

MONDAY 7TH MARCH, 7.30PM

Understanding the role of silver dressings in wound infection



Emeritus professor of medical microbiology & visiting professor







LIVE Q&A

SEND IN YOUR QUESTIONS BY COMMENTING ON THE VIDEO



WHY INFECTION IS AN IMPORTANT ISSUE IN WOUND CARE?

High prevalence:

 Infection is one of the most frequent complications of nonhealing wounds¹

Complications of wound infection:

- Delayed wound healing, patient anxiety, confusion and stress
- Hospitalisation, amputation and potentially death
- Delays in planned surgical interventions

Increased workload and emotionally draining for NHS staff



WHAT IS THE SILVER BEST PRACTICE STATEMENT?

Authored by a panellaunched at Wov

- An overview of s and dispels mytl and their use with
- Introduces the T Local Infections
- Provides guidan appropriate use practice.

EXPERT WORKING GROUP:

- Jacqui Fletcher (Chair), Independent Consultant
- Leanne Atkin, Vascular Nurse Consultant, Mid Yorks NHS Trust; Lecturer Practitioner, University of Huddersfield
- Val Edwards-Jones, Professor Emeritus of Medical Microbiology, Manchester Metropolitan University, and Institute of Skin Integrity and Infection Prevention, University of Huddersfield
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REVIEWER:

■ Claire Acton, Head of Tissue Viability, Kent Community Health NHS Foundation Trust



Best Practice Statement

Use of silver dressings in wound care



The role of silver

Myths and truths

Identification of infection with the TILI score

Managing bioburden



WHAT WAS THE NEED FOR A SILVER BEST PRACTICE STATEMENT?

Confusion & misconceptions around silver

• highlighted the need for clear guidance.

Lack of knowledge & confidence

 contributed to patients not receiving appropriate, timely treatment with silver dressings.

Crucially, cultural change is required

• wound care needs to focus on healing wounds, rather than managing wounds.

The 'two-week challenge' approach

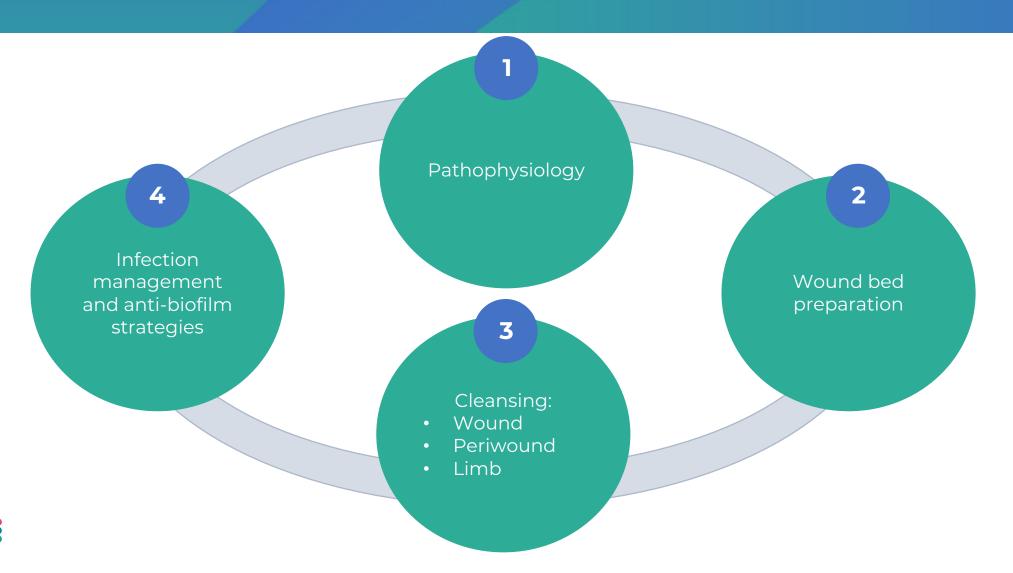
in some cases, treatment with silver has been stopped prematurely.







FOUR CORNERSTONES OF TREATMENT







NOT ALL SILVER DRESSINGS ARE THE SAME!

Carrier dressing is important

 exudate handling, adhesion, and dressing materials, cleaning action of fibres.

Available in a number of different forms and amounts vary considerably

 (e.g. elemental silver, an inorganic/organic compound such as silver oxide/silver alginate).

The active component is the silver ion Ag+.

