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APRENDRE A PARLAR:  
LA RELACIO ENTRE LES PRODUCCIONS DEL BALBOTEIG I LES PRIMERES PARAULES

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## 11. Consideracions finals

Per acabar volem plantejar l'interès que tenen les dades aquí presentades en relació a l'àmbit de la detecció precoç de trastorns de parla i llenguatge, així com en el terreny de la intervenció. Encara que es tracti d'una primera aproximació al tema, la informació presentada, relativa al paper del balboteig en la forma de les primeres paraules, és un factor a prendre en consideració davant la valoració de problemes inicials en el desenvolupament. L'estudi de les característiques del pre-llenguatge en circumstàncies "especials", en el cas de nens hipoacúsics o traqueotomitzats, es presenta com un àrea de màxim interès ja que ens pot permetre analitzar més a fons el pes dels aspectes perceptius i motrius en les característiques de les emissions de balboteig i avaluar la importància de les emissions realitzades en relació a la parla posterior.

Paral·lelament, la recerca des de la perspectiva acústica i metafonològica s'hauria de potenciar ja que és fonamental clarificar aspectes relatius a qüestions com, per exemple, la presència de balboteig marginal prop encara de les primeres paraules i la seva relació amb el tipus de desenvolupament fonètic i factors d'intel·ligibilitat de la parla. A la vegada, l'estudi de les variacions fonètiques que auditivament podem percebre en les emissions del balboteig i la seva correlació amb paràmetres de tipus acústic i metafonològic, haurà de permetre establir criteris més objectius que podran ser utilitzats en posteriors anàlisis de les produccions dels infants.

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APENDIX

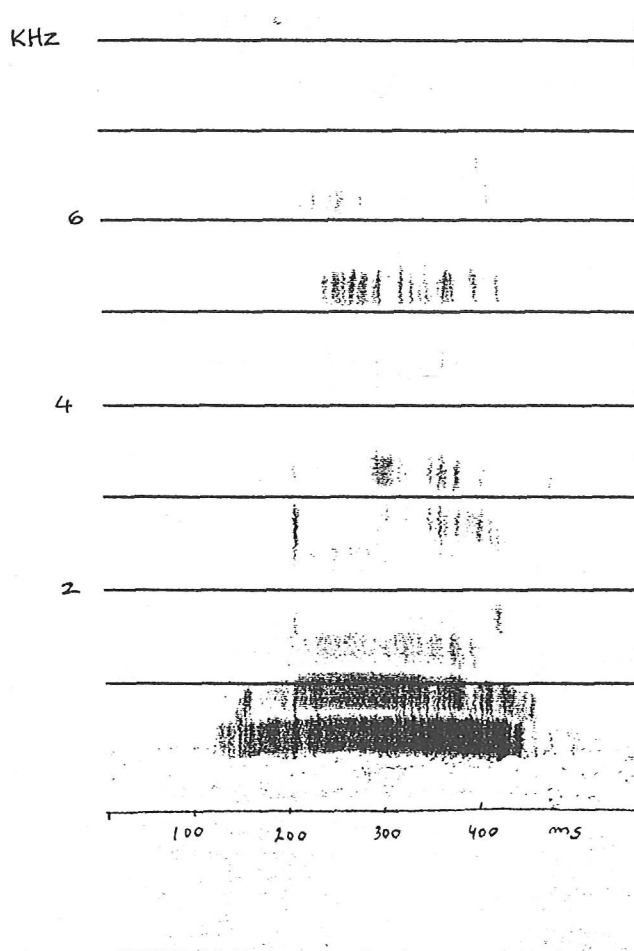
## APENDIX

L'anàlisi acústica realitzada d'una bona part de les emissions dels subjectes del present estudi permet incloure en aquest breu apèndix algunes mostres de sonogrames que podem considerar representatives dels diferents tipus d'emissions presents al llarg del període estudiat. Encara que no és un objectiu d'aquesta investigació analitzar les produccions dels infants des de la perspectiva acústica, ni avaluar l'adequació d'algunes de les mesures que es proposen (v. l'anàlisi metafonològica d'Oller, 1986), ha semblat oportú poder mostrar aquests exemples de produccions diferenciades, suficientment espaiades en el temps, de manera que es pugui perfilar la millora qualitativa de les emissions vocals-verbals al llarg del primer any de vida.

