



**ChitoTech<sup>®</sup>**

New Thinking In HealthCare



Representative



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# Certificates

**kiwa**  
Partner for progress

Key Number: 18893-01 Issue Date: 2017-08-28  
 Expiry Date: 2017-08-28 Last Issuance Date: 2017-08-28  
 Reference No.: 2019-01-28

**Quality Management System Certificate**  
**ISO 13485:2003**

We certify that the Quality Management System of the Organization  
**CHITOTECH (KEFIAT TOLID TAKAPO)**  
 is in compliance with the standard UNI CEI EN ISO 13485:2012 for the following  
 product/service:  
**Design and production of advanced wound care, hemostatic and plastic  
 products**

Chief Operating Officer  
 Giuseppe De Santis

Measurement of the certificate is subject to annual factory participation upon the intervention of the  
 Control Unit, contractual requirement

The certificate consists of 1 page

**CHITOTECH (KEFIAT TOLID TAKAPO)**  
 Registered Headquarters:  
 Via. 2001 S. 11 (San Vito), No. 43 (Migliorini Building) Sarnano (MC) - Tolosa (P.A.)  
 Italy  
 Via. 2001 S. 11 (San Vito), No. 43 (Migliorini Building) Sarnano (MC) - Tolosa (P.A.)  
 Italy

**CERMET** **IAF** **ACCREDIA**

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**CERMET** **IAF** **ACCREDIA**

Europatent  
 Patentamt

European  
 Patent Office

Office européen  
 des brevets

Urkunde Certificate Certificat

It is hereby certified that the European patent No. 1248653 has been granted to the proprietor(s) named in the annexed list of names in respect of the invention described in the annexed claims, which are hereby certified to be new, to be inventive and to be susceptible of industrial application.

European Patent No. 1248653

Proprietor of the Patent: Kevlar Europe

13.08.02

**Patent Office**  
 PATENTS • DESIGNS • TRADE MARKS

**Certificate of Grant of Patent**

Patent Number: GB2350354  
 Proprietor(s): BTU International Limited  
 Inventor(s): Sabela S Kvedarova

This is to Certify that, in accordance with the Patents Act 1977,  
 a Patent has been granted to the proprietor(s) for an invention entitled  
**"Polymeric film"** disclosed in an application filed 13 December 1999.

Dated 31 July 2002

Alison Brindley  
 Controller General of Patents,  
 Designs and Trade Marks  
 UNITED KINGDOM PATENT OFFICE

The attention of the proprietor(s) is drawn to the important notes overleaf.

# Introduction

ChitoTech was developed from a research facility for studying marine biopolymers and their applications in medicine. The manufacturing site of the company was established in 2004. ChitoTech activities are based on cutting-edge technologies, producing advanced wound care, hemostatics and colloidal silver antiseptics, as well as, hygiene and advanced first aid kits. Products in ChitoTech have the approval of Ministry of Health, as well as, CE and ISO13485 certificates. Our technology is protected by 5 European and 22 National patents.

ChitoTech active R&D department attempts to develop new products based on latest technologies. In this regard, HealApp, a powerful wound care application has been developed for smart wound healing management that measures the wound size and reports the healing progress.

Furthermore, ChitoGun a smart needle-free device, has been completed now. ChitoGun eliminates needle for injection and adjusts the depth of injection according to the patient's weight. ChitoTech aims to provide safe, high quality and non-invasive products for consumers and healthcare systems.

## Product list

1. Antiseptic products
2. Hemostatic products
3. Wound healing product
4. Hygiene products
5. First aid boxes
6. Secondary dressings

**NEW**

1. HealApp
2. Needle free injection



# Antiseptics

## Description

SilvoSept antiseptics are a novel class of non-alcoholic antiseptics using nanocolloidal silver technology. They are effective against a wide range of pathogens including bacteria, viruses and fungus.

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 Actions

Several mechanisms have been responsible for the inhibitory effects of silver ion/silver metal on bacteria. Generally believed that destroys the host cell membrane and possibly interferes with DNA replication and prevents the bacterial proliferation.