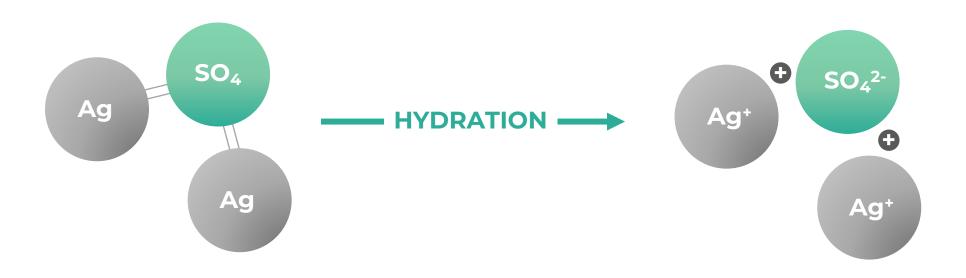
Cleaning action is also important within a dressing and not just silver

• facilitates continuous removal of biofilm, slough and exudate.





NOT ALL SILVER DRESSINGS ARE THE SAME!



Silver dressings should be selected based on holistic assessment of the patient and their wound.





SILVER BEST PRACTICE STATEMENT – MYTHS AND TRUTHS

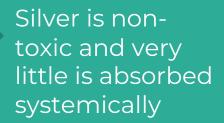


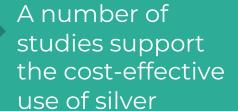
Silver dressings cause systemic toxic effects

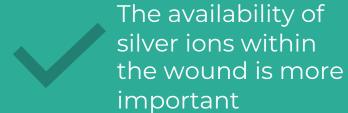


Silver is not costeffective











The levels of silver in the dressing are important





CHALLENGES IN DIAGNOSING WOUND INFECTION

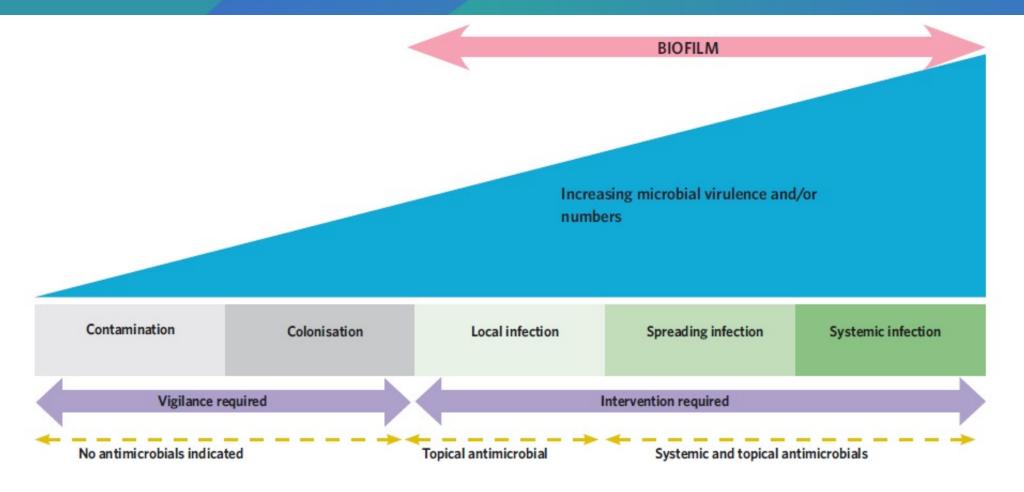
Identifying local infection in chronic wounds may be difficult.

Clinicians needed to rely on other signs and symptoms and there was no consensus on which signs to use **UNTIL NOW!**





CHALLENGES IN DIAGNOSING WOUND INFECTION

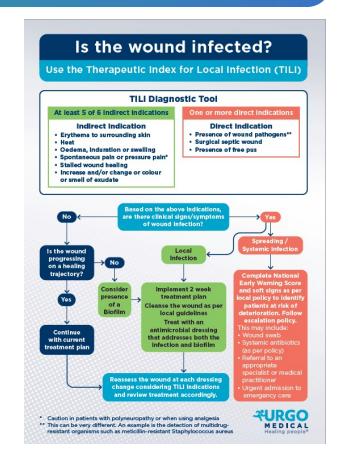






TILI SCORE SUPPORTS EFFECTIVE DIAGNOSIS

- An evidence-based framework
- Validated and found to be suitable for use²
- Prioritises early intervention as part of an antimicrobial stewardship (AMS)focused approach to wound care
- Assessment, identification and early intervention a priority in all patients with (potential) wound infections.



Pathway for use of the TILI score in practice

TILI DIAGNO

At least 5 of 6 ind

Indirect Ir

- Erythema to surro
- Heat
- Oedema, indurati
- Spontaneous pair
- Stalled wound he
- Increase and/or c or smell of exudat

There are also health cond therapy:

- Presence of wound pat
- Presence of free pus
- Cases of post-surgical v

Is the wound infected?