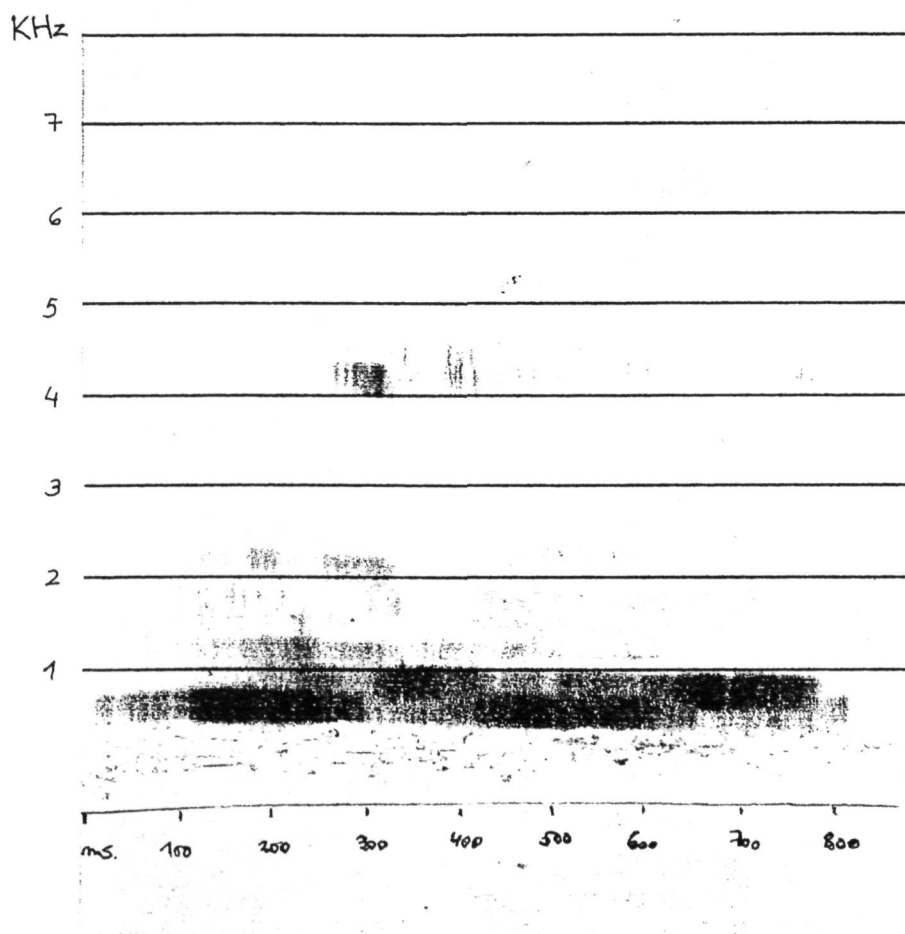
Les anàlisis han estat realitzades al Laboratori de Fonètica de la Universitat de Barcelona, amb l'ajut de la Dra. Valeria Salcioli, amb un sonògraf digital Kay Elemetrics 7800, utilitzant filtres de banda ampla (300Hz,) i ampliacions a banda estreta (45 Hz.).



