



MONITORING THE DEVELOPMENT OF DHH CHILDREN

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OUTLINE

- Early intervention in The Netherlands
- Background on monitoring
- Examples of monitoring
- The first findings
 - family & parenting
 - language
- Questions

EARLY INTERVENTION IN THE NETHERLANDS



± 3 months



1½ years



4 years

DHH diagnosis

Start
intervention

Family
centered early
intervention



Treatment
groups for DHH
children

Family
centered early
intervention



Start of school

Family
centered early
intervention
(until ± 6
years old)



Multidisciplinary team:

Family counselor - Clinical linguist - Child psychologist - Speech therapist - Audiologist

WHY MONITORING?

Practice

- Insight into the development of DHH child
- Starting point to set and adjust treatment goals

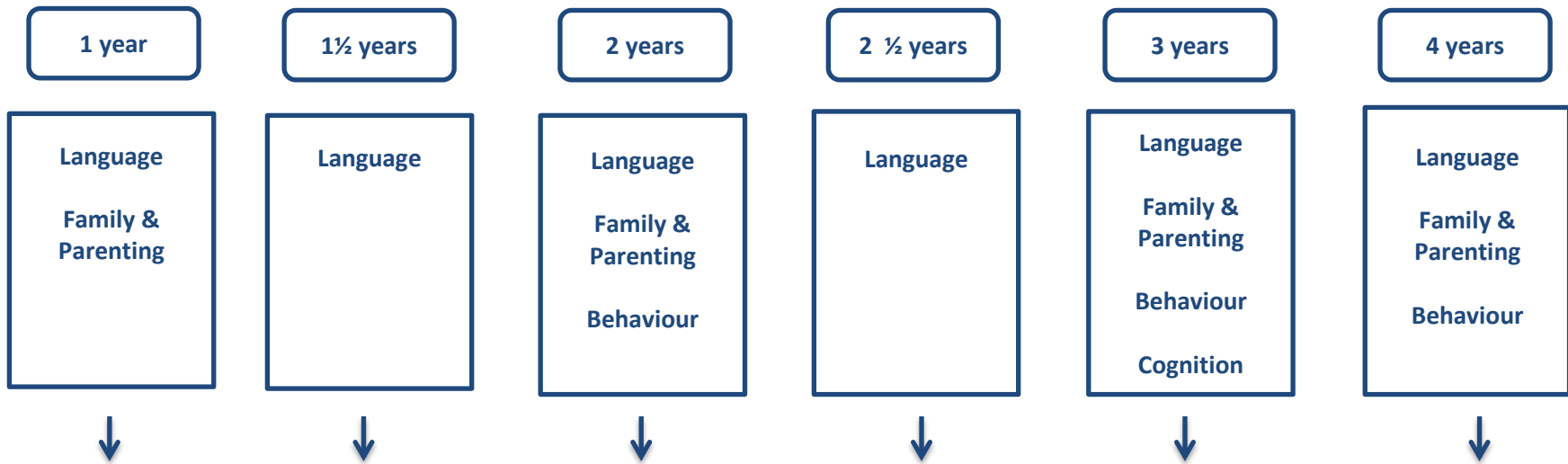
Research

- Insight into the characteristics and development of the group DHH children
- In time: insights into the effect of (parts of) treatment

