

RESTORATIVE PATIENT STORIES

2024



AN ADHD STORY

«MRS TEACHER, CAN I GO TO THE BATHROOM?» GIACOMO'S STRUGGLE TO STAY FOCUSED AT 7 Y.O.

The beginnings

Giacomo is a 7 years old boy attending primary school with an ADHD diagnosis. His parents say he is unfocused and disorganized. He struggles to maintain attention and to socialize with his peers. At school, even when he manages to remain seated for more than 5 minutes, he continually asks to have some water, go to the bathroom, or sharpen his pencils.

Cognitive profile and diagnostic assessment

Giacomo's WISC-IV* test results show normal general abilities, but Working Memory and Processing Speed are below the norm. His Campanelle** and BIA-R** results are below the fifth percentile in processing speed and in several indicators for attention functions.

Treatment plan

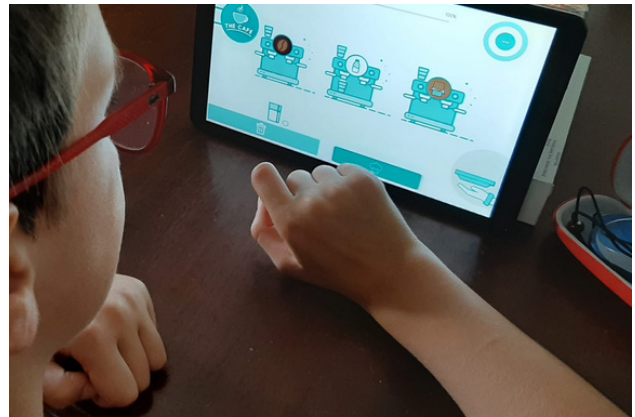
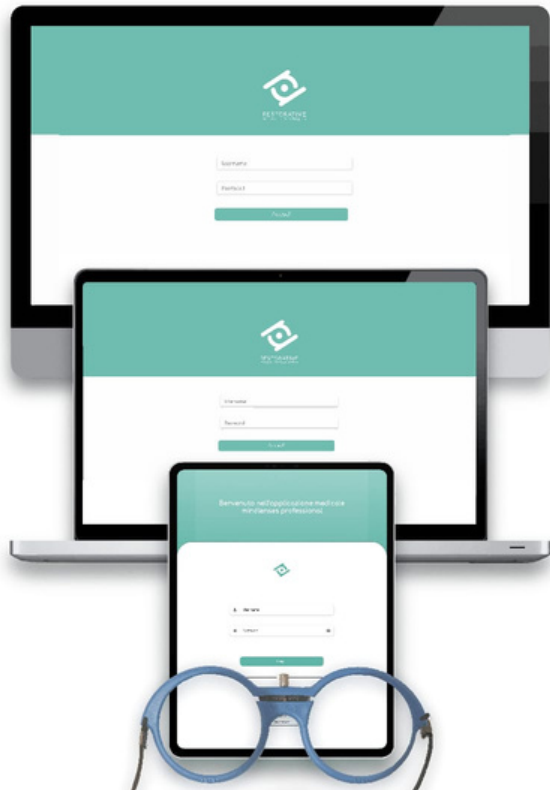
Giacomo's medical staff decides to introduce a cycle of MindLenses Professional - a new medical device and digital therapy for ADHD - in the child's treatment plan.

MindLenses in a nutshell

MindLenses consists of a noninvasive neuromodulation protocol (prismatic adaptation), inducing a temporary boost of the natural brain's plasticity, and of a series of exercises (serious games) targeting impaired cognitive function. MindLenses is administered on a tablet, under supervision of Giacomo's neuropsychologist.

*Wechsler Intelligence Scale for Children: a test of intellectual ability for children ages 6 to 16 years.

**Italian language-specific ADHD test batteries



THE COGNITIVE TREATMENT OUTCOMES «WE MANAGED TO DO HOMEWORKS FOR LONGER»

Cognitive evaluation with MindLenses

Before treatment, Giacomo does MindLenses' standard test battery. MindLenses' tests do not have diagnostic purposes, but they are used to set to establish a baseline and quantitatively assess treatment results.

Treatment

MindLenses treatment consists of 10 daily sessions of about 40 min. each. Sessions start with the neuromodulation protocol followed by serious games targeting specific attention functions. Giacomo's response to the therapy, as well as his compliance and motivation, is satisfactory.

Results

After treatment, Giacomo's scores show significant improvements compared to before treatment.

From a qualitative point of view, Giacomo's parents report general improvement in his ability to stay focused, with direct impact on daily activities such as remaining seated to do his homework for a longer period of time.

This patient story comes from the **Child Neuropsychiatry Unit of Policlinico Umberto I** Hospital in Rome, Italy. MindLenses Professional is designed and produce by **Restorative Neurotechnologies Srl.**



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