



Permafoam® from HARTMANN

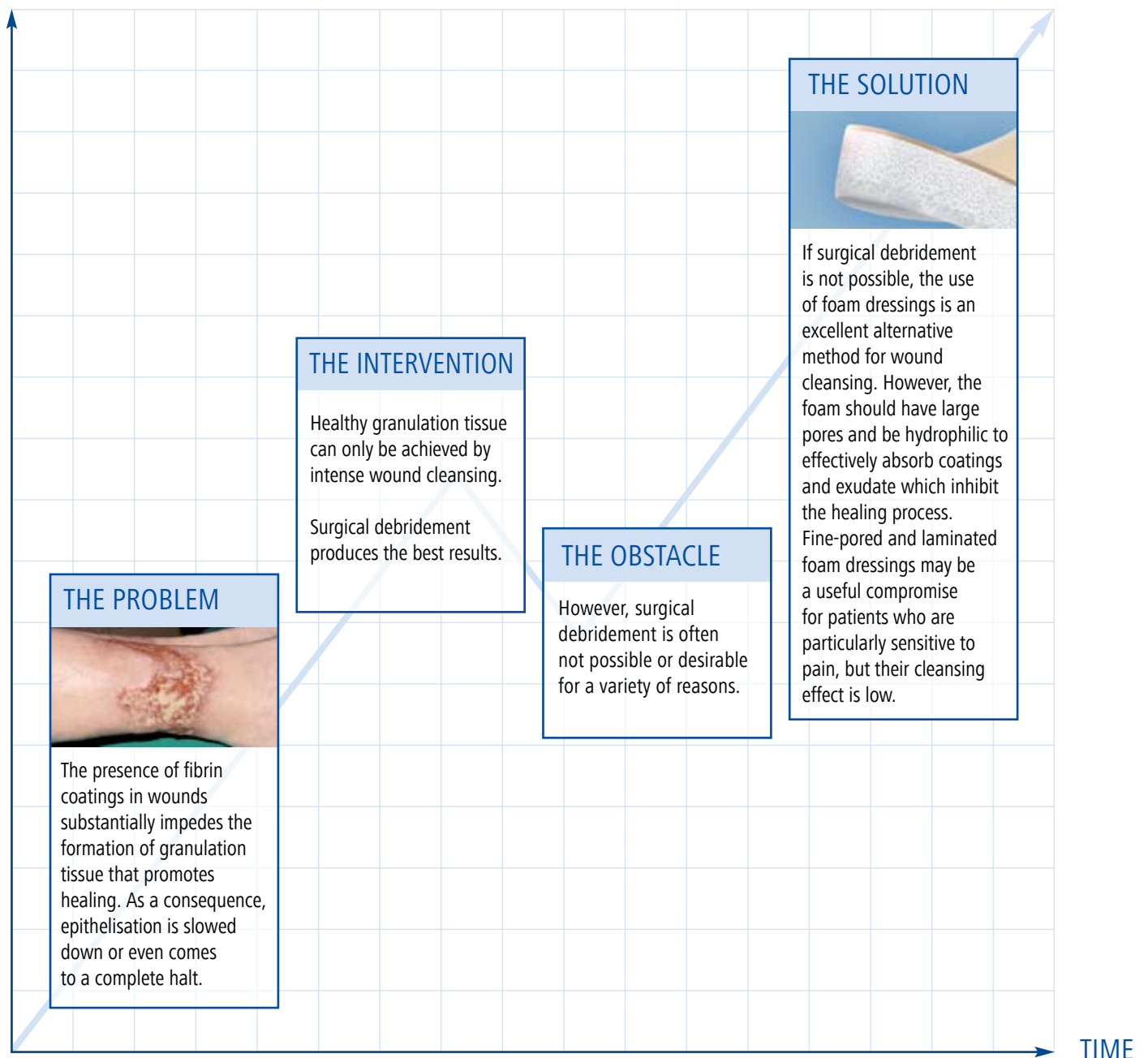
For quick and effective wound cleansing



Quick and effective wound cleansing

With Permafoam[®] from HARTMANN

WOUND HEALING



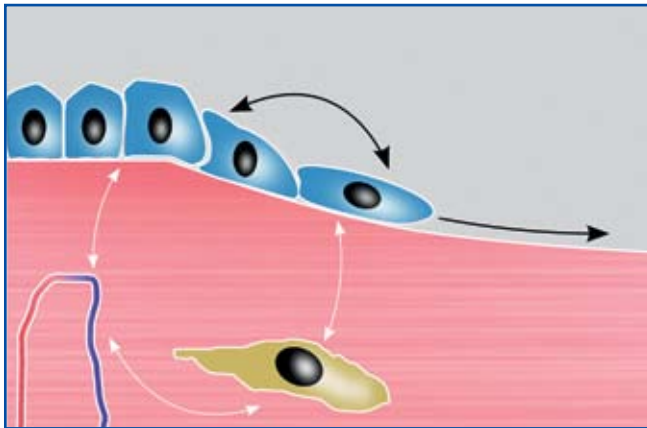
Wounds need time to heal. This process can be accelerated as well as inhibited. See the diagram for what can be done to promote successful wound healing.

The clever choice:

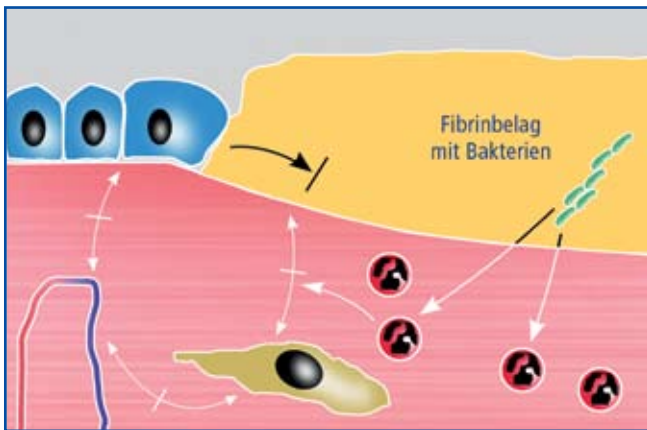
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THE PROBLEM

The presence of fibrin coatings and bacteria substantially impedes epithelialisation, the decisive step in the wound healing process. There is currently no causal treatment that can trigger or regulate wound closure. In fact, treatment with hydroactive wound dressings can promote and, to a certain extent, accelerate healing, but they cannot trigger the process. This means that epithelialisation depends crucially on the presence of clean and healthy granulation tissue.



Fibrin coating is not a physical barrier for keratinocytes. The bacteria it contains also attract granulocytes, producing inflammation or preventing existing inflammation from healing. This interferes with the wound healing process and blocks fibroblasts, which normally produce replacement tissue and are thus involved in regulating epithelialisation.



The proper function of the wound healing process depends on a cleansed wound. Granulation tissue is formed and epithelialisation can progress.



Source:

- Loryman C., Mansbridge J.: Inhibition of keratinocyte migration by lipopolysaccharide. Wound Repair Regen. 2008 16: 45-51
- Kubo M., Van de Water L., Plantefaber L.C., Mosesson M.W., Simon M., Tonnesen M.G., Taichman L., Clark R.A.: Fibrinogen and fibrin are antiadhesive for keratinocytes: a mechanism for fibrin eschar slough during wound repair. J Invest Dermatol. 2001 117:1369-1381

THE INTERVENTION



Intense wound cleansing is a requirement for epithelialisation, as this stage of the wound healing process depends on the presence of clean and healthy granulation tissue. It has been demonstrated that regular surgical debridement produces the best results. The high efficiency of this method is based on the quick removal of wound healing-inhibiting factors, such as dead tissue and coatings.

