

From invention to innovation

APPLICATIONS

- Specific language impairment treatment
- Speech therapy

DEVELOPMENT PHASE

Planned development : Optimization of graphic design and web responsive application development

PUBLICATIONS

"Review of neural rehabilitation programs for dyslexia: how can an allophonic system be changed into a phonemic one?" Willy Serniclaes, Gregory Collet, Liliane Sprenger-Charolles in *Frontiers in psychology*, 24 February 2015

"The Categorical Perception Deficit in Dyslexia: A Meta-Analysis" Mark W. Noordenbosa & Willy Serniclaes in *Scientific Studies of Reading*, 06 Jul 2015

"Changes in voicing perception by adult French speakers after identification training" Gregory Collet, Cécile Colin, Willy Serniclaes, and Ingrid Hoonhorst, Emily Markessis, Paul Deltenre and Jacqueline Leybaert, in *Applied Psycholinguistics* 10 February 2013

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RAPDYS (ALLOPHONIC REMEDIATION OF DYSLEXIA)

RapDys is a phonological training program for dyslexic children, which has been clinically trialed

**Dyslexia - Specific language impairment (SLI) -
Phonology - Voicing continuum**

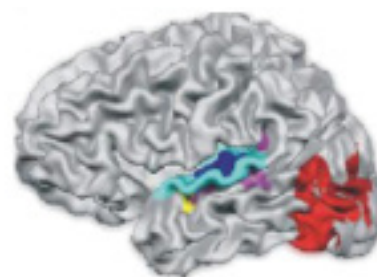
PRESENTATION

Dyslexia is a specific learning disability that affects about 7% of the population and in particular 200 000 children between ages 6 and 11 in France.

Children with specific language impairment (SLI) have difficulties in several aspects of language, including phonology, morphology and syntax, despite normal intelligence, adequate hearing, normal learning opportunities and the absence of any neurological or psychiatric trouble.

RapDys are gamelike exercises based on carefully chosen and tested voicing continua. They can be done under the supervision of a speech and language therapist and further on at home.

After only nine training sessions of 20 minutes each, children suffering from SLI have increased up to 40% their performance in the identification, discrimination and categorical perception. Children have been tested again one month after the last training, and performance levels have shown to remain stable.



Letter-sound association area (in blue) and visual word form area (VWFA) (in red) (Copyright © Serniclaes et al., Elsevier Inc)

COMPETITIVE ADVANTAGES

- Technology proved during clinical trial
- Available on any device (PC, smartphone, tablet)
- Quick exercises (couple of minutes)
- Gamelike