

The Kent Centre for Pain Medicine and Neuromodulation

TENS

Information for patients

Your pain specialist has prescribed **Transcutaneous Electrical Nerve Stimulation (TENS)** treatment to help your chronic pain. This booklet has been produced to help you to use the machine effectively, and to answer some of your questions about TENS treatment. TENS machines can be used for all types of pain. The specialist nurse will show you how to fit and use your TENS machine.

TENS is a drug free method of controlling pain that is effective for 75 out of every 100 patients. It is not a cure, but may significantly reduce your pain making life more tolerable.

How does TENS work?

TENS is thought to work in two ways.

1. By electrically rubbing the pain better. This acts to distract your nervous system. As your brain can only deal with so much information at one time, it lessens the amount of pain you feel.
2. By stimulating your body to produce its own painkillers (endorphins).

Note: TENS is only designed to work when you are wearing the machine and have it turned on.



When should I not use TENS?

- If you have a pacemaker.
- If you are pregnant you will need further instructions during the first three months, which you will have been given at your Pain Clinic appointment.
- If you are epileptic you will have been given further instructions at your Pain Clinic appointment.
- In bed when sleeping.
- In the bath or shower.
- When driving; check the details with your insurance company.

How do I use the TENS machine?

1. Attach the leads to the pads.
2. Position the pads.
3. Switch on the machine and turn up the intensity (top dial) until you feel a comfortable tingle.
4. After 20 minutes or so you may find the tingling has dimmed or stopped. You will need to gradually increase the intensity (by turning the top dial) until you feel a comfortable tingle again.

What are the different modes?

Experiment by opening the machine and moving the mode switch (**B, N, or M**; some machines are marked **C** instead of **N**).

- **N = Normal** (conventional) **mode** can be used for up to 12 hours a day.
- **B = Burst mode** can be used for up to 12 hours but as it is felt stronger it does run the battery down more quickly. **We suggest** that you use the **burst** mode when your pain is bad (for 30 to 60 minutes) then return to the **normal** mode. This 'two step' ladder can be used throughout the day.
- **M = Modulation mode** is a variation in setting that can be used if you find it more comfortable.

How do I look after the pads?

To look after the pads, please read the directions that are enclosed with the TENS pads. The following guidelines will help the pads to last longer.

- Use with care when handling the pads. Do not pull by the wire.
- Replace the pads on the protective sheet and seal in the protective cover.
- If the pads feel dry or look dull, splash with a little water and allow to dry before replacing them on the protective sheet.

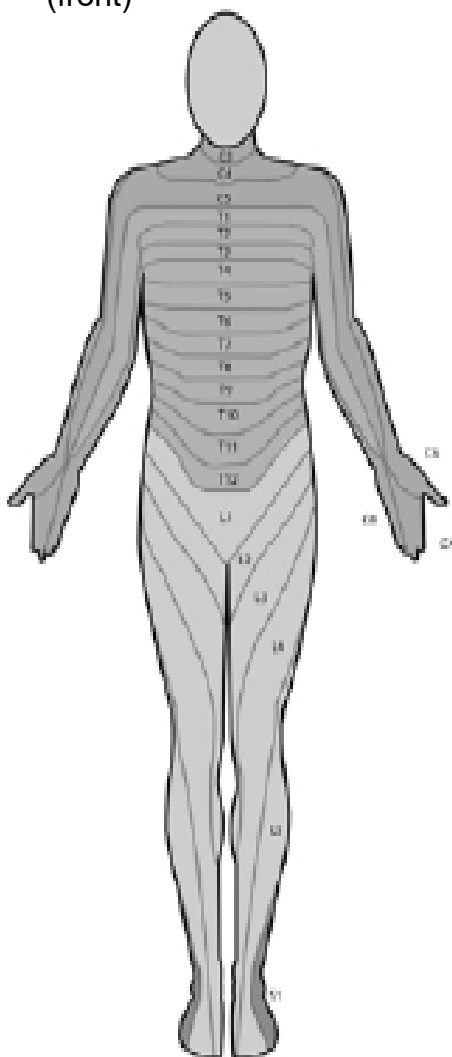
How are the pads positioned on my body?

There are no hard and fast rules to positioning the pads. They can be placed either side of your spine, over the nerve root, or generally around or over the painful area. Experiment with different pad positions to discover which work best for you in helping with your pain.