Use the Therapeutic Index for Local Infection (TILI)

TILI Diagnostic Tool

At least 5 of 6 Indirect Indications

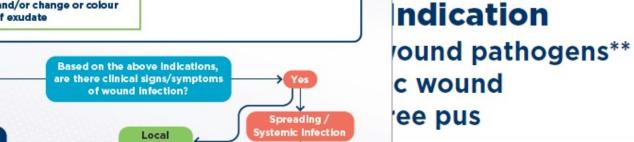
Indirect Indication

- Ervthema to surrounding skin
- Heat
- Oedema, induration or swelling
- Spontaneous pain or pressure pain*
- Stalled wound healing
- Increase and/or change or colour or smell of exudate

One or more direct indications

Direct Indication

- Presence of wound pathogens**
- Surgical septic wound
- · Presence of free pus



r antimicrobial wound

lirect indications

Staphylococcus aureus ‡



change considering TILI indications

and review treatment accordingly.

- Caution in patients with polyneuropathy or when using analgesia
- ** This can be very different. An example is the detection of multidrugresistant organisms such as meticillin-resistant Staphylococcus aureus



Urgent admission to

emergency care

EXAMPLE – HOW TO CALCULATE THE TILI SCORE

Clinical case example: 21-year-old male referred to community nursing with category 4 pressure ulcer on the spine.

The wound had deteriorated and increased in size for one week. The secondary dressing was saturated with **exudate** and the patient did not feel well and was concerned by increasing **odour**, **heat and pain**.





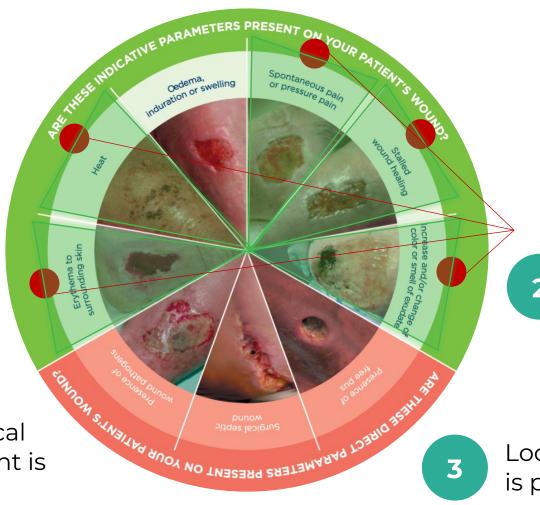


EXAMPLE – HOW TO CALCULATE THE TILI SCORE

Turn the wheel and count the number of parameters present on the wound of the patient.



Immediate use of a local antimicrobial treatment is recommended.





5 of 6 indirect indicators are present for this patient's wound.

Local infection is present.

THE SILVER TOOLKIT

WUK BPS

Best Practice Statement

Use of silver dressings in wound care



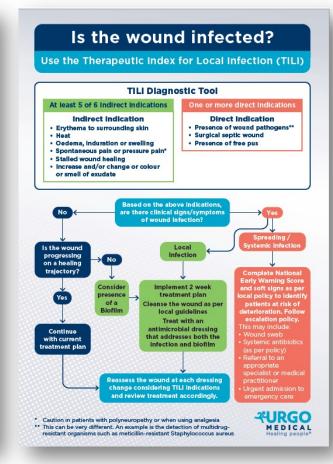
The role of silver

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Woundsuk





ntroduction

Infection is an important and common complication in wound care and can develop in any wound type. Clinicians involved in wound care need to be able to accurately assess and identify symptoms of wound infection. Early intervention should be carried out according to evidence-based best practice within a structured framework to standardies care (Wounds UK, 2021). This Made Easy will introduce the Therapeutic index for Local Infections (TILI) score, a diagnostic tool designed to facilistic identification and decision-making around infection for staff of all levels (Dissennod et al.) 2020a.

Authors: Val Edwards-Jones, Jeanette Milne and Andrew Sharpe (details on page 4)

Overview of wound infection

Wound infection is the result of microbial invasion of soft tissue and can amnifeld in a surfew ounds; you, has surgical, traumatic and burns; and chronic wounds of all types, but predominantly of venous, arterial, diabetic and pressure aetiologies (international Wound Infection institute [9/10], 2016; Infection can cause increased patient morbidity, anviety and distress, and is associated with delayed healing and increased healthcare costs (Cutting, 2016).