MONITORING

- social-economical status
- degree of hearing loss
- start of intervention
-

- scheduled moments for testing
- fixed set of tests and questionnaires



Multidisciplinary meetings
Setting treatment goals

WEB-BASED APPLICATION



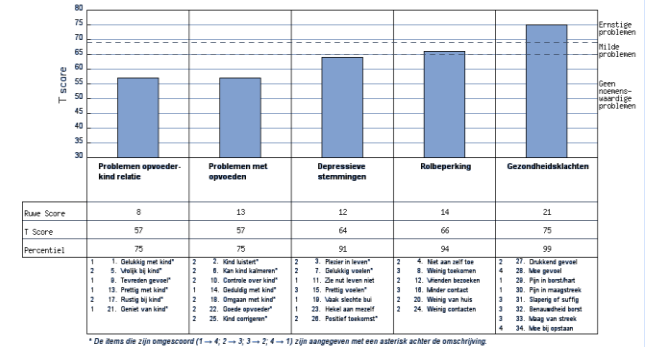
online questionnaires
by parents

Family & Parenting
Behaviour
Language

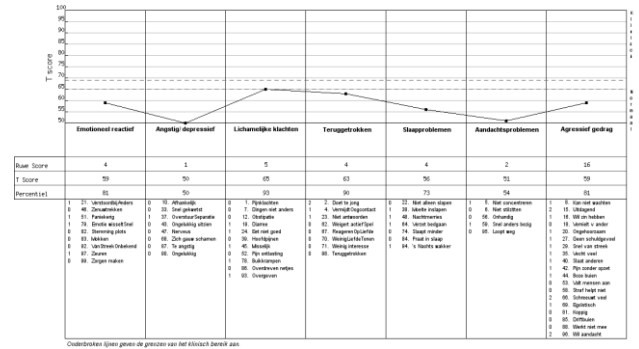


test results & questionnaires
by professionals

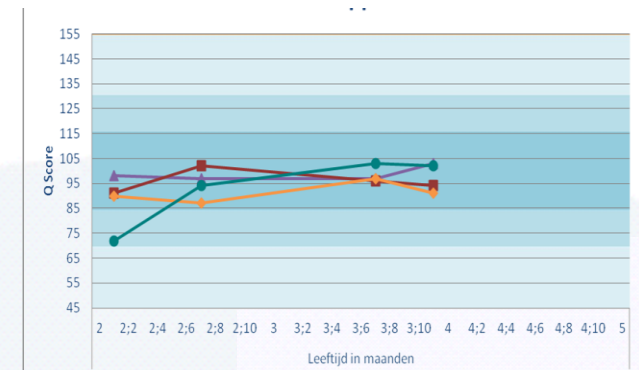
Language
Cognition
Behaviour



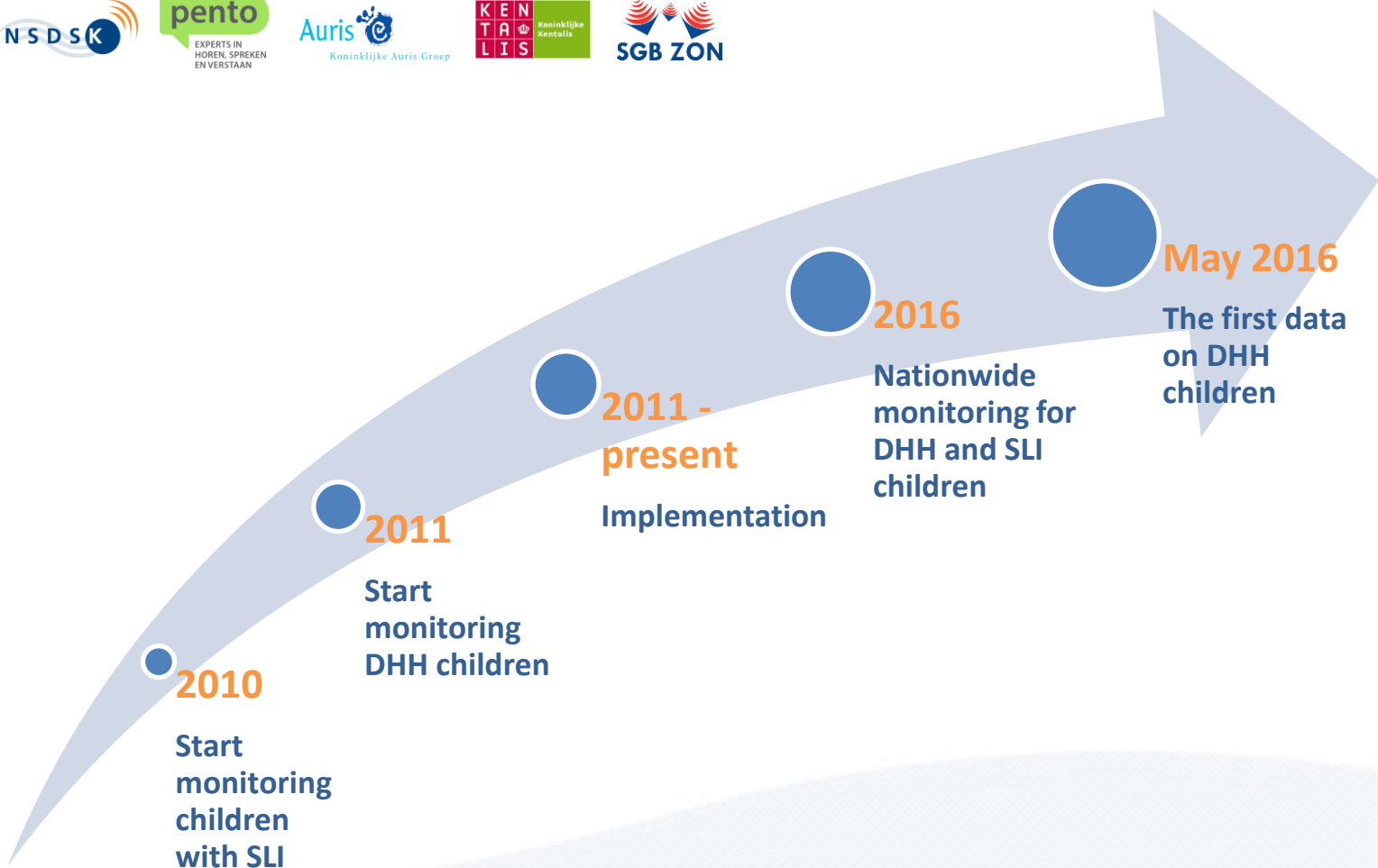
* De items die zijn omgecoörd (1 → 4, 2 → 3, 3 → 2, 4 → 1) zijn aangegeven met een asterisk achter de omschrijving.



