

RELIEVE  
PAIN  
**STIMULATE**  
**HEALING**

[accelheal.com](https://www.accelheal.com)

AccelHeal Solo  
ELECTRICAL STIMULATION WOUND THERAPY

# THE BURDEN OF CHRONIC WOUNDS

## CHRONIC WOUNDS – THE 'SILENT EPIDEMIC'

**1.5**  
MILLION  
PEOPLE

3% of the total adult population in the UK have a chronic wound<sup>1</sup>

**+50%**

Chronic wounds increased by 50% between 2012/2013 and 2017/2018<sup>1,2^</sup>

**OVER**  
**1/2**

51% of all chronic wounds fail to heal within 12 months<sup>1\*</sup>

## THE FINANCIAL BURDEN OF WOUND CARE IS SUBSTANTIAL...



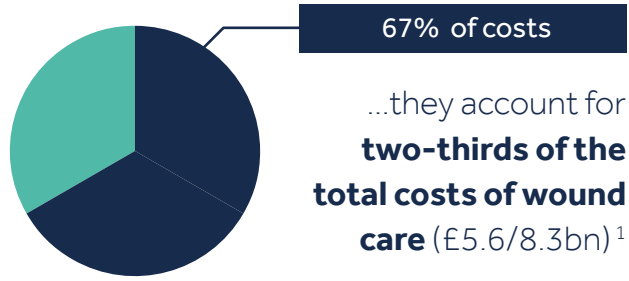
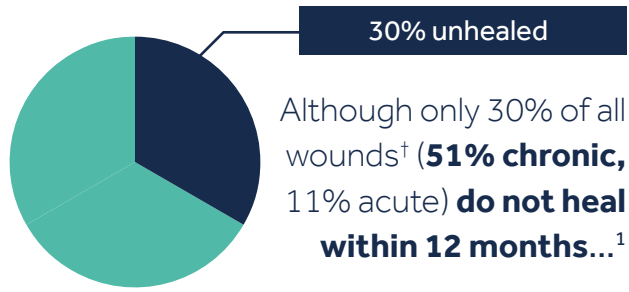
THE COST OF CHRONIC AND SURGICAL WOUND CARE TO THE NHS IS **£8.3 BILLION PER YEAR**<sup>1\*</sup>

Asthma £1.1bn<sup>20</sup>

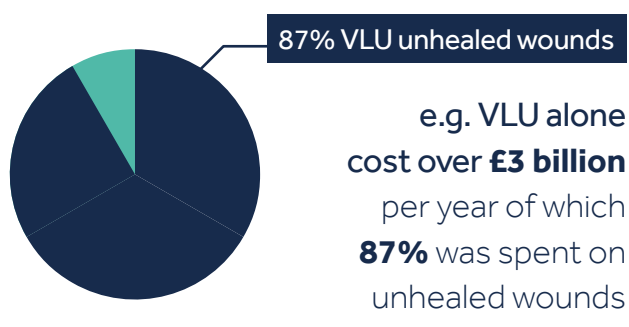
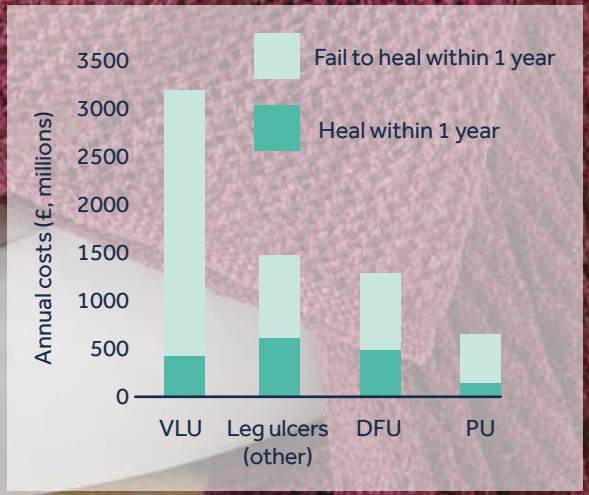
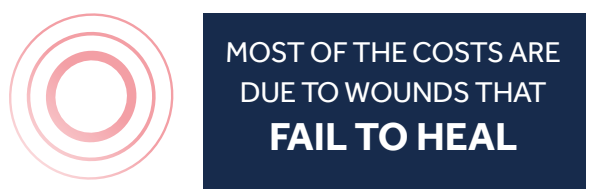
Obesity £2bn<sup>20</sup>

