

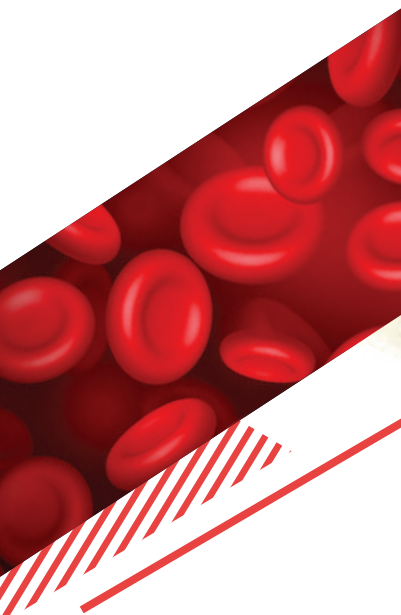
CE 0477
ISO 13485
ISO 14001



ChitoTech

New Thinking in Healthcare
Since 2004

**Manufacturer of
Advanced Wound Care,
Hemostatic and Nano
Silver Antiseptics**



Contact Us

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About Us :

ChitoTech was developed from a research facility for studying marine biopolymers and their applications in medicine. The manufacturing site of the company established in 2004. ChitoTech activities are based on cutting edge technologies, producing advanced wound care, hemostatic products and colloidal silver antiseptic. Products in ChitoTech have the approval of Iranian Ministry of Health as well as CE, ISO13485,ISO14001 certificates. Our technologiis are protected by European, American and National patents. ChitoTech wound care products are suitable for a wide range of ulcers and burn wounds, hemostatic products are in different forms and are suitable for stopping venous and arterial bleedings and SilvoSept antiseptic solutions are a novel class of non-alcoholic antiseptics using colloidal silver technology. Diagnostic products are suitable for wound assessment and infection detection.





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HEMOSTATICS

ChitoTech hemostatic products are made of natural cellulosic biopolymers. They cause rapid hemostasis in arterial, venous and capillary bleedings. They are useful in surgery, angiography, dentistry, nosebleeds, traumatic skin incisions, hemodialysis and bone hemostasis. They save patients' life, decrease costs and length of hospital stay, blood transfusions and transmission of infection. They can be effective in conversion of inpatient care to outpatient care. Also, these products have been increasingly used in the field of inherited bleeding disorders including hemophilia, Glanzmann and Von Willebrand disease. ChitoTech hemostatic products are safe and effective for diabetic patients.

Mechanism of action

ChitoTech hemostatic products absorb blood plasma, therefore increase the concentration of clotting factors and platelets aggregation in the injured area. They then provide a matrix for platelet adhesion, accelerating the formation of the platelet plug.

Hemostatic products performance and safety tests

- 1-Biocompatibility tests based on ISO 10993-10, ISO 10993-5 ,...
- 2-Antibacterial activity tests
- 3-Time to hemostasis (TTH) and bioabsorption time tests

Products

- ChitoHem (Powder/Spray)
- HemoGauze hemostatic band aid-
- ChitoCell
- ChitoCell Ultra-Thin
- BoneHem
- HemoFoam
- EpiCell
- DentalCell
- Combat Bandage
- HemoGauze
- ChitoSponge

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ChitoHem

ChitoHem is an antibacterial, biocompatible hemostatic powder made of polysaccharide (oxidized regenerated cellulose) suitable for all types of bleedings including arterial, venous, capillary and oozing in surgical procedures or injuries.

Particle size of ChitoHem powder is within 38-150 µm leading to fast penetration of bleeding site making it suitable for patients with coagulopathic disorders including hemophilia, Glanzmann & Von Willebrand diseases and problematic bleeding situations.

ChitoHem has a special applicator (in sizes of 10 and 38 cm). The applicator is an effective powder delivery system capable of delivering a controlled amount of hemostatic powder accurately at the bleeding site during laparoscopic surgery and out of reach areas. Once hemostasis is achieved, any excess ChitoHem should be carefully removed.



Features:

- Hemostasis in less than 90 seconds
- Sterile and antibacterial
- No toxicity, no irritation, no sensitivity
- No pyrogenicity
- No change in blood glucose level
- Ready to use
- Suitable for all patients with coagulopathy disorder
- ChitoHem produces no heat and is non-allergenic

Applications:

- Cardiovascular, orthopedic, graft, ENT surgeries and laparoscopy
- Soft tissue surgery
- Angiography
- Gynecology
- Urology
- Emergency
- Suitable for diabetic patients



Name	Code	Size(g)
ChitoHem	05111	1 (Minihemovag)
	05113	3 (Minihemovag)
	05115	5 (Minihemovag)
	052205	0.5 (Drop)
	05221	1 (Drop)

Name	Code	Size(cm)
Special Applicator	0544100	10
	0544380	38

Instruction for use:

- 1- Take out ChitoHem powder and Applicator from the packaging.
- 2- Clean the bleeding site using sterile gauze. Press the tip of the ChitoHem mini hemovag into the applicators mouth.
- 3- Pump the desired amount of ChitoHem powder by holding the applicator handles and pressing the mini hemovag using your thumb.
- 4- Less than 90 seconds bleeding is stopped. If needed, repeat the section 3. Compress the source of bleeding for 2-3 minutes using a dry compress.

ChitoHem Hemostatic Spray

ChitoHem hemostatic spray is a hemostatic agent that delivers naturally-derived coagulant made from oxidized regenerated cellulose and N-Acetyl-D-Glucosamine. It can be sprayed directly onto a bleeding site particularly minor cuts and scrapes, topical wounds and abrasion. Its active components create a powder layer over the wound.