Onderbroken lijnen geven de scores van het kind bij bereikt aan



MONITORING IN THE NETHERLANDS



MONITORING IN AN EARLY INTERVENTION SETTING

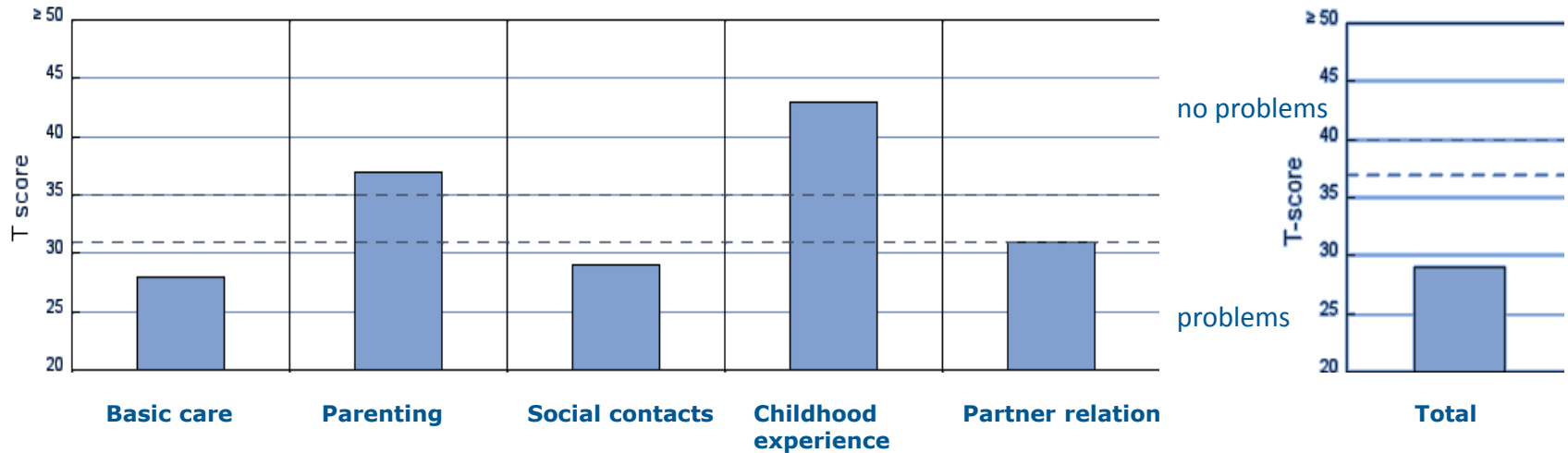
EXAMPLE 1

Emma – 2;0 years old



- hearing loss ca. 90 dB
- hearing aids
- visits treatment group from age 1;6
- parents didn't report any problems
- questionnaire on family functioning

EXAMPLE - FAMILY FUNCTIONING



- Expand social network and social support (courses for family & friends)

