LIVE ON FACEBOOK

DEMYSTIFYING INFECTION
AND BIOFILM MANAGEMENT:
A SIMPLE APPROACH TO A
COMPLEX TOPIC

16 B 7:30 PM







Demystifying infection and biofilm management: a simple approach to a complex topic

Agenda for this session

- A brief introduction to infection and biofilm
 - Correct and timely diagnosis of wound infection
 - Biofilm as a barrier to effective antimicrobial treatment and wound healing
- A simple approach to effective infection and biofilm management
 - Actions to consider for an effective infection and biofilm management strategy
- Pain and harm-free care for patients with infected wounds





Impact of wound infection

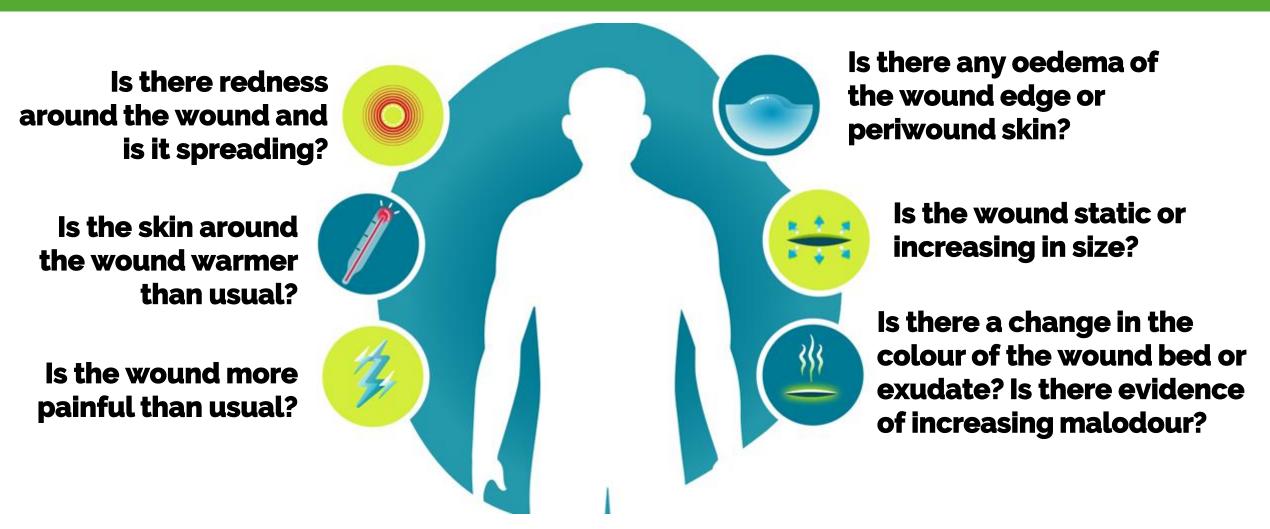
Infection is one of the most frequent complications of non-healing wounds

- Delayed wound healing, patient stress, confusion, anxiety, poor mental and physical well-being
- Hospitalisation, amputation, sepsis and potential death
- Delays in planned surgical interventions
- · Increased workload and emotionally draining for the clinician
- Increased cost for the healthcare system





Signs and symptoms of wound infection



Brief introduction to wound infection

Topical Systemic and topical antimicrobials antimicrobials No antimicrobials indicated Biofilm Increase in microbial load Spreading Local **Systematic** Contamination Colonization Infection Infection Infection Vigilance required Intervention required



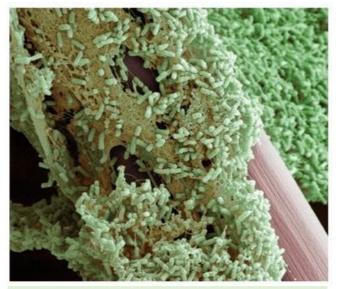


Biofilm and its role in the environment

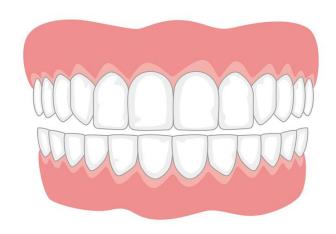
99.9% of organisms prefer attachment (biofilm) vs. free floating (planktonic)



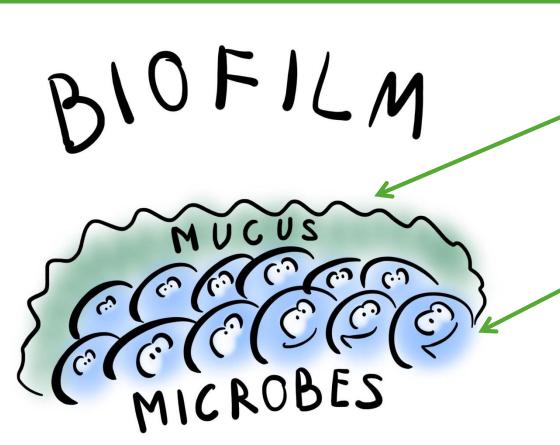
Biofilm on a toothbrush bristle



Biofilm on a toothbrush bristle (higher magnification)



Brief introduction to biofilm



Thick, slimy mucus acting like a protective shield for the microorganisms

- Structured, attached community of microorganisms
- Even when disrupted, biofilm fully reoccurs within 24-48 hours
- Not visible to the naked eye





Biofilm can be a barrier to effective infection management and wound healing

Biofilm is present in more than 80% of infected wounds

Delay wound healing by acting as a physical barrier to re-epithelialisation Stimulate inflammation, which increases production of wound exudate and the build up of slough

Limit the penetration of antimicrobial agents

Support microorganism attachment to the wound surface

Biofilm may be found in: wound exudate, wound bed, slough, necrotic tissue, etc.