THE OBSTACLE

There are a variety of reasons why surgical debridement may not be an option in many cases. One reason may simply be that no adequately trained and experienced medical staff are available, or patients experience excessive pain despite appropriate treatment. There are also many other reasons why surgical debridement may not be feasible, causing numerous wounds not to be given optimum treatment.

THE SOLUTION



Foam wound dressings may also effectively promote wound healing: They remove fibrin coatings and bacteria because of their high absorption capacity. They keep the wound moist and they do not need to be changed daily.

However, there is a wide choice of different foam wound dressings, and these differ fundamentally in some of their properties:

Some are an excellent choice for wound cleansing, while others fail almost immediately in this indication. As both product groups are considered together under the heading 'foam wound dressings' they are frequently used in indications for which they have not been perfectly matched.

Fine-pored or laminated dressings are less suitable for wound cleansing because they have low or no absorption capacity for coatings and viscous exudate. When changing the dressing, such wound dressings are removed without detaching any coatings, thus minimising the cleansing effect. In patients who are very pain sensitive it may be advisable to accept a longer wound healing phase as a result of inadequate wound cleansing. Such fine pored/laminated dressings can be easily removed from the wound smoothly and without causing any pain. In most cases however, efficient wound cleansing would be the preferred solution.

The Result:

Effective wound cleansing even in problematic wounds

With Permafoam[®] from HARTMANN

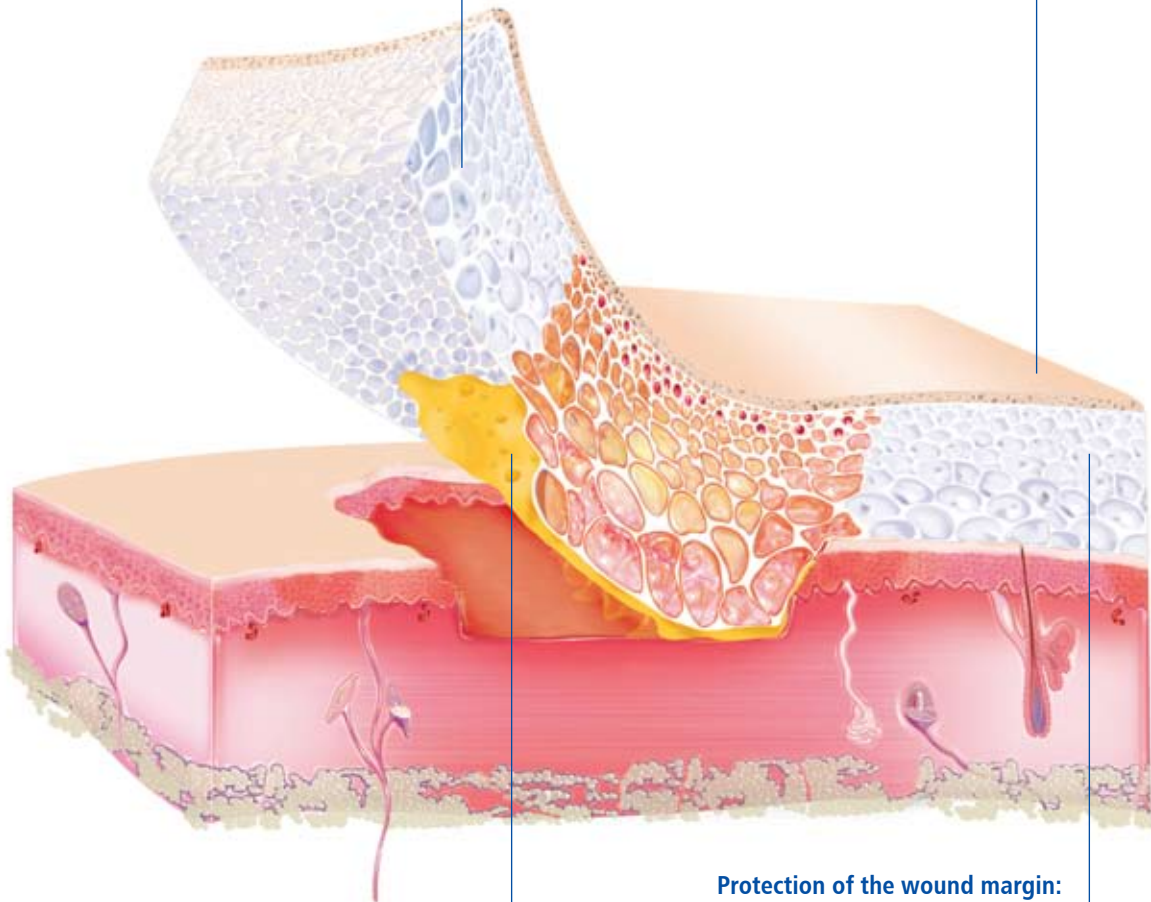
PermaFoam from HARTMANN is a large-pored hydrophilic foam wound dressing that cleanses wounds quickly and effectively. The fibrin coatings of the wound are absorbed and retained along with exudate and solid materials (such as cell debris). Upon dressing change, the wound is cleansed, granulation stimulated and epithelialisation is indirectly promoted. PermaFoam is therefore suitable for the treatment of moderately to severely exuding wounds, requiring removal of coatings and other factors that impair wound healing.

