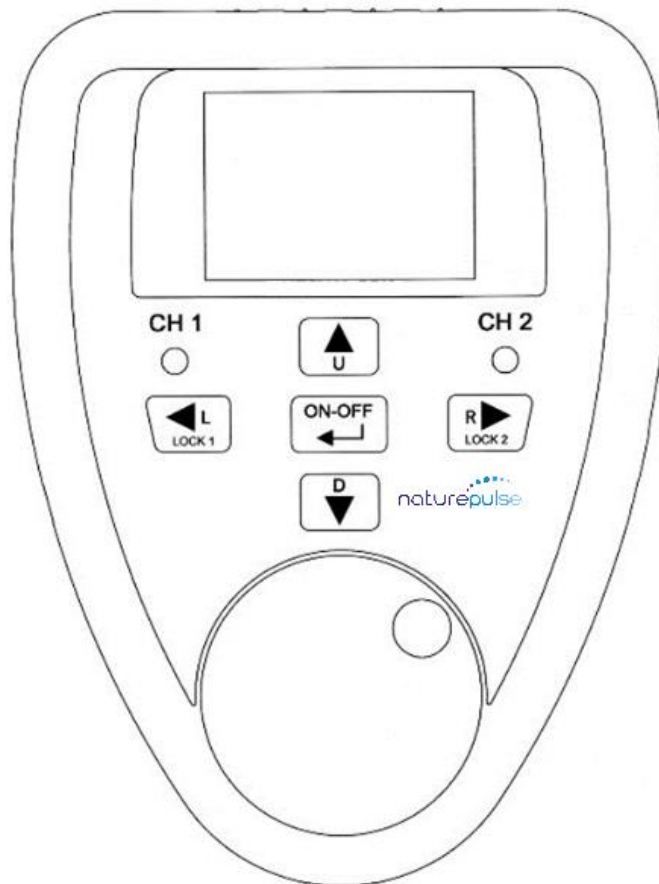
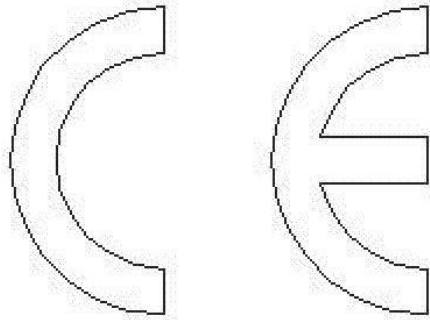


Electrotherapy device for:

- Pain relief
- Soft tissue damage
- Ulcers
- Wounds
- Joint pain
- Muscle spasms

APPLICATION MANUAL





CERMET, Notified Body
n.0476

Certificate MED 24010

Naturepulse: Application manual

The manufacturer

Naturepulse is an electrotherapy instrument produced by Globe Microsystems Ltd.

Therapeutic effects

The therapy in many cases allows an improvement in symptoms over a period of treatment of some 3 to 4 weeks. It needs to be added that therapeutic results are always obtained in a non-invasive manner.

Characteristics of the electrodes

The electrodes should be small in order to permit their application even in restricted areas. Electrodes for neonatal or paediatric cardiac monitoring are suitable.

If the area for application is large enough, the dimensions of the electrodes are not important. The electrodes should have a 'sponge centre' and be of liquid gel type.

Solid gel electrodes with a rubber centre are less suitable, but their performance may be improved by placing a small drop of gel at the centre of the electrode. A small drop of gel should also be used with liquid gel electrodes when their gel has dried up (for example when the bag containing them has not been properly closed). It often happens that the patient scarcely feels the signal at all because of the scant conductivity of deteriorated electrodes.

Operation

Use of the instrument is clearly described in the Instructions Manual, and its principal functions are reconsidered in condensed form in the Handbook. The program of the instrument, which may be visualised on the display, is characterised by two levels allowing identification of the pathology it is intended to treat. After the electrodes have been applied, it is only necessary to select the pathology to be treated and start the treatment. The therapist does not need to intervene during treatment, as the patient manages the intensity of the impulses according to his or her sensitivity, using the controls for this purpose. The impulses should be kept as high as possible without causing suffering. The treatment is composed of one or more phases, separated by 20 seconds pauses. The active phases of the treatment are indicated on the display by a rotating circular symbol. Pauses are indicated by two flashing lights. At the end of each pause, the intensity of the impulses returns automatically to the value at the close of the preceding phase. The patient may at any time intervene to regulate the intensity of the impulses by use of the manual control.

The layout of the electrodes

The layout of the electrodes is obviously a function of the pathology being treated.

In the following tables, suggested layouts are given for each pathology indicated. The doctor in charge may always prescribe other positions for the electrodes after having taken into consideration the specific nature of each individual case.

Graphic correspondences

The following conventions are used in the graphics showing the suggested layout for the electrodes.

