent clauses, 3 complex verb phrases, one subject clause, and 6 compound clauses. No conjoined or embedded clauses were noted. Eighteen of the clauses were declarative. One interrogative clause occurred. In addition, no negative or imperative type clauses occurred.

M.M, the second monolingual participant, produced a total word count of 431 with 486 total morphemes (see Figures 1). A type-token ratio of .34 was calculated (see Figure 2) and his sample included 69 T-units (see Figure 3), the most among the four subjects. M.M. had the highest dysfluency index of 5.56% that included sound/syllable interjections, word and phrase repetitions and revisions. Narrative maturity rating indicated that M.M. was in the Sequence/Primitive stage of narrative development.

Of the 20 sentences analyzed, M.M. produced 9 independent clauses, 1 dependent clause, 3 complex verb phrases, no subject clauses, 1 compound clause and 6 conjoined clauses. Seventeen of the sentences were declarative; two sentences were negative and one sentence was imperative.
Survey Responses
Each participant’s response to the same 10-minute segment of an unfamiliar black and white 30-minute video, Frankenweenie©, about a little boy and his dog, was measured via a twenty-one item survey to determine their attitude to the videotape (see Appendix A). Eight of the questions on the survey questioned the children’s likes or dislikes regarding the video. Five questions pertained to the number of videos each subject watched at home or at school. Two of the questions pertained to favorite pastimes that subjects enjoyed at home. One question was about a like or dislike for reading, and one addressed what subjects enjoyed doing during free time. Another question was about the amount of time subjects spent watching videos. The last question asked each subject to name at least three videos that they thought children like to watch. Two of the questions were transition questions to be used if a subject would answer negatively.

Questions 1 thru 5. All four of the subjects spoke favorably of the video. However, subjects E.G. and G.G. did not like the color (black-and-white); M.M. did not like the main actor and K.G. did not like the neighbors.

Questions 6 thru 10. All subjects indicated that they would recommend the video to other children. Both monolingual subjects stated that they would recommend it because it was interesting. Both bilingual subjects stated that they would recommend it because the “boy made the dog come back to life.” Both monolingual subjects and one bilingual subject agreed that the video was a good way to find out how well kids can talk. K.G., 9-2, stated that it was not. M.M., 8-11, indicated that talking about videos was a good way to find out how kids talk because it would increase their memory. G.G., 8-7, stated that it would get the kids to tell you how they felt about the movie. E.G., 8-6, gestured that he didn’t know and K.G., 9-2, indicated that having seen the movie would make him want to tell his friends, and then they would not enjoy the video as much afterward because he would have already told them about it.

Questions 11 thru 15. All four subjects indicated that they watched videos at school. However, the reasons for watching videos were because of bad weather, as a reward, or to learn new things. Three of the four subjects indicated that they watched videos with family. M.M. indicated that he watched videos with friends.

Questions 16 thru 21. All four subjects indicated that they liked to read. Three of the four subjects indicated that their favorite thing to do at home was play videogames. M.M. indicated that he preferred to draw. G.G. also indicated that he enjoyed riding his bike. K.G. indicated that he also enjoyed playing with his cousins.

During free time, E.G. indicated that he preferred to play videogames, play sports and play with friends.
G.G. indicated that he preferred to play videogames. M.M. indicated that he would prefer to read a book, play videogames, and sports. K.G. indicated that he preferred to play sports with friends during his free time.

Each subject was asked to name at least three videos that “kids” like to watch. E.G. named Pokemon: The Movie, Mew Two Returns and Mew Vs. Mew Two. G.G. named The Borrowers, Tall Tale and The Magic School Bus. M.M. named The Borrowers, Jumanji, and Mickey Mouse. K.G. was the only subject to name only two movies, which were Balto and Jurassic Park.

**DISCUSSION**

The purpose of this study was to determine how four normally developing bilingual/monolingual males would respond to a videotaped narrative sampling procedure. A strength of the study was that the students exhibited a spectrum of exposure to the Spanish language, in that two were Spanish-speakers with exposure to Spanish through bilingual education and at home. In contrast, one was English-speaking, with exposure to Spanish at home, and one was English-speaking with exposure to English at home and school. Ten minutes of the video, *Frankenweenie*, were shown to participants who were instructed to retell the story and construct an ending for the story and explain how the story may have started. The purpose of the protocol was to evoke reconstructed narratives, with research indicating that reconstruction is superior to recall (Gibbons, Anderson, Smith Field, & Fischer, 1986). The data collected was a first step toward acquiring profiles for normally developing children in the Rio Grande Valley, and providing insight regarding their expressive language development.