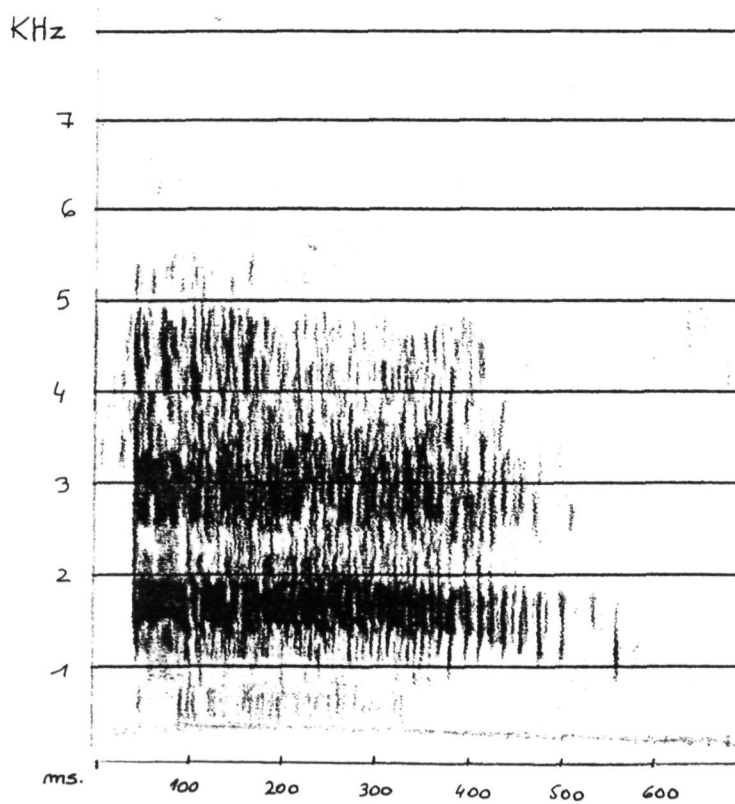
A1, Emissió que es pot considerar de resonància incompleta ja que l'energia es concentra a les freqüències baixes, per sota els 2000 KHz, Correspon al S,2, a l'edat de 3 mesos.



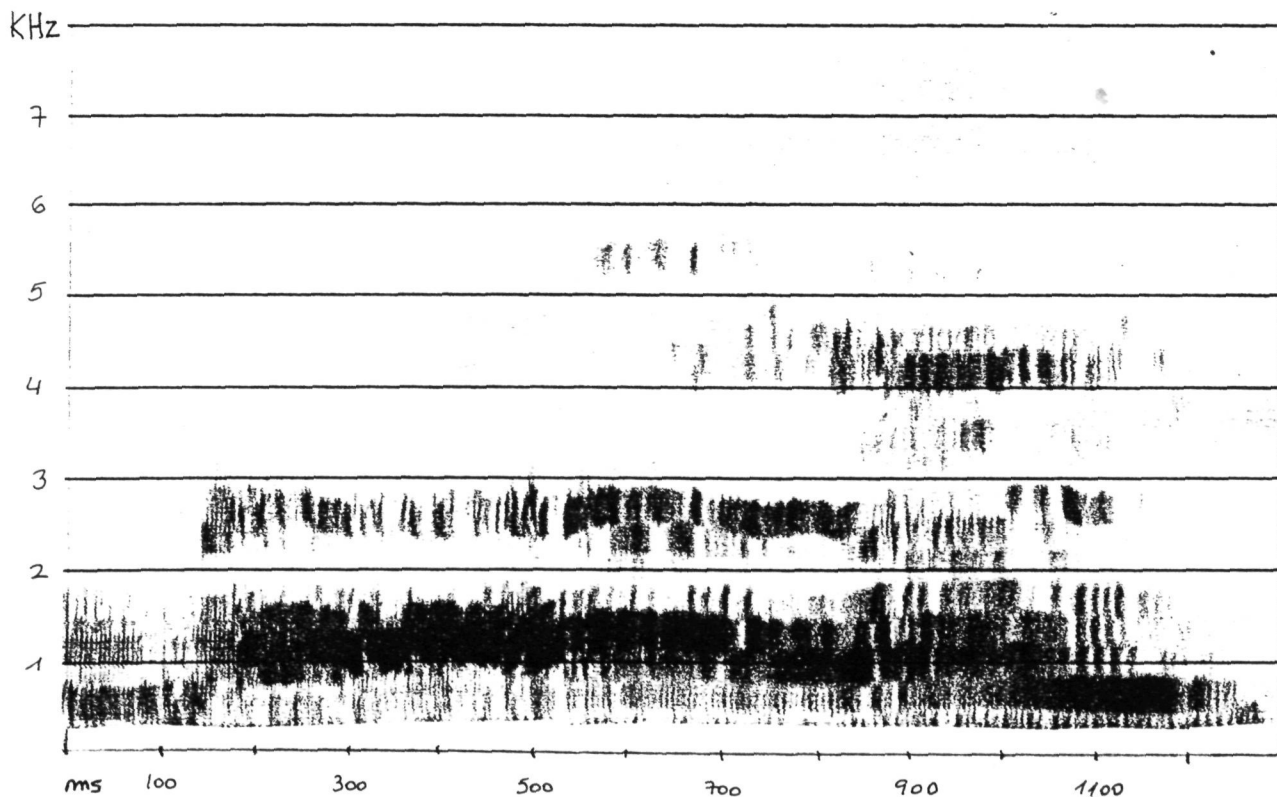
A2, Emissió nasalitzada amb l'energia centrada als 500-600 Hz característica del formant nasal, Correspon al S,1 a l'edat de 4 mesos 2 setmanes,



