Impact of Health Concerns on Speech From Birth to 5 Years

Premature

N=27

27/27

25/27

4/27

13/27

2/27

10/27

Difficulties

N=96

42/96



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GERD

N=46

14/46

46/46

Bruxism

N=19

Drooling

N = 33

4/33

28/33

33/33

14/33

9/33

24/33

24/33



Sensitivity

N=58

Difficulties

N = 107

Department of Communicative Sciences and Disorders

Factors

(Total N=142)

Premature

Feeding

Difficulties

Drooling

GERD

Bruxism

Oral

Sensitivity

Speech

Difficulties

ABSTRACT

Many health concerns can impact speech development, especially during the period of birth to 5 years. How significant are factors such as reflux, oral sensitivity, feeding difficulties, bruxism, drooling and premature birth, on speech development at this early age?

This poster reports the results of statistical analysis of an inclusive retrospective study comparing these factors and speech development for 142 children seen over a 14 month period in a community based therapy clinic.

METHODS

142 Participants

Inclusion Criteria:

- Referral due to developmental concerns
- Age at treatment birth to 5 years
- Background intake form completed between 01/01/06 and 03/01/07

Note of Interest

Of the 142 Participants,

110 had more than 1

diagnosis.

Diagnoses:

- 14 Trisomy 21
- 113 Dysarthria
- 25 Language delay
- 16 Non oral intake
- 22 Speech delay
- 7 Cerebral Palsy
- 5 Hypotonia
- 4 PDD
- 4 Otitis Media
- 25 additional diagnoses

Note of Interest More than

Procedures

Chart review identifying the following:

- Date of birth
- Prematurity
- Feeding difficulty
- Drooling
- Testing

GERD

Bruxism

Oral sensitivity

Speech difficulties

- Client Background Information Form
- Rosetti Infant Toddler Language Scale 2005
- Beckman Oral Motor Protocol 2006
- Photo Articulation Test 3rd Edition (PAT-3)
- Preschool Language Scale 4th Edition (PLS-4)

50% of children with feeding problems had speech difficulties

referrals, 110 had more than one health concern factor.

There was a strong

co-occurrence between

feeding and speech

difficulties

As detailed in the comparison chart, two factor co-occurrence was greater than 50% when looking at all children with feeding problems who also showed speech problems 73% (70 our of 96) and of all children who had speech difficulties 65% (70 out of 107) also had feeding problems.

SUMMARY

This was a large sample size of 142 cases that was inclusive for all

referrals to a developmental clinic for a 14 month period. Of all the

In comparison with other health concerns,

- 73% of children with drooling (24 out of 33) had speech difficulties
- 67% of children with GERD (31 out of 46) had speech difficulties
- 74% of children with bruxism (14 out of 19) had speech difficulties

• 67% of children with prematurity (18 out of 27) had speech difficulties

- 71% of children with oral sensitivity (41 out of 58) had speech difficulties

IMPLICATIONS

58/58

Feeding difficulties and speech difficulties may have a significant co-occurrence.

In general practice more detailed background information is needed during intake regarding early feeding history as well as other health concerns.

In general practice a quantified assessment of oral motor skills is needed to determine if a motor deficit exists, which may impact speech production.

Further research is needed to better define the relationship between feeding difficulties and later speech development.

* Additional information available from info@beckmanoralmotor.com

This study is dedicated to the memory of Evan Ackerbloom