Diabetes 10bn<sup>20</sup>

# FAILURE TO HEAL HAS A MAJOR EFFECT ON COSTS



**£4.9 BILLION** IS SPENT ON HARD-TO-HEAL CHRONIC WOUNDS TYPES EVERY YEAR



\* represents data from the UK  
 ^ calculated from reference 1 and 2  
 † represents all wound types, not just chronic wounds

# WHAT IS ELECTRICAL STIMULATION (EST)?

EST IS THE APPLICATION OF A SMALL ELECTRICAL CURRENT TO HUMAN TISSUE

EST is already widely used in clinical medicine:<sup>3</sup>

Examples include:

- Cochlear implants
- Pacemakers
- Spinal cord nerve stimulation

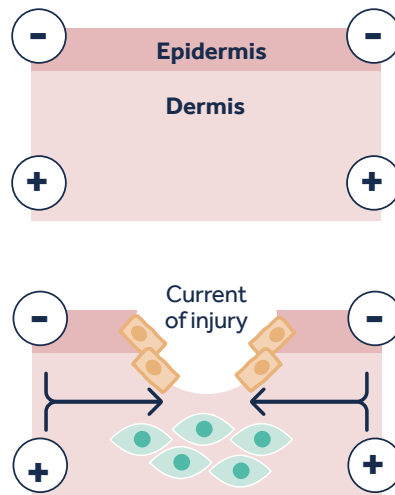


EST HAS ALSO BEEN USED IN **SPECIALIST WOUND CLINICS FOR MANY YEARS.**

NORMAL WOUND HEALING RELIES ON A "CURRENT OF INJURY"<sup>4</sup>

Intact skin acts as a "battery."<sup>4</sup>

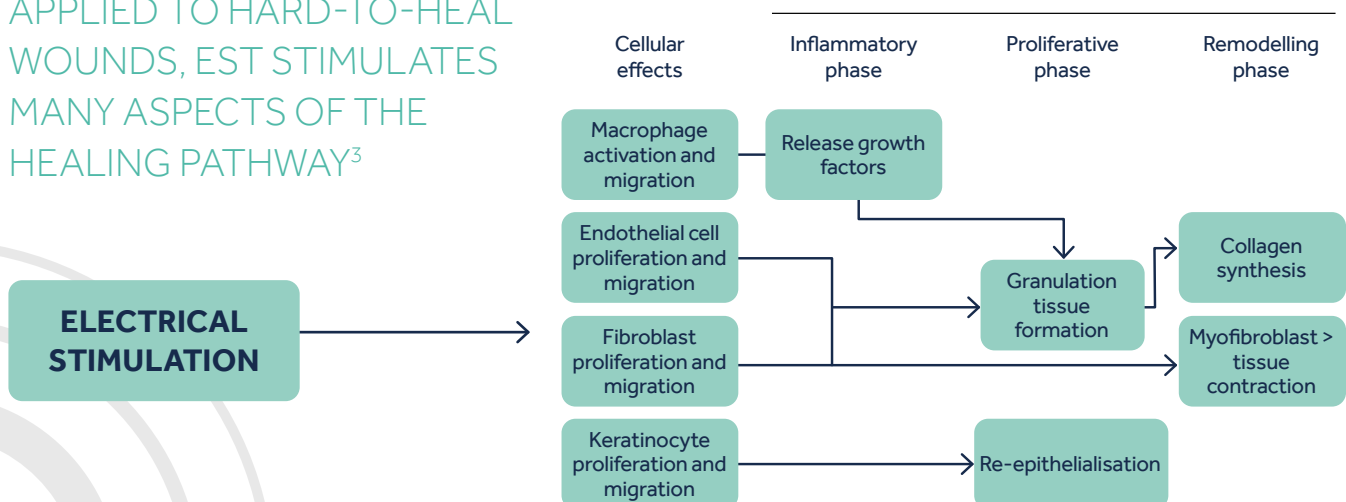
During normal wound healing, a "current of injury" helps to direct cell migration and proliferation from the wound edge into the centre of the wound.<sup>4</sup>