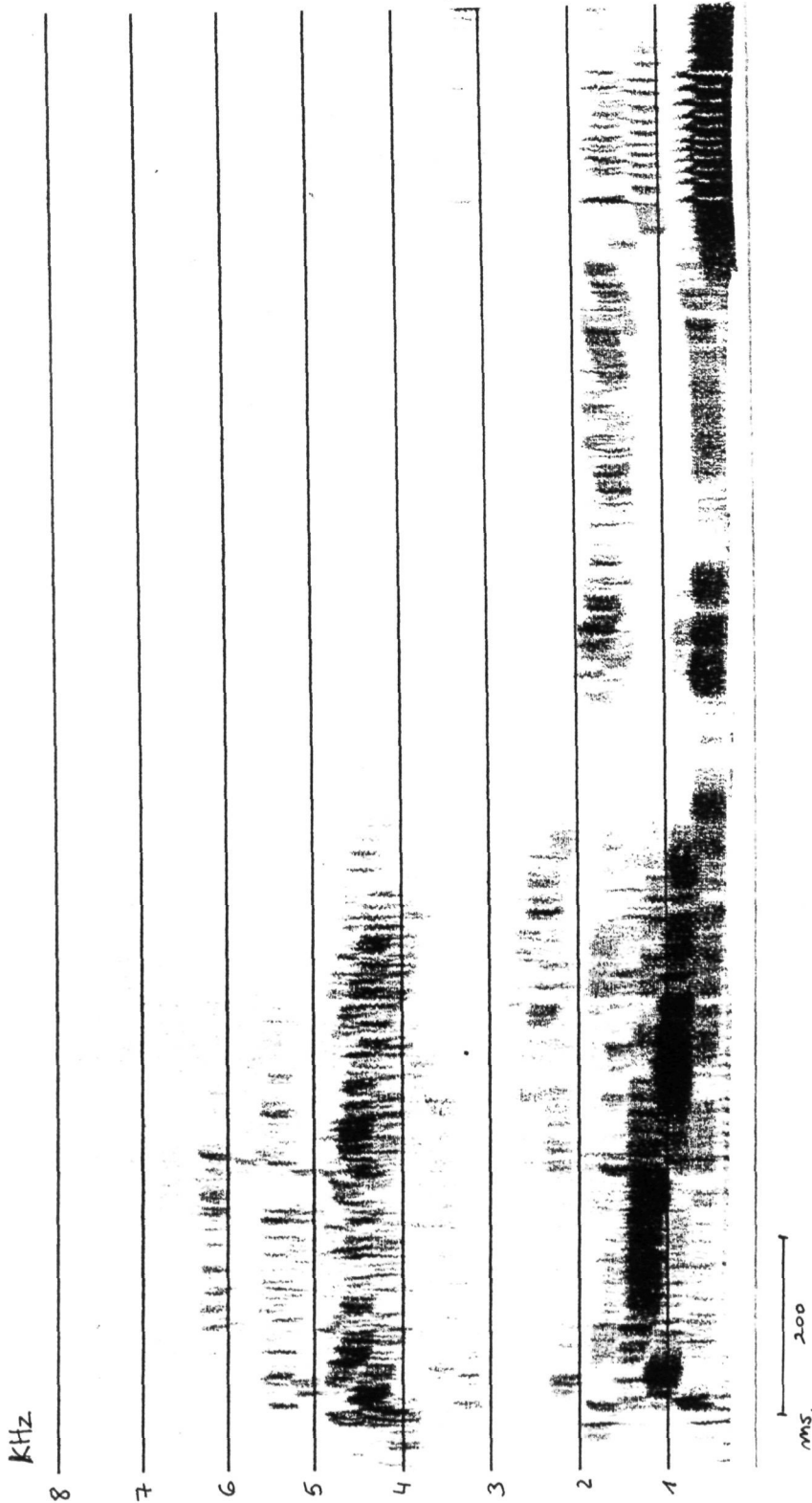
A3, Emissió vocàlica molt propera al plor (el precedeix) corresponent al S,1  
a les 8 setmanes.



