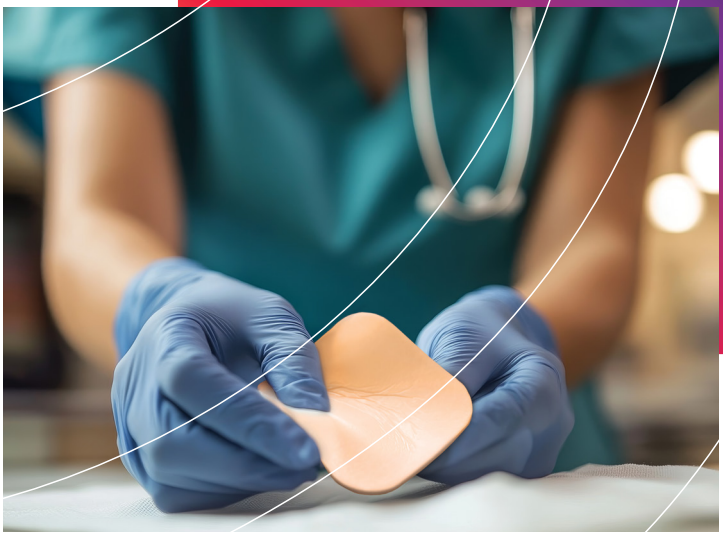


Enhancing Patient Care

Wound Management Brochure

GBUK
WOUND MANAGEMENT

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GBUK Group

Our mission statement

GBUK, all subsidiaries and divisions are committed to improving patient outcomes and quality of life by delivering innovative, reliable, and easily accessible medical devices that empower healthcare professionals and serve global communities. As a trusted industry leader, we are committed to upholding the highest standards of regulatory compliance, ensuring safety and reliability in every product we offer, while creating lasting value for our customers and partners worldwide.

GBUK designs, develops and distributes millions of medical devices across multiple therapy areas including wound management, enteral feeding and patient handling. We are proud to be a top 20 supplier to the NHS, as well as supporting healthcare professionals and patients across the globe.



Our products are backed by comprehensive support, training and expert clinical teams.

We are MDD and MDR compliant and hold ISO13485 Quality management system and ISO14001 Environmental management system.

GBUK
WOUND MANAGEMENT

Wound Care

Wound Care

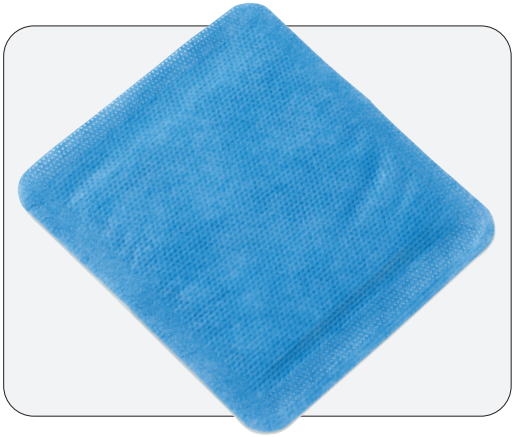
GBUK
WOUND MANAGEMENT

Dressings

Dressings

GBUK Silicone Super Absorbent Dressing

Combining advanced polymer technology with the gentle properties of silicone.
Designed to handle heavily exuding wounds, effectively locking in fluid and reducing the risk of maceration.



For use with:

- Heavily exuding wounds
- Chronic wounds such as pressure ulcers, diabetic foot ulcers and leg ulcers
- Surgical wounds with high exudate levels

Features and benefits:

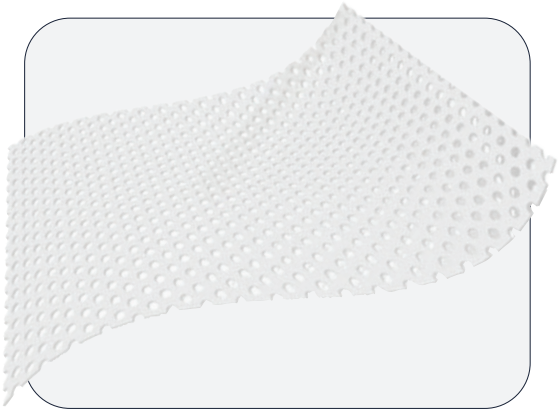
- **High absorption capacity** locks in exudate and reduces maceration
- **Super absorbent polymer (SAP) core layer** forms a gel when in contact with exudate. Provides large capacity with rapid fluid uptake
- **Retention properties** keep fluid away from the wound, even under compression
- **Gentle silicone adhesive** protects peri-wound skin, aids application and secure placement
- **Water resistant barrier backing layer** prevents strike-through
- **Soft silicone wound contact layer** reduces risk of pain and skin trauma at dressing change

Ultra high absorbency

Size	Description	UOI	Product Code	NHSSC	PIP Code
10 x 10cm	Super Absorber with Silicone Adhesive	10	**SASB1010**	**EJA85150**	**438-3147**
10 x 20cm	Super Absorber with Silicone Adhesive	10	**SASB1020**	N/A	**438-1323**
20 x 20cm	Super Absorber with Silicone Adhesive	10	**SASB2020**	**EJA85151**	**438-1331**
20 x 30cm	Super Absorber with Silicone Adhesive	10	**SASB2030**	N/A	N/A

GBUK Silicone Wound Contact Layer

Providing an ideal interface between wound and secondary dressing.



For use with:

- Fragile or sensitive skin
- Skin grafts and donor sites
- Partial-thickness burns
- Can be used under compression

Features and benefits:

- Double sided silicone coated to ensure appropriate application
- Atraumatic removal protects granulating and fragile tissue, minimising pain during dressing changes
- Open mesh design allows free passage of exudate to a secondary dressing
- Soft and flexible, adapts to wound contours for maximum comfort
- Minimises adhesion to wound bed, promotes healing without disrupting tissue
- 14 day wear time
- Secondary dressing can be removed/changed without removing the silicone layer
- Allows wound inspection
- Can be cut to shape/size

Size	Description	UOI	Product Code	NHSSC	PIP Code
5 x 7.5cm	GBUK Silicone Wound Contact Layer	10	**SWCD05075**	**EKH85066**	**441-9487**
7.5 x 10cm	GBUK Silicone Wound Contact Layer	10	**SWCD07510**	**EKH85065**	N/A
10 x 10cm	GBUK Silicone Wound Contact Layer	10	**SWCD1010**	**EKH85061**	**441-9495**
10 x 20cm	GBUK Silicone Wound Contact Layer	10	**SWCD1020**	**EKH85062**	**441-9503**
12 x 15cm	GBUK Silicone Wound Contact Layer	10	**SWCD1215**	**EKH85063**	N/A
20 x 30cm	GBUK Silicone Wound Contact Layer	10	**SWCD2030**	**EKH85064**	N/A

GBUK Non Adhesive Foam Dressing

Constructed from soft, highly absorbent polyurethane foam.
Suitable for a wide range of wound types.