Three questions were addressed. First, how do bilingual children respond to videotapes in discourse samples in comparison to monolingual children? Monolingual English-speaking and Bilingual, Spanish-English speaking children produced comparable samples, with similar results for morpheme use, vocabulary, and syntax. Recall that sentence complexity was analyzed based on the first 20 sentences of each sample, serving as a screening indicator for normal syntactic development.

Secondly, what level of narrative development did the children exhibit? All children demonstrated early narrative types. Three of the four case study subjects produced *Sequence/Primitive* narratives, which are a level above *Sequence/Primitive* narratives. E.G., the bilingual subject, produced a true *Sequence/Primitive* narrative. *Sequence/Primitive* narratives are the earliest, simplest attempts at storytelling. E.G. ended his story abruptly by saying “the end.” This was the only behavior he exhibited that can be described as evidence of a *sequence* narrative. Both bilingual subjects told specific and numerous details of the action in the video. The children were alert to weather, the dog barking, and many actions by the dog.

The monolingual subjects did not state as many details, in comparison to their bilingual counterparts. When asked to “tell everything you saw,” the monolingual subjects began with a very general answer (i.e., “I saw a movie about a boy and his dog.”) as compared to the bilingual subjects who told specifics about what they saw in the video (i.e. “A kid named Victor and a dog named Sparky.”). The third author and investigator used more probes with neutral queries (Oh, Hmmm and Uh-huh) and general comments with the monolingual subjects than with the bilingual subjects.

As attitude does influence children’s performance, we assumed that subjects who did not like the video might have produced a poorer sample. All of the case study subjects had positive attitudes toward the video, and all subjects produced representative samples that reflected their typical language abilities as confirmed by teachers and parents. E.G., age 8-6, and K. G., 9-2, produced 17 of 19 positive responses when surveyed, while G. G., age 8-7 and M. M., age 8-11, produced 19 of 19 positive responses regarding the video.

Third, can videos be used to effectively evoke representative samples of children’s narratives? It is apparent that in this study, videotapes were found to be useful in evoking narrative samples. Detailed profiles have been provided that can be used for devising future studies.

**Limitations**

Interpretations are limited because of the study size, use of only male subjects, the birth history of one subject, narrow age range, elicitation procedures, and exclusion of mazes or nonfluent speech. The narrative samples evoked were based on exposure to an audiovisual stimulus for ten minutes, with the task of retelling what was seen, and generating a novel ending for the story and predicting how the story may have begun. Based on work by Gutierrez-Clelland and colleagues, perhaps allowing the child to view the video twice, with retell occurring after the first and second viewing, followed by story generation might result in higher-level narratives.

A different set of preplanned prompts might influence a more mature form of narrative production for some
children during fictional narrative elicitation, in addition to modifying the protocol to allow for two viewings of the video. Future studies will include different narrative types (personal, script and fictional) and their relationship to literacy as well as different prompts to provide all study participants opportunity to produce macrostructures (setting and episode elements).

**Conclusions**

*Frankenweenie* is a useful and enjoyable film to use for narrative elicitation and should be used in future studies with larger samples and a modified protocol for elicitation of story grammar elements (setting and episodic structure). See Appendix B for a description of prompts used to elicit the samples. At some point, *Frankenweenie* may be used as extensively as *The Frog Story* for elicitation of complete narratives. The story is multiperiodic with clear portrayal of a dilemma (the dog dies), character’s internal motivation (the boy loves his dog and wants him back), and resolution of the problem by the boy bringing his dog back to life. In the current study, the four normally developing children produced lower-level narratives. Prompts for specific macrostructure elements may have influenced production of higher-level narratives and a more complete record of their narrative skills.

Despite limitations, investigators conclude that, in this study, the audiovisual presentation was effective in evoking at least lower level narratives, and effective in evaluation of syntax. This pilot study was insightful regarding how *Frankenweenie* might be used more effectively to elicit samples. Elicitation procedures have been modified, and will be incorporated in an experimental design comparing narratives elicited after one viewing verses two viewings. Future studies will incorporate measures as suggested by Wetherell et al. (2007) which examine narratives in four areas: productivity, syntactic complexity, syntactic errors and performance, using both CHAT and CLAN for narrative transcription (MacWhinney, 2000 in Wetherell et al., 2007). In addition, future studies will address children’s attitudes about storytelling and the influence upon the narratives produced.
APPENDIX A

Survey Regarding *Frankenweenie* And Children’s Video viewing Video

By

Nola T. Radford, Ph.D., CCC-SLP

1. Did you like the video? (Go to question 2 if the child liked movie; Go to question 3 if child did not like the movie)

2. Because you like the movie, I need to find out how much you liked it. I will give you some choices; listen to all of them before you choose. (Go on to 4)
   a. I liked it a little.
   b. I liked it a lot.
   c. I liked it better than most movies I see.
   d. I like it better than all of the movies I have seen.

