

RELIEVE
THE PAIN
STIMULATE
HEALING

Innovative electrical stimulation
for hard-to-heal wounds

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Accel Heal

ELECTRICAL STIMULATION WOUND THERAPY

HARD-TO-HEAL WOUNDS CONTINUE TO BE A MAJOR BURDEN

Despite treatment advances in wound management over the last 30 years, hard-to-heal wounds are an increasing problem.

The total cost of leg ulcers in the UK has been estimated to be around £1.9bn each year.^[1]

The annual cost of managing an unhealed venous leg ulcer (VLU) is 4.5 times more than that of managing a healed one.^[2]

The majority of patients require dressing changes at least twice a week and more than a third require daily dressing changes, putting pressure on health care practitioner caseloads.^[3]

Hard-to-heal wounds can be extremely painful - between 50% and 60% of patients with chronic wounds experience persistent wound pain.^[4, 5] Pain influences many aspects of wound treatment. One major issue is that pain can make some gold standard treatments such as compression unbearable; this can lead to reduced compliance and worse outcomes. Wound pain can also severely impact patients' quality of life.

WHAT IS ELECTRICAL STIMULATION

Electrical stimulation has the potential to alleviate these problems. It is a proven treatment method for wound management which has been used by specialists and researchers for many years.

It is one of the most evidence-based wound management technologies available, reported in at least 30 randomised controlled trials.^[6, 7] Its use has been recommended by the European Pressure Ulcer Advisory Panel to treat stage 2 to 4 pressure ulcers.^[8]

The European Wound Management Association (EWMA) has also acknowledged that electrical stimulation is effective in treating a wide range of wound types including venous leg ulcers, diabetic foot ulcers, pressure ulcers and mixed ulcers.^[9] Electrical stimulation is proven to improve healing^[6,9] whilst reducing pain^[10, 11] and inflammation^[12]. Specific subsensory stimulation from devices such as Accel-Heal[®] is safe to use.^[9]

However, electrical stimulation has not been widely adopted into everyday practice. Many established, hospital-based devices are complicated for healthcare practitioners to use. Patients are inconvenienced by the need to visit the hospital for treatment and would rather be treated at home.^[9]



HOW ACCEL-HEAL ADDRESSES THESE PROBLEMS

Accel-Heal is an innovative electrical stimulation therapy for hard-to-heal wounds which relieves pain and stimulates healing.

Accel-Heal has been designed to provide advanced therapy in a simple format that can be used to complement standard wound care.

A single use, small, portable device that can be discreetly tucked away and can easily be managed by patients in their own homes.

There is no complicated set up and treatment is started with the simple push of a button. The therapy is subsensory and safe to use.^[7]

HOW ACCEL-HEAL IMPROVES OUTCOMES



RELIEVES WOUND PAIN
[13][7]



STIMULATES HEALING
[13-15]



IMPROVES PATIENT QUALITY OF LIFE
[14-16]



SAFE
[7]



COST EFFECTIVE
[7]

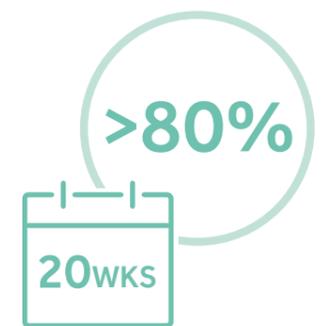
THE EVIDENCE

During Accel-Heal therapy patients can expect to find that pain is relieved and the normal healing process is stimulated and continues

long after the treatment period has been completed, putting them on the road to recovery.



83 per cent reduction in pain during 12-day treatment^[13]



Over 80 per cent of non-healing wounds healed in 20 weeks^[13-15]

HOW ACCEL-HEAL BENEFITS PATIENTS

Better quality of life

- Patients have reported marked pain relief following treatment with Accel-Heal^[17,13] with some patients reporting rapid improvement within hours of commencing therapy.^[17]
- This has enabled patients to reduce, or come off pain relieving medication completely^[18,19] and even return to work.^[19]
- Patients were also able to return to normal social activities thanks to experiencing less pain and increased mobility.^[14,18]

Better compliance to gold standard compression

- Patients treated with Accel-Heal were able to tolerate full strength compression as a direct result of its pain relieving benefits.^[19,20]

- Accel-Heal can also be used to manage patient pain in order to allow investigations such as blood flow testing or other treatment such as debridement to be carried out which the patient might not otherwise be able to tolerate.^[17]
- Being entrusted with their Accel-Heal device promotes a sense of self-sufficiency and control in patients and may help to prepare them for their future self-care with, for example, compression stockings.^[21]