For use with:

- Light to moderate exuding wounds
- Venous leg ulcers
- Pressure ulcers
- Post-operative wounds
- Traumatic wounds, including abrasions and lacerations
- Pre cut available to fit tracheostomy or drain sites

Features and benefits:

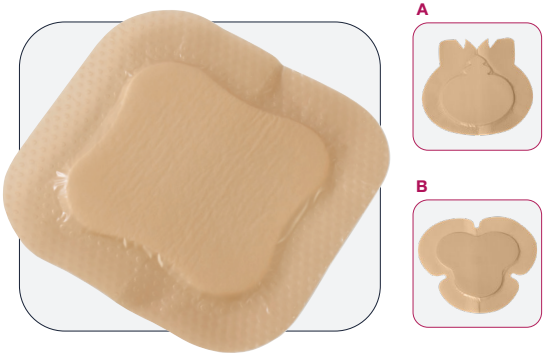
- Absorbent foam core to effectively manage exudate and reduce the risk of maceration
- Can be used with compression therapy
- Non adherent surface to minimise trauma to the wound bed during dressing changes
- Flexible and conformable ensuring a comfortable fit, even over contoured areas
- Breathable outer layer allows moisture vapour transfer to maintain an optimal healing environment
- Can be cut to size for optimal fit in difficult to dress areas of the body
- Wear time 7 days

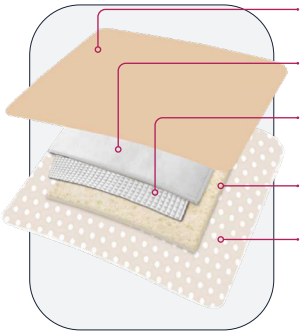
High absorbency

Size	Description	UOI	Product Code	NHSSC	PIP Code
5 x 5cm	Non Adhesive Foam Dressing	10	**F0505**	N/A	**438-8039**
7.5 x 7.5cm	Non Adhesive Foam Dressing	10	**F075075**	**ELA85418**	N/A
10 x 10cm	Non Adhesive Foam Dressing	10	**F1010**	**ELA85402**	**438-8047**
12.5 x 12.5cm	Non Adhesive Foam Dressing	10	**F125125**	**ELA85406**	N/A
15 x 15cm	Non Adhesive Foam Dressing	10	**F1515**	**ELA85405**	N/A
10 x 20cm	Non Adhesive Foam Dressing	10	**F1020**	**ELA85407**	**438-8054**
20 x 20cm	Non Adhesive Foam Dressing	10	**F2020**	**ELA85409**	N/A
8.8 x 8.8cm	Tracheostomy Foam Dressing	10	**FT088088**	**ELA85408**	N/A

GBUK Silicone Bordered Foam Dressing

A five-layer bordered foam dressing with super absorbent particles (SAP) for enhanced absorption and retention, plus gentle silicone adhesive to protect fragile skin and support wound healing.





Highly breathable film
Acts as a waterproof secure barrier to bacteria

Super absorbent layer
Absorbs and retains exudate, minimizing the risk of maceration

Non woven layer
Directs fluid and exudate into the super absorbent layer, facilitating an optimal moist wound healing environment

Foam layer
Absorbs exudate to help minimize pooling at the wound surface

Silicone layer
Minimizes trauma and reduces discomfort upon wearing or removal; easily peels off and re-sticks when checking skin or wound

Features and benefits:

- **Extended wear time** reduces dressing change frequency, saving time and costs
- **Shaped version available** for difficult to dress areas e.g. sacrum and heel
- **Can prevent shear and friction**
- **Can aid relief of pressure** at pressure points
- Can be used as a **primary or secondary** dressing dependent on levels of exudate

For use with:

- Low to high exuding wounds
- Skin tears and abrasions
- Pre-tibial lacerations
- Diabetic foot ulcers
- Venous leg ulcers
- Pressure ulcers
- Post-operative wounds
- Superficial burns
- Shallow granulating wounds

Size	Description	UOI	Product Code	NHSSC	PIP Code
7.5 x 7.5cm	Silicone Bordered Foam Dressing	10	**SFB075075**	**ELA85413**	**438-1356**
10 x 10cm	Silicone Bordered Foam Dressing	10	**SFB1010**	**ELA85410**	**438-1299**
12.5 x 12.5cm	Silicone Bordered Foam Dressing	10	**SFB125125**	**ELA85414**	**438-1315**
15 x 15cm	Silicone Bordered Foam Dressing	10	**SFB1515**	**ELA85417**	**438-1349**
17.1 x 17.9cm	Sacral (A) Silicone Bordered Foam Dressing	10	**SFB171179**	**ELA85416**	**438-1364**
20 x 20cm	Silicone Bordered Foam Dressing	10	**SFB2020**	**ELA85415**	N/A
10 x 20cm	Silicone Bordered Foam Dressing	10	**SFB1020**	**ELA85401**	N/A
10 x 25cm	Silicone Bordered Foam Dressing	10	**SFB1025**	**ELA85411**	N/A
10 x 30cm	Silicone Bordered Foam Dressing	10	**SFB1030**	**ELA85412**	N/A
10 x 35cm	Silicone Bordered Foam Dressing	10	**SFB1035**	**ELA85403**	N/A
17.1 x 17.9cm	Multisite (B) Silicone Bordered Foam Dressing	10	**SSFB171179**	N/A	**4381455**

GBUK Hydrogel Sheet and Adhesive Bordered Hydrogel Dressing

These dressings provide hydration to dry wounds while offering soothing, cooling relief to patients. Their gentle properties make them ideal for painful wounds.



