



DYSLEXIE, DE HERSENEN & VROEGE SIGNALERING VAN LEESPROBLEMEN





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Dyslexie

5-10 %

Vlek
Spits
Rund
Liefst

Valk
Groot
Stug



Ernstig en hardnekkig lees- en/of spellingprobleem

... dat niet verklaard kan worden door gebrekkig onderwijs, of bredere omgevings-, neurologische, sensorische en/of gedragsproblematiek.

Brede Vakinhoudelijke Richtlijn Dyslexie, September 2021

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Dyslexie font

Mythes over dyslexie

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Auditiële cortex

Visuele cortex

5

Prehistorisch brein

Auditiële cortex

6

Eerste schrift
~ 5000 jaar geleden



Tablet with proto-cuneiform pictographic characters (end of 4th millennium BC)

Alfabet
~ 3500 jaar geleden

"Aleph"



Phoenician



Greek



Roman



"Gimel"



Phoenician



Greek



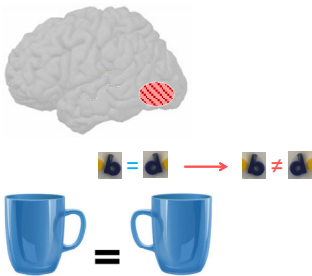
Roman



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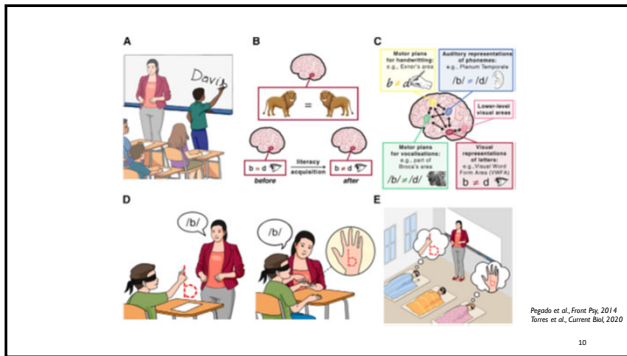


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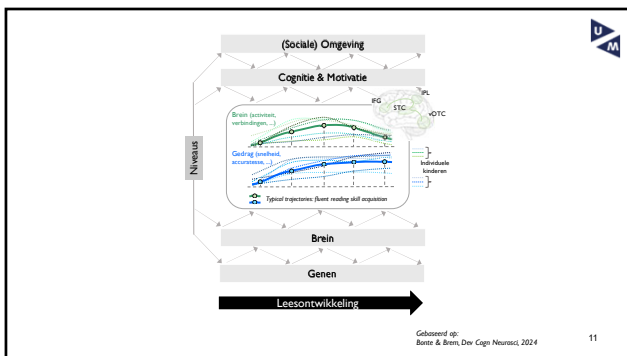


The diagram shows a brain with a red hatched area. Below it, a sequence of images illustrates a logical process: a blue cup, followed by an equals sign, then a blue cup with a red hatched area, followed by a red arrow, then a blue cup with a red hatched area and a red plus sign, followed by a blue cup with a red hatched area.

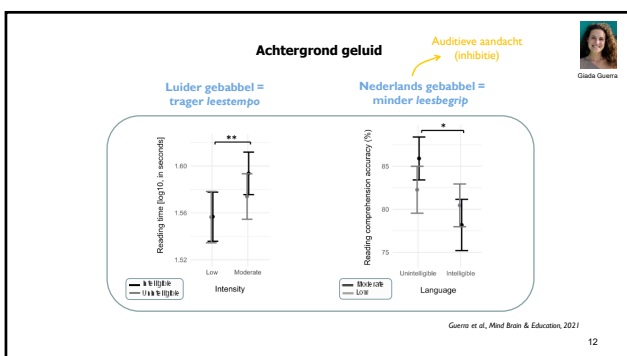
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10



11



12

8-9 jaar



Vroege signalering

5-6 jaar

p x

n x

a ✓

...

Statische tests

→



/a/

Dynamische tests

13

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Vroege voorspellers

PREVENTING
READING
FAILURE
Predictive, Diagnostic,
Interventional
1972



- Familie risico dyslexie
 - Leidt in 40-50% tot dyslexie (Snowling & Hulstijn, 2014)
 - Over-identificatie
- Statische tests
 - fonemisch bewustzijn, benoemselheid, letterkennis
 - Individueel of risico profiel (Verwilt et al., 2020)
 - Over-identificatie, bias door omgevingsfactoren
- Dynamic assessment
 - Leertaken van vroege, technische leesvaardigheden (Gallert & Elbro, 2017, 2018)
 - Minder over-identificatie, maar nog niet precies genoeg (toetscores)

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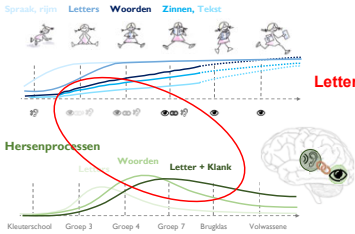
Leesvaardigheden

