

Benefits

- Designed to improve visual search performance, navigation and object finding skills.
- Increases eye movement efficiency allowing patients to make the most of their remaining vision.
- Performed in the comfort of the patient's home using their own computer.
- Intuitive and user-friendly program with 12 levels of increasing difficulty, adapts to the responses of the patient.
- Designed to be relatively quick - can be completed in 2-4 weeks.

Patient Requirements

Physical

- Able to sit upright and concentrate without distraction for training sessions of approximately 15 to 20 minutes, 2 to 6 times a day.
- Able to operate comfortably the left and right mouse buttons or the left and right arrow keys on a computer keyboard.
- Able to demonstrate that you can see letters shown on the computer monitor by passing the NeuroEyeCoach simple online font-size test.
- Able to understand and follow written or audio instructions.
- Although there are no age limits, NeuroEyeCoach is not recommended for children due to the requirement to be able to concentrate for training sessions lasting 15-20 minutes, 2 to 6 times a day.

Medical

There are certain conditions in which NeuroEyeCoach may not be suitable or which may interfere with its effectiveness:

- Patients with a history of seizure disorders, especially those who are photosensitive, must NOT undergo NeuroEyeCoach
- Those with significant cognitive deficits
- We recommend that patients suffering from acute inflammation of the eyes or central nervous system delay therapy until the acute phase is over

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Next Steps

Find out if NeuroEyeCoach™ may be right for you



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Saccadic therapy for vision loss caused by stroke or brain injury



*Let's Create a
New Vision Together*

About NeuroEyeCoach™

NovaVision has developed the proprietary computer-based eye movement training program NeuroEyeCoach™ in conjunction with Professor Josef Zihl of the Max Planck Institute in Munich and Professor Arash Sahraie, Chair in Vision Science at the College of Life Sciences and Medicine, University of Aberdeen, Scotland.

NeuroEyeCoach™ is a systematic eye movement training program designed to help persons suffering from visual field deficits as a result of stroke or other neurologically-induced trauma. Visual field loss is very often accompanied by a decreased ability to explore the affected visual field with sufficiently large and precise eye movements. However, patients need to be able to make these eye movements so that they can scan the environment quickly and efficiently to compensate for the visual field deficit.

The therapy is a computer-based treatment approach based on over four decades of scientific research pioneered by Professor Josef Zihl, including 13 studies on a total of 551 patients.

NeuroEyeCoach™ distills all the findings from this clinical research into one comprehensive therapeutic product, which is aimed at improving a patient's ability to scan their environment more efficiently. The therapy can be easily operated within both clinic settings and the home environment.

About The Therapy

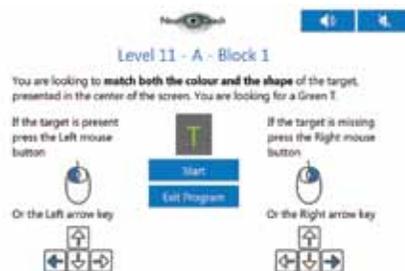
During a training session, the patient is asked to search a computer screen and decide if a particular item is present amongst various distractors. NeuroEyeCoach™ is adaptive and adjusts the task difficulty for the patient's visual deficit while encouraging eye movement efficiency.

The program has 12 levels of difficulty that can be completed in a minimum of 36 sessions, each taking around 15 – 20 minutes. The pre- and post-therapy evaluations within the program enable clinicians and patients to quantify the impact of the therapy.

The user-friendly application promotes high compliance since no intensive measures are required to use the program or to supervise its use. The program is accessible within both clinic settings and the home environment and is registered with the FDA.



An example of the display during a therapy session. The item in the orange circle is the target being sought at this level of the program.



An introduction explaining what must be done.

The Science Behind NeuroEyeCoach™

The PC-based treatment approach was originally developed by Prof. Zihl (1988, 1990) and has since been used with various modifications in 13 studies on a total of 551 patients with homonymous visual field loss.

The main outcome of eye-movement training is a significant improvement in visual search performance accompanied by more efficient oculomotor strategies and a reduction in visual disability, as assessed by standardized questionnaires and behavioral measures. These result in subjective reports of significant improvements in navigation skills and activities of daily living.

The efficacy of this treatment approach in improving visual exploration is superior to practice with reading (Schuett et al., 2012), non-specific visual training (Roth et al., 2009), standard occupational therapy (Mödden et al., 2012) or counseling with regards to coping strategies (Zihl, 2011). Importantly, time since brain injury (Zihl, 2011) and age of hemianopic patient (Schuett & Zihl, 2012) do not have significant effects on treatment.