Channel 1 (CH1) – electrode with red connector
Channel 1 (CH1) – electrode with black connector
Channel 2 (CH2) – electrode with red connector
Channel 2 (CH2) – electrode with black connector

Battery charging

Connect the transformer cable to a mains socket. Connect the other end of the cable to the Nesyal- PBK instrument. A fully recharged battery requires around twelve hours connected to the mains. This operation is generally carried out during the night.

Starting up the instrument

To start the instrument press the “ON-OFF” button

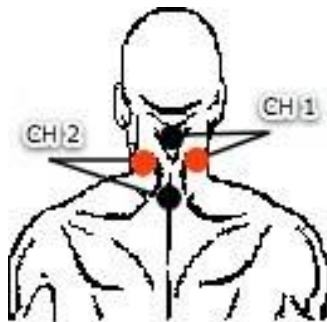
Therapeutic treatments

The layout of the electrodes for each individual pathology is suggested in the graphic table. This position may vary according to the position of the lesion and the indications given by the doctor.

TRAUMATOLOGY

The expected therapeutic effects in traumatology are a reduction in the VAS pain rating and reduced recovery times.

Post traumatic cervicalgia



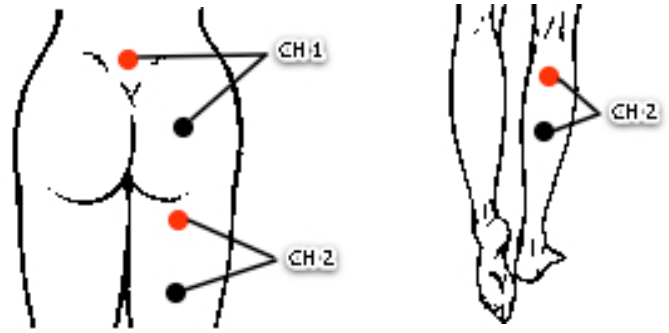
Post traumatic dorsalgia



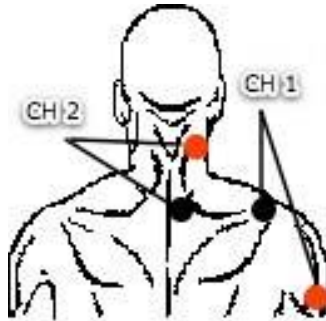
Post traumatic lumbalgia



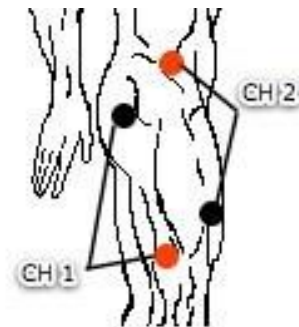
Lumbo-sciatica



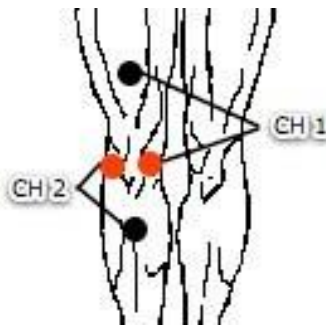
Shoulder tendonitis



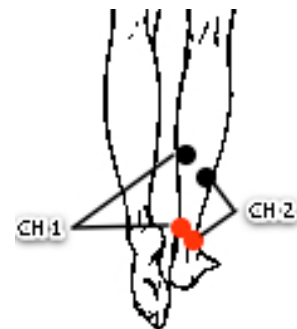
Coxalgy



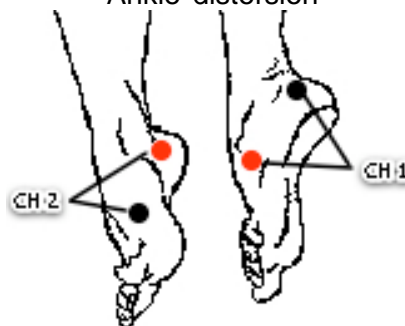
Knee distorsion



Achilles tendonitis



Ankle distorsion

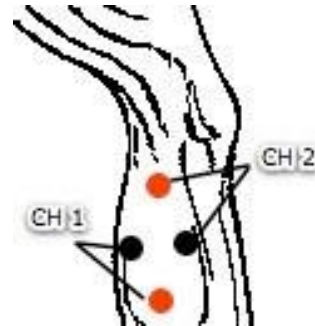


Muscle contractures



Example of muscle contracture

Muscle strains

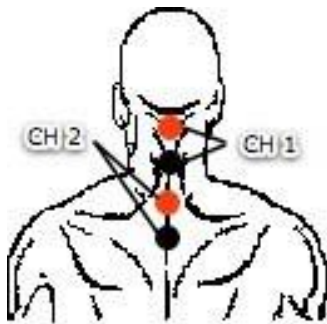


Example of muscle strain

CHRONIC ORTHOPAEDIC PATHOLOGIES

The expected therapeutic effects in orthopaedic pathologies are a reduction in the VAS pain rating and an objective improvement in the clinical case history, which may be measured by instrument evaluation.

