

MedWave™



NEURO-100S · DUAL-WAVELENGTH RED LIGHT

Panel Guide

A practitioner's guide to the **Neuro-100S** — a full-body therapeutic panel combining **635nm + 810nm** light for pain, recovery and deep-tissue support.

● SAHPRA REGISTERED

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• INTRODUCTION

A full-body *therapeutic panel*

The Neuro-100S combines 635nm red light and 810nm near-infrared light to target both superficial and deep tissue layers. This guide covers treatment protocols, expected benefits, pricing and best practice for clinical and wellness settings.

635nm red light

Absorbed by superficial tissues — supporting skin repair, localised pain relief and surface inflammation.

810nm near-infrared

Penetrates deeply into muscles, joints and nerves for systemic pain relief and recovery.

Whole-body therapy

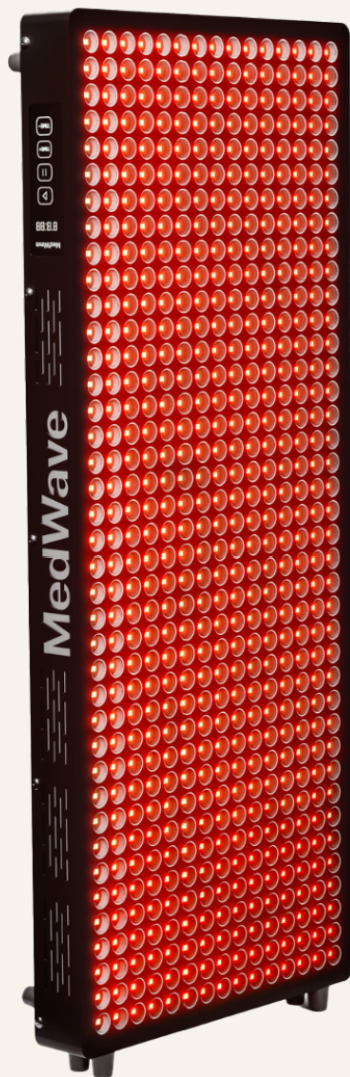
A large panel ideal for broad, systemic treatment of chronic or complex conditions.



Use at own risk. Always consult your doctor.

Treatment *Protocol*

Simple positioning and timing for consistent, comfortable sessions.



Distance

Position the panel 10-20 cm from the body for optimal light absorption — never closer than 10 cm.

Session duration

10 minutes on the front and 10 minutes on the back — a dual-sided approach for comprehensive, systemic treatment.

Frequency

2-3 sessions per week for general wellness or therapeutic use, adjusted to patient response and practitioner guidance.

Eye protection

The MedWave panels use wavelengths that do not harm the eyes, but the panels have a high irradiance that is not compatible with ocular use. Protect the eyes at all times, especially if directly exposed — wear protective eyewear.

Between sessions

Allow at least a day between sessions to support the body's natural recovery.

• DUAL-WAVELENGTH THERAPY

635nm + 810nm *Red Light*

Two wavelengths working together — 635nm for surface tissues and 810nm for deep, systemic penetration.

635nm Visible Red Light SURFACE TISSUES

Skin Repair

Stimulates collagen and elastin production, improving skin healing and repair.

Localized Pain Relief

Eases discomfort in tendons, ligaments and superficial tissue.

Anti-Inflammatory

Reduces surface inflammation, aiding recovery in minor wounds and irritations.

Fat Metabolism

Supports lipolysis — mobilising stored fat to be used as energy.

810nm Near-Infrared DEEP TISSUE

Deep Pain & Inflammation

Addresses systemic pain and reduces inflammation in deeper musculoskeletal tissues.

Mitochondrial Function

Increases ATP production, boosting cellular energy and resilience.

Improved Circulation

Stimulates nitric-oxide release, enhancing blood flow and oxygenation.

Nerve Health

Supports nerve repair and helps reduce discomfort in neuropathic conditions.

Use at own risk. Always consult your doctor.

• SUGGESTED CONDITIONS

Conditions the *Neuro-100S* supports

Its large design suits chronic or complex conditions requiring broad, whole-body therapy.

Chronic Pain & Inflammation

810nm · deep

Managing pain in joints, muscles and connective tissues.

Systemic Pain & Neuropathy

810nm · deep

Relief for chronic pain and nerve-related discomfort.

Tissue Recovery & Circulation

810nm · deep

Supports recovery from strains, sprains and surgery, and improves blood flow and oxygenation.

Surface-Level Healing

635nm · surface

For wounds, cuts, scarring and skin rejuvenation.

Localized Pain Relief

635nm · surface

Effective for smaller joint pain and tendon issues.

Anti-Inflammatory Skin

635nm · surface

May help calm inflammation in conditions such as eczema and psoriasis.

Pricing *Guidelines*

Recommended per-session pricing for full-body, systemic treatments with the Neuro-100S panel.