Real world evidence has shown that an estimated 3.8 million patients with a wound were managed by the NS in 2017/2018 of which 89% of acute wounds and 49% of chronic wounds healed in the study year (Guest et al., 2020). The healing rate of chronic wounds was also estimated 59% healed if there was no evidence of infection, compared with 45% if there was a definition suspected infection (Guest et al. 2020). This evidence this plaights the substantial burden of wounds, but also the importance of preventing wound infection.

Historically, wound swibs are taken to aid diagnosis of local wound infection, and entitlesize, are frequently prescribed. Whereas in acute wounds, this is the cornect approach, in chronic wounds, where a belieff man exist in up to 98% wounds plationer et al, 2017, a wound swib often does not identify any clear pathogen and artiblistics are not beneficial. A fidtheren approach to diagnosis and treatment may be needed with the threat of antimicrobial resistance (AMI) domain, accurate clinical diagnosis of local wound infection at the point of care in essential, so that use of antibiotics can be reduced and appropriate forces from the care of an extra plant of the care of

Importance of an AMS-informed approach

AMR is a global health issue that threatens the effective prevention and treatment of infection and cours when bacteria, viruse, fungl, and parasite evolve over time and no longer respond to specific antimicrobials proposed antimicrobials reven to any antimicrobial antimicrobial strengy fetcher et al. 2009; WHO, 2000, Vertimicrobial is an unbrealla term that nuclea antibiotics, surplessings, disinfectents, and other agents, such as antivirus, antifungal, antibiotacerial and antiparasitic medicines (Wunds UN, 2002).

All infection treatment should therefore take an approach informed by antimicrobial stewardship (AMS), which includes infection prevention and avoiding the misuse or overuse of antimicrobials. Adopting such an approach requires a systemic change in behaviour through increased public awareness and education (Wounds UK, 2021).

Early intervention and judicious use of antimicrobial dressings can help to form part of an AMS-informed approach, by managing infection locally and using antiseptic agents over systemic antibiotics wherever possible (Wounds UK, 2021).

Risk factors and signs and symptoms of wound infection

In dealing with wound infection, it is important for clinicians to understand the risk factors, and the signs and symptoms, as this can assist with identifying infection and early intervention. Characteristics of both the inclinidual, their wound and the wound environment can contribute to the development of infection (IVIII, 2016) and, in most cases, infection occurs when cumulative risk factors covervielled in the host's defense pastem (XOOI et al. 2013).

For healty individuals with an acute wound, an experienced chincian will offen identify overtispin of Infection easily, such as pundent discharge, enythern and owelling, local warmth, increasing mandodur and new or increasing pain (Mill, 2016). However, in immunocompromised individuals and those with chronic wounds, subtle or covert signs of infection may exist and must be desired to detect infection (MII, 2016). But I lists the covert signs of wound infection to consider.

Box 1. Covert signs of infection (adapted from IWII, 201

Friable, bright red granulation tissue
Increased malodour

New/increased pain or change in sensation
 Epithelial bridging, and pocketing in granulation tissu

■ Wound breakdown and enlargement or new ulcerations of the periwound

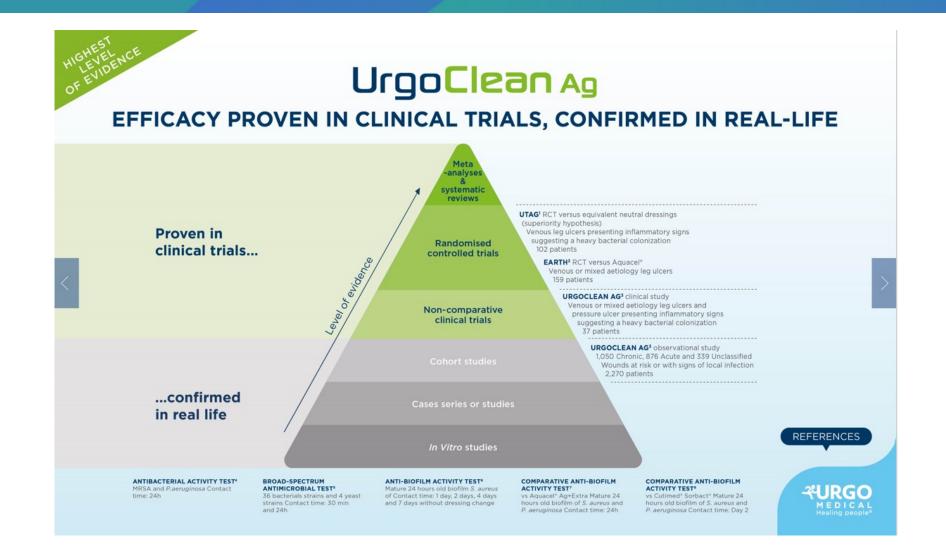
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THE CLINICAL EVIDENCE