Cervicalgia



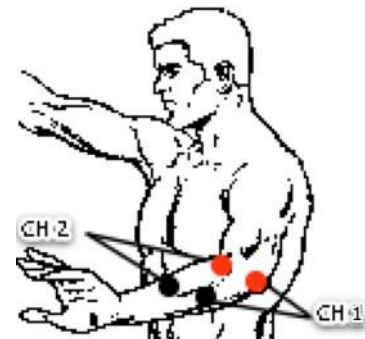
Dorsalgia



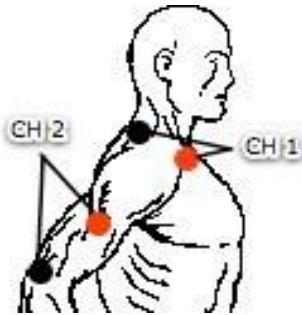
Lumbalgia



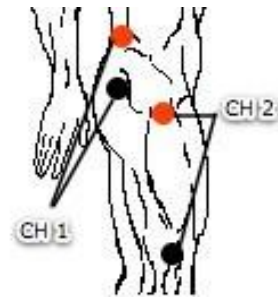
Epicondylitis



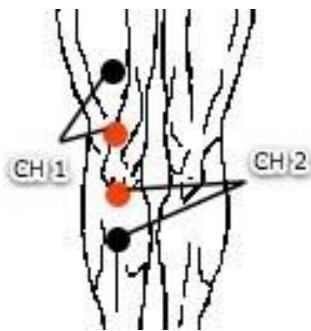
Shoulder arthrosis



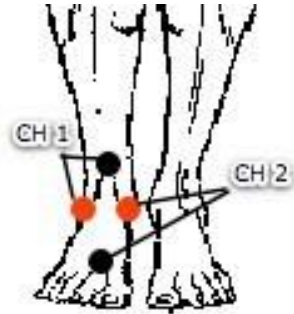
Hip arthrosis



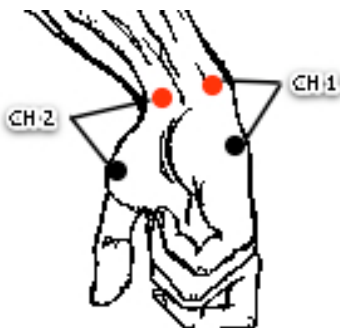
Gonarthrosis



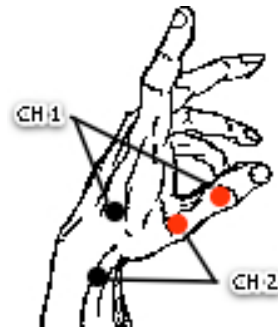
Foot arthrosis



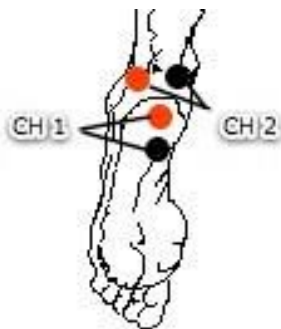
Carpal tunnel



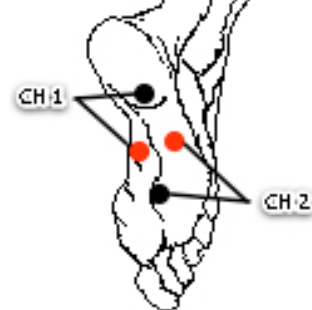
Rizarthrosis



Heel spur



Plantar fasciitis



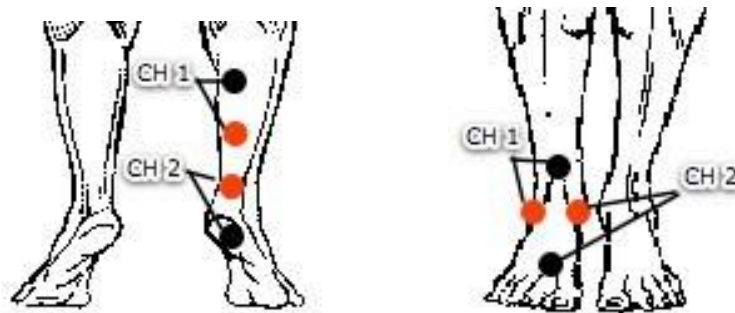
VASCULAR PATHOLOGIES

In peripheric vascular pathologies the expected benefits are a reduction of the ulcerated surface (where present), a reduction in the loss of peripheric sensitivity and/or a reduction in neuropathic pain of vascular origin.