Better movement and exercise

- Improved blood flow, stimulated by movement, can improve the chances of wound healing - as wound pain can worsen during movement, this can be very difficult for patients.
- Patients treated with Accel-Heal noted huge differences in their ability to move about freely compared with the restrictions they had experienced before treatment, making it easier to exercise.^[14,18]

Accel-Heal reduces the overall cost of hard-to-heal wound treatment by:

ACCEL-HEAL IS COST SAVING

£936

REDUCING THE PER PATIENT COST OF MANAGING A VLU BY UP TO £936^[27]

1/3

REDUCING THE COSTS OF DRESSING CHANGES BY UP TO A THIRD^[22]

34%

REDUCING THE NUMBER OF NURSING VISITS NEEDED PER PATIENT PER YEAR BY 17, A 34% REDUCTION^[23]

11%

REDUCING THE COST OF TREATMENT OF VENOUS LEG ULCERS TO THE NHS BY 11%^[23]

HOW ACCEL-HEAL WORKS

Accel-Heal works by delivering a preset, automated programme of subsensory electrical pulses to the wound that automatically adjusts itself to different patients to deliver effective therapy from the moment it is switched on.

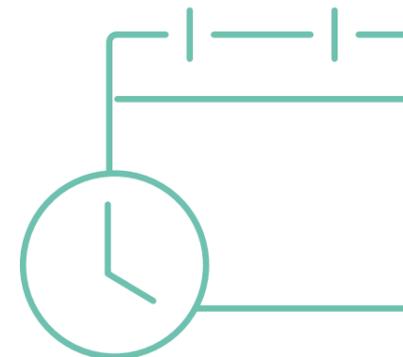
A normal wound usually has a small, naturally occurring electric charge across it.

This charge normally orchestrates the complicated wound healing process by instructing cells in the wound bed to go into 'healing mode'.^[24]

Chronic wounds are believed to lack this electrical charge - applying electrical stimulation is believed to replicate this natural stimulation, promoting healing.^[10]

Accel-Heal relieves pain and stimulates healing by directly affecting cell behaviour in and around the wound bed. These cellular changes suggest that Accel-Heal may dampen down the inflammatory environment that is present in complex wounds. Case studies have reported a visually apparent reduction in wound inflammation in as little as 7-days after applying the Accel-Heal device.^[14]