**IN HARD-TO-HEAL WOUNDS,** THE CURRENT OF INJURY MAY BECOME EXHAUSTED.<sup>3</sup>

WHEN EXTERNALLY APPLIED TO HARD-TO-HEAL WOUNDS, EST STIMULATES MANY ASPECTS OF THE HEALING PATHWAY<sup>3</sup>

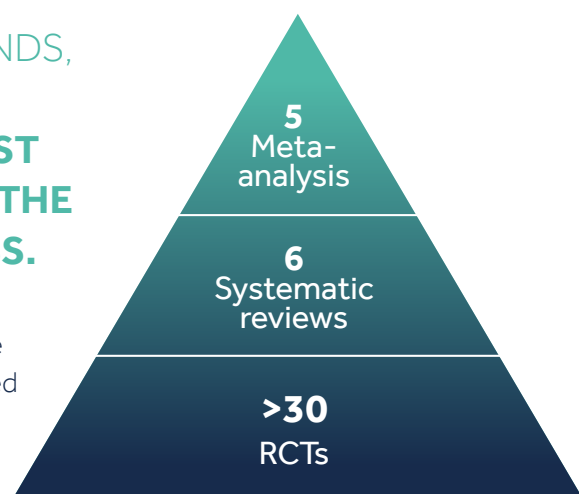
EST modulates events in the following phases of wound healing:



# WHY USE EST?

IN CHRONIC WOUNDS, THERE IS STRONG EVIDENCE THAT **EST CAN KICK-START THE HEALING PROCESS.**

Electrical stimulation is one of the most evidence-based modalities in wound management today: <sup>3</sup>



A META ANALYSIS REPORTED THAT ON AVERAGE, ADDING EST TO STANDARD CARE **ALMOST DOUBLED THE RATE OF HEALING OVER A 4-WEEK TREATMENT PERIOD.**<sup>5</sup>

EST IS RECOGNISED IN WOUND CARE GUIDELINES AND RECOMMENDATIONS <sup>6,7</sup>



UP UNTIL NOW, **EST HAS NOT BEEN AVAILABLE IN A FORMAT THAT MAKES IT EASY TO USE IN FRONTLINE CLINICAL PRACTICE.** ACCEL-HEAL SOLO NOW MAKES THIS POSSIBLE. <sup>6,8,9</sup>

- Preprogrammed 12 days of therapy in one device.
- Simple to apply and easy to use.
- Available to use in the community.
- Can be used in conjunction with existing wound management dressing choices and compression therapy.



# Accel Heal Solo

ELECTRICAL STIMULATION WOUND THERAPY

AN ELECTRICAL STIMULATION DEVICE THAT **MAKES FRONTLINE ADOPTION OF EST POSSIBLE**

Accel-Heal Solo is a preprogrammed, wearable, single-use EST device for the treatment of hard-to-heal wounds.