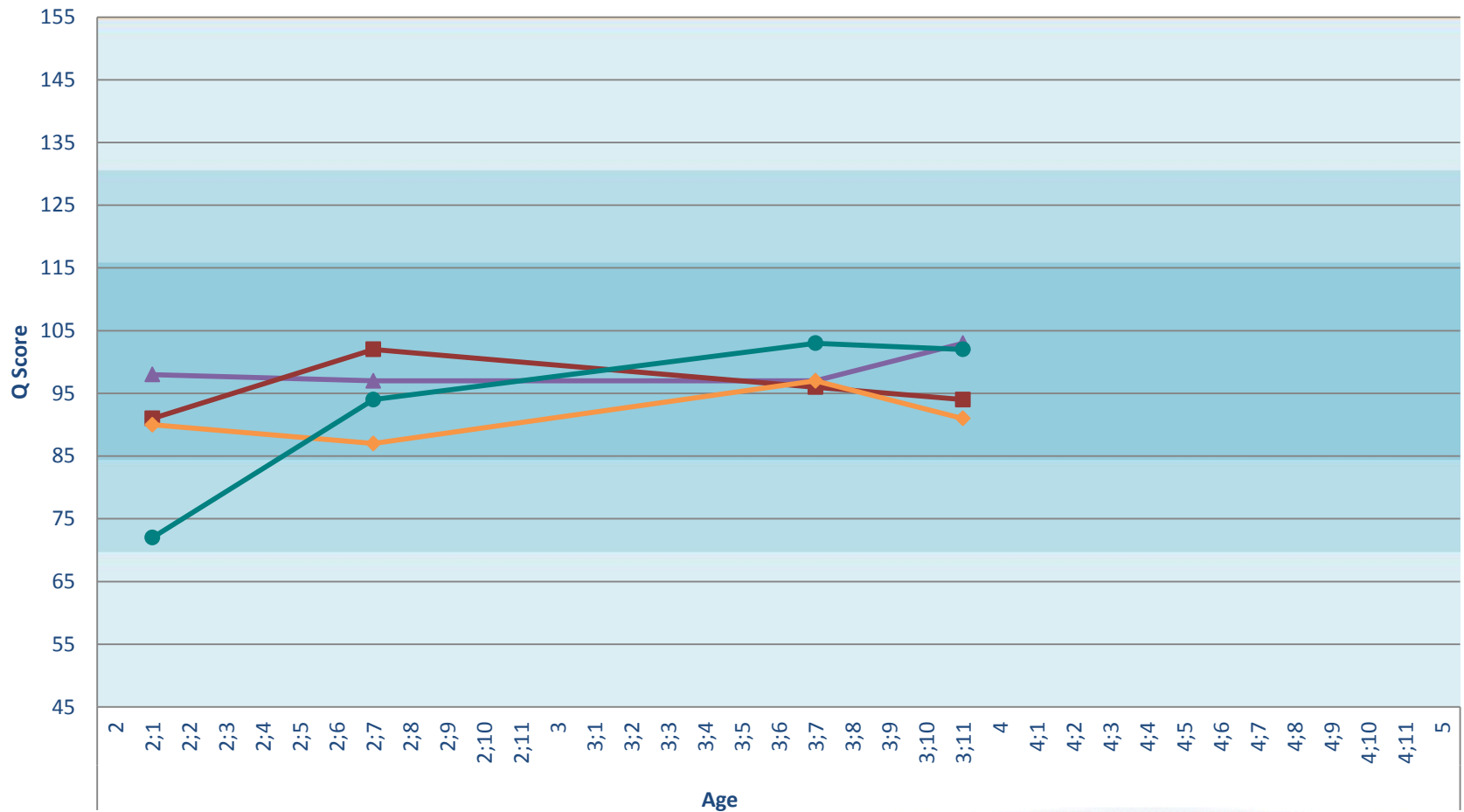
EXAMPLE 2





Tim – 4;0 years old



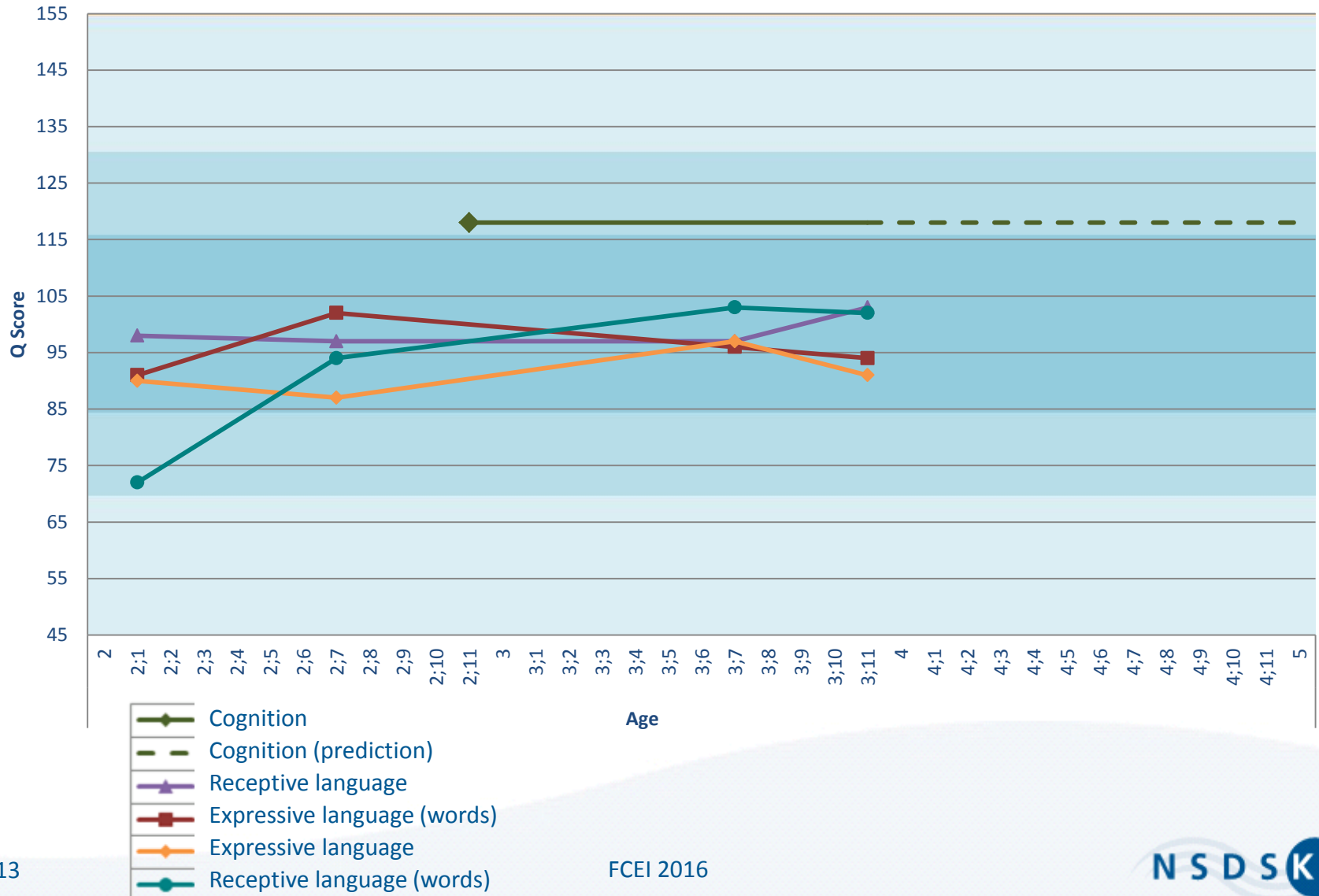
- >100dB hearing loss
- bilateral implanted at age 0;10
- visits treatment group from age 1;6
- regular primary education