Peripheral vasculopathies



Diabetic foot

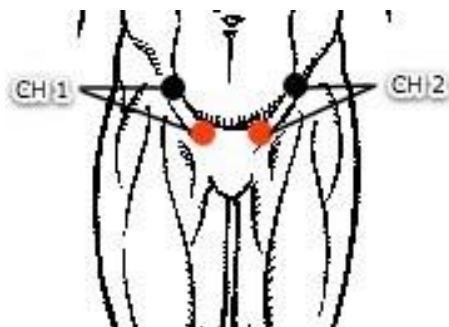


UROGENITAL PATHOLOGIES

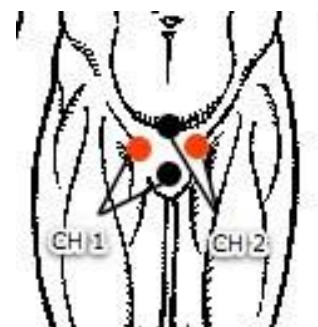
The expected benefit in treatment of urinary incontinence is a reduced number of episodes of uncontrolled urination.

Inflammation is normally reduced when treating cystitis and prostatitis.

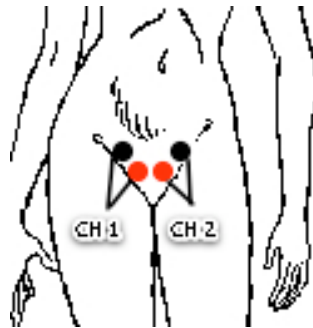