A simple approach to effective infection and biofilm management





A simple approach to effective infection and biofilm management

Antimicrobials are not all the same, but infection and biofilm management can be easy and effective with the right approach

1

Safely restore the balance in the wound by reducing the microbial load

2

Clean the wound from slough, exudate, microbes and biofilm that may favour infection development and limit the antimicrobial action

3

Disrupt,
remove
biofilm and
limit
reattachment

Safely restore the balance in the wound by reducing the microbial load





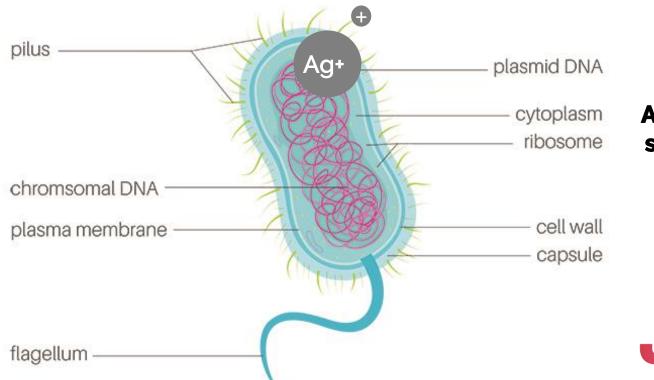
Safely restore the balance in the wound by reducing the microbial load

Silver

- Broad spectrum activity
 - Very long history of safe use
 - Effective at low concentrations
- Microbial resistance is rare (compared with antibiotics)



The activated silver ion penetrates the cell wall, attacks the microbial DNA leading to cell death





Activated silver ion



Safely restore the balance in the wound by reducing the microbial load

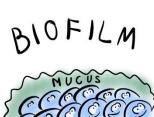
Does a higher concentration of silver, in an antimicrobial dressing, mean faster antimicrobial action?

Effective delivery of silver ions into the wound depends on:

How clean the wound is?









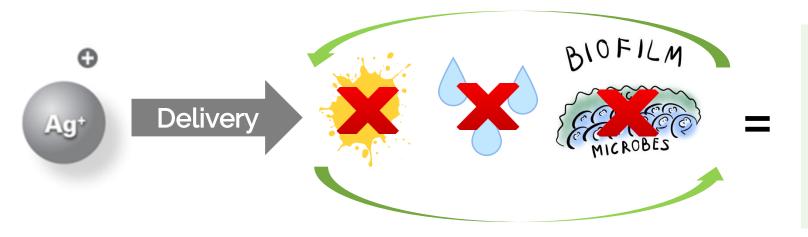




Safely restore the balance in the wound by removing the barriers



If barriers are not removed, there won't be an effective reduction of the microbial load in the wound



Continuous cleaning action, for the duration of treatment, is required for effective reduction of the microbial load in the wound





Continuous wound cleaning for effective infection and biofilm management





Why is wound cleaning an important aspect of effective infection and biofilm management?

- Reduces the bioburden in the wound more effectively
- Facilitates effective action of silver ions(Ag+)
 - by disrupting biofilm mucus and allowing silver ions (Ag+) to penetrate the biofilm and kill the microorganisms
 - by removing all barriers (microorganisms, biofilm, slough, exudate, etc) and exposing the wound bed directly to antimicrobial agents





Continuous wound cleaning for effective infection and biofilm management



Autolytic debridement is safe, doesn't need special training to perform and is pain-free for the patient