✓  
SIMPLE AND EASY TO USE

✓  
12-DAY ONE-OFF THERAPY

✓  
SUB-SENSORY MICROCURRENT EST - MINIMISES UNPLEASANT SENSATIONS<sup>3</sup>

✓  
CAN BE USED ALONGSIDE CURRENT TOPICAL TREATMENT

✓  
'OFF THE SHELF'  
- NO EXPENSIVE KIT OR TRAINING REQUIRED

## ADDITIONAL FEATURES:

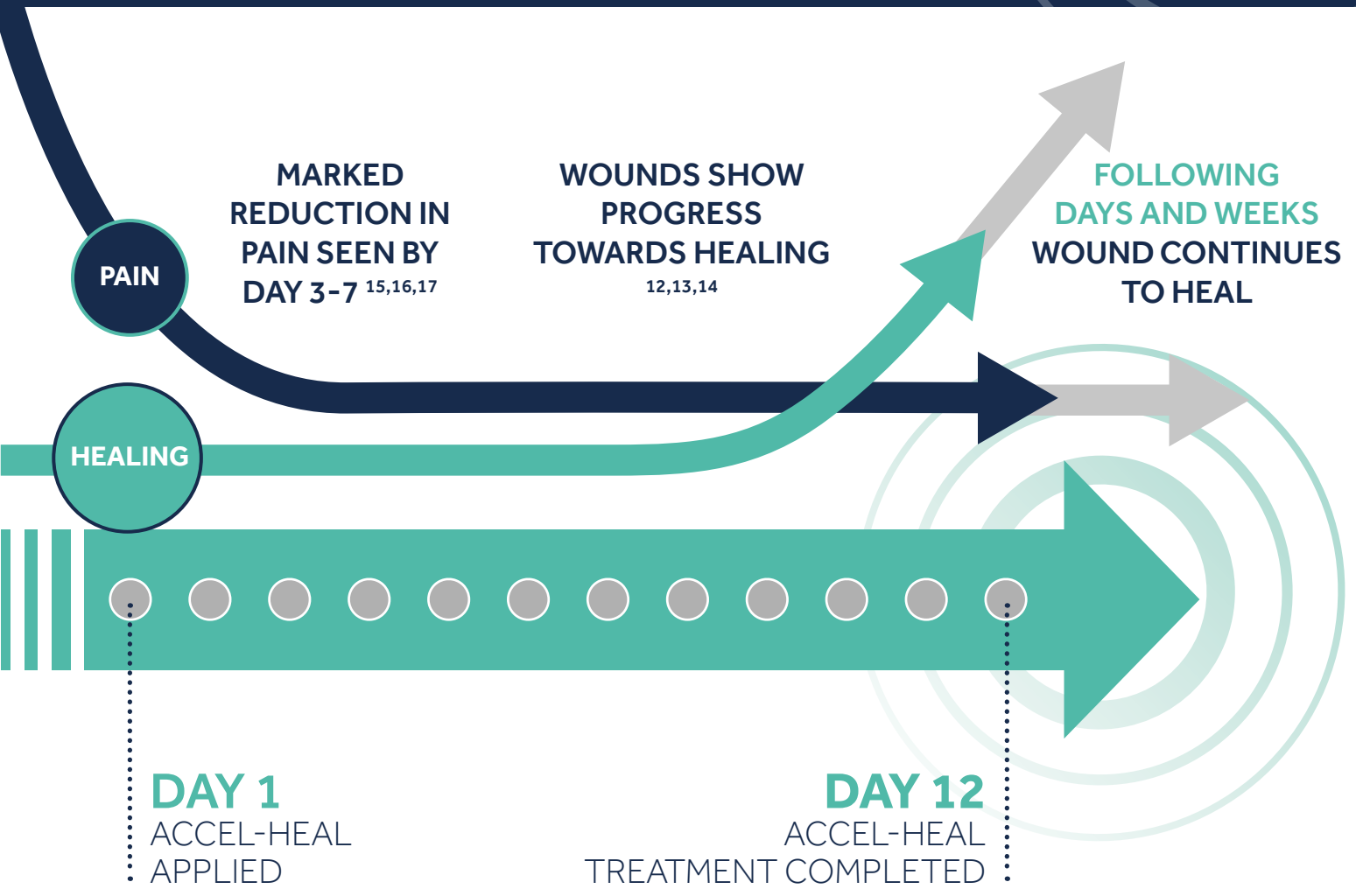
Until now, the 12-day therapy has been delivered through the consecutive use of six Accel-Heal 48-hour devices. Accel-Heal Solo delivers the full 12 days of therapy through a single unit.