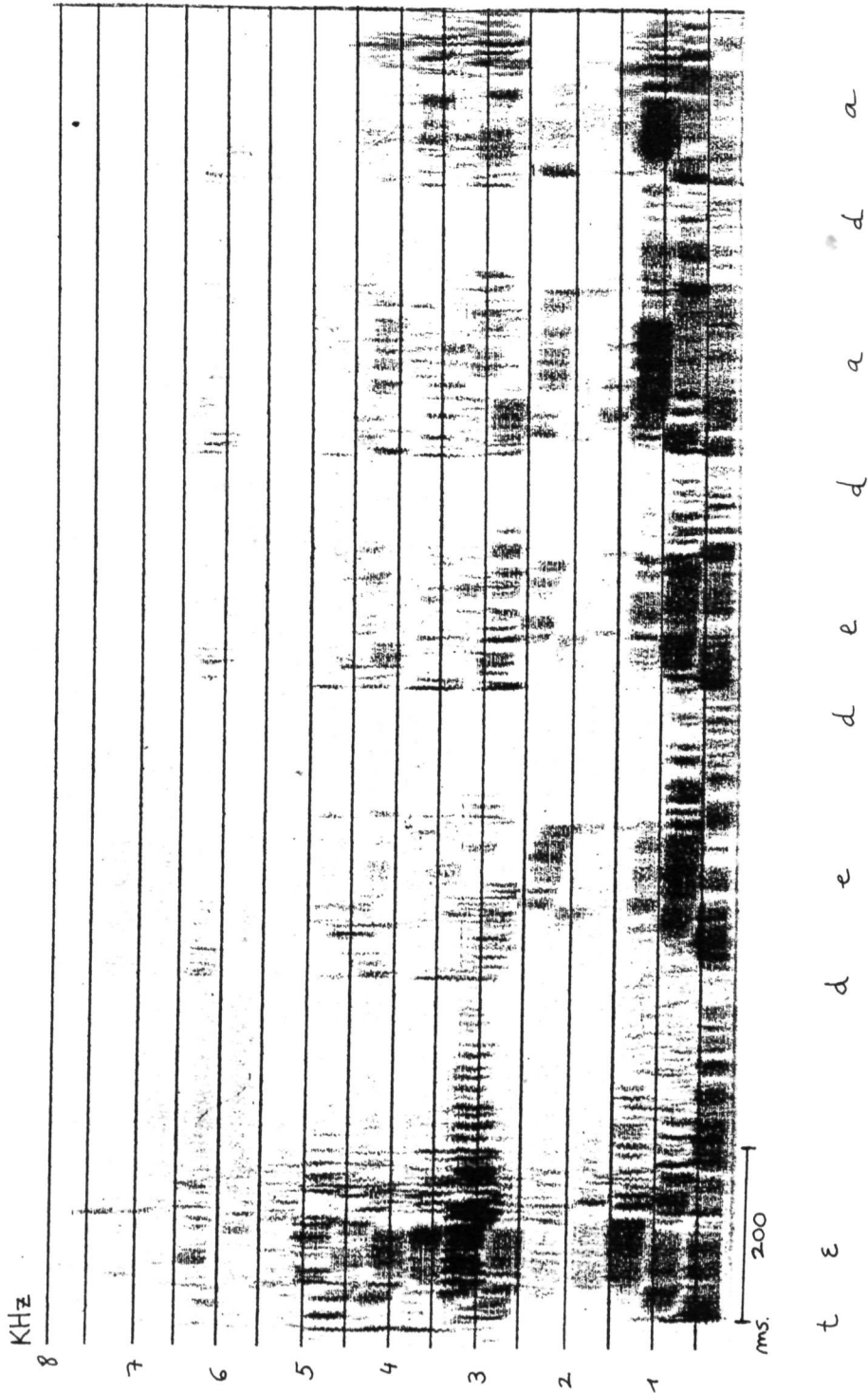
A4. Emissió vocàlica de resonància completa emesa pel S,1 a les 12 setmanes.