RECOMMENDED CHARGE

R600 – R750 / session

Bundling with services

Combine red light therapy with chiropractic, massage or acupuncture for added value.

Condition complexity

Chronic or systemic conditions may require multiple sessions per week, supporting a premium price.

Duration & frequency

Extended or more frequent sessions may justify higher rates.

Lipedema *support*

Lipedema is a chronic condition marked by abnormal fat accumulation in the legs and arms, causing swelling, pain and limited mobility. The Neuro-100S may support comfort as a non-invasive adjunct — not a treatment or cure.

Improved circulation

810nm near-infrared light may enhance blood flow and support lymphatic drainage.

Pain relief

By supporting reduced inflammation in deeper tissues, it may help ease chronic discomfort.

Fat metabolism

635nm red light supports lipolysis, mobilising stored fat for energy.

Endometriosis *support*

Endometriosis is a condition where tissue similar to the uterine lining grows outside the uterus, causing pain and inflammation. Red light therapy may help relieve discomfort as a complementary, non-invasive adjunct — not a treatment for the condition itself.

Pain & inflammation relief

810nm light penetrates deeply, which may help reduce inflammation and modulate pain.

Enhanced circulation

Improved blood flow may reduce tissue tension and support comfort.

Cellular health support

Emerging research suggests red light may support cellular health that indirectly benefits wellbeing.

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COMPLEMENTARY CARE

A non-invasive, *drug-free adjunct*

For complex conditions like lipedema and endometriosis, the Neuro-100S offers a non-invasive, drug-free way to help manage pain and support quality of life.

Integrate it alongside existing treatments to offer relief to patients with these challenging conditions.



Usage guidelines for *practitioners*

Simple best-practice steps to help patients get the most from each session.

Mandatory eye protection

Patients should wear protective eyewear during sessions.

Pre-session preparation

Encourage hydration before treatment to enhance the cellular response.

Post-session care

Advise patients to keep hydrating and rest, as light therapy can support metabolic recovery.

Mechanisms of *Action*

How 810nm near-infrared light works at the cellular level.

01 Mitochondrial activation

Activates cytochrome c oxidase, increasing ATP production and releasing nitric oxide for better oxygen use. Hamblin, 2017

02 Anti-inflammatory effects

Modulates inflammation by lowering pro-inflammatory markers such as TNF- α and IL-6. Borsa et al., 2013

03 Enhanced blood flow

Stimulates nitric-oxide release and vasodilation, increasing circulation and easing muscle tension. Chung et al., 2012

04 Nerve repair

Supports nerve health and regeneration, benefiting neuropathy and nerve-related pain. Anders et al., 2014

Applications of 810nm Light

Pain Management

Reduces chronic pain by targeting inflammation and improving tissue healing.

Youssef et al., 2016

Tissue Healing & Recovery

Accelerates healing — benefiting athletes and post-surgical recovery.

Leal-Junior et al., 2009

Reproductive Comfort

May support reproductive comfort as an adjunct by reducing inflammation and enhancing blood flow.

Cellular Recovery

May support the body's natural cellular repair processes by helping reduce chronic inflammation.

Gut Comfort

May help support gut comfort by modulating inflammation — as a complementary measure.

• ADVISORY

Contra-Indications & Advisory

Always consult a healthcare professional where any of the following apply.

ADVISORY

Protective eyewear is mandatory

The MedWave panels have a high irradiance that is not compatible with ocular use. Protect the eyes at all times, especially if directly exposed — wear protective eyewear, especially near the eyes. Closing your eyes is not enough when treating the face, and is not recommended.

CONTRAINDICATIONS

Cancer

Not for use over an active tumour. If a client has cancer or suspected cancer, cover the area with a white towel.

Pregnancy

Pregnant patients should consult their provider first, but pregnancy is not a contraindication. Place a white towel over the abdomen.

Photosensitivity

Some medications and conditions increase light sensitivity — check with a professional first.

Topical Products

Some skincare products can react to light — check ingredients and consult a provider if unsure.

Use at own risk. Always consult your doctor.

Contra-Indications & Advisory

CONTRAINDICATIONS (CONTINUED)

Thyroid Function

Photobiomodulation can improve thyroid function. Patients on thyroid medication should be monitored by their doctor after sessions, as their dose may need to change.

Tattoos

May react with some tattoo inks — monitor the response and consult a provider if concerned.

Haemorrhage BLEEDING

Not recommended where there is active bleeding or a tendency to bleed (e.g. haemophilia).

Epilepsy

Use with caution under medical supervision.

• CONCLUSION

A powerful addition to *your clinic*

Dual-wavelength 635nm + 810nm light for deep tissue penetration, systemic pain relief and recovery — a non-invasive, drug-free modality that integrates with your existing treatments.

DISCOVER THE MEDWAVE NEURO-100S

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MedWave™

More Life.

"We exist to see a world where everyone is healthy."

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