Features:

- Rapid Hemostasis in 1 minute
 - Ready to use
 - Biocompatible
- (No toxicity, irritation and sensitization)

Applications:

- Minor cuts and scrapes
- Topical wounds and abrasion

Warnings:

- For external use only
- Keep away from sources of ignition
- Do not expose to temperature exceeding 50° C
- No contact with eyes
- Keep out of reach of children



Instruction for use:

1. First, clean the bleeding site then spray directly on the wound area from a distance of 5-10 cm.
2. Cover the source of bleeding using a sterile gauze and insert mild pressure. If bleeding continues, repeat the action.

HemoGauze hemostatic band

HemoGauze hemostatic band aid is a new product that contains a hemostatic pad on the adhesive tape. This product is suitable for capillary bleedings in domestic wounds, abrasions and cuts.

Features:

- Stops bleeding fast
- Soft and flexible
- Ready to use
- Sterile

Applications:

- Suitable for capillary bleedings in domestic wounds, abrasions and cuts.



Instruction for use:

1. Clean the bleeding site with SilvoSept or other appropriate antiseptics.
2. Fix HemoGauze over the bleeding site.
3. Press it lightly to stop bleeding.

Name	Code	Size(ml)
ChitoHem Hemostatic Spray	052950	50

Name	Code	Size(cm)
HemoGauze hemostatic band aid	05285	6x10 4x10 10x10

ChitoCell Original

ChitoCell Original is an oxidized regenerated cellulosic pad with broad antibacterial profile. It is used in surgical procedures as a hemostatic pad to stop capillary, venous, and small arterial hemorrhages. ChitoCell absorbs blood and gently swells into a gelatinous mass which aids in the formation of clot.



ChitoCell Ultra-Thin (UT)

ChitoCell UT is an ultra-thin hemostatic pad made of non-woven oxidized regenerated cellulose which accelerates hemostasis. This product is suitable for spinal neurosurgery.

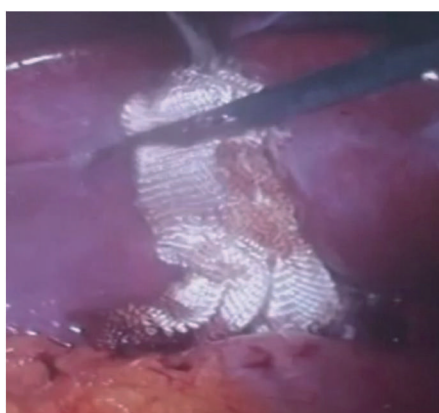


Features:

- Rapid hemostasis in 30-50 seconds
- Sterile and antibacterial
- No toxicity, no irritation, no sensitivity
- Prevents postoperative adhesion
- Soft, comfortable and applicable for all parts of body.

Applications:

- All surgeries, anastomosis, tumor beds and plastic surgeries.
- Suitable for control of capillary, venous, and small arterial hemorrhages.
- Suitable for patients with coagulopathic disorders.
- Neuro-surgeries (ChitoCell UT)



Instruction for use:

1. Clean the damaged organ by removing the blood and other fluids properly.
2. Cover the bleeding site with ChitoCell or ChitoCell Ultra-Thin.

Name	Code	Size(cm)
ChitoCell	05105080	5×8
	0510100200	10×20
	051050350	5×35

Name	Code	Size(cm)
ChitoCell Ultra-Thin	05215080	5×8
	0521100200	10×20
	052150350	5×35

BoneHem

BoneHem is a novel and biocompatible hemostatic product. BoneHem is made of hydroxyapatite therefore as well as hemostatic properties, it promotes osteogenesis and thus bone healing. As a result BoneHem accelerates blood clotting both chemically and mechanically by creating a physical barrier.

Features:

- Immediate hemostasis upon application
- Biocompatible
- Promotion of osteogenesis
- Does not cause granuloma formation
- Non-allergic
- Ready to use

Applications:

- Surgeries involving sternotomy and thoracic orthopedic surgeries and traumatology
- Arthroplasty
- Neurosurgery involving spine neck and head
- Endodontics orthodontics periodontics oral and maxillofacial surgeries
- Maxillofacial surgeries
- Amputations
- Arthroplasty,
- Amputations,



Instruction for use:

1. Gently clean the area with sterile gauze prior to application.
2. Smear the stick across the bleeding edge of the bone and spread it along the bleeding surface.
3. Inspect the bleeding site to ensure the bleeding has stopped and if not, repeat the action 2 or 3 times.

HemoFoam

HemoFoam is a soft hemostatic sponge, made of natural biopolymers. It can be used to control bleedings in patients following hemodialysis.

Features:

- Stops bleeding in less than 60 seconds
- Absorbs blood up to 8 times of its weight
- Flexible & non-allergic
- Easy to use
- Biocompatible (no toxicity, no irritation, no sensitivity)

Applications:

- Suitable for dialysis patients
- Hemodialysis



Instruction for use:

1. Clean the surface of the wound with an appropriate antiseptic
2. Place HemoFoam over bleeding site then remove the sheath.
3. Press it for 3 to 5 min.
4. Fix HemoFoam with ChitoTrans or other appropriate dressing when bleeding stops.