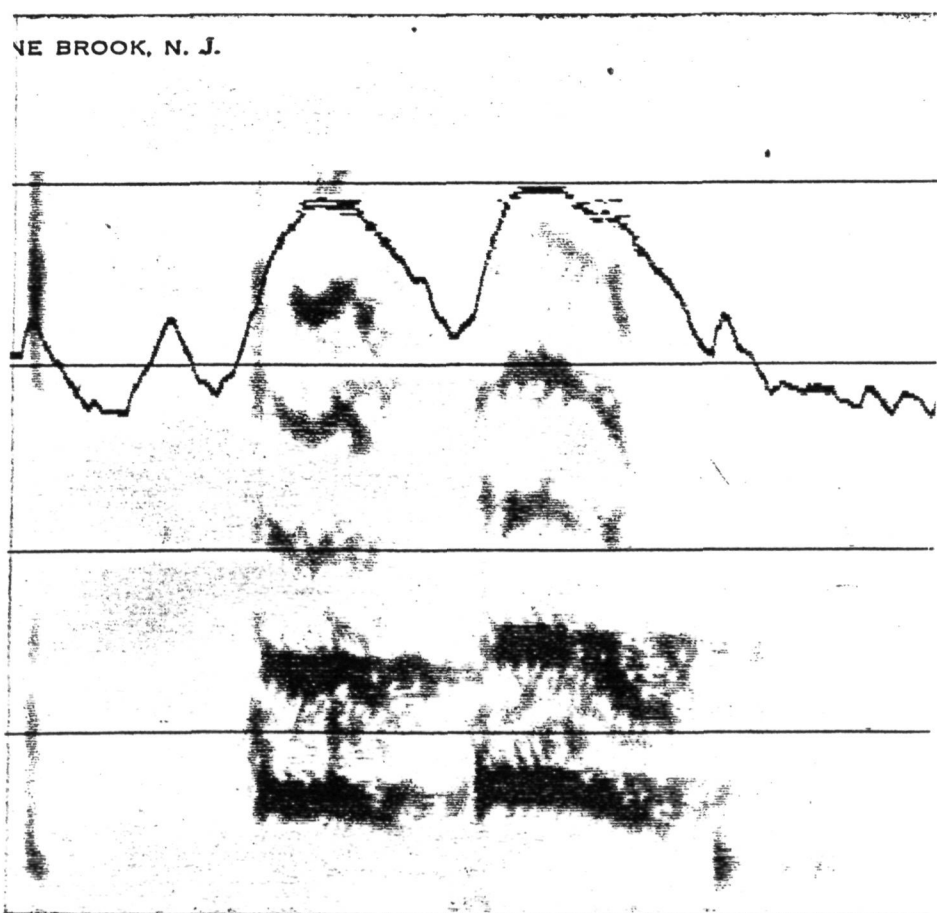
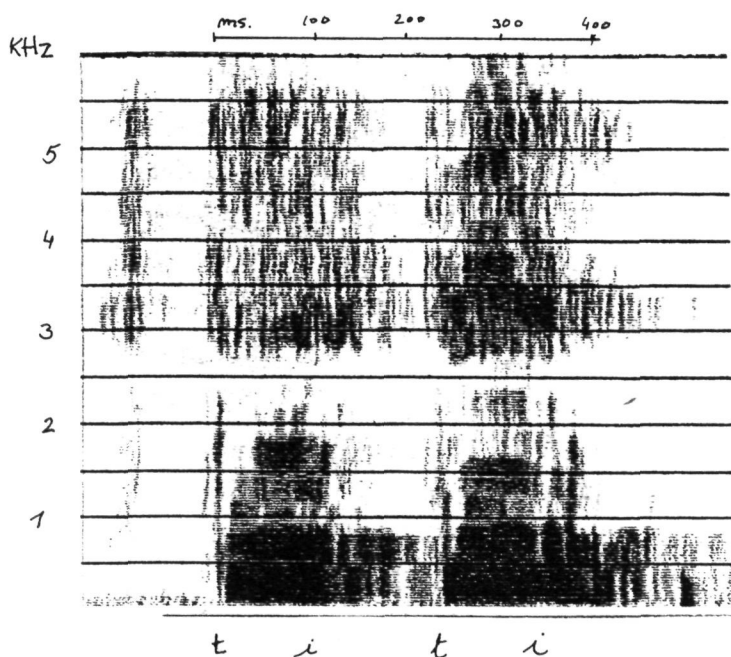
A5, Mostra de balboteig marginal del S,1 als 6 mesos. Correspon a una producció "bisil·làbica" combinant oclusions en l'àrea bilabial (inici oral/final nasal) i sons vocàlics llargs.



