

Neuronic® Photobiomodulation Helmet – Information Sheet

Supporting Brain Function, Regulation, Attention & Cognitive Development

At Children's Therapy Services, we use a range of evidence-informed, functional neurology approaches to support children's neurological, sensory, emotional, and cognitive development. The Neuronic® Photobiomodulation Helmet is one of these tools, providing a non-invasive way to support brain function, regulation, and overall neurological performance.

What Is the Neuronic® Helmet?

The Neuronic® Helmet is a wearable device that delivers near-infrared light (photobiomodulation) to the brain. This light penetrates the scalp and is thought to support cellular energy production, blood flow, and overall brain function.

Photobiomodulation works by stimulating brain cells at a cellular level, helping improve how the brain processes information and regulates itself.

It is used to:

- Support attention, focus, and cognitive processing
- Enhance memory and executive functioning
- Support emotional regulation and stress response
- Promote better sleep and overall wellbeing
- Increase brain efficiency and neural activity

Why We Use the Neuronic® Helmet in Our Clinic

Children who experience challenges with attention, learning, or emotional regulation may have differences in how their brain processes and uses energy. The Neuronic® Helmet helps support brain function at a cellular level, creating a stronger foundation for learning, behaviour, and participation.

The Neuronic® Helmet may be used to support:

- Improved attention and focus
- Enhanced memory and processing speed
- Better emotional and behavioural regulation
- Improved engagement in learning and therapy
- Support for sleep and recovery

Understanding How the Neuronic® Helmet Supports Therapy

Cellular Energy & Brain Function

- Supports energy production within brain cells
- Enhances efficiency of neural processing
- Supports brain function during learning tasks

Cognitive Function & Processing

- Supports attention, working memory, and processing speed
- Enhances executive functioning skills
- Improves engagement in cognitive tasks

Regulation & Wellbeing

- Supports emotional regulation and stress responses
- May contribute to improved sleep patterns
- Helps create a calmer, more regulated state

How the Neuronic® Helmet Is Used

The Neuronic® Helmet is used during therapy sessions or as part of a structured program under professional guidance.

A typical session may include:

- Initial assessment and goal setting
- Short treatment sessions (typically 5–15 minutes)
- Use of pre-set protocols tailored to the individual
- Integration with therapy activities
- Monitoring response and adjusting as needed

What Are the Benefits?

- ✓ Improved attention and focus
- ✓ Enhanced cognitive processing and memory
- ✓ Better emotional regulation
- ✓ Increased engagement in therapy and learning
- ✓ Support for overall brain health and wellbeing

Who May Benefit?

The Neuronic® Helmet may support children who experience:

- Attention and concentration difficulties
- Learning or cognitive challenges
- Emotional regulation difficulties
- Sleep challenges
- Reduced engagement in learning or therapy

Is the Neuronic® Helmet Safe?

The Neuronic® Helmet is a non-invasive device and is generally well tolerated when used under professional guidance. It is always used as part of an individualised therapy plan to ensure safe and appropriate use.

Our Approach at Children's Therapy Services

The Neuronic® Helmet is integrated into a whole-child, individualised therapy plan which may include functional neurology, occupational therapy, cognitive training, and emotional regulation support. All interventions are aligned with meaningful, functional outcomes for each child.