

A conversational intervention procedure as a tool for improving and evaluating narrative skills: A study of 5-to-8 years old French children.

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INTRODUCTION

Narrative skills require sophisticated linguistic cognitive discursive, and abilities pragmatic to understand and communicate a story's key events.

years children can By 4-5 produce descriptive narratives but have difficulties explaining and evaluating events, as well making reference to the characters' internal states and individual their to perspectives.

ver, children However, produce narrative complex more contents when prompted (e.g., 1988; Wellman & Bartsch Eaton, Collis & Lewis 1999) or even in monological narratives if these are told after an explanation-oriented conversation (e.g., Veneziano & Hudelot, 2006; Veneziano å 2008; Martin, Albert Veneziano, 2010).

A conversational intervention procedure as a tool for improving and evaluating narrative skills: A study of 5-to-8 years old French children

E. Veneziano¹, C. Hudelot², L. Albert¹, C. Caracci¹, J. Elie³, E. Hebert², M.T. LeNormand⁴, M.H. Plumet⁵, S. Poncin¹, N. Salagnac⁶

(1) Université Paris Descartes-CNRS, MoDyCo, UMR 7114, Paris, France (2) BCL, UMR6039, CNRS & Université de Nice Sophia-Antipolis, Nice, France (3) Université Toulouse-Le Mirail, Toulouse, France (4) INSERM & Université Paris Descartes, Paris, France (5)Université Paris Descartes-INSERM, UMR 663, Paris, France (6) IUFM de Lille (Centre de Gravelines), Gravelines, France

Measures of Narrative Content

1. Overall coherence score for a story of misunderstanding

A score of 0 to 20 points was attributed for: narrative structure (max. 3 pts), explanation of key events (max. 2x4=8 pts), expression of False Belief and of its rectification (max. 4+3=7 pts) and expression of all the main elements (max. 2 pts).

2. Causal explanation of the 4 key events: pushing, pushing back, showing the stone, picking up the partner

Examples of causal explanation (translated from French) for: 1) pushing: He has stumbled on a stone and has pushed the other one; 2) pushing back: He pushes back because he thought he had pushed him on purpose; 3) showing the stone: He shows the stone to say that it wasn't his fault; 4) picking up the partner: He explains to him and the child then helps him to get up

3. References to the characters' intentional and epistemic states: intentional : does/doesn't do it on purpose; epistemic: believe, know...

4. False belief expression (FB score : from 0 to 4) : For the higher scores (3 and 4, children

- express the unintentional and/or physical cause of the first push: *il a trébuché sur une pierre* 'he stumbled on a stone'; AND

AIMS OF THE STUDY

1) To validate the results of earlier studies concerning the effect of conversation a the focused causal on explanation of events, on the evaluative content of children's narratives (Figs to 5);

2) To determine the degree of STABILITY of the causaloriented conversation effect one week later;

attribute to one of the characters the belief that the push was intentional : *l'autre croit qu'il l'a fait exprès* 'the other one believes he did it on purpose' 5. Rectification of the false belief expression (RFC score : from 0 to 6) : For the higher scores, children

- have P1 explain the physical cause of the first push AND

- have P2 understand and clear the misunderstanding: et il disait que c'est à cause de ce caillou que je t'ai poussé... 'and he said that is because of this stone that I pushed you'believes

RESULTS

For all measures and in all groups, a major effect of *causal-oriented conversation* is found on all subsequent narratives. Post-hoc comparisons show that second, stability and generalization narratives have a higher score then the first narrative, and. for the most part, are not statistically different among themselves.

Fig. 1 Overall coherence, by narrative and class/age

p<<.001.



Fig.1 - Main effect of - order of narrative: F(3,324)=15.32;

1.4 - class/age: F(2,335)=31.39, both with second narr – Kindergarten < 1st and <u>m</u> 0.8 2nd graders, 1st=2nd graders;

Stability and Generalization narr.: Kindergarten < 1st grade < 2nd grade children

Fig. 2 Explanation of key events,

Fig. 4 FB expression, by narrative and class/age



Fig. 4 - Main effect of - order of narrative: F(3,324) =2.94, p<.05; - class/age: F(2,335) = 18,p<<.001.