## Products

### Antiseptics

- |                    |  |
|--------------------|--|
| 1. SilvoSept Wound | 5. SilvoSept suitable prior to injection |
| 2. SilvoSept Burn  | 6. SilvoSept Prep                        |
| 3. SilvoGel        | <b>Disinfectants</b>                     |
| 4. SilvoSept Hand  | 7. SilvoSept surface and floor           |
|                    | 8. SilvoSept Tools and Instrument        |

### Publications

1. A novel wound rinsing solution based on nano colloidal silver, NanoMedicine Journal vol 1, no 5. 2014.
2. In Vitro Antiviral Effect of "Nanosilver" on Influenza Virus, Scientific Information Database vol 17, no 2., 2009.
3. Antimicrobial activity of Iranian "SilvoSept" compared with povidone iodine for hand scrub before surgery and its utility as an alternative solution from the perspective of the surgical team, Koomesh, 2015.



### SilvoSept Wound

Antimicrobial wound spray containing nano-silver particles for cleaning wounds.

#### Applications

- Cleaning all types of wounds (Diabetic and bed sore wound)
- Suitable wound irrigation solution before wound debridement



### SilvoSept Burn

Antimicrobial burn spray.

#### Applications

- Suitable for I, II and III degree burns

#### Features

- Biocompatible
- Alcohol free
- Odorless and colorless



### SilvoGel

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

#### Applications

- Accelerate wound healing in pemphigus ulcers
- Herpes simplex treatment
- Warts treatment

Code	Name	Size
031020	SilvoSept wound	20 mL
032850		50 mL
0310100		100 mL
031265	SilvoSept Burn	65mL
0312100		100mL
0312400		400mL
031530	SilvoGel	30 g



### SilvoSept Hand

An antiseptic solution for hand based on nano-colloidal silver.

#### 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 the injection site, without alcohol

#### Features

- Biocompatible
- Alcohol free
- Odorless and colorless



### SilvoSept Prep

An antimicrobial spray special for cleaning operating areas which can eliminate viruses, bacteria and fungus. With a special color due to determine the prep location.

#### Applications

- Disinfectant for operating rooms

Code	Name	Size
031450		50mL
03144004	SilvoSept Hand	400mL
03141000		1000mL
0311100	SilvoSept suitable prior to injection	100 mL
0311250		250 mL
0313100	SilvoSept Prep	100 mL
03131000		1000 mL



### SilvoSept surface and floor

A solution for cleaning surface and floor.

#### Applications

- Cleaning hospital surface and floor
- Suitable for household application.

#### Features

- Alcohol free
- Odorless and colorless
- No acute inhalation toxicity
- No corrosion
- No acute inhalation toxicity
- No corrosion

### SilvoSept Tools and Instrument

A disinfectant spray for cleaning a variety of medical, surgical and dental tools.

#### Applications

- Suitable for all tools and instruments in hospital
- Suitable for flexible endoscopies, Anesthetic devices and dental tools

Code	Name	Size
0316100	SilvoSept surface and floor	100mL
0316400		400mL
03161000		1000 mL
0316100010		1/1(ready to use) 1000 mL 1/10 (concentrated)
0317100	SilvoSept Tools and Instrument	100mL



# Hemostatics

## Description

ChitoTech Hemostatic Products are made up of natural cellulosic biopolymers that lead rapid hemostasis in arterial, venous and capillary bleedings, following trauma, surgery, angiography, dentistry, nasal and mouth bleedings, hemodialysis, vascular problems and coagulation disorders.

They save patients' life, and decrease the costs and the duration of hospitalization, blood transfusions and transmission of infection.

Furthermore, these products have been increasingly used in the field of inherited bleeding disorders such as hemophilia, Glanzmann and Von Willebrand disease. ChitoTech Hemostatic Products are safe and effective for diabetic patients.

## Mechanism of Actions

ChitoTech hemostatic products absorb blood plasma, therefore increase the concentration of clotting factors and platelets aggregation in the affected site. Providing a matrix for platelet adhesion leads to accelerate the platelet plug formation. According to biocompatibility tests, ChitoTech hemostatic products are biocompatible, with no evidence of cytotoxicity, inflammation, skin irritation, acute or chronic toxicity, genotoxicity or other complications related to incompatibility.

