

MECHANISMS OF MICROCURRENT

PAiNMASTER® Micro Current Therapy



WHAT IS IT?

A non invasive electrotherapy modality. It has 2 electrodes which are placed over/around the painful area.

It is lightweight and can be transported easily.

WHY?

It helps to manage pain by reducing inflammation in the area to enhance the body's own healing response.

HOW DOES IT WORK?

Low amplitude electrical frequencies are pulsed out by the electrodes placed on the affected area help to stimulate the cell activity in the area to reduce inflammation and increase healing/remodelling of injured tissues.

WHAT IS IT FOR?

it can be used in all patients with pain! Especially those unable to take anti-inflammatories.

Patients with Arthritis, Fibromyalgia, Tendonitis, and Lower Back Pain have reported excellent results.

SWAN SERVICES



Students involved with the development
Emmanuel Osei - Bonsu (Keele) & Tatu Nampijja
(Winchester), PEA1 & P1 June 2024

RISKS OF MICROCURRENT



PAiNMASTER[®] Micro Current Therapy



SKIN IRRITATION

Those with more sensitive skin may find that the gel in the pads irritates the skin - although it is hypoallergenic.

Also some people's skin can react to electrical currents.



DISCOMFORT

Most people do not feel anything from this device (unlike TENS) but as it is electrical the current from the device can stimulate the nerves in some rarer cases. From this a sensation of tingling or prickling could theoretically be felt.



ELECTIC SHOCK/BURN

If the electrodes are not applied smoothly to the skin (e.g. due to hair) or the area is not clean/free from oils theoretically a shock/burn could occur although this is rare.

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BENEFITS OF MICROCURRENT

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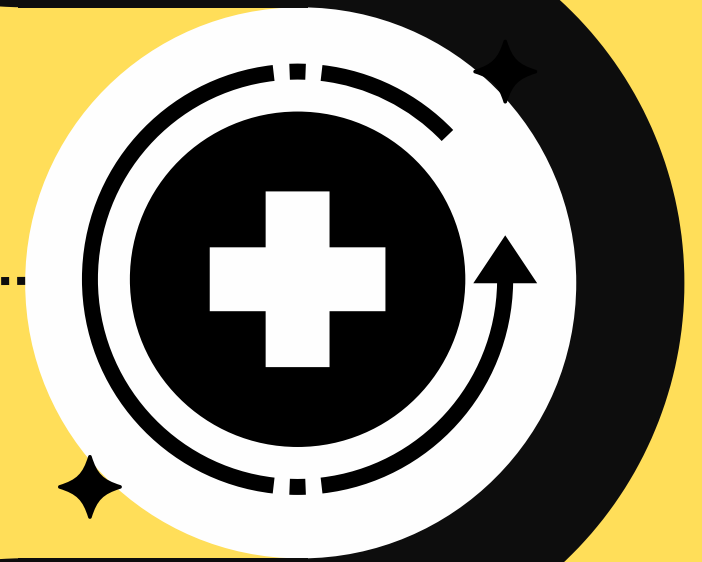
PAIN RELIEF

As it reduces inflammation it reduces pain in the area it is applied over as it reduces irritation of the nociceptors (nerves that carry pain signals) by inflammatory substances.



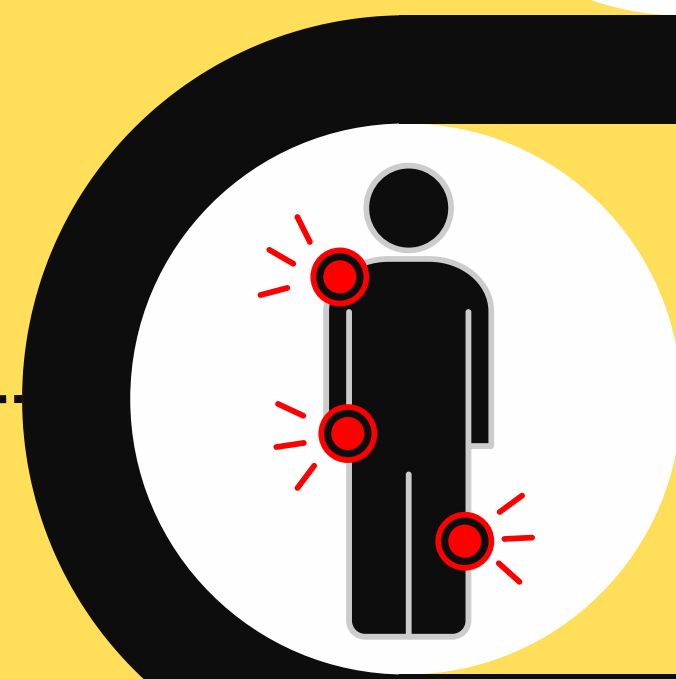
RECOVERY

Through increasing the activity in the cells it can help with tissue recovery as the cells can work more efficiently to recover from injury



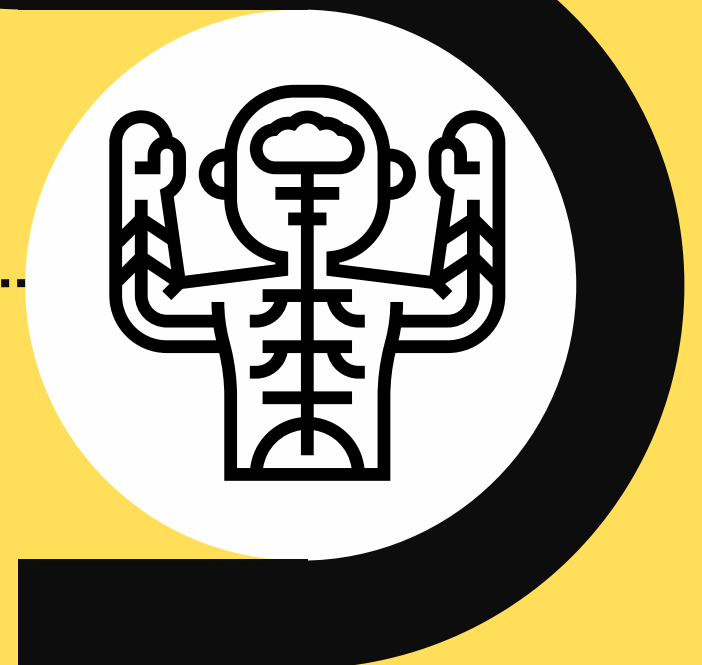
REDUCE INFLAMMATION

It enhances cell response to help alleviate swelling, allowing better muscle activation through reduced pain and the tissues in the body working more optimally.



AIDS NERVE HEALING

Due to the microcurrent reducing swelling in the area affected it then allows for a more favourable environment for nerve healing, and reduced nerve signal activation as they are not irritated by inflammatory substances.



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