Name	Code	Size(g)
BoneHem	05253	3

Name	Code	Size(cm)
HemoFoam	051525	2.5 (Diameter)

EpiCell

EpiCell is a hemostatic nasal tampon made of oxidized regenerated cellulose suitable for patients' self-application in controlling epistaxis.



DentalCell

DentalCell is a biocompatible hemostatic tampon made of oxidized regenerated cellulose suitable for tooth extraction.



Features (EpiCell,DentalCell):

- Rapid hemostasis
- Sterile and antibacterial
- No toxicity, no irritation, no sensitivity
- Soft and flexible
- Safety thread for easy removal

EpiCell Applications:

- Nasal bleedings (Epistaxis)
- Suitable for patients with coagulation disorders such as (Von Willebrand disease, Glanzmann disease and Hemophilia)

DentalCell Applications:

- Suitable for extraction site and oral surgeries
- Suitable for patients with coagulation disorders such as (Von Willebrand disease, Glanzmann disease and Hemophilia)



Instruction for use:

- 1.Place EpiCell into the nasal cavity and push upwards slightly. Make sure the safety thread is visible.
- 2.Press the septum of the nose from outside for 1-2 minutes, while the tampon is inside.



Instruction for use:

- 1.Place DentalCell over the bleeding site.
- 2.Then apply slight pressure on the Dental-Cell. When the bleeding is stopped wash off your mouth.

Name	Code	
EpiCell For Children	0513530	Children
EpiCell For Adults	0513835	Adults

Name	Code	Size (mm)
DentalCell	0517150150	15x15

Combat Bandage

Combat Bandage is an advanced hemostatic dressing for front line medical professionals. 5 unique features are gathered as one in Combat Bandage.

This product consists of:

1. Hemostatic dressing
2. Superabsorbent pad
3. A clip device, pressure bar on the dressing that applies compression on the site of bleeding
4. A hooking end which secures the bandage tightly
5. Elastic bandage.



Features:

- Stops severe bleedings
- Soft, flexible and suitable for all parts of external bleedings
- Quick and easy self-application
- Biocompatible

Applications:

First aid in the following case:

- Emergency
- Military forces
- Road accidents
- Life-threatening bleeding

Instruction for use:



1-Place super absorbent hemostatic pad on wound.



2- Wrap the elastic bandage around bleeding site, then insert it into pressure bar.



3-Turn the bandage in the opposite direction while it is in the hook and completely fasten it around the location.



4-Wrap elastic bandage tightly over pressure bar. Secure hooking ends into elastic bandage.

HemoGauze

HemoGauze is a soft and pliable oxidized gauze suitable for capillary and small venous bleeding.

Features:

- Hemostasis of capillary and small venous bleeding
- Stops bleeding less than 4 minutes
- No toxicity, no irritation, no sensitivity
- Ready to use
- Sterile

Applications:

- Capillary bleeding (Domestic wounds, abrasions and cuts)



Instruction for use:

1. Clean the bleeding site with SilvoSept spray.
2. Place HemoGauze over bleeding site.
3. Press it to stop bleeding.

Name	Code	Size (cm)
Combat Bandage	05181502000	15x200

Name	Code	Size(cm)
HemoGauze	0514100400	10x40

ChitoSponge

ChitoSponge is a water-insoluble, porous and pliable product which is prepared from bovine gelatin and stops bleeding effectively and rapidly in surgeries.

Features:

- Hemostasis in less than 2 minutes
- Sterile
- Biocompatible (No toxicity, no irritation, no sensitivity)
- Ready to use

Applications:

- Abdominal and Spleen Surgery
- Parenchymal tissue surgery and liver biopsy
- Orthopedic Surgery
- Gynecological surgery
- ENT Surgery
- Stopping tumor bleeding
- Stopping fistula bleeding during dialysis
- stopping bleeding in hard-to-reach places



Name	Code	Size(cm)
ChitoSponge	0520805010	8 x 5x 1
	05201008010	10 x 8 x 1
	052080502	8 x 5 x 0.2

Instruction for use:

- 1.Place a sufficient amount of ChitoSponge on the bleeding site and hold it in place with moderate pressure until hemostasis is achieved.
- 2.Once hemostasis is achieved, any excess ChitoSponge should be carefully removed.

Wound Healing Products

Wound healing dressings as the first products of the company are based on the latest medical science achievements and practical principles of moist wound healing methods. The dressings are biocompatible and made from N-Acetyl-D-Glucosamine which leads to activating effective factors, particularly macrophages in wound healing. They are capable of absorbing wound exudates.

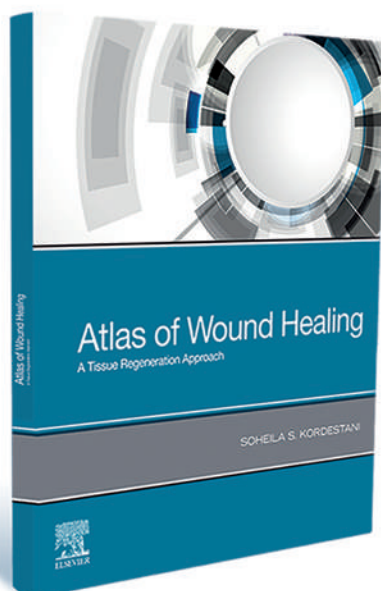
Wound healing is a multifactorial, complicated, physiological process. Cellular and biochemical components as well as enzymatic pathways play pivotal roles during the repair and recovery of wound tissue. Some natural polymers have excellent structural and physicochemical properties, making them suitable agents for different applications in medical care of which wound management aids are one of the most important and encouraging modalities.