Features and benefits:

- **Donates moisture** to dry, necrotic and sloughy wounds
- **Encourages autolytic debridement**
- **Cooling effec**t that can aid pain reduction
- **Primary dressing**
- Non bordered, can be **cut to fit**
- Non bordered dressing **will require securement**
- **Hydrogel sheet with hypoallergenic adhesive border,** aids application for awkward places
- **7 day wear time**

For use with:

- Dry to lightly exuding wounds
- Necrotic and sloughy wounds
- Partial-thickness burns
- Painful wounds
- Superficial abrasions, burns and scalds

Low absorbency

Size	Description	UOI	Product Code	NHSSC	PIP Code
6 x 6cm	Hydrogel Dressing	5	**HD0606**	**ELE85011**	N/A
10 x 10cm	Hydrogel Dressing	5	**HD1010**	**ELE85009**	**438-8062**
15 x 15cm	Hydrogel Dressing	5	**HD1515**	**ELE85010**	**438-8088**
20 x 20cm	Hydrogel Dressing	5	**HD2020**	**ELE85014**	N/A
10 x 10cm	Hydrogel Dressing with Border	5	**HDB1010**	**ELE85013**	**438-8070**
15 x 15cm	Hydrogel Dressing with Border	5	**HDB1515**	**ELE85012**	N/A

GBUK Film Dressing

These dressings act as a barrier to external contaminants such as bacteria, yet are permeable to both water vapour and oxygen. Film dressings are a versatile primary or secondary dressing, easy to apply, and suitable for a variety of superficial wounds.



Features and benefits:

- **Picture frame application** for ease of use
- **Primary or secondary** dressing use
- **Protects wound** from external contaminants and fluids, bacteria and water resistant
- **Provides a moist healing environment**
- **Protects skin** from friction and shear
- **Hypoallergenic** adhesive

For use with:

- Superficial wounds and abrasions
- Post-operative wound protection
- Secondary dressing fixation
- Protection of donor sites
- Protection against skin breakdown due to friction or continuous moisture exposure
- A fixation device for catheters
- Minor burns, scalds and abrasions

Size	Description	UOI	Product Code	NHSSC	PIP Code
4.4 x 4.4cm	Transparent Film Dressing	100	**TF044044**	N/A	N/A
6 x 7cm	Transparent Film Dressing	100	**TF0607**	**ELW85167**	**438-7965**
10 x 12cm	Transparent Film Dressing	50	**TF1012**	**ELW85170**	**438-7973**
8 x 10cm	Transparent Film Dressing	100	**TF1008**	N/A	N/A
20 x 30cm	Transparent Film Dressing	10	**TF2030**	N/A	N/A
10 x 20cm	Transparent Film Dressing	10	**TF1020**	**ELW85168**	**438-7981**

GBUK Film Island Dressing

These dressings offer a practical solution for wounds with low exudate, providing the convenience of both protection and absorption in one product.



Features and benefits:

- **Integrated absorbent pad** absorbs low levels of exudate
- **Transparent film** allows peri-wound observation without frequent dressing changes
- **Split backing** for ease of application
- **Water and bacterial resistant** protects the wound from external contaminants, enabling the patient to shower without the need for a dressing change
- **Hypoallergenic adhesive** reduces the risk of skin irritation
- Can be used as a **primary or secondary** dressing
- **7 day** wear time

For use with:

- Low exuding acute and chronic wounds
- Superficial abrasions
- Minor burns
- Clean, closed post-operative wounds

Low absorbency

Size	Description	UOI	Product Code	NHSSC	PIP Code
5 x 7.2cm	Transparent Film with Absorbent Pad	50	**TFI05072**	**ELW85173**	**438-7999**
10 x 10cm	Transparent Film with Absorbent Pad	50	**TFI1010**	N/A	**438-802**
9.5 x 8.5cm	Transparent Film with Absorbent Pad	50	**TFI095085**	**ELW85169**	N/A
10 x 12cm	Transparent Film with Absorbent Pad	50	**TFI1012**	**ELW85174**	**438-8005**
10 x 20cm	Transparent Film with Absorbent Pad	30	**TFI1020**	**ELW85172**	**438-8013**
10 x 30cm	Transparent Film with Absorbent Pad	30	**TFI1030**	**ELW85171**	N/A

GBUK Non Woven Island Dressing

Non woven island dressings are a versatile and cost-effective solution for managing minor acute wounds, including abrasions, lacerations, and post-operative incisions. These dressings feature a soft, non woven adhesive border that gently secures an absorbent central pad over the wound.



Features and benefits:

- **Soft, non woven material** with hypoallergenic adhesive
- **Central absorbent pad** effectively absorbs minimal exudate
- **Secure adhesive border** ensures the dressing stays in place

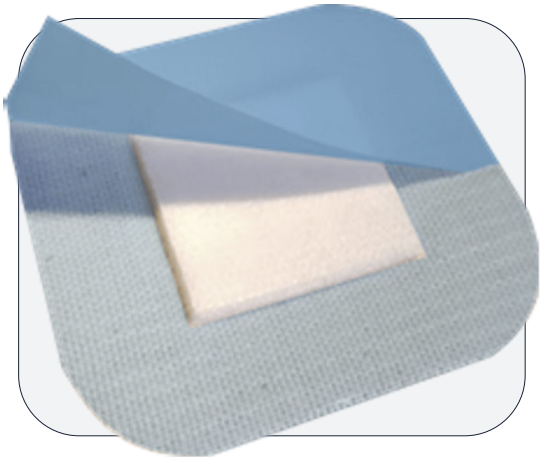
For use with:

- Low exuding wounds
- Surgical incisions
- Superficial cuts and abrasions
- Post-operative wounds

Size	Description	UOI	Product Code	NHSSC	PIP Code
8.3 x 6cm	Non Woven Island Dressing	50	**NWI08306**	**ELJ85063**	**438-1547**
10 x 8cm	Non Woven Island Dressing	50	**NWI1008**	**ELJ85062**	**438-1521**
10 x 15cm	Non Woven Island Dressing	50	**NWI1015**	**ELJ85061**	**438-1539**
10 x 20cm	Non Woven Island Dressing	50	**NWI1020**	**ELJ85060**	**438-1513**
10 x 25cm	Non Woven Island Dressing	50	**NWI1025**	**ELJ85059**	N/A
10 x 30cm	Non Woven Island Dressing	50	**NWI1030**	**ELJ85058**	N/A
10 x 35cm	Non Woven Island Dressing	50	**NWI1035**	**ELJ85057**	N/A

Air note - Odour Neutralising Patch

Easy to apply odour neutralising patch.