Urinary incontinenca



Prostatitis



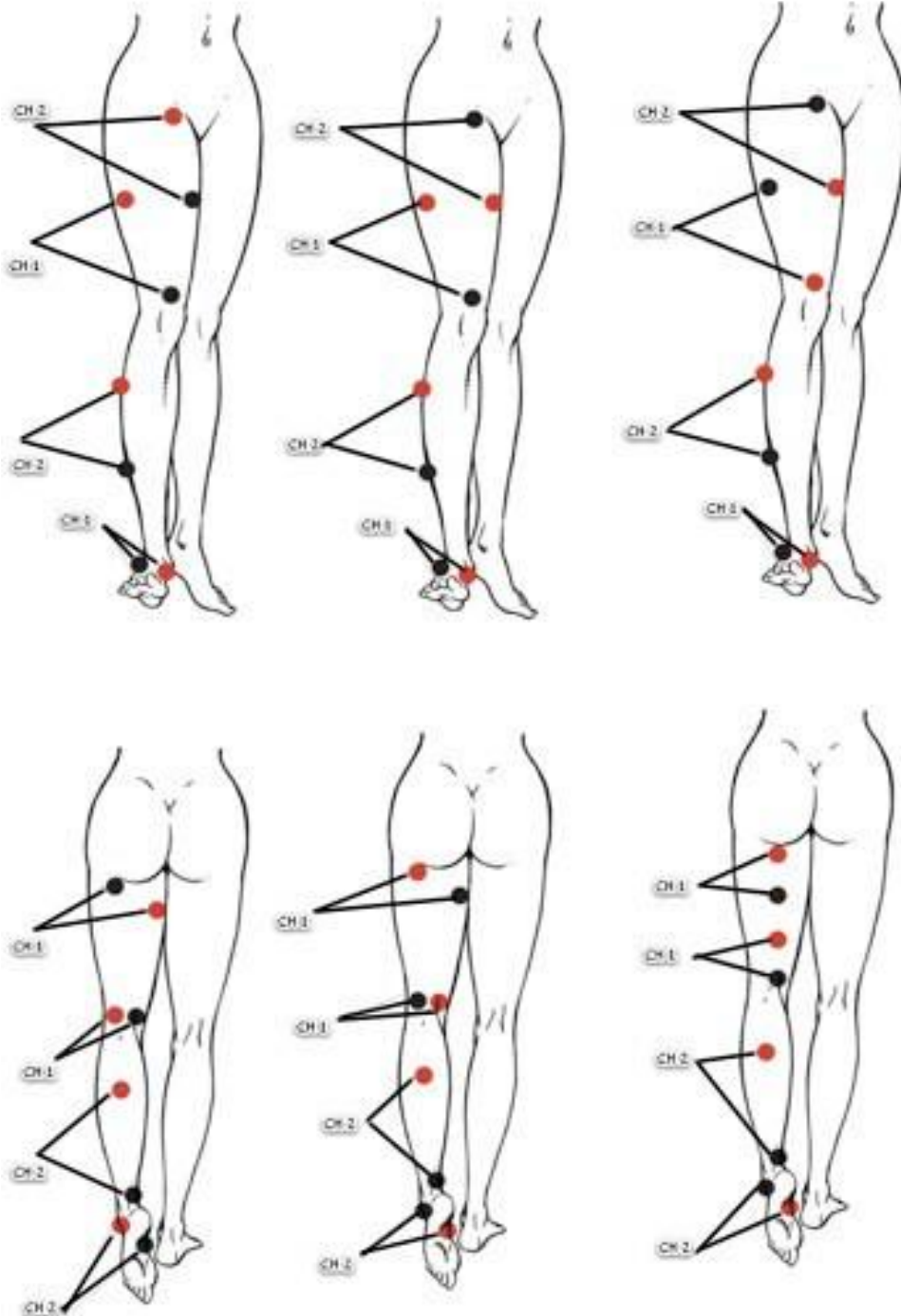
Cystitis

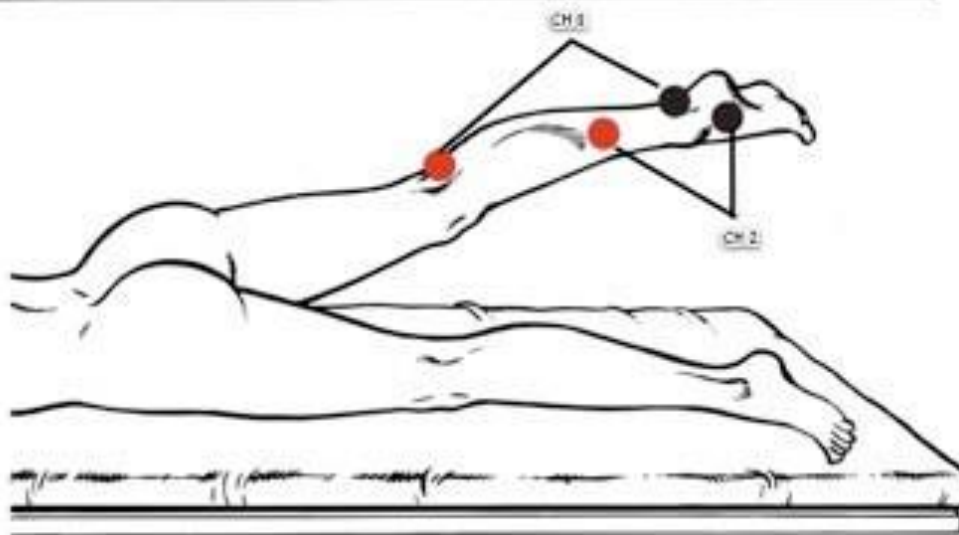
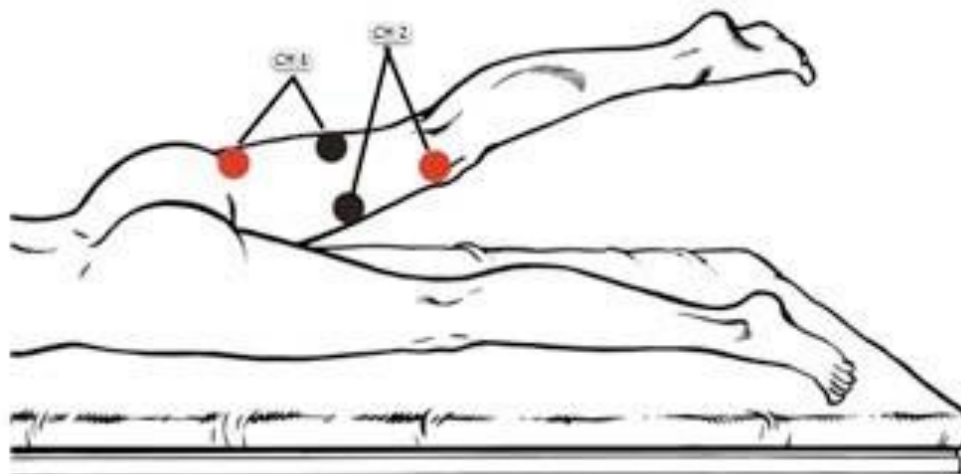
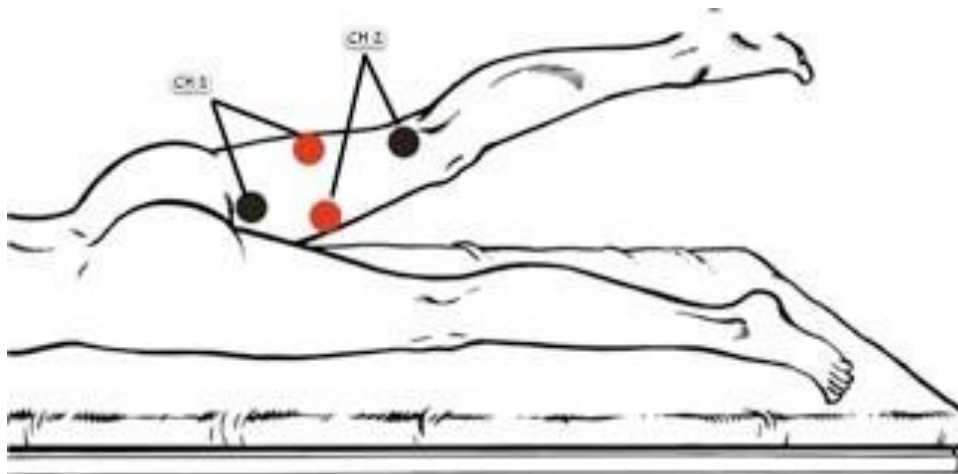


COSMETIC MEDICINE

The benefits expected in cosmetic applications are the regulation of localised microcycles and a toning up of tissue.