EXAMPLE – LANGUAGE DEVELOPMENT



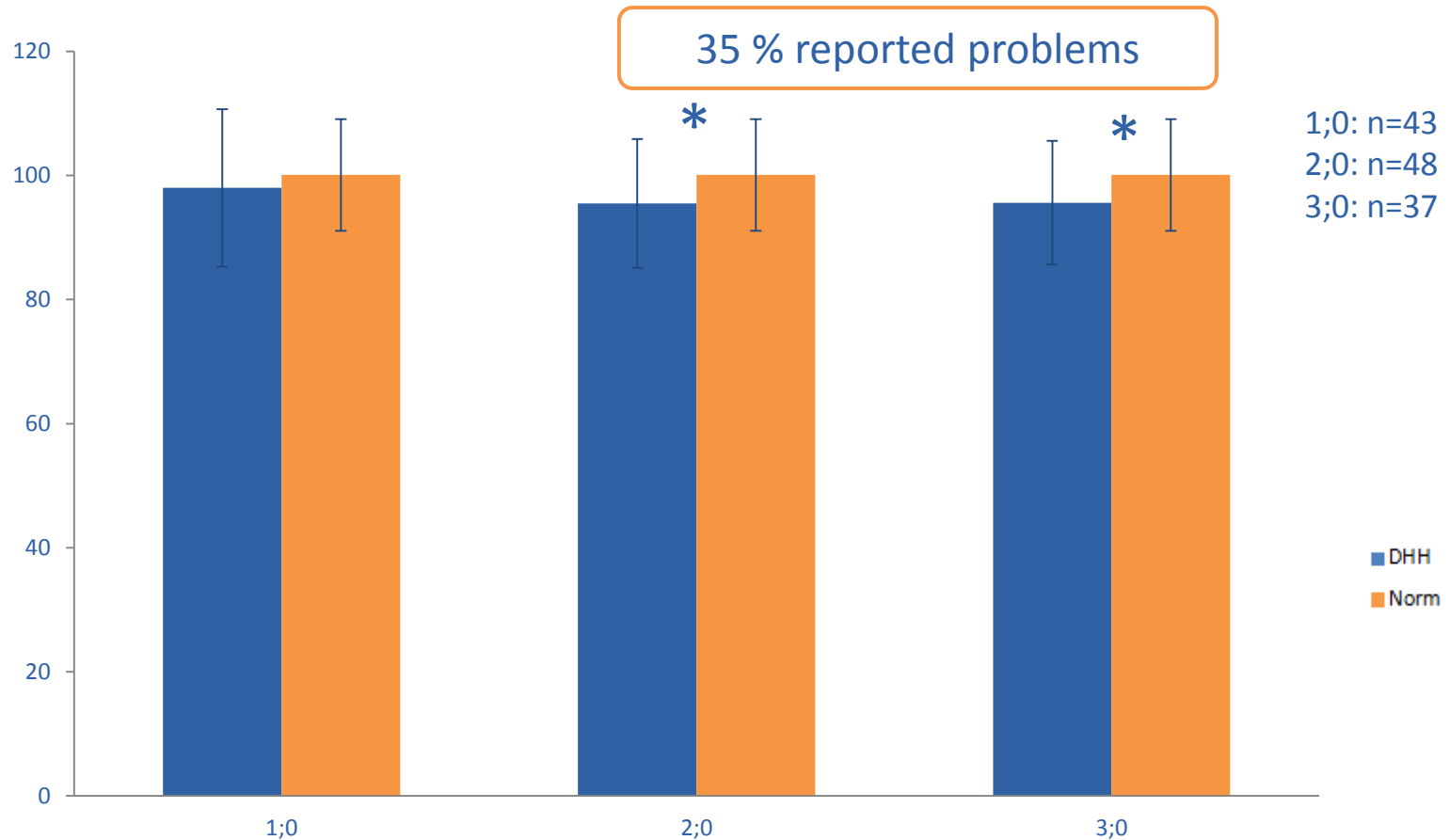
-  Receptive language
-  Expressive language (words)
-  Expressive language
-  Receptive language (words)