## Products

- |                |             |                  |
|----------------|-------------|------------------|
| 1.ChitoHem     | 4.HemoFoam  | 7.DenTamp        |
| 2.ChitoCell    | 5.HemoGauze | 8.DentalCell     |
| 3.ChitoCell UT | 6.EpiCell   | 9.Combat Bandage |

### Publications

- 1.Mirzaei R, Mahjoobi B, Kordestani SS, NayebHabib F. ChitoHem hemostatic powder compared with electro-cautery anorectal surgery: A randomized controlled trial.
- 2.Darbemamieh G, Hashemi A, Kordestani SS, Karimian F, Najarian S. A novel haemostatic powder delivery device applicable in minimally invasive surgery. *Journal of medical engineering & technology*. 2014 Jan 1;38(1):32-6.
- 3.Soheila S, Kordestani, Aref Rezaimanesh, Farzaneh NayebHabib. The use of oxidized regenerated cellulose (ChitoCell®) in open surgeries. 5th international conference on science and technology, France, 2016
- 4.Kordestani, Soheila S.,Noohi.F, Azarnik.H, Basiri.H, Hashemi.M.J., S.Abdi, A.Mohebi and NayebHabib.F. "A randomized controlled trial on the hemostasis of femoral artery using topical hemostatic agent." *Clinical and Applied Thrombosis/Hemostasis* 18, no.5 (2012):501-505.
- 5.Eshghi P, Jenabzade A, Habibpanah B. A self-controlled comparative clinical trial to explore the effectiveness of three topical hemostatic agents for stopping severe epistaxis in pediatrics with inherited coagulopathies. *Hematology*. 2014 Sep 1;19(6):361-4.
- 6.MH KM, Navi F, Rouhipour R, Jafari SM. Hemostatic tampon to reduce bleeding following tooth extraction. *Iranian Red Crescent Medical Journal*. 2012 Jun;2012(6, Jun):386-8.





### ChitoHem

Sterile hemostatic and absorbable powder for all type of arterial, venous and capillary bleedings with one minute clot formation.

#### Applications

- Emergency
- Orthopedic and ENT surgeries
- Laparoscopy
- Angiography
- Inherited clotting disorders
- Diabetic wounds' bleeding

#### Features (ChitoHem,HemoFoam)

- Biocompatible
- Absorbable in body fluids
- Structure
- Easy to use



### HemoFoam

A soft Flexible porous hemostatic sponge, based on natural biopolymers. Absorbing blood up to 8 times of its initial weight within two minutes.

#### Applications

- For dialysis patients
- Hemodialysis



Code	Name	Size
05111.05113.05115	ChitoHem (MiniHemovag)	1gr.3gr.5gr
052205		0.5gr
05221	ChitoHem	1gr



### ChitoCell

A non-woven oxidized regenerated cellulosic pad that accelerates hemostasis and absorbs in less than 28 days.

#### Applications

- For all surgeries, anastomosis, tumor beds, -neurosurgeries and plastic surgeries.
- For patients with coagulation disorders
- Soft and comfortable and applicable for all parts of body

#### Features(ChitoCell, Chitocell UT)

- Sterile
- Biocompatible
- Low pH
- Absorbing blood fluid
- High swelling capacity

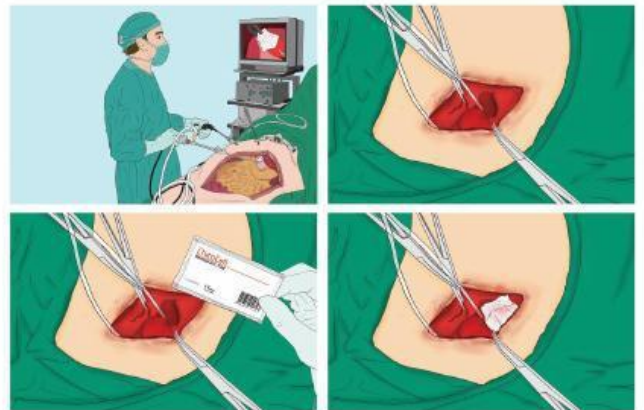


### ChitoCell Ultra Thin

A non-woven ultra-thin hemostatic pad based on oxidized regenerated cellulose for rapid hemostasis.

#### Applications

- Neurosurgery
- Spinal surgery
- Laparoscopy



Code	Name	Size
05105080	ChitoCell	5×8 cm
051050350		5×35 cm
0510100200		10×20 cm
05215080	ChitoCell	5×8 cm
052150350		5×35 cm
0521100200		10×20 cm



### HemoGauze

Soft and pliable oxidized gauze for the small veins and capillary bleeding.

#### Applications

- Capillary bleeding
- Household wounds, abrasions and cuts

#### Features

- Biocompatible
- Immediate hemostasis
- Soft and flexible



### EpiCell

A hemostatic nasal tampon for patients' self-application in controlling epistaxis.

#### Applications

- Nasal bleedings (Epistaxis)
- Suitable for patients with coagulation disorders
- In two sizes for adults and children

#### Features (EpiCell. Dentamp)

- Biocompatible
- Immediate Hemostasis
- Soft and flexible
- Safe thread for easy removal



### DenTamp

An oxidized cellulose hemostatic tampon for dental applications.

