COGNITIVE REHABILITATION THERAPY (CRT)



What is Cognitive Rehabilitation Therapy?

Cognitive Rehabilitation Therapy (CRT) is the process of learning cognitive skills that have been lost or altered as a result of damage to the brain.

Cognitive skills are the core skills your brain uses to think, read, learn, remember, reason and pay attention. Working together, they take incoming information and move it into the store of knowledge you use in everyday life. These skills are not to do with intelligence but a deficit in any of them can affect your ability to learn.

Each cognitive skill plays an important part in processing new information. In order to grasp, retain and use any new information effectively, all your cognitive skills need to be working properly.

What are Cognitive Skills?

Here is a brief description of each of the main cognitive skills and the difficulties you may have if that skill is weak.

SKILL	WHAT IT DOES	COMMON PROBLEMS IF THIS SKILL IS WEAK
ATTENTION -	Enables you to stay focused on a task for a sustained	Difficulty concentrating, often jumping from task to task, lots of unfinished projects.
SUSTAINED	period of time.	
ATTENTION –	Enables you to stay focused on a task and filter out	Easily distracted by noise, movement or other incoming information.
SELECTIVE	distractions.	
ATTENTION -	Enables you to switch your attention from one thing to	May become stressed or anxious in over-stimulating environments, difficulty multi-tasking,
ALTERNATING &	another and do two things at once.	difficulty carrying out more complex tasks.
DIVIDED		
MEMORY –	Enables you to recall information stored in the past.	Forgetting things you used to know, forgetting names, doing poorly in tests.
LONG TERM		
MEMORY –	Enables you to hold on to information whilst using it	Difficulty following multi-step instructions, forgetting what was just said in a conversation.
SHORT TERM AND	e.g. remembering instructions and carrying them out.	
WORKING		
LOGIC AND	Enables you to reason, form ideas and solve problems.	Frequently asking, "What do I do next?" or saying, "I don't understand." Struggling with
REASONING		maths and more complex problems, feeling stuck or overwhelmed.
AUDITORY	Enables you to analyse, identify, blend and separate	Struggling with learning to read, fluent reading or reading comprehension.
PROCESSING	sounds.	
VISUAL	Enables you to think in visual images/pictures.	Difficulty understanding or remembering what you've just read, following directions, reading
PROCESSING		maps, doing visual problems.
PROCESSING	Enables you to perform tasks quickly and accurately.	Most tasks are more difficult. It takes a long time to complete tasks for school or work,
SPEED		frequently feeling "left behind".

Version: 1	Author: Mary Dryden	Date of issue: March 2019	File Path: J:\FACTSHEETS\Cognitive Rehabilitation Therapy.docx
------------	---------------------	---------------------------	--



Development of Cognitive Skills

Cognitive skills start to develop as soon as a baby is born. As soon as they come into the world the baby begins to absorb and process information from their environment. They grow and develop rapidly in the first five years of life. As information is gathered and stored in their brains, children develop knowledge, understanding, skills and the ability to problem solve.

Loss of Cognitive skills

Following brain injury, cognitive problems are extremely common and can be more problematic in the longer term than physical problems. The areas of the brain that have been damaged can determine the sort of problems a person might have. It is also important to consider that our brains continue to develop well into adulthood; the true impact of a brain injury in childhood may not become apparent for several years. Typically, difficulties only emerge in teenage years when there is another big surge in brain development.



