
Contents

Acknowledgments ≈ v

User's Guide

Introduction ≈ 1

Program Description ≈ 2

How To Use the Questionnaires ≈ 2

How To Use the Modules ≈ 3

Repetition of Tasks ≈ 3

Time Involved ≈ 4

The Memory Module ≈ 4

Metacognition ≈ 4

Who Is the Program for? ≈ 5

Ways To Use the Program ≈ 5

Principles of Brainwave-R ≈ 6

Brain Injury

What Is the Brain? ≈ 11

What Is a Brain Injury? ≈ 13

Common Terms Associated with Brain Injury ≈ 14

Common Problems Following Brain Injury ≈ 17

Driving Following Brain Injury ≈ 19

Alcohol Following Brain Injury ≈ 19

Sex Following Brain Injury ≈ 19

Adjustment to Brain Injury ≈ 20

Attention

Daily Attentional Changes ≈ 21

How Important Is Attention Following Brain Injury? ≈ 22

Which Areas of the Brain Are Involved in Attention? ≈ 22
Assessment of Attention ≈ 23
Treatment and Rehabilitation of Attentional Deficits ≈ 24
Efficacy of Treatment and Rehabilitation for Attentional Deficits ≈ 24

Visual Processing

Disorders of Visual Processing ≈ 28
Common Terms Associated with Visual Processing ≈ 32
How Important Is Visual Processing Following Brain Injury? ≈ 33
Which Areas of the Brain Are Involved in Visual Processing? ≈ 34
Assessment of Visual Processing ≈ 35
Treatment and Rehabilitation of Visual Processing Deficits ≈ 37
Efficacy of Treatment and Rehabilitation for Visual Processing Deficits ≈ 39

Information Processing

How Important Is Information Processing Following Brain Injury? ≈ 41
Which Areas of the Brain Are Involved in Information Processing? ≈ 42
Assessment of Information Processing ≈ 43
Treatment and Rehabilitation of Information Processing Deficits ≈ 43
Efficacy of Treatment and Rehabilitation for Information Processing Deficits ≈ 47

Memory

How Important Is Memory Following Brain Injury? ≈ 50
Which Areas of the Brain Are Involved in Memory? ≈ 50
Assessment of Memory ≈ 51
Treatment and Rehabilitation of Memory Deficits ≈ 52
Efficacy of Treatment and Rehabilitation for Memory Deficits ≈ 52

Executive Functions

How Important Are Executive Functions Following Brain Injury? ≈ 55
Which Areas of the Brain Are Involved in Executive Functions? ≈ 56
Components of Executive Functions ≈ 57

Assessment of Executive Functions ≈ 60

Treatment and Rehabilitation of Executive Functions ≈ 61

References ≈ 63

Initial Client Questionnaire ≈ 71

Final Client Questionnaire ≈ 105

About the Authors ≈ 119

© copyrighted material by PRO-ED, Inc.