Features and benefits:

- **Can be applied onto the outer part of a wound dressing or bandage,** the outside of a collection pouch or clothes anywhere near the source of the odour
- **Simple to use** and easy to apply
- **Immediate neutralising effect** upon release from sealed sachet
- **Discreet and unobtrusive** allowing individuals to carry on with daily activities
- **Effective for up to at least 24 hours**
- **Improves quality of life**

Effective at neutralising odours that emanate from medical conditions such as wounds, stoma, ulcers, incontinence and others.

Air note testimonials*

“ A small patch with a huge impact. ”

“ It completely neutralises unpleasant smells, which have been unavoidable until now when wearing current dressings or diapers. ”

“ Residents who use them are noticeably more active, also in their social interaction. ”



Size	Description	UOI	Product Code	NHSSC	PIP Code
60 x 40mm	Odour Neutralising Patch	10	**CEL-000004**	**ELV85054**	**441-9511**

*From the practical experience of a residential care home for the elderly

Nanogen Aktiv

A highly effective solution for the healing of 'hard to heal' chronic wounds.

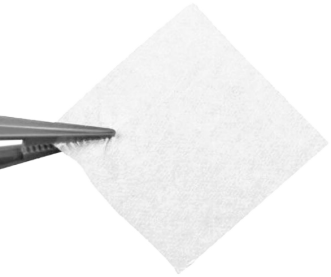


Can be used confidently at all stages of wound healing.

- Partial and full thickness wounds, including leg ulcers, pressure ulcers, trauma wounds, complex surgical wounds and epidermolysis bullosa (EB)
- Perfect for kick starting problem/static chronic wounds
- Use Nanogen Aktiv membrane for 2-6 weeks, as healing continues

Features and benefits:

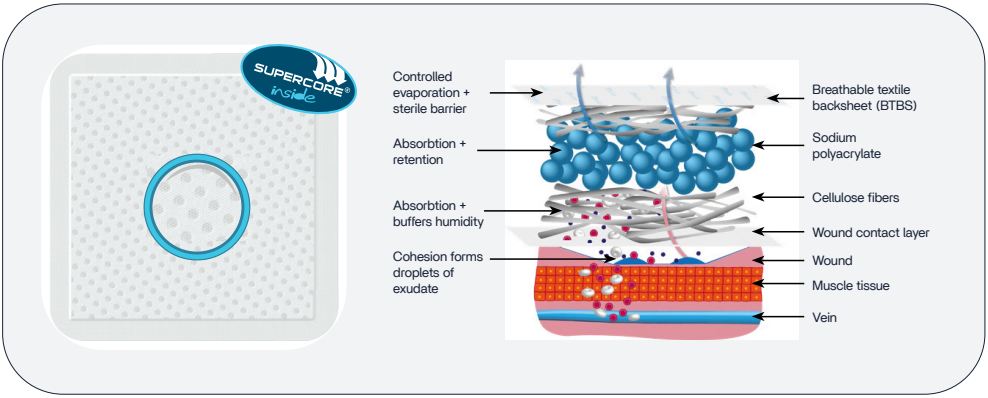
- **100% natural fibre** based on polysaccharides, composed of hemicelluloses/biocellulose (microbial) protein
- **Provides nutrients and antioxidants** to the wound
- **Nanogen fibres** mimic collagen fibres providing a scaffold (artificial biological ECM) to support/facilitate granulation and epithelialisation
- **Acts as a 'trigger' to correcting wound modulation** and kick starting correct cellular communication
- **The body then auto regulates** the delivery of the necessary components to promote wound repair
- **Naturally antimicrobial**
- **Cost effective** membrane can stay in place for one week
- **Cover membrane** with a secondary dressing appropriate for wound type



Size	Description	UOI	Product Code	PIP Code
3cm x 3cm	Nanogen Aktiv Membrane	10	**610101**	**438-1497**
5cm x 5cm	Nanogen Aktiv Membrane	10	**610202**	**438-1471**
8cm x 8cm	Nanogen Aktiv Membrane	5	**610303**	**438-1505**
10cm x 10cm	Nanogen Aktiv Membrane	5	**610404**	**438-1489**
10cm x 20cm	Nanogen Aktiv Membrane	5	**610408**	**438-1463**

Curea Super Absorbent Multi Purpose Dressing

SuperCore® is at the heart of the curea range of dressings. SuperCore consists of a combination of cellulose, cotton and sodium polyacrylate, which due to its special thermomechanical manufacturing process, scores particularly well in performance and quality.

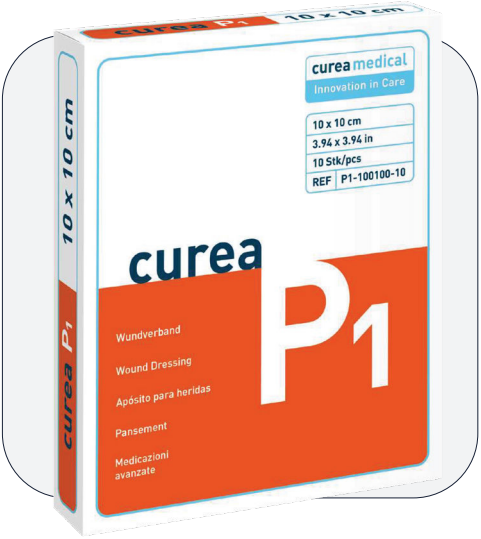


Features and benefits:

- **Absorbs quickly** through a structure of natural fibres and sodium polyacrylate. This includes: wound exudate and liquids of various viscosities, as well as bacteria, endotoxins and Matrix Metalloproteinases (MMPs). They will be safely locked in, reducing the risk of infection and contamination
- **Due to the SuperCore®,** curea dressings will maintain their shape throughout usage
- **Remains stable and efficient under compression and during application** due to its unique composite technology
- **Is manufactured without adhesives and binders** and is skin friendly
- **Breathable and waterproof backing** keeps the wound moist

Curea P1

High performance standard for light to heavy exuding wounds. In addition to safe exudate management, it is also indicated for soft debridement of the wound by dressing change.