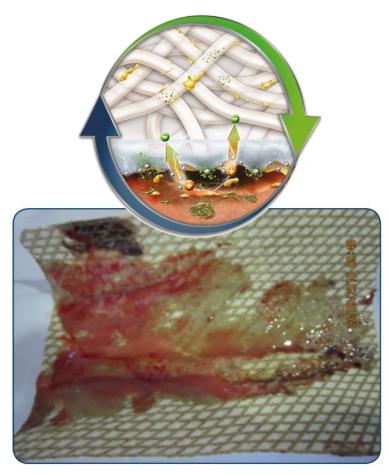




Continuous wound cleaning for effective infection and biofilm management

UrgoClean Ag



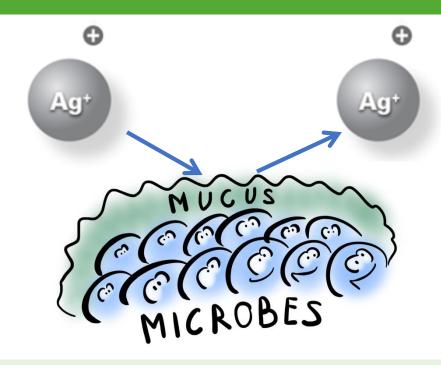


Simple, one-step approach

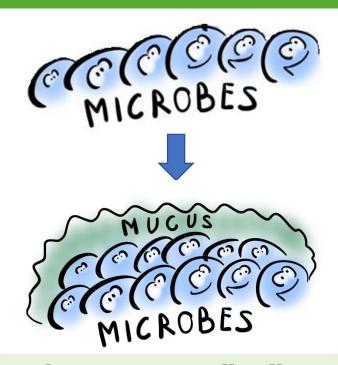








Biofilms act like a shield against silver ions and limit the action of an antimicrobial



Even when temporarily disrupted, biofilms fully recover in 24-48 hours





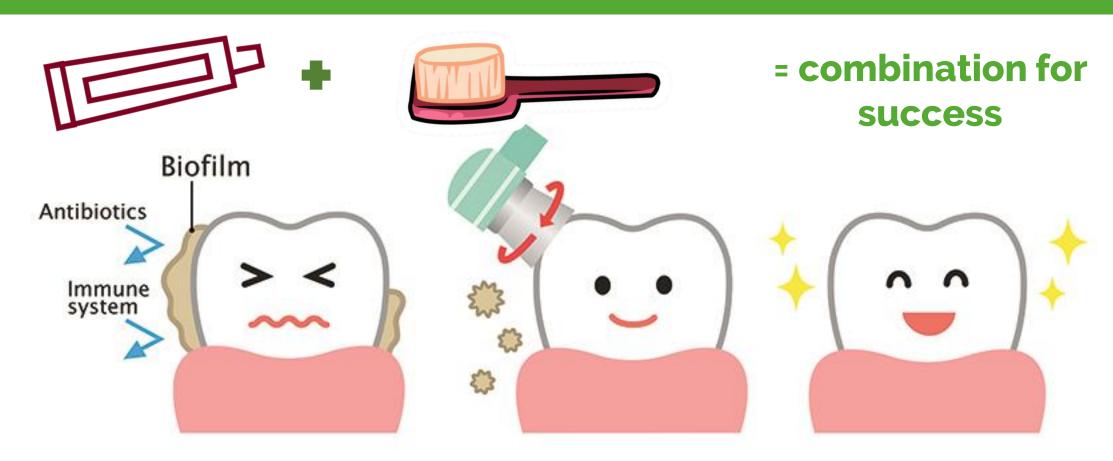
The right approach for effective biofilm management should include:

Cleaning action to break the biofilm mucus and allow the silver ions inside Continuous
cleaning and
antimicrobial action
prevent biofilm
reattachment

Broad spectrum antimicrobial action to destroy the microbes within the biofilm











The only silver dressing with combined cleaning and antimicrobial action



Continuous cleaning action to remove slough, exudate, debris and microbes

Silver combined with cleaning action to effectively disrupt, remove biofilms and prevent reattachment





UrgoClean Ag: real-life clinical evidence



Use of a TLC-Ag dressing on 2270 patients with wounds at risk or with signs of local infection: an observational study

> "Youchin Dissessord" HD, Michael Dietkin, FMD, Ingo Nelsele FMD, Lieft Trafte, "MD: Other Scheuermann," MD, Ether Sacker," Laettis Thomassin," PMD: Odo Möter," PMD: Sorge Sightor," MD, Kart-Claristian Michael "MD.

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Efficacy proven in real-life study with more than 2000 patients, including 77 patients under the age of 18

90.6% of the wounds treated demonstrated improvement of the healing process

Effective on all types of infected wounds

High antimicrobial efficacy and good restoration of the healing process, regardless of the level of slough and exudate in the wound





UrgoClean Ag in clinical practice





UrgoClean Ag in clinical practice











UrgoClean Ag in clinical practice











Pain and harm-free care for patients with infected wounds





Pain and harm-free care for patients with infected wounds



- Wound infection affects patients' mental and physical well-being
- Patients with an infected wound often experience pain and discomfort

To provide pain and harm-free care to your patients

- Select an antimicrobial dressings which:
 - Causes no pain at dressing changes
 - Does not damage newly formed tissue
 - Does not adhere to the wound bed
 - Protects the surrounding skin

Summary

- A brief introduction to infection and biofilm
 - Correct and timely diagnosis of wound infection
 - Biofilm as a barrier to effective antimicrobial treatment and wound healing
- Continuous cleaning action, combined with antimicrobial action is required for effective infection and biofilm management
- Pain and harm-free care for patients with infected wounds is essential to reduce stress, anxiety and improve patient outcomes and quality of life





More information

To find out more about UrgoClean Ag or to request a free sample, please contact Urgo Medical via their website: www.urgostartplus.co.uk/contact-us



Thank you





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