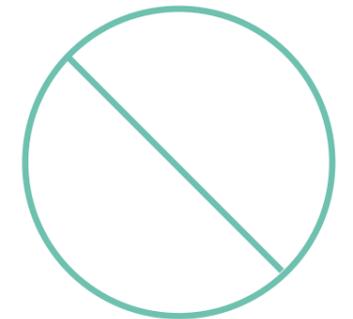
HOW ACCEL-HEAL IMPROVES OUTCOMES



Patients with a hard-to-heal wound that is not progressing to healing



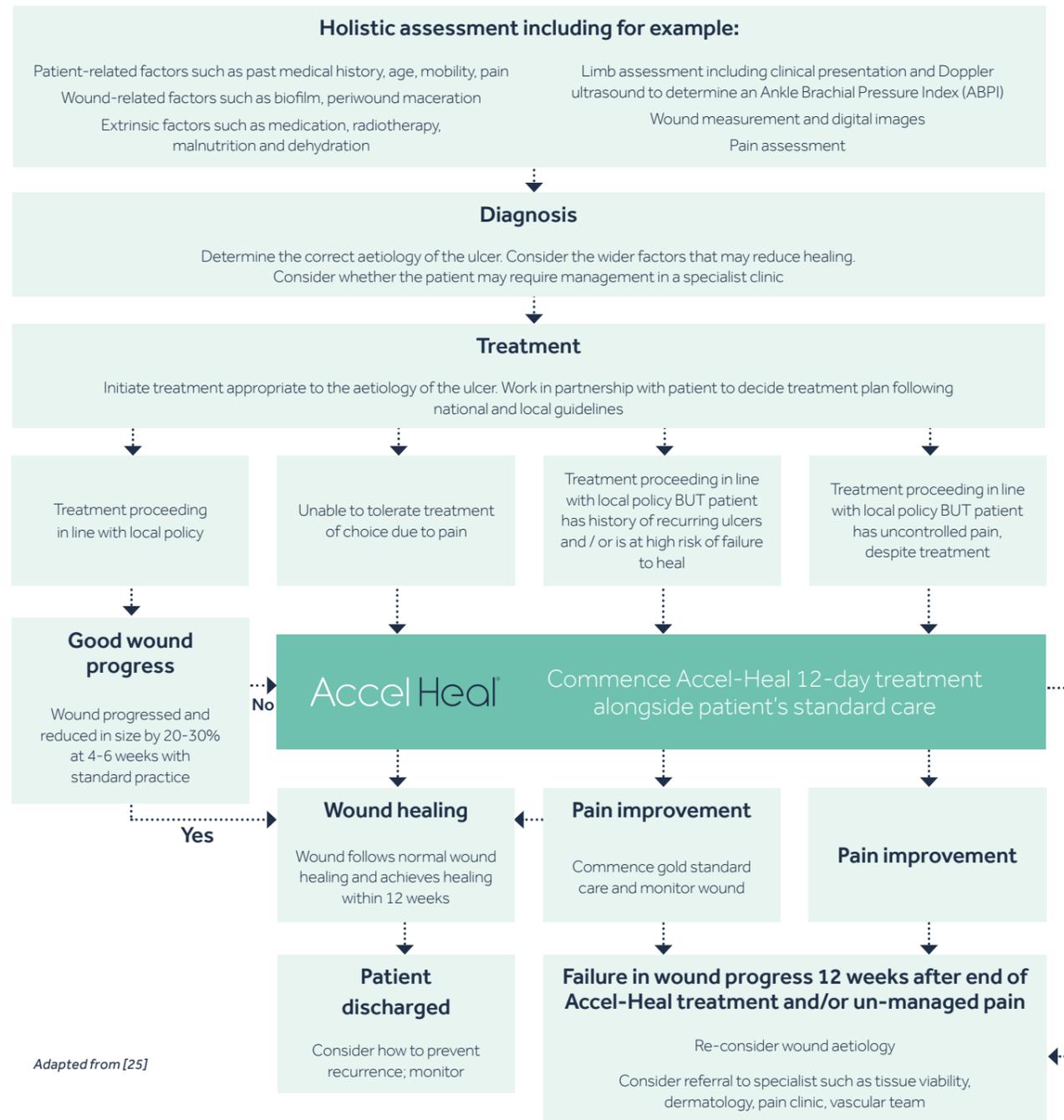
Patients who are frustrated by the reduced mobility caused by their pain



Patients whose wound pain causes them to be non-compliant to treatment



WHEN TO USE ACCEL-HEAL



HOW TO USE ACCEL-HEAL

Accel-Heal therapy consists of six, 48-hour disposable devices connected to skin friendly electrode pads.

The 12-day treatment period begins by simply applying two electrode pads to the skin near the wound.

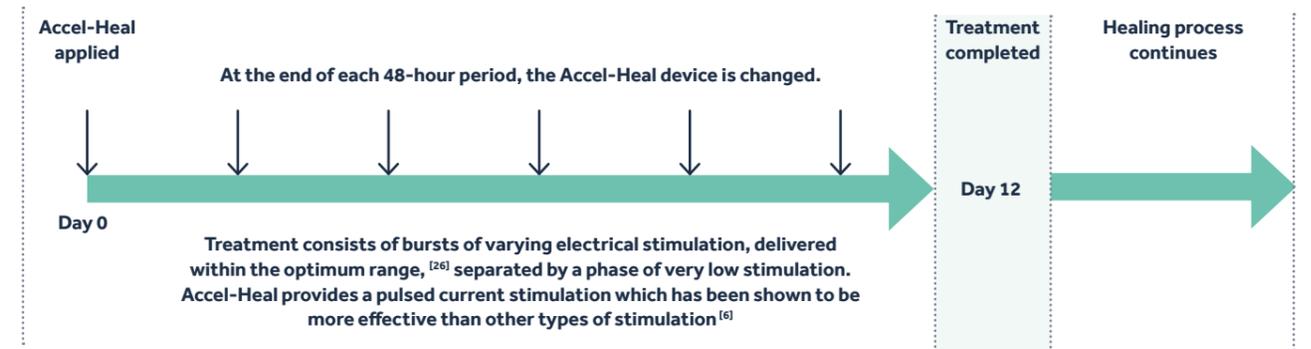
Every 48-hours during the 12 day treatment period the Accel-Heal device is changed for a new device.

The electrode pads should be applied to intact skin on either side of the wound, then connected to the Accel-Heal device.

HOW TO USE ACCEL-HEAL

Once the dressing has been applied and the device switched on, electrical stimulation is delivered to the wound automatically with no further intervention required by the patient for 48 hours after application.

After 48-hours the device will automatically turn itself off. A new one should then be attached to the electrodes, with the old one disposed of safely. Each device should be applied consecutively during the therapy. The electrodes should be replaced as necessary during the course of therapy.



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ELECTRICAL STIMULATION WOUND THERAPY

ORDERING DETAILS

Item	Size	Product code	PIP code	NHS code
1 x Accel-Heal® treatment (6 x 48 hour units)	7cm x 4cm x 2cm	K560-6	373-0942	ELZ752

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