EXAMPLE – LANGUAGE DEVELOPMENT



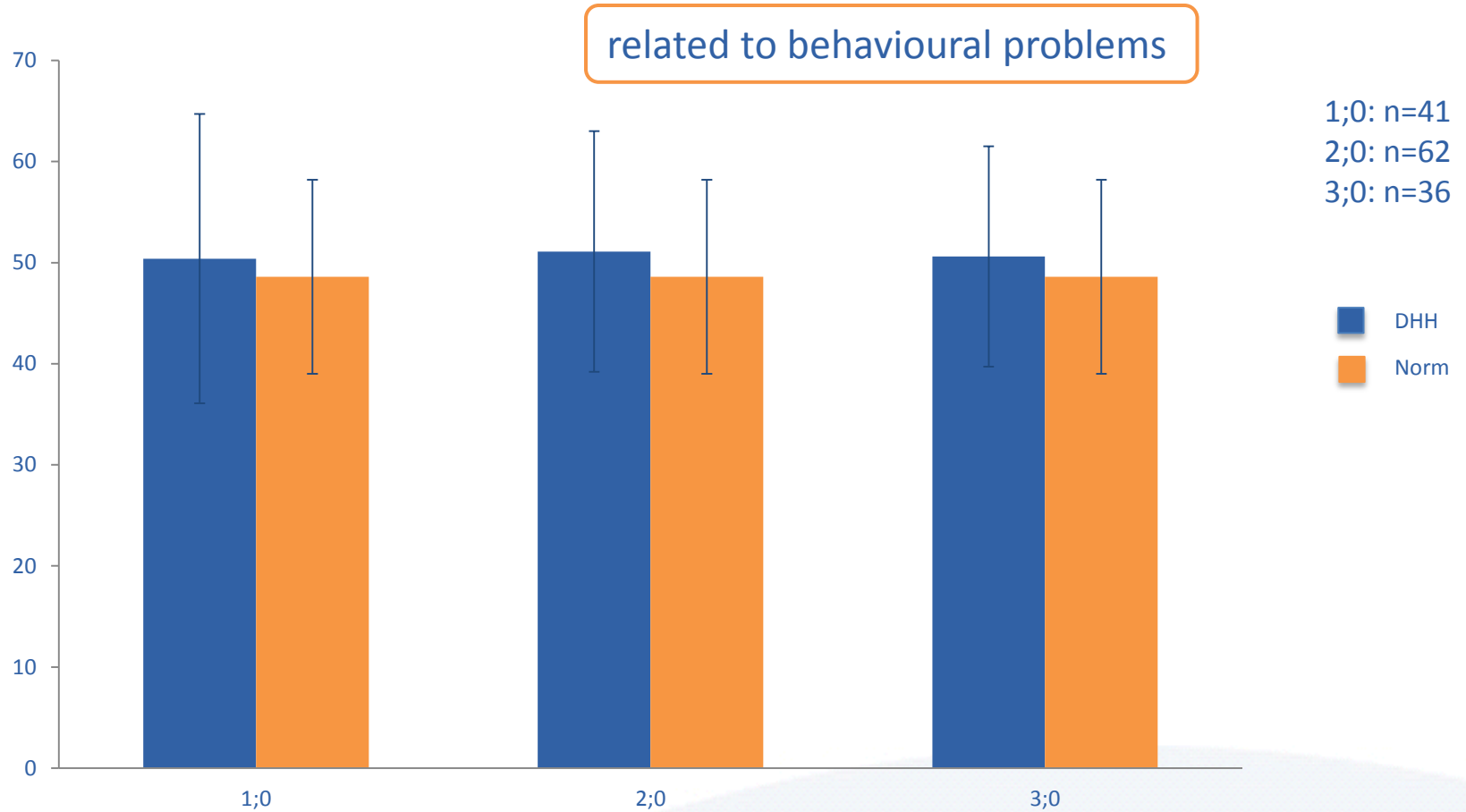
FIRST FINDINGS

FAMILY FUNCTIONING (VGFO)



2;0 en 3;0: sign. differences on total family functioning
+ subscales: basic care & social contacts

PARENTING STRESS (OBVL)



