

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 and frequency resolution in hearing, seeing and motor skills.



Julia 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“.



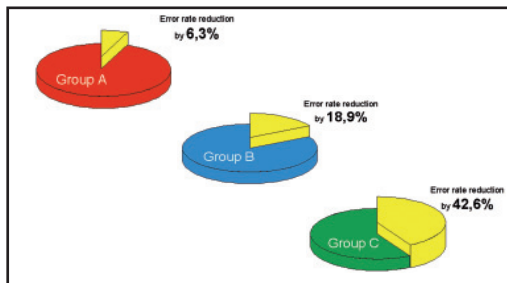
Training of central functions of hearing, seeing and of movement

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 mis-takes 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.

1) U. Tewes et al.: „Automatisierungsstörungen als Ursache von Lernproblemen“ Forum Logopädie, 1/2003 (Januar)

2) 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 Vandhoeck & Ruprecht Göttingen, 3. überarbeitete Auflage 2006, ISBN 3-525-46238-7

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Brain-Boy® Universal

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

- Visual Order Threshold
- Auditory Order Threshold
- Spatial Hearing / Directional hearing
- Pitch Discrimination
- Auditory Motor Coordination
- Choice Reaction Time
- Frequency Pattern Test
- Duration Pattern Test

With its eight different games, the *Brain-Boy®* Universal offers an easy, effective and scientifically proven way to enhance brain functions essential for language processing.

- **Order Threshold (visual and/or auditory):** Two clicks or light-flashes are produced. You then are asked to identify on which side the first signal occurred.
- **Spatial Hearing:** The direction of a click which is perceived 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. You must define if the lower pitch came first or second.
- **Auditory Motor Coordination:** You perceive a constant flow of left-right clicks and are asked to press the left and right button correspondingly in synchrony. If you manage to do so within a given tolerance, the speed will increase.
- **Choice-Reaction Time:** This is a combination of pitch discrimination and reaction. First you are asked to identify the side of the lower pitch (left or right and then to press the corresponding button as quickly as possible.
- **Frequency Pattern Test:** Here you perceive three tones one of which is different in pitch. You must define which tone was different (1, 2 or 3). In case of success, the tone duration and the interval in between are shortened to make it harder.
- **Duration Pattern Test:** This programme produces three tones one of which is longer than the others. You must define which tone was different (1, 2 or 3). In case of success, the tones and gaps inbetween are shortened.



Each program offers 2-4 difficulty levels to make it suitable either for beginners or experts. An easy-to-use menu structure guides you through all functions the Brain-Boy® offers. With ease the Brain-Boy® enhances important brain functions and provides the basis for successful language processing and improved concentration. It comes with two manuals: a special one for children and one for adults.

Special functionalities:

- Verbal praises on correct answers (can be switched off)
- Data logging function (scores and number of sessions are recorded per game for home training monitoring)
- Countdown prior to each game start (3 seconds)
- Modern membrane keypad with integrated buttons/LEDs
- Now usable with rechargeable batteries



Included in the delivery:

- Brain-Boy® Universal with 9-V battery
- Headphones MT-HS-16-II (3,5 mm jack-plug)
- Manual

Order Form

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

Please send order to:

MediTECH Electronic GmbH
Langer Acker 7 Tel.: 05130 – 9 77 78-0
30900 Wedemark Fax: 05130 – 9 77 78-22
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