A6. Mostra de balboteig canònic, amb una més clara estructura sil·làbica; sons consonàntics alveolars (t/d) i sons vocàlics (e/e/a). Correspon al S.3 als 11 mesos.



A7, Sonograma d'una paraula [titi] emesa pel 9,3 als 14 mesos i 2 setmanes,  
Es presenta l'ampliació de la mateixa producció,



## QUADRE DE SÍMBOLS UTILITZATS

### Símbols vocàlics:

| Anterior |   | Central | Posterior |   |
|----------|---|---------|-----------|---|
| i        | ü |         | u         | ω |
| e        |   | ə(α)    | o         |   |
| ε        |   |         | ɔ         |   |
|          | æ | a       | ʌ         |   |

### Símbols consonàntics:

|           | Labial |   | Dental/Alveolar |   | Palatal |   | Velar |   | Glòtica |   |
|-----------|--------|---|-----------------|---|---------|---|-------|---|---------|---|
| Sonoritat | +      | - | +               | - | +       | - | +     | - | +       | - |
| Oclus.    | b      | p | d               | t |         |   | g     | k |         | ʔ |
| Fric.     | β      | ɸ | f               | ð | z       | s | ʃ     | f | χ       | x |
| Nas.      | m      |   | n               |   | ɲ       |   | ŋ     |   |         |   |
| Lat.      |        |   | l               |   | λ       |   |       |   |         |   |
| Vibr.     | B      |   | r               |   |         |   | R     |   |         |   |
| Semic.    | w      |   |                 |   | j       |   |       |   |         |   |

### Dígrafs:

Bθ,pf,pθ,pf,px      dl,tθ,ts,th,tó,tf,tl      kh,xl,xs

### Diacrítics:

´, 'cv: accent, sil.laba tònica.

ç : palatalitzada

(per l'aspiració i la lateralització fem servir els dígrafs)

### Altres:

C: Consonant

V: Vocal

[ ]: Transcripció fonètica

/ /: Valor fonemàtic

| |: Classe de sons ("phone class")

< >: Transcripció de la forma fonètica més usual d'una paraula