Aims of Cognitive Rehabilitation Therapy (CRT)

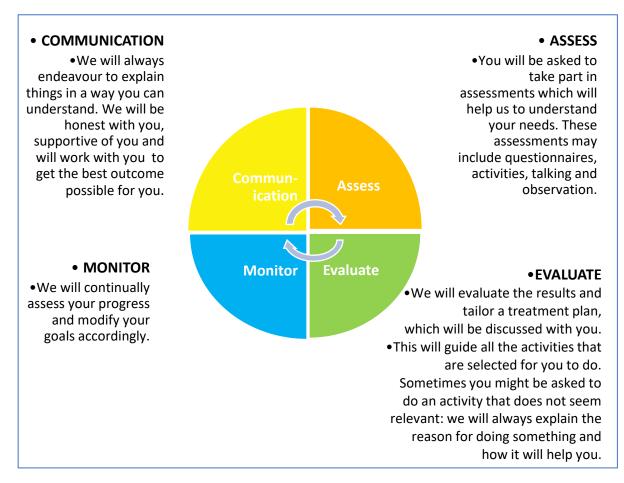
CRT aims to address a person's problems if any of the cognitive skills are weak or damaged. It consists of 4 main areas:

1. TUTORING:	2. PROCESS TRAINING:	3. STRATEGY TRAINING:	4. FUNCTIONAL ACTIVITIES TRAINING:
FOCUS:	FOCUS:	FOCUS: Compensation for the	FOCUS:
To develop insight	Restoration	problem rather than resolving it	Real life improvements
Aims	Aims	Aims	Aims
Through tutoring the	Process training aims to restore skills that have	If cognitive skills cannot be	The final goal of any cognitive rehabilitation
therapist can help the person	been lost or damaged through brain injury.	improved through process training,	program is improvement in everyday functioning.
with the brain injury gain	ALL skills are learned.	then strategies can be taught to	There is no point educating a person about their
awareness into the problems	When we first learn a new skill, it takes a lot of	help the person compensate for	problems, spending time practising underlying
they might be experiencing.	thought and effort to do it (e.g. learning to	the problem. External strategies	cognitive skills or teaching compensatory
This is done by explaining	brush your teeth, learning to play a new sport	are the most commonly used.	strategies if all this is not applied to everyday life.
how the brain works, which	or drive a car.)	These are like tools we can use to	Neither is a real-life task done in CRT for its own
areas might have been	With practice, we become better at it and are	assist us such as electronic devices,	sake. Rather the emphasis will be on doing a task
damaged and what this might	able to perform the skill or activity almost	diaries, notebooks, alarms or	in order to work on a specific cognitive skill.
mean in your everyday life.	without thinking i.e. automatically.	watches. Good use of strategies	For example, if you have difficulty remembering
Greater awareness of the	Following brain injury, some skills may have	can enable a problem to be	instructions and planning and organising, an
problem can lead to better	been lost and will need to be relearned. This	bypassed and can free up the brain	activity such as going to the shop with a list of
adjustment to it.	can take a lot of effort and hours of practice.	injured person to get on with their	things to buy could be used to address all these
	Fortunately, the brain is capable of creating	day. Strategies can take away the	things. The therapist will set goals for you
	new pathways in order to re-route information	worry of, for example, forgetting	depending on how easy or difficult you find the
	around damaged areas (a process known as	what you need to take to school	task.
	brain plasticity.)	that day.	The important thing to remember is that it is not
	In CRT we will target specific cognitive skills in		about teaching someone to do the shopping, but
	order to stimulate new connections in the		about teaching the cognitive skills you need to do
	brain. By practising a skill, brain cells will be		the shopping. In this way, cognitive rehabilitation
	continually firing (sending messages) together.		aims to improve function in everyday activities
	This will eventually cause connections to be		and everyday activities can be used to improve
	made, new pathways will be laid down in the		cognitive function.
	brain and skills will become easier to perform.		

MATRIX :

What you can expect from us in

Cognitive Rehabilitation Therapy?



What do we expect from you in Cognitive Rehabilitation Therapy?



References: Brannagan, A. and Malia, K. (2014) How to do Cognitive Rehabilitation. Gibson, K. (2018). What are cognitive skills. Available: https://www.learningrx.com. Last accessed 16.3.2019. The Society for Cognitive Rehabilitation, (2019) What is Cognitive Rehabilitation Therapy?

Version: 1 Author: Mary Dryden Date of issue: March 2019 File Path: J:\FACTSHEETS\Cognitive Rehabilitation Therapy.docx