

Cognitive Rehabilitation Software

Control & Monitoring Software



Cognitive Rehabilitation Software from StrongArm Systems



Control & Monitoring

The basic intention of the cognitive rehabilitation programme is to provide an appropriate level of both stimulation and intellectual challenge in a highly motivating form for patients suffering from brain dysfunction. The rehabilitation suite consists of computer programs that are used to improve memory, concentration and logic. There are several important features common to all programs. The programs are enjoyable to use, robust, and easy to operate. All of the performance measures are available for monitoring, additionally all of the more recent programs are automatically adaptable to the patient's current performance over a wide range of abilities.



The control and monitoring software is part of the Cognitive Rehabilitation system developed to assist people recovering from the effects of serious head injury. Although the material was written for head injury survivors, it has been used successfully in other centres with stroke patients, geriatrics, children with and without learning disability and Alzheimer's sufferers. This component of the system is concerned with the automatic recording and control of the patient's rehabilitation programme. This aspect is crucial if the patient is to be allowed to work independently. The two aspects of the control system involve determining the choice of material and getting the results of past performances. In operation the performance information is typically used to guide the selection of rehabilitation material. The program/user, monitoring system allows the maintenance of an essentially unlimited number of users. Each user has his or her own choice of available programs and options (password protected). For each user a system log is maintained providing a quick check on overall usage.



Furthermore for each program the data monitoring software continuously monitors and records the values of specified performance values. At the completion of each program these results are written to disc, providing a permanent record of performance.



Attributes of the Monitor Program:-

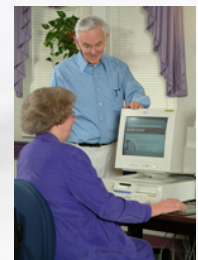
It has the ability to monitor and control all the Cognitive Rehabilitation Programs.

It is multi-user.

It is password controlled, giving security between users.

The user has full access, via one screen, to update program, and default variables

All monitor variables can be changed and updated according to requirements.



The results for each user are saved independently, as Microsoft Excel Comma Separated Values, suitable for spreadsheet analysis. The system is supplied with a highly specific data viewing program, (PatData) which can quickly and easily display the obtained results for any user.

Control & monitor variables



The data monitoring software continuously monitors and records the values of the specified performance values. At the completion of each program these results are written to hard disc, providing a permanent record of performance. These variables are saved in Microsoft Excel Comma Separated Values, suitable for continuing spreadsheet analysis. This component of the system is concerned with the automatic control of the patient's rehabilitation programme. This aspect is crucial if the patient is to be allowed to work independently. The two aspects of the control system involve determining the choice of material and getting the results of past performances. In operation the performance information is typically used to guide the selection of rehabilitation material.

More detailed information relating to the Control and Monitoring Software as well as the Cognitive Rehabilitation Software suite, can be viewed from our website:-

www.strongarm.org.uk

