

Success in Learning by Improving Automation: Warnke-Method

Efficiency of a newly developed therapy against dyslexia scientifically proved

In spite of a normal, sometimes high intelligence 10 - 15% of the children going to school have serious problems in learning. In most cases the reason for this is a disturbance called dyslexia. According to experience it doesn't make much sense to practise more reading and writing with these children - it simply won't help.

So it is better to fight the cause - automate low-level functions!

Children suffering from dyslexia can improve their skills quickly and almost playful: This was proved by a study carried out by Prof. Dr. Tewes from the Medical University of Hanover. It has been clearly shown that there is a relation between problems in learning and basic functions concerning time und frequency resolution in hearing, seeing and motor skills.



Fabian trains seven important functions of his central processing system.

Special training improves the skills of spelling

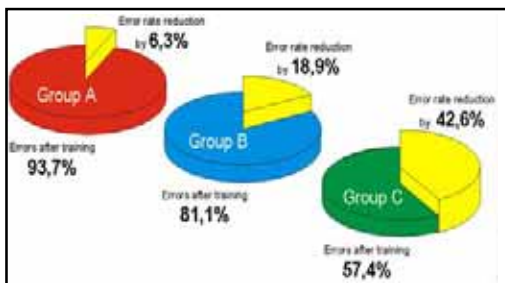
A four-month-period of training basic functions led to significantly improved skills in reading and writing. The principal item of the Warnke-method is a small device called „Brain-Boy Universal“. Like playing a game children can improve seven basic functions concerning time und frequency resolution in hearing, seeing and motor skills. This way dyslexia is being reduced „from the bottom“.

Better coordination of the hemispheres with the help of lateral-training

The lateral-training is based on the facts that the connection between the two hemispheres (corpus callosum) is often impaired in function in case of dyslexia. So it can not fulfil its tasks to coordinate and synchronize the functions of the hemispheres properly. During the lateral-training the child hears a voice (reading a story) periodically changing from one ear to the other. While the child hears the voice going to and fro it is reading the same story simultaneously while hearing his own voice constantly on the opposite ear. Thus it can compare his own voice with the one from the CD and can automate weak patterns of language at the same time.



Fred Warnke with Jana and her mother doing „Brain hemisphere's need to work together closely“.



Results of the study in Thuringia (supervised by Prof. Dr. Tewes)

Three groups (consisting of 14 dyslexic children each) took part.

Group A was given lessons specially designed in accordance with the latest pedagogic findings for dyslexics which reduced their number of mistakes made in writing by **6,3 %**

Group B did training-sessions with the Brain-Boy Universal only
Reduction of mistakes afterwards: **18,9 %**

Group C did training-sessions with Brain Boy Universal and lateral-training. This combination led to a reduction of mistakes by **42,6 %**

Empirical proof - preventing dyslexia

This is the first time that it has been proved that this way of training (Warnke-method) can not only improve the central processing of perceptions but causes a significant transfer to reading and writing skills, too. Fred Warnke developed this method. Up to now it has been used in thousands of families and by a large number of therapists and teachers. The Thuringia-study mentioned above can help this novel method to establish not only in schools but in general prevention against dyslexia.

Courses for therapists, practitioners, teachers and parents

The MediTECH Electronic GmbH and its distributors arrange special courses and informative events. Please contact us for a wide range of advice concerning dyslexia.

- U. Tewes et al.: „Automatisierungsstörungen als Ursache von Lernproblemen“ Forum Logopädie, 1/2003 (Januar)
- F. Warnke: „Was Hänschen nicht hört ...“ VAK-Verlag Freiburg, 5. vollständig überarbeitete Auflage 2001, ISBN 3-924077-56-8
- F. Warnke: „Der Takt des Gehirns“ Verlag modernes Lernen, Dortmund, 2. überarbeitete Auflage 1999, ISBN 3-86145-188-3

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Brain-Boy® Universal – A Multifunctional Device

A well-working central processing consists of many functions in different parts of the brain such as:

- ⇒ Order Threshold (visual & auditory)
- ⇒ Spatial Hearing / Directional hearing
- ⇒ Pitch Discrimination
- ⇒ Auditory Motor Coordination
- ⇒ Choice Reaction Time
- ⇒ Frequency Pattern Test
- ⇒ Duration Pattern Test

With its seven different game programs, the Brain-Boy Universal offers an easy, effective and scientifically proven way to enhance the functions of your central hearing.



- ⇒ **Order Threshold (visual and/or auditory):** Two tones or light-flashes are produced. The person practising is asked to identify on which side he/she heard/saw the first.
- ⇒ **Spatial Hearing:** The direction of a click that seems to come from a point near the middle of the head must be identified. This is for training spatial hearing.
- ⇒ **Pitch Discrimination:** Two sounds of different pitch are produced. The person practising must recognize their difference and order.

- ⇒ **Auditory Motor Coordination:** In this programme, the user must press buttons according to clicks he hears in his headphones. If he/she does this in synchrony with the device, the speed will increase.
- ⇒ **Choice-Reaction Time:** This is a combination of pitch discrimination and reaction. Here the user must identify the difference of the two tones given, know where they came from and name them as quickly as possible.
- ⇒ **Frequency Pattern Test:** This programme produces three tones one of which is different and must be recognized. In case of success, the duration of the tones and the interval in between are shortened.
- ⇒ **Duration Pattern Test:** This programme produces three tones one of which is longer and must be recognized. In case of success, the duration of the tones is shortened.

Each program can be started at different levels to make it suitable either for beginners or experts.

A simple menu-system guides you through all functions, you only have to use two of the three buttons of the BBU for navigation. When developing the BBU, we attached great importance to an easy handling and that is why we designed two manuals: a special one for children and one for adults.

There is another special feature in the BBU: In case of a correct answer the BBU will praise you per voice output and will increase the difficulty. Thus, the user gets an immediate and motivating feedback. If the BBU is used by older children or adults the voice output can be switched off.

Delivery Scope:

- ⇒ Brain-Boy® Universal with battery
- ⇒ Headphones MT-HS-16-II (3,5 mm jack-plug)
- ⇒ two Manuals

Order Form

Brain-Boy® Universal of the price of 180,00 Euro
(plus shipping / handling)

Please send order to:

MedITECH Electronic GmbH
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D-30900 Wedemark Fax: +49-(0)5130 – 9 77 78-22
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