Features and benefits:

- Unique range of sizes
- Breathable, liquid impermeable back side working as a sterile barrier
- Printed back side for the reduced risk of incorrect application
- Protection against leakage and contamination
- Can be used under compression
- Aids autolytic debridement

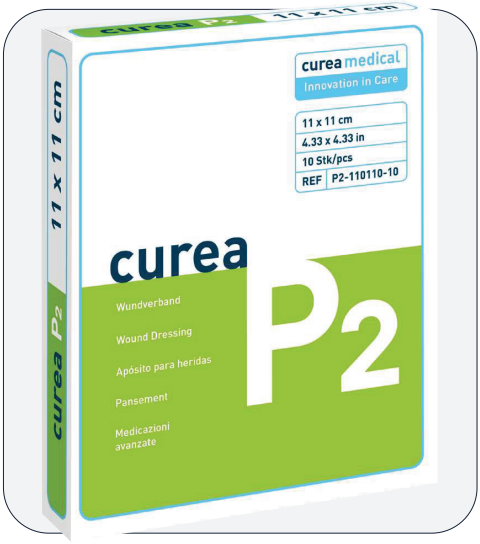
For use with:

Wet wounds with wound exudate of various viscosities. The soft non woven wound contact layer will also aid with debridement.



Curea P2

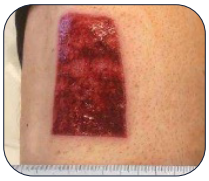
Non adherent wound contact layer for atraumatic dressing changes.



Features and benefits:

- **Breathable,** liquid impermeable back side working as a sterile barrier
- **3D non-adherent** wound contact layer
- **Printed back side** for the reduced risk of incorrect application
- **Protection against leakage** and contamination
- **For use on friable** delicate skin
- **Soft** to touch
- **Doesn't stick** to the wound
- **Can be used under compression**

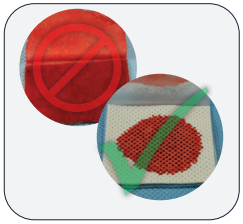




For use with:

Wet wounds with fresh granulation tissue, painful dressing changes, fragile skin/tissue.

3D non-adherent wound contact layer prevents wound adhesion.

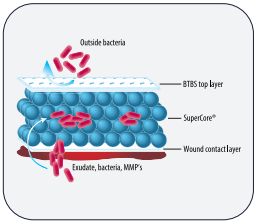


Absorbs all types of exudate[1]

High and low viscosity



Maintains shape throughout use



Binding of MMP's

Reduced risk of infection and contamination[2]

[1]Source: Based on expert opinion of the University Medical Center Göttingen, Dept. of Med. Microbiology, Accredited Analytical Laboratory and Advisory Service, Humboldtallee 34A, D-37073 Göttingen | Dr. med. U. Schmelz: Determination of the resorption potential of the wound dressings "curea P1" and "curea P2" with regard to whole blood, plasma, serum and physiological saline solution dated 30 March 2012.

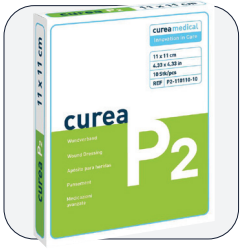
[2]Source: Based on expert opinion of the University Medical Center Göttingen, Dept. of Med. Microbiology, Accredited Analytical Laboratory and Advisory Service, Humboldtallee 34A, D-37073 Göttingen | Dr. med. U. Schmelz: Microbiological validation "curea P1" dated 01 March 2011 or "curea P2" dated 25 May 2011.

Curea



Curea P1

Size	Description	UOI	Product Code	PIP Code
7.5 x 7.5cm	Curea P1 Dressing Square	10	**P1-075075-10**	**363-1488**
10 x 10cm	Curea P1 Dressing Square	10	**P1-100100-10**	**363-1496**
12 x 12 cm	Curea P1 Dressing Square	10	**P1-100100D-5**	**438-6918**
15 x 15cm	Curea P1 Dressing Square	10	**P1-150150-10**	**384-6912**
10 x 20cm	Curea P1 Dessing Rectangular	10	**P1-100200-10**	**363-1512**
10 x 30cm	Curea P1 Dessing Rectangular	10	**P1-100300-10**	**363-1520**
20 x 20cm	Curea P1 Dressing Square	10	**P1-200200-10**	**363-1504**
20 x 30cm	Curea P1 Dessing Rectangular	5	**P1-200300-10**	**363-1538**



Curea P2

Size	Description	UOI	Product Code	PIP Code
10 x 20cm	Curea P2 Dressing Rectangular	10	**P2-100200-10**	**370-2651**
11 x 11cm	Curea P2 Dressing Square	10	**P2-110110-10**	**370-2644**
20 x 20cm	Curea P2 Dressing Square	10	**P2-200200-10**	**370-2677**
15 x 15cm	Curea P2 Dressing Square	10	**P2-150150-10**	**384-6920**
20 x 30cm	Curea P2 Dressing Rectangular	10	**P2-200300-10**	**370-2669**

GBUK
SURGICAL & CRITICAL CARE

HYDROCYN® aqua

HYDROCYN® aqua

GBUK
SURGICAL & CRITICAL CARE

HYDROCYN® aqua

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HYDROCYN aqua solution and gel is a range of biocompatible, gentle and safe wound care products for all stages of acute, chronic and infected wounds.

About HYDROCYN aqua:

HYDROCYN aqua has been tested on several microorganisms following the ISO 11737 & ASTM E2315 standard tests. The tests show that the product is effective against both gram-positive and gram-negative bacteria (including MRSA), fungi and spores.

In clinical studies HYDROCYN aqua efficiently removes biofilm in a broad variety of microorganisms, including multi-resistant bacteria strains. In vitro tests show that HYDROCYN aqua solution reduces biofilm concentration up to 99.9% against Pseudomonas aeruginosa and MRSA.



HYDROCYN® aqua

HYDROCYN AQUA® SOLUTION & GEL

Wound healing CAN BE COMPLEX
THE TREATMENT WITH HYDROCYN AQUA® *is not*

1 Effectively cleans wounds by rapidly removing bacteria and biofilm.[9]

2 Mimics body's own immune response to effectively kill microbes within 60 seconds.[5]

3 Biocompatible, non-stinging and tissue friendly.[5]



Wound care CHALLENGES

The prevalence of multi-resistant bacteria is escalating, patients with chronic wounds receive more antibiotics than other patient groups.[1]

1-2% will experience a chronic wound during their lifetime.[2]

10-15% of people living with diabetes develop a diabetic foot ulcer.[2]

5-10% of diabetic foot ulcer patients risk losing a limb.[2]

65% of the infected chronic wounds have biofilm.[7]

THE PROPERTIES FOR AN IDEAL ANTIMICROBIAL SOLUTION[3]

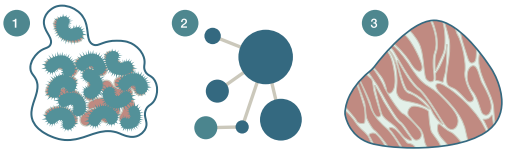
- Non-toxic to human cells
- Atraumatic to the patient
- Does not require irrigation at high pressures
- Effective against a broad spectrum of microbes
- Safe in a variety of wounds
- Effectively removes loose tissue and debris from the wound bed.