ChitoTech has published Atlas of Wound Healing A Tissue Regeneration Approach by Elsevier.

In this Atlas of Wound, a variety of wounds with diverse ethnicities and etiologies has been collected.

Mechanism of Action:

They accelerate wound healing process by increasing population of macrophages, immune system essential biomolecules, maintaining optimal moist wound condition and preventing inflammation by their antibacterial profile.



Wound healing products performance and safety tests

1- Biocompatibility tests based on ISO 10993-10, ISO 10993-5 ,...

2- Antibacterial activity tests

- ChitoHeal Gel
- ChitoHeal Foam Dressing
- Debrid Gel
- ChitoDebrid Pad
- ChitoPowder
- Calcium Alginate
- ChitoCavity
- ChitoSorb
- Petrolatum Gauze
- ChitoHeal Gel Acne Remedy
- ChitoScar
- SilvoGel
- ChitoScrub
- Chitoulcer (ChitoHeal Dressing)
- ChitoHeal Burn Gel

Application

- Acute wounds (burn,surgery, ...)
- Chronic wounds (diabetic foot ulcers, pressure ulcer, vascular ulcer)
- Suitable for EB patients (Epidermolysis bullosa- Butterfly Children)
- others(allergy, cancer, radiotherapy, ...)

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ChitoHeal Gel

ChitoHeal Gel, a novel N-Acetyl-D-Glucosamine based gel, is a primary bioactive dressing, suitable for all types of wounds. It is a powerful wound healing product, forming a secondary skin on the site of wound protecting and healing it at the same time.

Features:

- Anti-bacterial and anti-viral
- Accelerates the rate of healing
- Scar reduction
- No toxicity, no irritation, no sensitivity

Applications:

- All types of dry to low-exudate wounds (Diabetic foot ulcers, Bed sore (I & II degree), Sun burn, burn (I & II degree))
- Cuts and Scratches
- Umbilical cord and circumcision locations
- Suitable for EB patients (Epidermolysisbullosa- Butterfly Children)
- Emergency and first aid



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptic and don't dry.
2. Place a few drops of ChitoHeal gel on the injured area. Repeat the action several times.
3. Cover the area with ChitoPad and fix it with ChitoTrans or other appropriate surgical dressing.

ChitoHeal Foam Dressing

ChitoHeal Foam dressings are primary bioactive dressing made of natural marine biopolymers that accelerates wound healing rate.

ChitoHeal Foam Dressing Features:

- Anti-bacterial/Soft and pliable
- It can absorb fluid 5 times their own weights
- High vapor transmission rate and oxygen permeability
- Accelerates the rate of healing
- Reduce scar formation
- No toxicity, no irritation, no sensitivity

Applications:

All types of wounds including:

- Burn wounds, Bed sore, Surgical wound
- Skin graft donor site, Diabetic ulcers
- Suitable for EB patients



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptic and don't dry.
2. Place ChitoHeal foam dressing on wound site.
3. Fix the Foam with ChitoTrans or other appropriate surgical dressing.

Name	Code	Size(cm)
ChitoHeal Foam Dressing	012180100	8 × 10

Name	Code	Size(g)
ChitoHeal Gel	011415	15
	011430	30
	011460	60

Debrid Gel

Debrid Gel is a primary bioactive gel, based on sodium alginate. This product is suitable for removing necrotic and slough tissues autolytically without damaging the viable healing tissue.

Features:

- Selective autolytic debridement with no pain and bleeding
- Moisturizing dry, necrotic tissues
- Non invasive
- No toxicity, no irritation, no sensitivity

Applications:

- All types of wounds with necrotic or slough tissue.



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptic. Do not dry it.
2. Place ChitoDebrid Gel on the desired area.
3. Cover it with ChitoAbsorbent or other appropriate dressing.
4. Fix it with ChitoTrans transparent adhesive or other appropriate dressing.

ChitoDebrid Pad

ChitoDebrid Pad is a primary bioactive dressing, suitable for removing necrotic and slough tissues without damaging the viable healing tissue.

Features:

- Selective autolytic debridement with no pain and bleeding
- Moisturizing dry, necrotic tissues
- Non-adhering to wound surface
- No toxicity, no irritation, no sensitivity
- Soft and flexible

Applications:

- All types of wounds with necrotic or slough tissue.



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptic. Do not dry it.
2. Place ChitoDebrid Pad on the desired area.
3. Fix it with ChitoTrans transparent adhesive or other appropriate surgical dressing.

Name	Code	Size(g)
ChitoDebrid Gel	011350	50

Name	Code	Size(cm)
ChitoDebrid Pad	011380100	8x10

ChitoPowder

ChitoPowder is a primary bioactive wound dressing suitable for tunneling or cavity wounds with minimum exudates.

Features:

- Anti-bacterial
- Acceleration of wound healing
- No toxicity, no irritation, no sensitivity

Applications:

All tunneling or cavity wounds such as:

- Bed sore
- Diabetic foot ulcers
- Burn



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptic and don't dry.
2. Sprinkle the powder on the wound site.
3. Cover the area with ChitoAbsorbent and fix it with ChitoTrans or other appropriate dressings.

Calcium Alginate Dressings

Alginate dressings are absorbent, nonadherent, biodegradable, nonwoven fibers derived from brown seaweed. They are composed of calcium salts of alginic acid. Calcium ions in alginate dressings when in contact with sodium-rich solutions such as wound drainage, undergo an exchange for the sodium ions, forming a soluble sodium alginate gel. This gel maintains a moist wound bed and supports a therapeutic healing environment.