The treatment pack contains the single device as well as a strap and clip to make the device easy to wear.

Additional improvements include longer electrode wires for larger, hard-to-reach wounds as well as indicator lights for troubleshooting during treatment.



# WHAT TO EXPECT WHEN USING ACCEL-HEAL



## APPLICATION IS SIMPLE

- Everything required to use the device is within the therapy pack
- A clip and strap is provided to support fastening and wearability.
- Application Guide and 'How to Use' videos are available on the website.

Please refer to instructions for use before commencing therapy.



# ACCEL-HEAL'S CLINICAL EVIDENCE

23 PUBLISHED ARTICLES INCLUDING 10 PAPERS AND 13 POSTERS, HAVE BEEN PUBLISHED

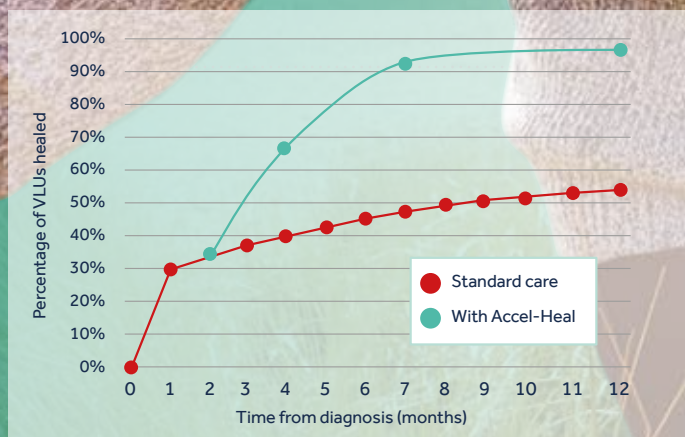
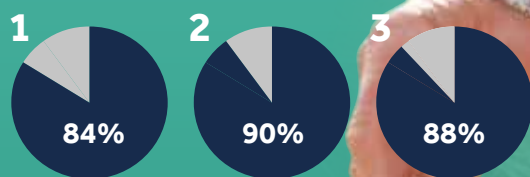
Including 2 double blind, placebo controlled RCTs:



ACCEL-HEAL HAS BEEN PROVEN TO...

- ✓ Achieve healing in between 84% and 90% of cases <sup>12,13,14</sup>
- ✓ Heal wounds faster than placebo (RCT) <sup>11</sup>
- ✓ Markedly reduce wound pain <sup>16,17</sup>
- ✓ Change gene expression, potentially reducing inflammation <sup>10</sup>
- ✓ Improve tolerance and adherence to compression therapy <sup>18</sup>
- ✓ Improve mobility and quality of life <sup>16,17</sup>

Three observational studies report a high proportion of healed wounds following treatment with Accel-Heal <sup>12,13,14</sup>

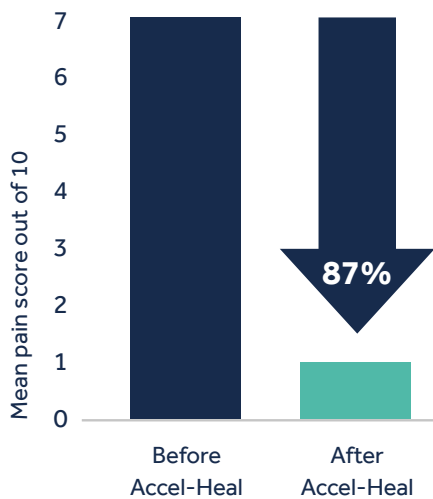


The results of these three observation studies indicate that incorporating Accel-Heal therapy into a care pathway for VLUs that were not progressing satisfactorily at 8 weeks would increase the % wound healing within 12 months from 53% to 97% <sup>13</sup>