CONCLUSION: HOCI MEETS THE REQUIREMENTS OF A GOOD WOUND CLEANSER[3]

HYDROCYN® aqua

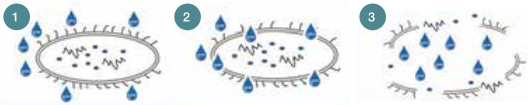
HYDROCYN AQUA®: *mode of action*

HYDROCYN AQUA® MIMICS BODY'S OWN IMMUNE RESPONSE WITHOUT COMPROMISING ON THE SAFETY AND AT THE SAME TIME IMPROVE WOUND HEALING.



1. HYDROCYN Aqua® effectively reduces biofilm built up by microbes in the wound.[9]
2. Within 60 sec quickly kills bacteria, virus and fungi through hydrolysis.[5]
3. Positive effects on fibroblast and keratinocyte migration important for wound healing.[10]

HYDROCYN AQUA® KILLS MICROBES BY OSMOTIC SHOCK



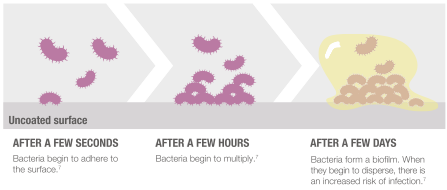
> When HYDROCYN Aqua® is applied, HOCl can penetrate the pathogens cell wall and slime layer.[4]

> The hypotonic effect of HYDROCYN Aqua® ensures water increasingly flows into the cells to equalize the osmotic gradient.[5]

EFFECTIVE REDUCTION OF BIOFILM FORMATION

In clinical studies HYDROCYN Aqua® efficiently removes biofilm in a broad variety of microorganisms, including multi-resistant bacteria strains. In vitro tests show that HYDROCYN Aqua® solution reduces biofilm concentration up to 99.9%. (Pseudomonas aeruginosa and MRSA).[5]

99.9%



HOCl IMPROVES WOUND HEALING AND INCREASES KERATINOCYTE MIGRATION.

Wound healing assay reveals povidone iodine-treated skin fibroblast cells were disrupted while stabilized HOCl solution treatment increased migration of keratinocytes.[8]

HYDROCYN® aqua

How to use HYDROCYN AQUA® SOLUTION AND GEL

1 RINSE



Soak small pads with HYDROCYN Aqua® solution and rinse the wound meticulously

2 SOAK



HYDROCYN Aqua® solution – soaked pads on wound bed for 10-15 min.

3 CLEAN



Clean the wound using HYDROCYN Aqua® solution.

4 APPLY GEL



Apply HYDROCYN gel or gel spray to the entire wound site to maintain a moist wound bed and for a soothing and bacteriostatic effect.

5 DRESS



Dress the wound depending on wound type. Change and repeat procedure every 1–3 days and extend through the healing process.

Volume	Description	UOI	Product Code	PIP Code	NHSSC
10 x 10cm	Hydrocyn Aqua Gauze		**GW3H103**	N/A	TBC
500ml	Hydrocyn Aqua Bag	12	**HW35C102**	N/A	**DWA85005**
1000ml	Hydrocyn Aqua Bag	6	**HW36C102**	N/A	**DWA85008**
500ml	Hydrocyn Aqua Bottle Cap	12	**HW35D100**	N/A	**DWA85007**
250ml	Hydrocyn Aqua Bottle Cap	24	**HW34E100**	**414-0562**	**DWA85012**
250ml	Hydrocyn Aqua Spray Mist	24	**HW34E700**	**438-3238**	**DWA85006**
100ml	Hydrocyn Aqua Spray Mist	50	**HW3CE700**	**414-0570**	**DWA85009**
15g	Hydrocyn Aqua Gel Tube	20	**HW40F900**	**426-1095**	**ELZ85249**
50g	Hydrocyn Aqua Gel Tube	12	**HW42C900**	**426-1111**	**ELZ85248**
50g	Hydrocyn Aqua Gel Spray (BOV)	50	**HW42E800**	**426-1103**	**DWA85011**
100g	Hydrocyn Aqua Gel Spray (BOV)	42	**HW4CG800**	**426-1129**	TBC



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Theatre Wound Management

Theatre Wound Management

HYDROCYN® *aqua*

THE *preferred solution* FOR PERITONEAL LAVAGE

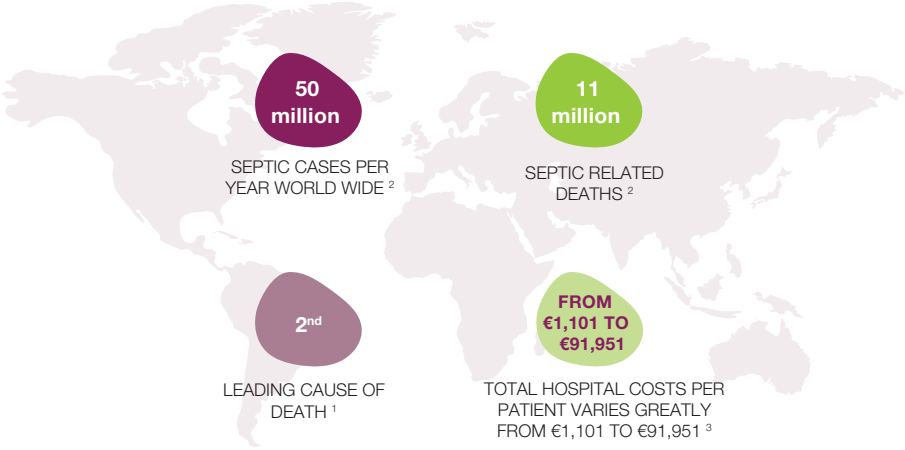


Bactiguard®

HYDROCYN® aqua Peritoneal Lavage

INTRA-ABDOMINAL INFECTIONS (IAIS) A LEADING *cause of morbidity*

Intra-abdominal infections (IAIS) are an important global cause of morbidity and mortality and one of the main etiologies of sepsis [1].