Features:

- No toxicity, no irritation, no sensitivity
- Non-adhering to wound surface
- Highly absorbent

Applications:

Highly to moderate secreting cavity or tunneling ulcer with no necrotic tissue:

- bedsore, Leg ulcer, diabetic wound and second degree burns, pilonidal sinus.



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptic and don't dry.
2. Place the Calcium Alginate inside the wound.
3. Cover it with ChitoAbsorbent/ChitoPad and secure it with ChitoTrans or other appropriate dressing.

Name	Code	Size(g)
ChitoPowder	01122	2
	01125	5

Name	Code	Size(cm)
Calcium Alginate Dressings	0116100100	10×10
	011620300	2×30 (Ribbon)

ChitoCavity

ChitoCavity is a primary bioactive absorbent dressing suitable for highly exuding deep and cavity wounds. This product is made of natural biopolymer placed in medical grade non-adhering pouch.

Features:

- Acceleration of wound healing
- No toxicity, no irritation, no sensitivity
- Highly absorbent, non-adhering
- ChitoCavity can absorb fluid 8 times their own weights.

Applications:

Suitable for highly exuding and infected wounds such as:

- Pressure ulcers
- Diabetic foot ulcers
- Vascular ulcers



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptic and don't dry.
2. Place ChitoCavity inside the cavity. Cover it with ChitoAbsorbent and fix it with ChitoTrans or other appropriate dressing.

ChitoSorb

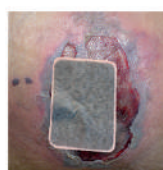
ChitoSorb is a primary bioactive absorbent dressing, made of natural biopolymers and medical grade active carbon covered with medical grade non-adhering pouch.

Features:

- Acceleration of wound healing
- No toxicity, no irritation, no sensitivity
- Highly absorbent, non-adhering to wound surface
- it can absorb fluid 3 times it's initial weight.

Applications:

- It is suitable for absorbing and eliminating odor from all infected wounds.



Instruction for use:

1. Clean the wound using SilvoSept spray or other appropriate antiseptic. do not dry it.
2. Place ChitoSorb on the desired area. Cover it with ChitoAbsorbent and fix it with ChitoTrans or other appropriate dressing.

Name	Code	Size(cm)
ChitoSorb	011580100	8×10

Name	Code	Size(g)
ChitoCavity	01113	3

Petrolatum Gauze

Petrolatum gauze is an occlusive, continuous, non-adhering dressing, with no loose threading, impregnated with white medical grade petrolatum.

Features:

- Conforms to all body contours
- Sterilized and individually packed
- No toxicity, no irritation, no sensitivity

Applications:

- All type of wounds (Burns, Radiation burns),
- Surgeries (ENT, gynecology)
- Skin grafts and cosmetic surgeries



Instruction for use:

1. Clean the wound with SilvoSept Burn spray or other appropriate antiseptic.
2. Apply the appropriate size of Petrolatum gauze to the wound.

ChitoHeal Gel Acne Remedy

ChitoHeal Gel Acne Remedy, a healing and antibacterial gel made of natural biopolymer suitable for clear acne, pimple and pustule.

Features:

- Removal of the new pimples
- Alcohol and corticosteroids free
- No toxicity, no irritation, no sensitivity

Applications:

- Various types of acne and pustule



Instruction for use:

1. Clean the desired area with SilvoSept spray or other appropriate antiseptic.
2. Spot-Apply ChitoHeal Gel Acne Remedy several times and let it dry completely.
3. Remove the dried layer after it forms.
4. Finally, wash the skin with warm water.

Name	Code	Size(g)
ChitoHeal Gel Acne Remedy	071315	15
	071320	20

Name	Code	Size(cm)
Petrolatum Gauze	0117100400	10×40
	01171001000	10×100
	01172001000	20×100
	0117100100/1	10×10

ChitoScar

Scar tissue is formed as part of the normal healing process. It inevitably forms whenever our body's tissue is damaged. ChitoScar is an antibacterial gel that accelerates scar healing process and prevents hypertrophic scar and keloid formation.

Features:

- Scar reduction
- Anti-bacterial
- A topical fast-drying gel
- No toxicity, no irritation, no sensitivity



Applications:

Suitable for all types of scars such as:

- Operation's incisions
- Scars caused by accidents
- Incisions during plastic surgeries



Instruction for use:

1. Apply after complete wound closure to reduce scar formation.
2. Ensure that ChitoScar covers the wound properly. Repeat this action 2 or 3 times a day.

SilvoGel

SilvoGel is an antimicrobial product useful for warts, herpes and treatment of blisters in pemphigus patients.

Features:

- Antibacterial and Antiviral
- Alcohol free
- Odorless and colorless
- No toxicity, no irritation, no sensitivity

Applications:

- Accelerate the rate of wound healing in Blisters arise from pemphigus vulgaris
- Herpes and warts treatment



Instruction for use:

1. Clean the surface of the wound with SilvoSept or other appropriate antiseptics. Do not dry it
2. Apply SilvoGel on the blister, vesicle, warts, etc. three times a day.
3. Cover it with appropriate wound dressing.