3. Because you did not like the video, I need to find out how much you did not like it. (Go on to 5)
   a. I didn’t like it much.
   b. I did not like this movie.
   c. I really did not like this movie.
   d. This was the worst movie I have ever seen.

4. Tell me what you liked about the video.
   a. The characters?
   b. The dog?
   c. The story and what happened?
   d. Something else? (May indicate something about the color)

5. Tell me what did you not like about the video.
   a. The characters?
   b. The dog?
   c. The story and what happened?
   d. Something else? (May indicate something about the color)

6. Do you think other kids would like this video?
   If ‘no’ go to 7 and if ‘yes’ got to 8.

7. Follow-up: if kids say no: Why wouldn’t other kids like this movie?

8. Follow-up: If kids say yes: Why would other kids like this movie?

9. Do you think talking about videos is a good way to find out how well kids can talk?

10. Why is talking about videos a (good/not good way) to find out about how kids talk?

11. How many videos do you watch?
    a. I watch a video or movie about once a week.
    b. I watch more than 3 videos a week.
    c. I watch about 5 or more videos a week.

12. Have you watched videos at school?
13. Think about how many videos you see at school, do you see:
   a. Not a lot of videos
   b. Videos sometimes at school
   c. A lot of videos at school (once a month or more)
   d. Too many videos at school (every week)

14. Tell me all the reasons you watched videos at school.
   a. For inside recess when the weather is bad.
   b. As a reward for my class when the teacher says our behavior or work is good.
   c. To learn new things
   d. Any other reasons

15. At home: Do you watch videos:
   a. By yourself (sometimes or most of the time)
   b. With friends (sometimes or most of the time)
   c. With family (sometimes or most of the time)

16. What is your favorite thing to do at home?

17. Do you do your (name favorite thing)
   a. Everyday
   b. At least 3 times a week
   c. On the weekends
   d. Sometimes, but not a lot

18. Do you like to read? (Yes or no)

19. When you have free time would you rather:
   a. Read a book
   b. Watch a video
   c. Play a video game
   d. Play basketball, baseball, or football
   e. Ride my bike
   f. Anything else?

20. Do you think you watch?
   a. Videos sometimes
   b. Videos a lot
   c. Videos too much
   d. I watch about the right amount of videos

21. Tell me some of the videos kids like to watch. (Have child name at least 3)
APPENDIX B

Directions For Language Sampling With Frankenweenie© Video

Dr. Nola T. Radford, Ph.D., CCC-SLP

CLINICIAN: You are going to see part of a video. It’s called “Frankenweenie.” Have you seen it before?

[CHILDREN’S RESPONSE HERE]

If you have seen it before, that’s OK. Make sure you watch and listen carefully. In a while, I will ask you to describe what you saw to someone else who has not seen the video. I want you to try to describe everything you see, from the beginning until the end.

The story is about a boy named Victor and his dog Sparky.

*Who is in the video?

[CHILDREN’S RESPONSE HERE/IF THE CHILD DOESN’T REMEMBER THE NAMES, REMIND HIM/HER AND REPEAT QUESTION ABOVE]

SEGMENT TO SHOW

Directions. Make sure you have checked that the video is at the correct starting point beforehand. Fast forward past the opening, movie credits and first classroom scene. Begin playing the segment at the point where Victor is walking into his house after school. His mother is on the phone.

Show about 10 minutes of the video.

Then provide the following instructions:

INSTRUCTIONS AFTER VIEWING

CLINICIAN: Alright, now I’m going to bring ___________________________ in. I want you to tell him/her everything you saw.

INSTRUCTIONS FOR LISTENER/INTERVIEWER

Directions. Talk as little as possible. Begin with a statement, such as “Tell me all about the video you just watched”. While the child is talking, you may use any of the following:

NEUTRAL QUERIES-- “Hmmm, Oh, Un-hunh…”

GENERAL COMMENTS-- Repeating something the child just said.

STATEMENTS -- “Wow, he really loved his dog…”

CLOSING-- “I wonder how this story might end.”

“You tell me.”

“I wonder how this story began.”

“You tell me what you think happened before as the story began.”

Avoid “wh” questions during this sample, except those listed.
REFERENCES


Winkler, E. G. (2003). Spanish sociolinguistics and pragmatics. ECHO