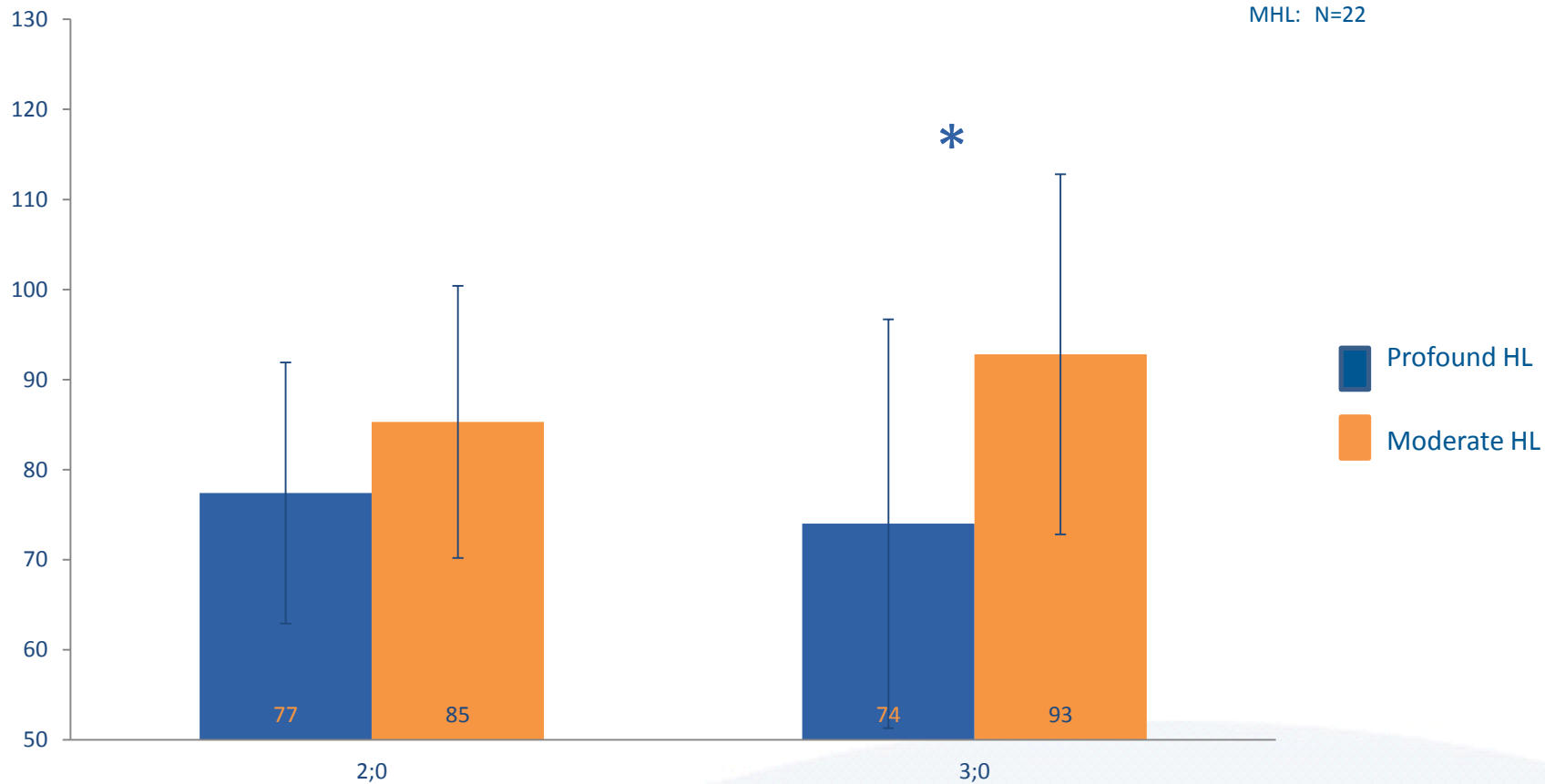
no significant differences

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RECEPTIVE LANGUAGE

2;0
PHL: N=20
MHL: N=32

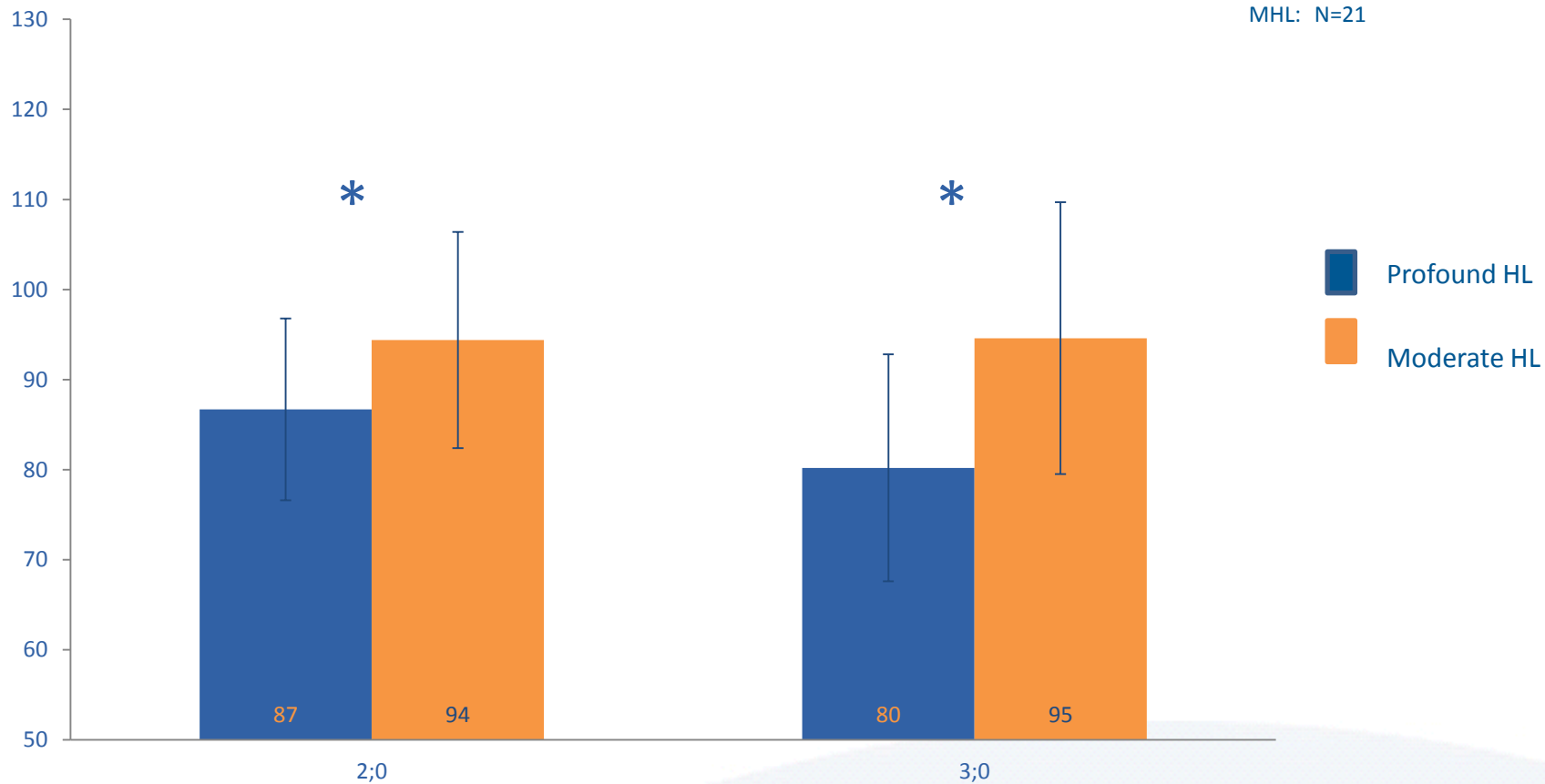
3;0
PHL: N=22
MHL: N=22