Before



After

Name	Code	Size(g)
ChitoScar	071525	25
	071530	30

Name	Code	Size(g)
SilvoGel	031530	30

ChitoScrub

ChitoScrub Brush is a two-sided sterile single-use brush with a lot of thin polymeric microfilaments embedded on a spongy cleaner. Also, a tiny sharp cleaner is placed in the polymeric basement, which can be used for plucking the dried skin and nail cleansing.

ChitoScrub can be used on a daily-based schedule for slough tissue removal. Also, it can be used after autolytic debridement by ChitoTech DebridGel and ChitoDebridPad to remove the wound debris and exudate, and surrounding skin flakes.

Features:

- Flexible and soft microfilaments
- Soft sponge
- Easy removal of wound debris without any damage to the newly formed granulation tissue and epithelial cells.
- Easy to use by patients or wound carers,
- The brush side can be used as complementary instrument in various debridement methods
- The sponge side can be used to absorb exudate, debris and skin keratoses during debridement.

Applications:

- Surgical scrub brushes could be used to debride wounds
- Useful for superficial wounds debridement and wiping the surrounding skin
- Diabetic foot ulcers particularly with contaminated nails
- Pressure ulcers
- Arterial and venous ulcers
- Healthy scratching of the itchy and dry wounds
- It can be used on hyperkeratotic or necrotic surfaces when they have been previously treated with autolytic debridement



To Note:

- Scrub brush is designed as a single-use instrument for wound cleaning or debridement.
- It could be used at every dressing change if needed.
- Also both of the fiber side and sponge side can be moistened by wound irrigation solutions to assist either the wound cleaning or debridement.



Before



After

Name	Code	Size
ChitoScrub	0619	-

ChitoUlcer (ChitoHeal Dressing):

ChitoUlcer dressing is a ready-made dressing that has three parts: wound healing ChitoHeal film, super absorbent pad and adhesive, which makes it easy to use. By maintaining optimal moist wound condition, having antibacterial properties and being bioactive, this dressing can support granulation tissue formation, new tissue growth and avoid scar formation.

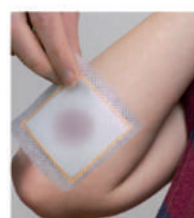


ChitoUlcer (ChitoHeal Dressing) Features:

- Soft and pliable
- Anti-bacterial
- High vapor transmission rate and oxygen permeability
- Maintaining a moist wound environment
- Reduce scar formation
- Biocompatible

Applications:

- All types of wounds (diabetic wounds, bedsores and burns)
- Wounds caused by accidents and surgical wounds (caesarean section,...)
- Plastic surgery
- EB wounds



Instruction for use:

1. Clean the desired area with SilvoSept spray or other appropriate antiseptic.
2. Place ChitoUlcer dressing on wound site.

ChitoHeal BurnGel:

BurnGel is an antibacterial emergency gel for immediate relief of minor burns and scalds (first and second degree burns). It instantly cools and soothes.

ChitoHeal BurnGel Features:

- Antibacterial
- Cools and soothes

Applications:

- Minor burns and scalds (first and second degree burns).



Name	Code	Size(g)
BurnGel	012450	50

Name	Code	Size(cm)
ChitoUlcer (ChitoHeal Dressing)	0123100100	10×10

SILVOSEPT ANTISEPTIC PRODUCTS

SilvoSept antiseptics are a novel class of non-alcoholic antiseptics using nanocolloidal silver technology. They are effective against a wide range of pathogenic microorganisms. Silver is one of the oldest metals used extensively for its antimicrobial activities throughout history. In recent years with the advent of nanotechnology various applications of nano silver have emerged and developed. Silver nanoparticles have enormous scientific, technological, and commercial potential due to their unique size and shape dependent properties.

Mechanism of action

Several mechanisms have been proposed to explain the inhibitory effects of silver ion/silver metal on bacteria. It is generally believed that nanoparticle links the host cell membrane and possibly interferes with DNA replication and prevents the bacterial proliferation.

Antiseptic products performance and safety tests

- 1- Biocompatibility tests based on ISO 10993-10, ISO 10993-5 ,...
- 2- No acute inhalation toxicity
- 3- No causing any corrosion (ASTM G31-12a)

Products

- SilvoSept Wound
- SilvoSept Burn
- SilvoSept Hand
- SilvoSept Prep
- SilvoSept Suitable prior to injection
- SilvoSept Surface and Floor
- SilvoSept Tools and Instrument

1-Tikam Chand Dakal , Anu Kumar , Rita S. Majumdar and Vinod Yadav, Mechanistic Basis of Antimicrobial Actions of Silver Nanoparticles, Front Microbiol. 2016 [1] Nov 16;7:1831

2-Soheila Kordestani, Farzaneh NayebHabib, Mohammad Hosein Saadatjo, "A novel wound rinsing solution based on nano colloidal silver". NanoMedicine Journal 1, no 5 (2014): 315-323

3-P. Mehrbod, N. Motamed, M. Tabatabaian, R.S. Estyar, E. Amini, M. Shahidi, M. Kheiri, In Vitro Antiviral Effect of Nano Silver on Influenza Virus, Journal of Pharmaceutical Sciences, 17 (2009) 88-93

SilvoSept Wound

Antibacterial wound spray, special for cleaning wounds which can eliminate a wide range of pathogenic microorganisms.

Features:

- Alcohol free, odorless and colorless,
- Easy to use,
- No toxicity, no irritation, no sensitivity.

Applications:

- Cleaning all types of wounds.
- Home and hospital use.

SilvoSept Burn

Antibacterial burn spray special for cleaning burn wounds which can eliminate wide range of pathogenic microorganisms.