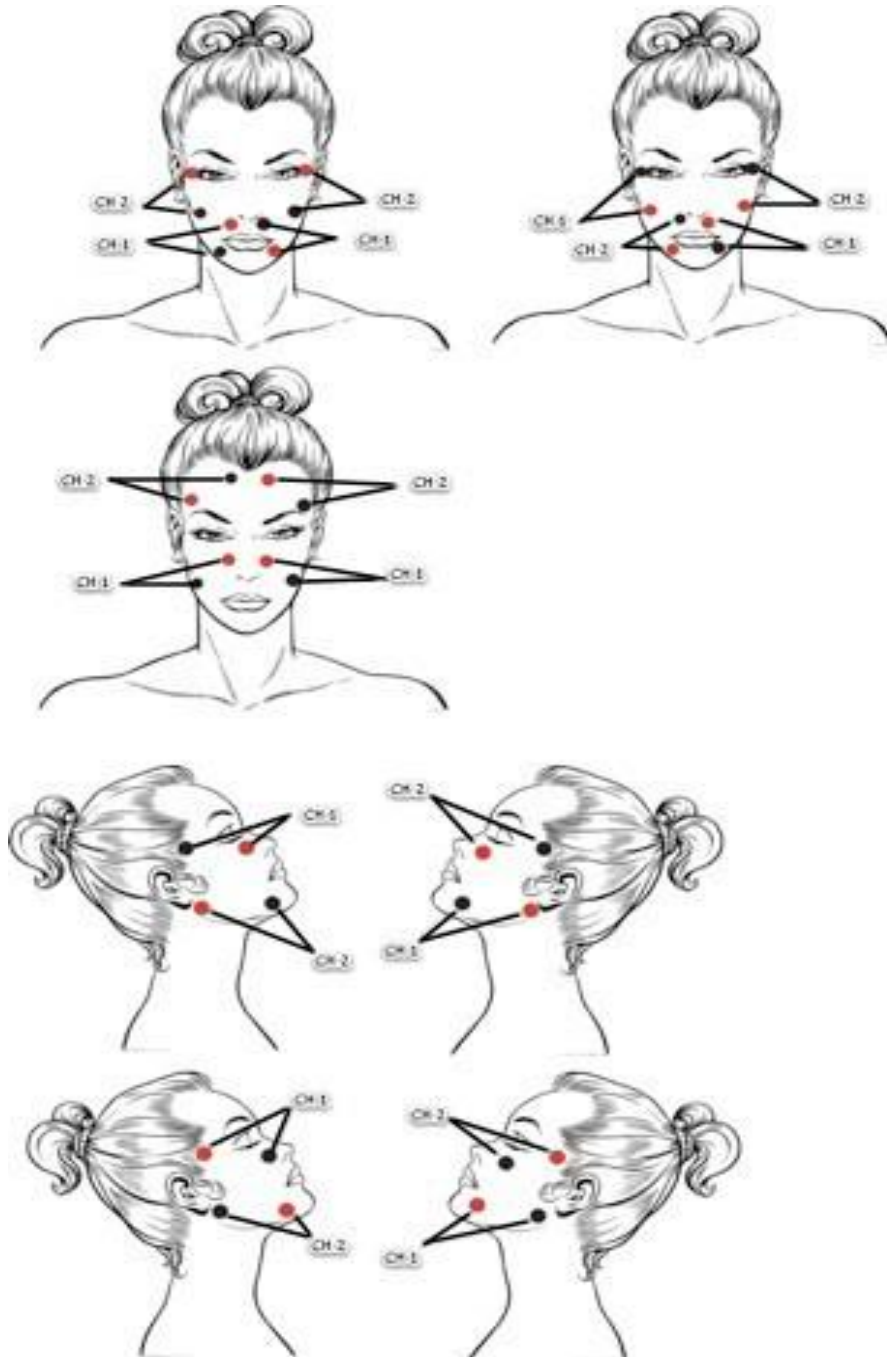
Legs microcircle activation

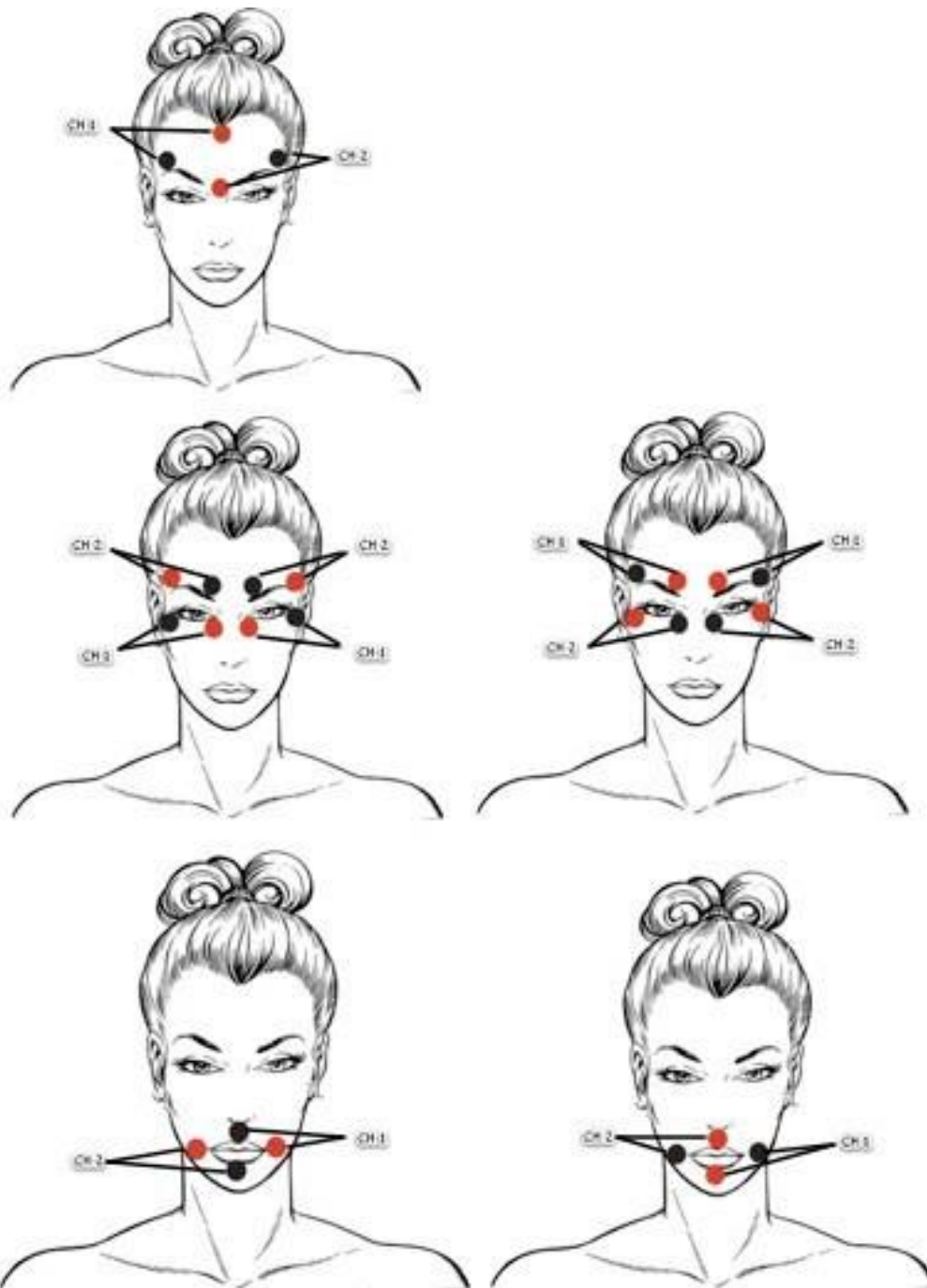




Face microcircle activation

The electrodes should be placed at a distance of at least one centimetre from the eye socket