Spraak, rijm

Letters

Woorden

Zinnen, Tekst



Hersenprocessen

Letter

Woorden

Letter + Klank

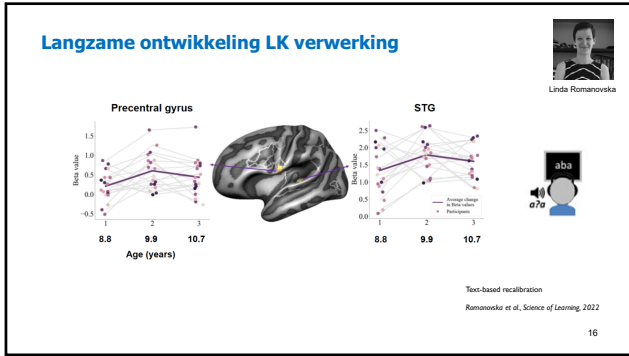


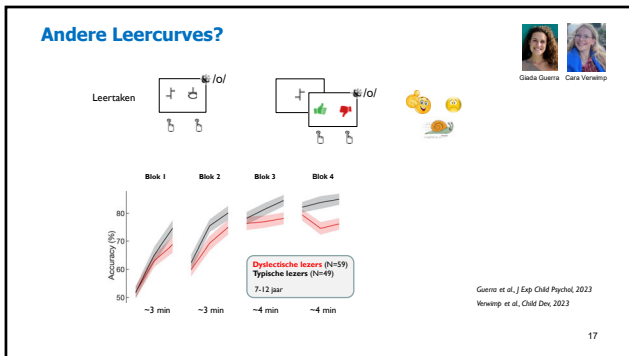
Gebaseerd op:
Baker & Brown, Dev Cogn Neurosci, 2024

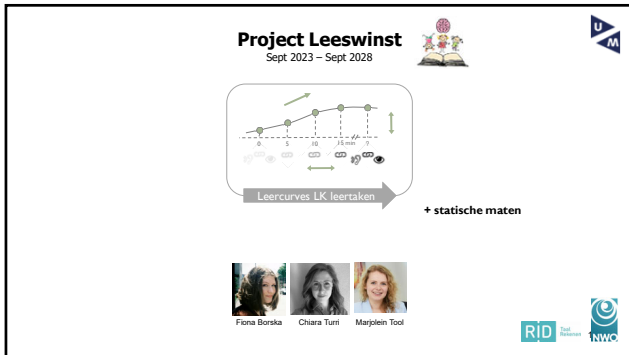
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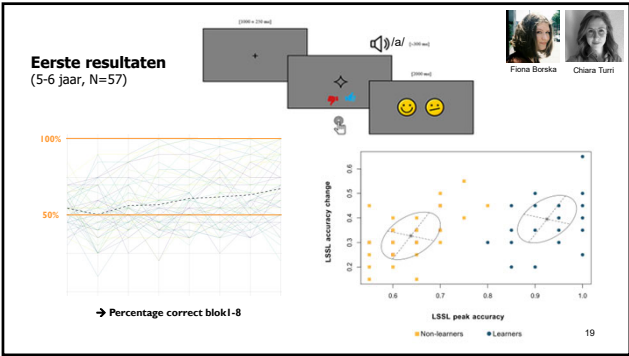
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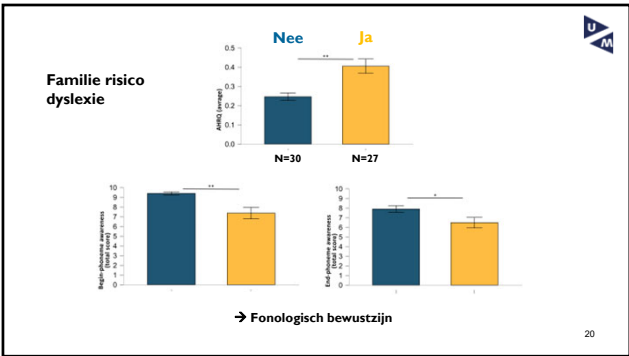




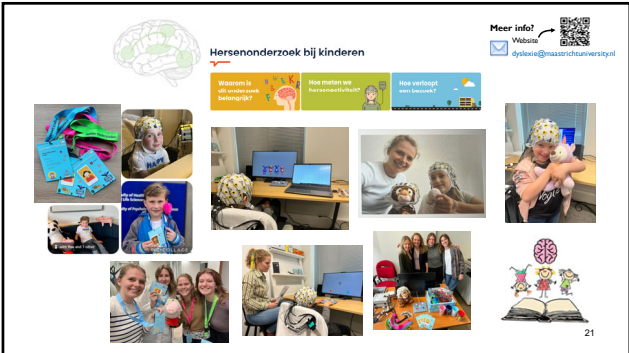




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Project Leeskans
Oct 2024 – Sept 2029

Motivatie, zelfbeeld



Project Leeswinst
Sept 2023 – Sept 2028



Leercurves LK leertaken

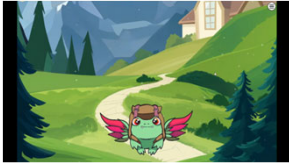
Vroege voorspellers?

Leesontwikkeling 5-8 jaar



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Dynamische leertaak





Leandra Zinke



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Brain and Language group



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More info?

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