Second and stability narr -Kindergarten < 1st and 2nd graders, 1st=2nd graders; Generaliz narr.: Kindergarten < < 2nd graders, 1st=2nd graders.

Fig.5 RFB expression, by narrative and classe/age

- 3) To determine whether the effect is GENERALIZABLE to a new story;
- **4)** To the determine the relationship between linguistic expression of False Belief in the narratives and cognitive mastery on ToM FB tasks.

METHOD

Participants

- 84 French-speaking children between the ages of 5;6 and 8;8 years
- 28 children per school level:
- Kindergarten 5,6 to 6,4 years
- First grade 6;4 to 7;2 years
- Second grade 7;3 to 8;8 years

Procedure

1. Each child was presented with five wordless pictures (the "stone story" a story of a misunderstanding between two depicted characters,

by narrative and class/age



Second Narr Stab Narr Gen Narr

Fig. 2 - Main effect of - order of narrative: F(3,324)=13.43; - class/age: F(2,335)=18.1, both with

p<<.001. Post-hoc comparisons show that second narr. doesn't differ from stability then the but is better narr. generalization one. Kindergarten score < 2nd graders on all narratives, while 1st and 2nd graders do not differ.

Fig. 3 Epistemic States, by narrative and classe/age



Kinder 5-6yrs 1st Gr 6-7yrs 2nd Gr 7-8yrs



Fig. 5 - Main effect of - order of narrative: F(3,324) =6.08, p<<.001; - class/age: F(2,335) = 22.57p<<.001. Kindergarten <1st gr < 2nd graders Second, stability and generalization narr - 2nd graders'

score > 1st gr and Kindergarten.

Fig. 6 Success in ToM tasks according to class/age

ToM tasks	2 tasks	1 task	0 tasks
Kinder 5-6yrs	43%	39%	18%
1st Gr 6-7yrs	43%	50%	7%
2nd Gr 7-8yrs	54%	43%	4%

Fig. 6 – there is no difference between the class/age groups in the success on ToM tasks: Oneway Anova: F(2,81)=0.606, ns

Fig. 7 Relationship between FB expression in narratives and success in ToM tasks



Fig. 7 – Children who express FB in at least one of the four narratives, are more likely to succeed 2 ToM tasks then children who do not express FB in narratives: $\chi^2(2,84) = 7.04$ p<.05

Fig. 3 - Main effect of order of narrative: F(3,324)=3.49,

p<0.01;

- class/age: F(2,335) = 10.36, p << 0.001.

Post-hoc comparisons show that second, stability and generalizazion narratives do not differ between themselves. but is better then the generalization one. Kindergarten < 1st and 2nd graders, the last two

see below) presented sequentially. Once the pictures were removed the child was asked to tell the experimenter what s/he had understood of the story (First Narrative)

- 2. Then the experimenter engaged in conversation with the child soliciting causal explanations of the main events;
- 3. Children were asked to tell the story again (Second Narrative).
- 4. One week later each child went through the same procedure as in 1 (Stability Narrative)
- 5. Same procedure with an analogous the Bicycle story story -(Generalization story)

The interviews were video-recorded, transcribed *verbatim* in CHAT and linked to the video.



edy.veneziano@parisdescartes.fr

not differing between themselves.

First Narr Second Narr Stab Narr Gen Narr

CONCLUSIONS

1. The findings of earlier studies are validated. A causal-oriented conversation has a major effect on the content of all children's subsequent narratives: Increase in overall score of coherence, explanation of events, expression of epistemic states, false belief and rectification of misunderstanding. The effect is stronger for 6 to 8 yrs old than for 5-6 yrs. 2. This effect persists one week later (stability narrative) and 3. Is generalizable for all measures (excepted epistemic states and RFB in 5-6 year olds). 4. Children who express the FB in at least one of the four narratives tend to be those who have good mastery of ToM FB tasks.

Results confirm the importance of the conversational procedure for improving young children's narrative functioning and its usefulness in the assessment of children's narrative competencies.

The stone story (Furnari (1980), Veneziano & Hudelot, 2006)