Quick, effective cleansing:

The particularly large pores of the foam structure allow PermaFoam to absorb even solid, insoluble materials as well as coatings and viscous exudate from the wound. Even problematic wounds where fine-pored and laminated dressings usually fail can be cleansed quickly and effectively.

High economic efficiency:

The absorption capacity of PermaFoam is remarkably high. Supported by the water vapour permeability of the top layer, the dressing can remain on the wound for several days even in the presence of severe exudation, saving time and money.



Prevention against infection:

PermaFoam perfectly adapts to the shape of the wound, expanding towards the wound as it absorbs exudate. This ensures contact with the wound bed and permanent drainage of exudate, which reliably prevents the formation of wet chambers where bacteria might multiply and spread.

Protection of the wound margin:

The high absorption capacity and particular pore structure of Permafoam ensures that the wound margin is largely protected from contact with exudate. The hydrophilic foam material of Permafoam absorbs wound exudate very rapidly. It's pore structure primarily absorbs in the vertical direction to pass exudate beneath the top layer.

The particular foam structure of PermaFoam enables effective wound cleansing even in problematic wounds. The dressing prevents the formation of wet chambers and hence the development of infection, protects the wound margin, and is remarkably economical as an added benefit.



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Presentations	Size	Units per box	Ref. Number	Boxes per case	NHS Code	PIP Code
Permafoam®	ø 6cm	10	409 427	6		315 6072
Hydroactive foam dressing	10 x 10 cm	10	409 401	6		306 7865
with a polyurethane backing	10 x 20 cm	5	409 403	6		306 7873
	15 x 15 cm	5	409 405	6		306 7881
	20 x 20 cm	3	409 406	6	ELA 232	306 7899
Permafoam® comfort	8 x 8 cm	10	409 428	6	ELA 267	315 6080
self-adhesive	11 x 11 cm	10	409 408	6		306 7907
	10 x 20 cm	5	409 410	6		306 7915
	15 x 15 cm	5	409 412	6	ELA 227	306 7923
Permafoam® sacral	18 x 18 cm	3	409 422	6	ELA 261	315 6114
	22 x 22 cm	3	409 423	6		315 6122
Permafoam® concave	16.5 x 18 cm	3	409 424	6	ELA 263	315 6106
Permafoam® cavity	10 x 10 cm	3	409 425	12	ELA 264	315 6064
Permafoam® tracheostomy	8 x 8 cm	10	409 426	6	ELA 266	315 6130