Scalp microcircle activation

Neck application



Scalp application



SPECIAL PROGRAMMES

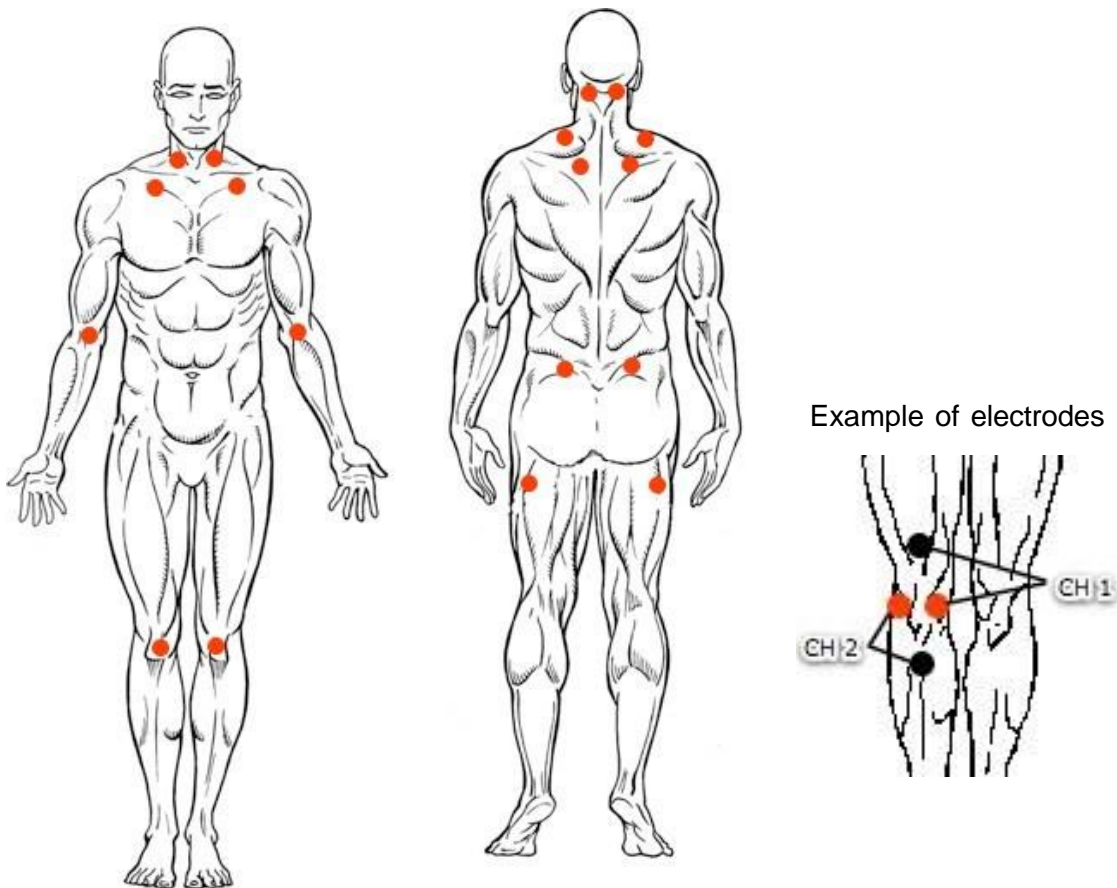
The expected therapeutic effects in fibromyalgia are a reduction in the VAS pain rating. The expected benefit in treating constipation is an objectively measurable reduction of the phenomenon.

The expected benefit in treating irritation to the colon is a reduction in the frequency of episodes of pain.

The expected benefit in treating trigeminal neuralgia is a reduction in the VAS pain rating.

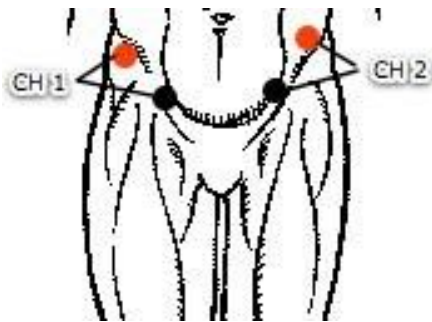
The expected benefits in treating cephalaea are a reduction in the frequency of the episodes and a reduction in the VAS pain rating.

Fibromyalgia

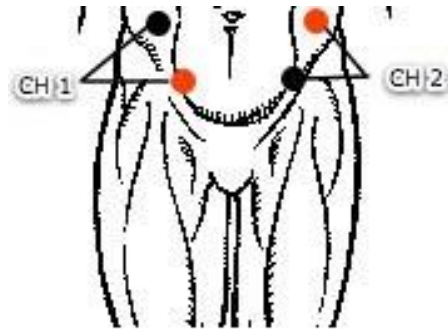


application The points indicated relate to one of the muscular-tendinous zones most commonly treated

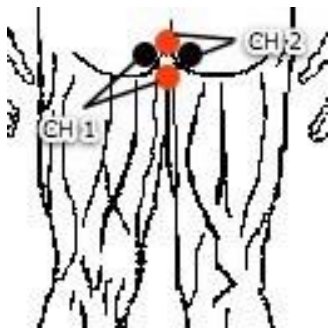
Constipation



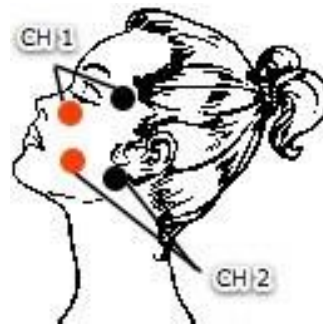
Irritable bowel syndrome



Hemorrhoids

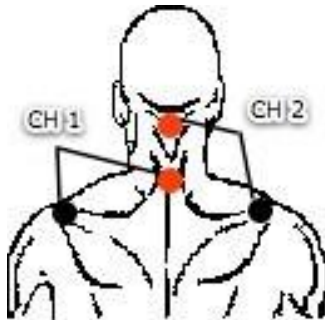


Trigeminal neuralgia



Cephalea

Neck application



Forehead application