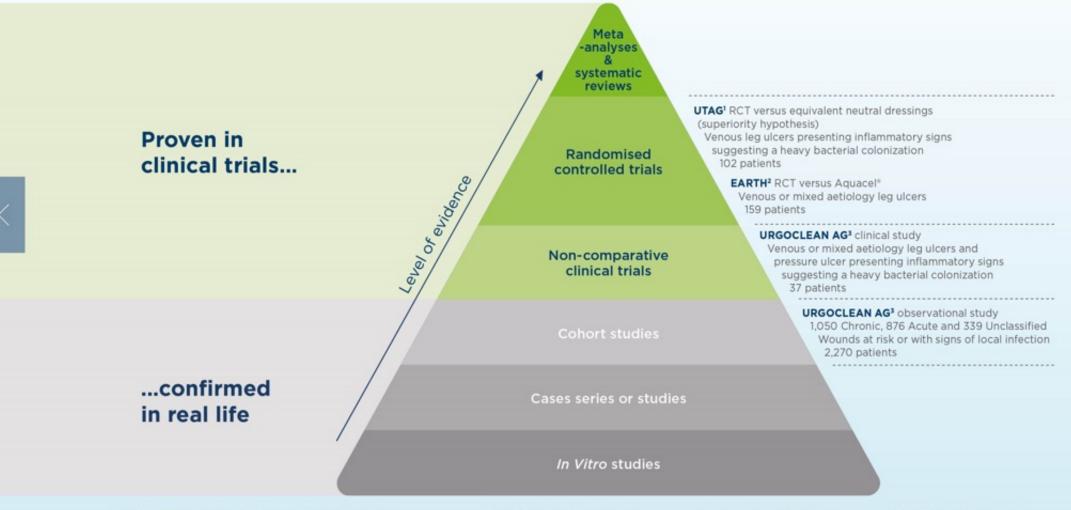






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How do we change mindsets regarding the myths around silver dressings and ensure appropriate usage?





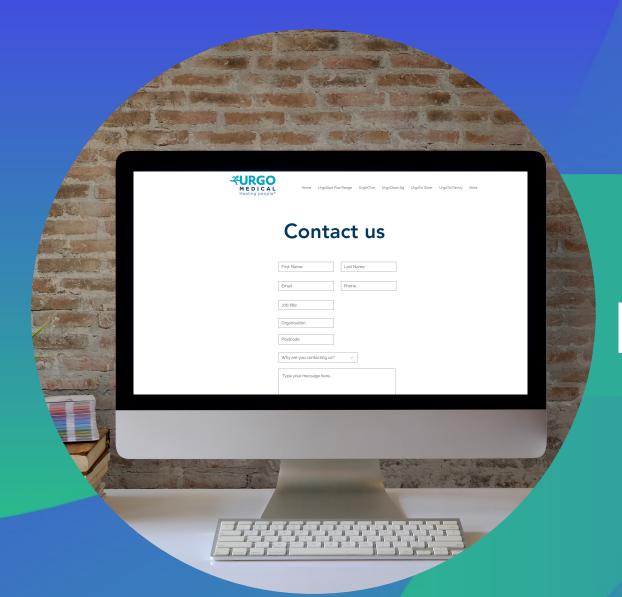
HOW DO WE SHAPE THE FUTURE AND CHANGE MINDSETS?

- Education and communication
- Early intervention
- Needs of the individual patient continually reassess their wounds









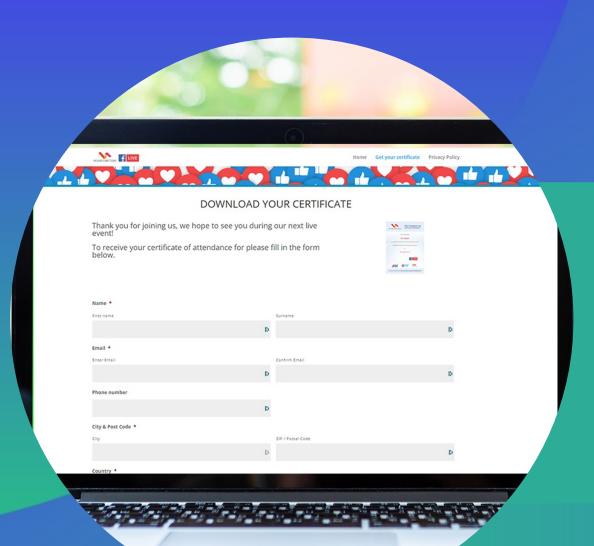
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