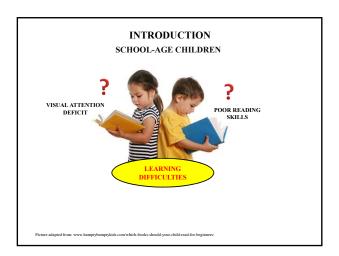




EGULDĪJUMS TAVĀ NĀKOTN

## READING SKILLS AND VISUAL ATTENTION IN SCHOOL-AGE CHILDREN

J. JAKOVĻEVA, G. KRŪMIŅA 12.04.2013.



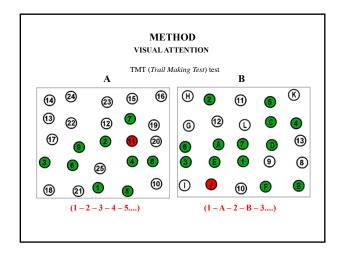
#### AIM AND OBJECTIVES

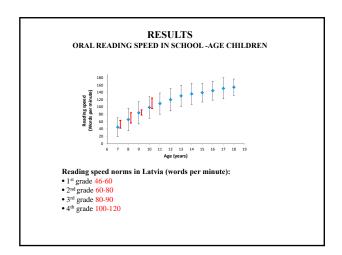
- $\, \succeq \,$  to assess development of visual attention in connection with reading skills development in school-age children
  - $\checkmark \text{to carry out reading skills and visual attention assessment in school-age children} \\$
  - $\checkmark$  to develop normative data of visual attention (TMT *Trail Making Test*) test by age
  - $\checkmark$  to evaluate link between reading skills and visual attention
  - $\checkmark$  to compare both tests results between children in standard schools with children in schools for learning difficulties

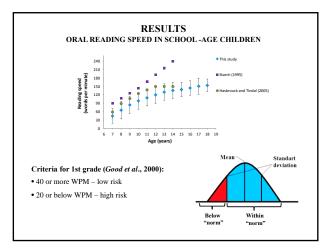
### **PARTICIPANTS**

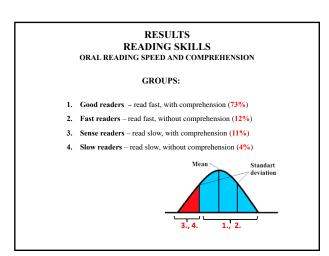
- ✓ 2437 children (1177 boys/1260 girls)
- ✓ 15 schools (13 standard and 2 specialized)
- ✓ grades 1 through 12
- ✓ age from 7-18 years
- ✓ binocular visual acuity 0.8-1.0
- August for www.12Mccomplexe.9778944\_sthicts-as-closel
- project "Exploring vision and visual perception disturbances of school-age children and developing diagnostics methods" (supported by ERAF No.2011/0004/2DP/2.1.1.1.0/10/APIA/VIAA/027)

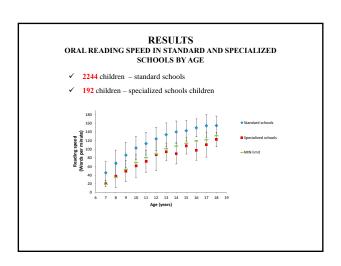
# METHOD READING SKILLS Oral reading speed words read per minute analogical texts – 7 word count – 130 average word length – 5 Reading comprehension questions – 2

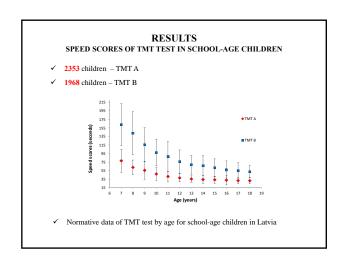


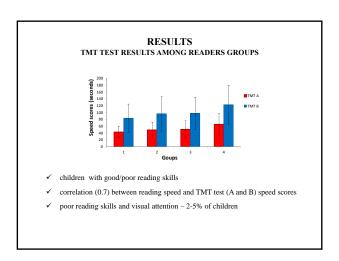


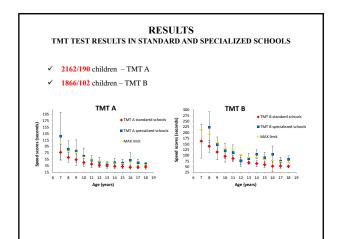












### CONCLUSIONS

- 1. Results shows that reading skills and visual attention in school-age children develops by age 14-16 years (p<0.05)
- $2. \quad 4\% \ of \ children \ with \ slow \ reading \ speed \ shows \ poor \ comprehension$
- 3. Slow readers perform TMT (A and B) test longer then good readers (p<0.05) poor reading skills correlates with decreased visual attention
- 4. This research provides normative data of digital version of TMT test by age for school-age children in Latvia
- 5. 2-5% of tested population may have learning difficulties affected by slow reading and visual attention deficit
- 6. Comparing to standard schools, children in specialized schools shows poorer performance in both reading and visual attention tests.

### Thanks for attention!

Supported by ERAF No.2011/0004/2DP/2.1.1.1.0/10/APIA/VIAA/027