RELIEVE THE PAIN
STIMULATE HEALING

Innovative electrical stimulation for hard-to-heal wounds
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.

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] Its use has been recommended by the European Pressure Ulcer Advisory Panel to treat stage 2 to 4 pressure ulcers.[6]

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.[7] Electrical stimulation is proven to improve healing[8-10] whilst reducing pain[11, 12] and inflammation.[13]

Specific sub-sensory stimulation from devices such as Accel-Heal® is safe to use.[7]

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.[11]

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.

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 sub-sensory and safe to use.[7]

**The Evidence**

**How Accel-Heal Addresses These Problems**

**How Accel-Heal Improves Outcomes**

**Relieves Wound Pain**[13]

**Stimulates Healing**[13-15]

**Improves Patient Quality of Life**[14-16]

**Safe**[7]

**Cost Effective**[7]

83 per cent reduction in pain during 12-day treatment[11]

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

**The Evidence**

83% - 12DAYS

>80% - 20WKS
Better quality of life
1. Patients have reported marked pain relief following treatment with Accel-Heal, with some patients reporting rapid improvement within hours of commencing therapy. [13]
2. This has enabled patients to reduce, or come off pain relieving medication completely. [14, 16] and even return to work. [18]
3. 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
4. Patients treated with Accel-Heal were able to tolerate full strength compression as a direct result of its pain relieving benefits. [14, 18]

Better movement and exercise
5. 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]
6. 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]

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 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

Accel-Heal is cost saving

£936
1/3
34%
11%

Reducing the overall cost of hard-to-heal wound treatment by:
- Reducing the per patient cost of managing a VLU by £936
- Reducing the costs of dressing changes by a third
- A 34% reduction in the number of nursing visits needed per patient per year
- Reducing the cost of treatment of venous leg ulcers to the NHS by 11%
**WHEN TO USE ACCEL-HEAL**

**Holistic assessment including for example:**
- Patient-related factors such as past medical history, age, mobility, pain
- Wound-related factors such as biofilm, pseudomembranous
- Extrinsic factors such as medication, radiotherapy, malnutrition and dehydration

**Diagnosis**
Determine the correct aetiology of the ulcer. Consider the wider factors that may reduce healing. Consider whether the patient may require management in a specialist clinic.

**Treatment**
Initiate treatment appropriate to the aetiology of the ulcer. Work in partnership with patient to decide treatment plan following national and local guidelines.

**Good wound progress**
Wound progressed and reduced in size by 20-30% in 4-6 weeks with standard practice

**Wound healing**
Wound follows normal wound healing and achieves healing within 12 weeks.

**Pain improvement**
Commerence Gold standard care and monitor wound

**Patient discharged**
Consider how to prevent recurrence; monitor

**Failure in wound progress 12 weeks after end of Accel-Heal treatment and/or un-managed pain**
Re-consider wound aetiology
Consider referral to specialist such as tissue viability, dermatology, pain clinic, vascular team

**REFERENCES**
3. New research finds UK nurses carry out 180 wound dressing changes a year – on each chronic wound patient. [https://www.wounds-uk.com/news/
details/new-research-finds-uk-nurses-carry-out-180-wound-dressing-changes-a-year-on-each
chronic-wound-patient/]
22. N. Turner. Right Care, Right Time: – An evaluation using an electroceutical treatment to determine the clinical outcomes in a large NHS Trust.
27. Dafna Meir. The 2015/01/30/or
### ORDERING DETAILS

<table>
<thead>
<tr>
<th>Item</th>
<th>Size</th>
<th>Product code</th>
<th>PIP code</th>
<th>NHS code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x Accel-Heal® treatment (6 x 48 hour units)</td>
<td>7cm x 4cm x 2cm</td>
<td>K560-6</td>
<td>373-0942</td>
<td>ELZ752</td>
</tr>
</tbody>
</table>

Distributed in Ireland by MedEarly Healthcare Ltd. Please contact MedEarly Healthcare Ltd by: T: 087 686 4939 E: louise@medearly.ie www.medearly.ie