INTRA-OPERATIVE *peritoneal lavage* (IOPL) IN IAIS MANAGEMENT

Intra-operative Peritoneal Lavage (IOPL) is a medical procedure commonly utilized during laparotomies and laparoscopic surgeries to manage and control sources of infection. It involves the washing and cleansing of the peritoneal cavity using various solutions, such as normal saline, super-oxidized solution, antibiotics, or chemotherapy, depending on the clinical indication.

Advantages:

Infection Control	Debris Removal	Dilution Effect	Disinfection	Cancer Prevention & Control

HYDROCYN® aqua Peritoneal Lavage

HYDROCYN aqua® *the preferred solution* FOR PERITONEAL LAVAGE

Introducing HYDROCYN aqua®, a high-risk application solution for procedures like peritoneal lavage. With the inclusion of hypochlorous acid, celebrated for its potent ancillary antimicrobial effect (following rule 13), our product proudly holds the highest Class III certification under the Medical Device Directive (MDD).

Specifically formulated for use within the peritoneal cavity, it may interface with the central circulatory and/or central nervous system, further elevating its classification to the prestigious Class III. Trust HYDROCYN aqua® for advanced solutions that prioritize effectiveness and safety in critical healthcare applications.

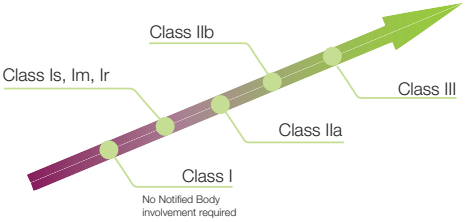


Figure 1: Illustration of Medical device classifications in MDR in relation to risk. From low risk to highest risk.

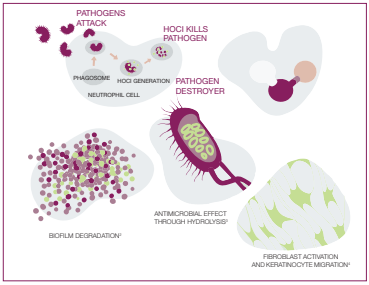
HYDROCYN aqua® is a range of biocompatible, gentle and safe wound care products for all stages of acute, chronic and infected wounds, such as stage I-IV ulcers, venous stasis and diabetic ulcerations, bed sores, surgical wounds as well as first and second degree burns.

Normal saline remains the irrigant of choice for most surgeons. Hypochlorous acid is a weak acid with antimicrobial properties. Reducing microbial concentration during intracavitary irrigation is a benefit of using hypochlorous acid solution over normal saline. [4]

Studies reveal Hypochlorous acid irrigation reduce bacterial growth more efficiently than saline alone and yet at the same time being non-toxic to human cells. [5]

HYDROCYN aqua® *mimic* BODY'S OWN IMMUNE SYSTEM[6]

Hypochlorous acid (HOCl) is a component in our own immune system. It is naturally produced by neutrophils in the steps of phagocytosis of bacteria and other microorganisms.

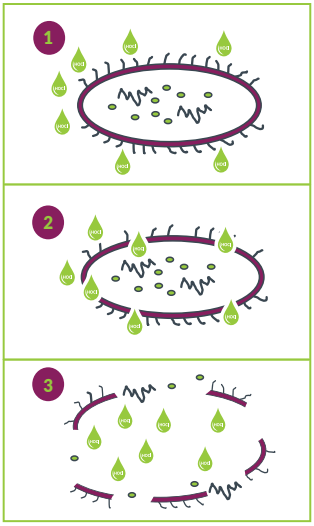


HYDROCYN® aqua Peritoneal Lavage

HYDROCYN aqua® *kills microbes* BY OSMOTIC SHOCK

> The cells of microorganism are negatively charged while hypochlorous acid (HOCl) is electrically neutral. When HYDROCYN aqua® is applied, HOCl can penetrate the pathogens cell wall and slime layer.[7]

> The hypotonic effect of HYDROCYN aqua® ensures water increasingly flows into the cells to equalize the osmotic gradient. The increased internal pressure causes bacteria to burst in a process called osmotic shock.[8]



Rapid ANTIMICROBIAL EFFECT – WITHIN 60 SECONDS

HYDROCYN aqua® has been tested on several microorganisms following the ISO 11737 & ASTM E2315 standard tests. The tests show that the product is effective against both gram-positive and gram-negative bacteria (including MRSA), fungi and spores.[9]

MICROORGANISM	% Reduction
BACTERIA	
E. feacalis, VRE	*99.99%*
MRSA	*99.99%*
Mycobacterium bovis	*99.99%*
Gardnerella vaginalis	*99.99%*
Acinetobacter baumannii	*99.99%*
Klebsiella pneumoniae	*99.99%*
Klebsiella pneumoniae, CRE	*99.99%*
Clostridium sporogenes	*98.45%*

MICROORGANISM	% Reduction
FUNGI	
Candida albicans	*99.99%*
Candida tropicalis	*99.99%*
Candida parapsilosis	*99.99%*
Trichophytan mentagrophytes	*99.99%*
Sporothrix schenckii	*99.99%*
Candida auris	*99.99%*
SPORES	
Bacillus subtilis	*99.99%*
Clostridium difficile	*99.99%*
Clostridium sporogenes	*98.45%*

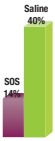
HYDROCYN® aqua Peritoneal Lavage

SUPPORTING *clinical case* STUDIES AND TRIALS

Multiple studies have been conducted by the surgeons and researchers with super oxidised water in the application of peritoneal lavage.

EVALUATION OF INTRAOPERATIVE PERITONEAL LAVAGE WITH SUPER-OXIDIZED SOLUTION AND NORMAL SALINE

MATERIAL AND METHODS: N= 100 patients underwent peritoneal lavage (two groups of 50 each). In the control group the peritoneal cavity was lavaged with normal saline and closed after putting drains. In the study group, after the definitive surgery the peritoneal cavity was lavaged with saline followed by 100 ml of super-oxidized solution and drains were closed for 1 h after abdominal closure.



SIGNIFICANTLY LOWER SURGICAL SITE INFECTIONS (SSI) in the group that received super-oxidized solution (14%) compared to the control group (40%).