Features:

- Alcohol free, odorless and colorless,
- Easy to use,
- No toxicity, no irritation, no sensitivity.

Applications:

- Suitable for I, II and III degree burns.
- Home and hospital use.



Instructions for Use:

- 1- Spray on the injured area. Repeat the action several times.
- 2- Avoid drying.



Name	Code	Size(mL)
SilvoSept Burn	031250	50
	0312100	100
	0312400	400

Name	Code	Size(mL)
SilvoSept Wound	031020	20
	031050	50
	0310100	100

SilvoSept Hand

It is a hand antiseptic spray which can eliminate wide range of pathogenic microorganisms.

Applications:

- Hand antiseptic solution in hospitals and health centers
- Hand scrub before surgeries

SilvoSept suitable prior to injection

An antiseptic spray for preparing and cleaning the injection site.

Applications:

- Cleaning area before injection instead of alcohol

SilvoSept Prep

Antiseptic special for cleaning operating areas which can eliminate pathogenic microorganisms. This product is colored in order to see the field the solution is used.

Applications:

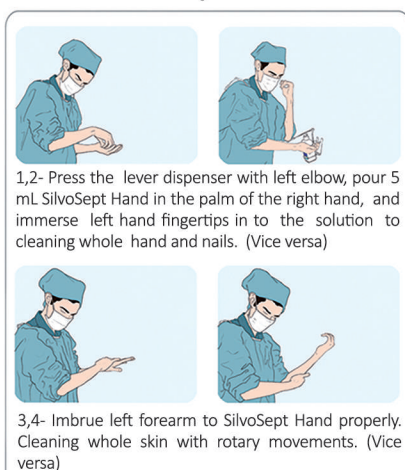
- Cleaning area before operation

Features:

- Alcohol free, odorless and colorless,
- No toxicity, no irritation, no sensitivity.



SilvoSept Hand



Name	Code	Size(mL)
SilvoSept Hand	031450	50
	03144004	400
	03141000	1000

Instruction For Use

SilvoSept Prep



Name	Code	Size(mL)
SilvoSept Prep	0313100	100
	03131000	1000

SilvoSept suitable prior to injection



Name	Code	Size(mL)
SilvoSept suitable prior to injection	0311100	100
	0311250	250

SilvoSept Tools and Instrument

This disinfectant is special for cleaning a variety of medical, surgical and dental tools that can eliminate wide range of pathogenic microorganisms.

Features:

- Alcohol free
- Causing no corrosion (ASTM G31-12a)
- Causing no bacterial resistance
- Easy to use
- No acute inhalation toxicity
- Effectiveness time: 5 minutes (ISIRI 10504/19851)

Applications

- Suitable for all hospital and dental tools and instruments



SilvoSept Surface and Floor

It is suitable for cleaning surface and floor. It can eliminate various range of pathogenic microorganisms.

Features:

- Alcohol free
- Causing no corrosion (ASTM G31-12a)
- Causing no bacterial resistance
- Easy to use
- No acute inhalation toxicity
- Effectiveness time: 5 minutes (ISIRI 10504/19851)

Applications:

- Cleaning hospital surface and floor
- Suitable for household application



Instruction For Use

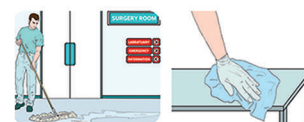
SilvoSept Tools and Instrument



Immerse the device and equipment in SilvoSept for at least 5 minutes.

Name	Code	Size(mL)
SilvoSept Tools and Instrument	0317100	100
	0317400	400
	03171000	1000

SilvoSept Surface and Floor



Pour the SilvoSept on the desired area and clean it with a suitable tool.

Name	Code	Size(mL)
SilvoSept Surface and Floor	0316100	100
	0316400	400
	03161000	1000

Hygiene Products

ChitoTech hygiene products for men and women are essential for daily cleaning. They have natural pH with skin softener. They are alcohol free and there is no need for water after application.

Several mechanisms have been proposed to explain the inhibitory effects of silver ion/silver metal on bacteria. It is generally believed that silver compound destroys the host cell membrane and possibly interferes with DNA replication and prevents the bacterial proliferation.

Products

- SilvoSept Hand Foam
- SilvoSept Body Foam
- ChitoClean Body Sponge
- SilvoSept Hygiene Foam for Women
- SilvoSept Hygiene Foam for Men

SilvoSept Hand Foam

Foam for hand hygiene, capable to perish wide range of microorganisms, leaving a soft and pleasant feeling and

Feature

- Pleasant and gentle odor
- Alcohol free and colorless
- Prevent skin dryness
- Can be used without water
- No toxicity, no irritation, no sensitivity

Application

It can be used after:

- Direct contact with the infected objects
- Contact with mucous membranes and body fluids
- Cough and sneeze



Instruction for use:

1. Apply 3 puffs of SilvoSept foam in a cupped hand, covering the entire surface.
2. Rub hands palm to palm.
3. put right palm over left dorsum of hand and vice versa.
4. Rub backs of fingers with fingers interlocked.



Name	Code	Size(mL)
SilvoSept Hand Foam	071050	50
	0710100	100
	07101000	1000

SilvoSept Body Foam

Cleanser body foam is suitable for bathing elderly, people with low mobility and people with disabilities.