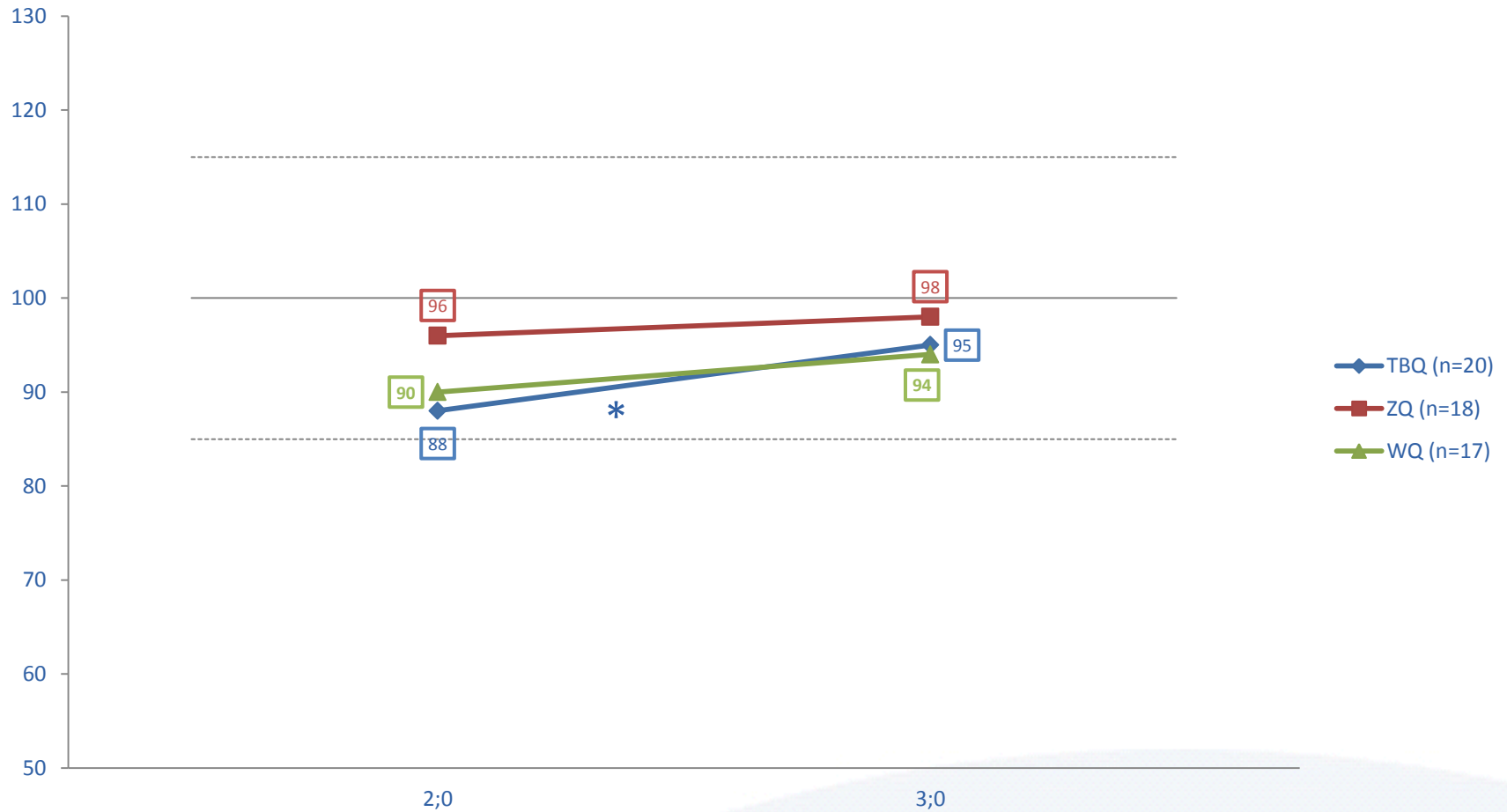
EXPRESSIVE LANGUAGE

2;0
PHL: N=18
MHL: N=31

3;0
PHL: N=21
MHL: N=21



LANGUAGE DEVELOPMENT MHL



THANKS FOR YOUR ATTENTION!

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