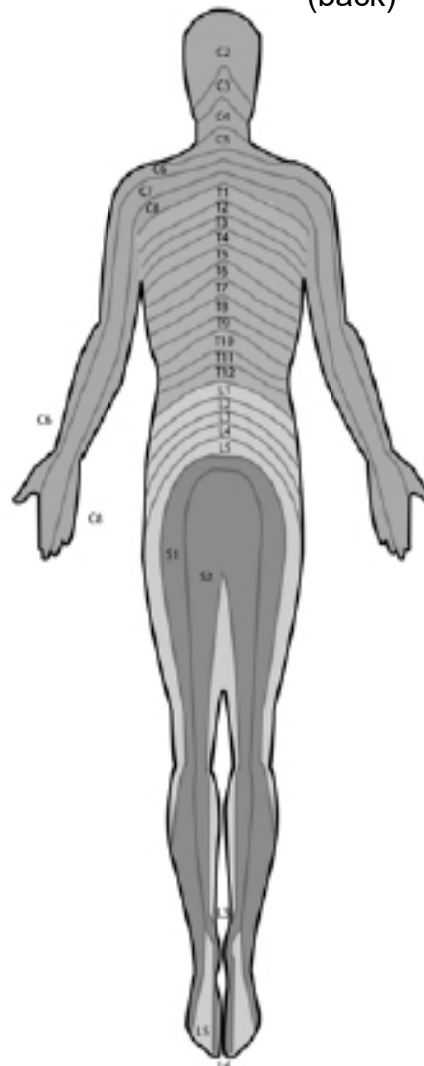
The leads have a black (negative) and a red (positive) end. Once again we encourage experimenting with the placement of these leads. **Never position the pads over the pulses on the front of your neck.**

Suggestions for your pad positions:

Dermatome chart
(front)



Dermatome chart
(back)



Suggestions

The machine will be on loan to you and must be returned at your review appointment; the time and date of this appointment will be sent to you. Take the opportunity to get more out of it by experimenting with the inside settings.

Pulse width to, for example 60 to 150

By having the beats 'wider' the machine will feel stronger. You will need to make sure it feels comfortable. If the sensation feels uncomfortable or makes you feel nauseous (sick), it may help to reduce the pulse width. Remember the settings will vary depending on where you place the pads.

Pulse rate to, for example 20 to 130

We recommend you start at 70 but people often find that changing the 'speed' is helpful. Move the dial to see what is most comfortable.

General guidance

- Always make sure the machine is switched off before applying or removing the pads.
- Gently wash and dry your skin before applying the pads. Do not use creams or lotions as the pads will not stick.
- You may need to change the position of the pads slightly from day to day to prevent your skin becoming irritated.
- It is important to make sure the pads do not touch each other when on your skin.

Cautions

- A strong jolt may be felt if a muscle is stimulated. This may feel uncomfortable but does not cause permanent damage. Reduce the intensity by turning down the top dial.
- Skin irritation is unusual with the self-adhesive pads. If you do have an allergic reaction, please contact the Pain Clinic for further advice.
- If you have an unpleasant prickling sensation, check the pads are pressed down firmly on your skin or that the pads have not dried out.
- Do not use over broken, infected, or hypersensitive skin.
- If after a couple of hours the tingling sensation 'annoys' you, we suggest you turn the machine completely off for five minutes then switch it back on again. This can be repeated as often as needed.

Please remember to bring the TENS machine with you when you come to your follow-up appointment. If you are unable to keep that appointment, please let the Pain Clinic know so we can offer your appointment time to another patient.

Further information

If you have any concerns regarding the information in this leaflet or your procedure, please phone the Pain Clinic.

Kent Centre for Pain Medicine and Neuromodulation (direct lines)

- Kent and Canterbury Hospital, Canterbury Telephone: 01227 78 30 49
- Queen Elizabeth the Queen Mother Hospital, Margate Telephone: 01843 23 50 94
- William Harvey Hospital, Ashford Telephone: 01233 61 66 91

Useful information

For further information on chronic pain and its treatment options, please go to the East Kent Hospitals Chronic Pain web page www.ekhufft.nhs.uk/chronic-pain-leaflets

This leaflet has been produced with and for patients

If you would like this information in **another language, audio, Braille, Easy Read, or large print** please ask a member of staff. You can ask someone to contact us on your behalf.

Any complaints, comments, concerns, or compliments please speak to your doctor or nurse, or contact the Patient Advice and Liaison Service (PALS) on 01227 78 31 45, or email ekh-tr.pals@nhs.net

Patients should not bring in large sums of money or valuables into hospital. Please note that East Kent Hospitals accepts no responsibility for the loss or damage to personal property, unless the property had been handed in to Trust staff for safe-keeping.

Further patient leaflets are available via the East Kent Hospitals web site www.ekhufft.nhs.uk/patientinformation