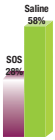
FASTER RECOVERY: super-oxidized solution group had a quicker return of bowel sounds (4.10 ± 1.20 days) compared to the control group (5.9 ± 1.17 days).





FEWER BURST ABDOMEN CASES: super-oxidized solution group had fewer cases of burst abdomen compared to the control group

LOWER FEVER INCIDENCE: post-operative fever (>100°F) was significantly lower in the super-oxidized solution group (28%) compared to the control group (58%).



CONCLUSION: SUPER-OXIDIZED SOLUTION COULD BECOME A USEFUL ADJUVANT THERAPY IN PATIENTS WITH PERITONITIS OF ANY CAUSE ALONG WITH NORMAL SALINE.

HYDROCYN® aqua Peritoneal Lavage

Study	Type	Conclusion
Singal, R., Siddharth, D.H.A.R., Zaman, M., Singh, B., Singh, V. and Sethi, S., 2016. Comparative evaluation of intra-operative peritoneal lavage with super oxidized solution and normal saline in peritonitis cases; randomized controlled trial. Maedica, 11(4), p.277.	RCT	SOS solution led to higher bacterial load, superficial wound infection rate, and wound pain compared to normal saline, while also resulting in higher post-operative morbidity and mortality. SOS did, however, significantly reduce wound pain and infection, leading to early recovery.
Garg, P.K., Kumar, A., Sharda, V.K., Saini, A., Garg, A. and Sandhu, A., 2013. Evaluation of intraoperative peritoneal lavage with super-oxidized solution and normal saline in acute peritonitis. Archives of International Surgery, 3(1), p.43.	RCT	The main finding of the study is that the use of super-oxidized solution in intraperitoneal lavage is effective and safe in reducing post-operative complications such as surgical site infection (SSI), burst abdomen, and episodes of post-operative fever.
Inoue, Y., Endo, S., Kondo, K., Ito, H., Omori, H. and Saito, K., 1997. Trial of electrolyzed strong acid aqueous solution lavage in the treatment of peritonitis and intraperitoneal abscess. Artificial Organs, 21(1), pp.28-31. 11(4), p.277.	Clinical Case Series	The study used an electrolyzed strong acid aqueous solution for peritoneal and abscess lavages in 7 patients with peritonitis and intraperitoneal abscesses. Microbiological studies showed negative results in 3 cases after 2-4 days of irrigation, and conversion to a microorganism negative state was observed in 3-7 days for the remaining cases. Anaerobic bacteria and a fungus were isolated in positive cases, indicating the potential effectiveness of the electrolyzed strong acid aqueous solution in treating peritonitis and intraperitoneal abscesses
Kubota, A., Goda, T., Tsuru, T., Yonekura, T., Yagi, M., Kawahara, H., Yoneda, A., Tazuke, Y., Tani, G., Ishii, T. and Umeda, S., 2015. Efficacy and safety of strong acid electrolyzed water for peritoneal lavage to prevent surgical site infection in patients with perforated appendicitis. Surgery today, 45, pp.876-879.	RCT	Peritoneal lavage and wound washing with strong acid electrolyzed water (SAEW) have no adverse effects and are effective for preventing surgical site infection (SSI).
Liu, J., Fan, P., Chu, J., Yang, J., Yang, X., Zhang, L. and Guo, C., 2016. A contrast study of Dermacyn on enterocoely irrigate to control intraoperative infection. Minerva Chirurgica, 72(2), pp.121-124.	Clinical Case Series	The main findings of the study are that Dermacyn effectively reduced the risk of infection and led to a significant reduction in the average volume of peritoneal drainage fluid.

HYDROCYN® aqua Peritoneal Lavage

HYDROCYN aqua®
product range

The HYDROCYN aqua® product range consists of various solutions and gels. Used together they provide the ideal solution for effective wound healing. The HYDROCYN aqua® solution contains HOCl that effectively cleans and reduces microbial load and biofilm in the wound.

Effectively cleans wounds by rapidly removing bacteria and biofilm.

Mimics body's own immune response to effectively kill microbes within 60 seconds.

Biocompatible, non-stinging and tissue friendly

Volume	Description	UOI	Product Code	PIP Code	NHSSC
500ml	Irrigation Bag	12	**HW35C102**	N/A	**DWA85005**
1000ml	Irrigation Bag	6	**HW36C102**	N/A	**DWA85008**
500ml	Hydrocyn Aqua Bottle Cap	12	**HW35D100**	N/A	**DWA85007**
50g	Hydrocyn Aqua Gel Spray (BOV)	50	**HW42E800**	**426-1103**	**DWA85011**



HYDROCYN® aqua Peritoneal Lavage

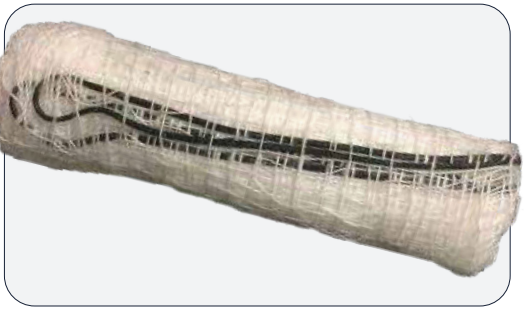
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8. Bactiguard Data on file.
9. Data on file CER Bactiguard

Bactiguard (South East Asia) Sdn. Bhd. | woundcare@bactiguard.com | www.bactiguard.com

RMH-18689-v.1.0

Robotic Sponges

Laparoscopic Robotic Sponge that can be delivered via 10mm Trocar.
Versatile intraoperative uses in endoscopic and other procedures including:





- Liver procedures
- Laparoscopic cholecystectomy
- Colorectal surgery
- Bariatric surgery
- Prostatectomy
- Gynaecology
- Video assisted thoracoscopic surgery

Finished product:
Length 5+0.3cm, Diameter 14+1mm, 5pcs / paper-film pouch

Features and benefits:

- Made from 100% cotton, corresponding to EN 14079. Bleached by oxygen providing passive heamostasis with soft atraumatic extraction /fixation
- X-ray detectable
- Can be placed in cavity or pockets, remove after use
- Available direct and from NHSSBS

Size	Description	UOI	Product Code	NPC code
length 5±0.3 cm, diameter 14±1 mm	Lap / Robot Sponge	200 (40x5pcs)	**20062**	TBC

Scan here to visit our website

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ENHANCING PATIENT CARE

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