Feature

- Suitable for washing and cleansing body
- Antibacterial
- Pleasant odor
- Alcohol free and colorless
- Prevent skin dryness
- Can be used without water
- No toxicity, no irritation, no sensitivity

Application

- Suitable for bathing elderly and people with low mobility on beds or wheelchairs
- Suitable for bathing disabled people and patients with spinal cord injury
- Suitable before and after swimming and sport activities and epilation.



Instruction for use:

1. Apply sufficient amount of SilvoSept body foam on the body.
2. Run with Sponge. If necessary clean with water.



ChitoClean Body Sponge

ChitoClean is a foam-releasing body sponge which contains high-quality cleanser to clean the body. This sponge has moisturizing effect and pleasant aroma. Water is not needed after cleaning and body can be dried with towel.

Feature

- Effectively remove oil and dirt
- Special cord for easier handling
- Non-allergic
- Refreshing aroma
- Skin moisturizer

Application

- Suitable for bathing elderly and disabled people with low mobility on beds or wheelchairs.



Instruction for use:

1. Wet the ChitoClean sponge completely and squeeze to release the foam
2. Rub on your skin using gentle circular motions, Avoid the eye area. Then dry with a towel.



Name	Code	Size(mL)
ChitoClean Body Sponge	0717	-

Name	Code	Size(mL)
SilvoSept Body Foam	0716100	100

SilvoSept Hygiene Foam for Woman

SilvoSept Hygiene foam is a genital cleaning foam with a pleasant scent which gently cleanses the genital area from harmful microorganisms and soothes irritation and itching.

SilvoSept Hygiene Foam for Men

SilvoSept Hygiene foam for men is a genital cleansing foam with a pleasant scent for daily cleaning of the genital area from harmful microorganisms.

Feature

- Antibacterial
- Pleasant odor
- Alcohol free and Colorless
- Balanced pH
- Can be used without water
- No toxicity, no irritation, no sensitivity
- Soothes irritation and itching



Application of SilvoSept Hygiene Foam for Women

- Suitable for soothing irritation and itching temporary (consult with your doctor for the Long-term use)
- Suitable before and after swimming and sport activities and epilation.
Before and after sexual activities.

Application of SilvoSept Hygiene Foam for Men

- Suitable before and after swimming and sport activities
- Useful after urination and shaving
- Before and after sexual activities.



Name	Code	Size(mL)
Hygiene SilvoSept Foam for Women	071150	50
	0711100	100

Name	Code	Size(mL)
Hygiene SilvoSept Foam for Men	071250	50

Instruction for use:

1. Place sufficient amount of SilvoSept foam on the clean tissue paper.
2. Apply to the area. No need to rinse or dry the area after use.

Secondary Dressings

ChitoTech secondary dressings are used to fix primary dressings and maintain them in place. These dressings promote the flow of fluid into the fluid-absorbing material.

For a perfect wound healing, all types of wounds would irrigated with SilvoSept and, depending on the wound type and grade, a suitable form of the ChitoTech bioactive dressing can be applied.

ChitoPad

Double sided non-adherent wound dressing, made up of absorbent micro-fibers.

Feature

- Highly absorbent wound pad.
- Laminated by PE network structure on both side, therefore it doesn't adhere to the wound.

Application

- Applicable for all types of wounds instead of sterile gauze.



ChitoAbsorbent

Polyester Stable Fiber, super absorbent, non-adherent wound dressing.

Feature

- Highly absorbent
- Covered by a polyethylene pouch to prevent sticking to wounds.
- No toxicity, no irritation, no sensitivity

Application

- Applicable for all types of wounds instead of sterile gauze.



Advanced Adhesive Tape

A collection of 5 pieces of variety of secondary dressing made up of non-woven backing with absorbent non-adhesive pad.

Feature

- Suitable for sensitive skins including children and elderly
- Soft, breathable backing.

Application

- All types of wounds
- Cuts, scratches and scrapes
- Emergency



Name	Code	Size
ChitoAbsorbent	04107070	7×7
	0410100100	10×10
	0410100150	10×15
	0410100200	10×20
	04101001002	10×10 Drainage

Name	Code	Size
Advanced Adhesive Tape	04225	-

Name	Code	Size(cm)
ChitoPad	041160100	6×10
	04116070	6×7
	0411100100	10×10
	0411100150	10×15
	0411100200	10×20
	0411100250	10×25
	0411100300	10×30

ChitoFix

Transparent waterproof protective adhesive



Code	Size(cm)
0418100100	10×10
0418100150	10×15
0418100250	10×25

ChitoPore

Secondary dressing made up of non-woven backing with absorbent non-adhesive pad.



Code	Size(cm)
04195010000	5 cm ×10m
041910010000	10cm×10m
041915010000	15cm×10m

Advanced First Aid

ChitoTech First Aid Boxes are designed to be used on any type of injuries, so that it prevents more damage until the person can reach the nearest medical center.

Advanced First Aid Box

Initial dressing in emergency wound management. Necessary for wound treatment at homes, schools, workplaces and etc.



Car First Aid Box

First aid and emergency treatment in case of accidents.



General Dressing Kit

Suitable for dressing wounds and Operation's incisions.



Name	Code	Size(cm)	Size(cm)
Advanced First Aid Box	0214	11×13	SilvoSept, ChitoHeal Gel, HemoGauze, Wound Adhesive,...
Car First Aid Box	0211	20×25	SilvoSept, ChitoHeal Gel, HemoGauze, Thermometer, Cold compress,...
General Dressing Kit	0210	22×25	Sterile Gauze, Galipot, Cotton Swab, Adhesive tape,...