## ACCEL-HEAL REDUCES PAIN



Pain has been reported to be markedly reduced within 2 weeks of treatment with Accel-Heal.<sup>15</sup>

Relief of pain enabled some patients to reduce their pain medication including:<sup>16,17</sup>



- Tramadol
- Gabapentin
- Morphine

## ACCEL-HEAL IS COST EFFECTIVE



The faster time to healing achieved with Accel-Heal can translate into cost savings.

In an RCT, the wounds that healed, did so **3.6 weeks faster** than wounds in the placebo group<sup>11</sup>

Accel-Heal + compression

2.6 months

Sham EST + compression

3.5 months

The faster healing time achieved with Accel-Heal could **save up to £936 per patient healed<sup>19</sup>**

Difference in healing time  
**3.6 weeks**



Average weekly cost of treating a venous leg ulcer in the UK<sup>21</sup>  
**£260**



Cost savings per patient  
**£936**

# POTENTIAL CANDIDATES FOR ACCEL-HEAL

**...HAVE A PAINFUL WOUND**



**...HAVE A STALLED WOUND**

**...ARE WORRIED ABOUT WOUND PAIN AND RELUCTANT TO TRY NEW TREATMENTS**

**...ARE FRUSTRATED WITH THE REDUCED MOBILITY LINKED WITH THEIR PAIN**

**...ARE AT HIGH-RISK OF INFECTION OR STALLED HEALING**

**...ARE INTOLERANT OF WOUND TREATMENTS BECAUSE OF WOUND PAIN**

## USERS OF ACCEL-HEAL SAY

*"When I first put the device on I was in absolutely excruciating pain and I just didn't know what to do. I was taking painkillers – they weren't doing anything. And then the device went on and day after day after day it was getting that little bit better."*

**MRS F, PATIENT USING ACCEL-HEAL**

*"Once it started to heal, it's just been racing. Every time the district nurses take off the dressings, they look at it and say 'wow, we're almost there'. They can't believe the difference and I can't believe the difference. My sleep is fantastically different now that the ulcer has healed and that it is no longer painful. I've gone from having to go twice a week to have my leg dressed to once a week and that in itself is a blessing because I'm not so confined to having to go out and do things."*

**MRS J, PATIENT USING ACCEL-HEAL**

*"Her pain diminished and, within days, the wound started to shrink and it was just great to see mum getting back into life and being happy."*

**RELATIVE OF PATIENT USING ACCEL-HEAL**

# SUMMARY

## THERE IS A WEALTH OF EVIDENCE THAT EST AND ACCEL-HEAL CAN BENEFIT HARD-TO-HEAL WOUNDS

### These benefits include:

- Early relief of pain<sup>15-17</sup>
- Reduced inflammation<sup>10</sup>
- Stimulation of the healing process<sup>11</sup>

### This leads to improvements in:

- Patient mood<sup>16,17</sup>
- Quality of life<sup>16,17</sup>
- Mobility<sup>16,17</sup>
- Tolerance of other gold standard treatments e.g. compression therapy<sup>18</sup>



✓  
EASY TO USE  
AND  
"OFF THE  
SHELF"

✓  
CAN BE USED  
ALONGSIDE  
STANDARD  
WOUND CARE

✓  
SUB-SENSORY  
MICROCURRENT  
EST - MINIMISES  
UNPLEASANT  
SENSATIONS<sup>3</sup>

✓  
EASY TO  
MANAGE AT  
HOME

✓  
COST  
EFFECTIVE

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**AccelHeal Solo**  
ELECTRICAL STIMULATION WOUND THERAPY

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VERSION 2, 7TH DECEMBER 2021

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ELECTRICAL STIMULATION WOUND THERAPY

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