#### Applications

- Dental extraction site
- Oral surgeries
- Suitable for patients with coagulation disorders such as Von Willebrand disease, Glanzmann disease and Hemophilia

Code	Name	Size
0514100400	HemoGauze	10×40 cm
0513530	EpiCell for childrens	Children
0513835	EpiCell for adults	Adult
0517150150	Dentamp	15×15mm





## BoneHem

A novel and antibacterial hemostatic powder based on nanotechnology, suitable for stopping bone bleeding.

### Applications

- Immediate hemostasis.
- For bleeding bone surfaces

### Features

- Based on nanotechnology
- Ready to use (No need to pre-preparation)
- Immediate hemostasis: less than one minute
- Accelerates bone healing
- Antibacterial



## HemoStop

A gel based on nanotechnology, suitable for all types of bleedings. It can be used for emergency and first aid.

Nano particles in HemoStop, accelerate hemostasis and improve wound healing in damaged tissue.

### Applications

- Rapid hemostasis in household injuries
- Emergency
- First aid

### Features

- Antibacterial
- For all diabetic patients
- For coagulation disorders such as hemophilia and Von Willebrand disease

Code	Name	Size
05252	BoneHem	2 g
052610	HemoStop	10 g



## Combat Bandage

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

- 1.Hemostatic dressing supported by superabsorbent pad
- 2.A clip device
- 3.Pressure bar that applies up to 207 kPa of pressure on the bleeding site.

A hooking end which secures the bandage tightly, therefore there is no further need for adhesive dressings.

### Applications

- First aid in the following case:
- Emergency
- Road accidents
- Military forces
- Life-threatening bleeding

### Features

- Biocompatible
- Severe bleedings
- Soft and comfortable
- Suitable for all types of external bleeding
- Sterile
- Quick and easy self-application



Code	Name	Size
05181502000	Combat Bandage	15cm×2 m

# Wound Healing

## Description

Advanced wound healing products, as the first products of ChitoTech are based on the latest medical achievements of science and practical principles of moist wound healing. The dressings are biocompatible and made from N-acetyl – D- Glucosamine which activate effective factors particularly macrophages in wound healing. They are capable of absorbing wound exudates to moistures the wound site. wound healing is a multifactorial, complicated, physiological process. Cellular and biochemical components as well as enzymatic pathways play pivotal roles during the regeneration and recovery of a wound tissue. ChitoTech wound healing products are seamless dressings providing treatments from the initial stage of the wound to the final remodeling stage.

## Mechanism of Actions

They accelerate wound healing process up to 70%, by increasing population of macrophages, immune system essential bio- molecules and maintaining optimal moist wound condition.

## Products

- |                           |                              |
|---------------------------|------------------------------|
| 1.ChitoHeal Gel           | 6.ChitoPowder                |
| 2.ChitoHeal Foam Dressing | 7.Calcium Alginate           |
| 3.Debrid Gel              | 8.ChitoScar                  |
| 4.ChitoCavity             | 9.Petrolatum Gauze           |
| 5.ChitoSorb               | 10.ChitoHeal Gel Acne Remedy |

### Publications

- 1.S. Honardar, S.S. Kordestani, M. Daliri, F. NayebHabib, "The effect of chitosan-based gel on second degree burn wounds." *Journal of wound care* 25, no.8 (2016): 489-494. 2.
- 2.Bahman Ebrahimi-Hosseinzadeh\*, Mirsepehr Pedram , Ashrafalsadat Hatamian-Zarmi, Soheila Salahshour-Kord- estani , Mahtab Rasti, Zahra Beagom Mokhtari-Hosseini Debrid Gel ChitoDebrid Pad ChitoHeal Gel ChitoHeal Foam Dressing ChitoPowder ChitoCavity ChitoSorb Calcium Alginate Petrolatum Gauze ChitoScar ChitoHeal Gel Acne Remedy, and Mohammad Mir-Derikvand. "In vivo Evaluation of Gelatin/Hyaluronic Acid Nanofiber as Burn-wound Healing and Its Comparison with ChitoHeal Gel." *Journal of Fibers and Polymers* 17, No.6 (2016): 820-826.
- 3.Soheila S.kordestani, Farzaneh NayebHabib, Mitra S.Abyaneh, "The role of advanced bioactive wound dressing in treating diabetic foot ulcers." *Journal of JSM foot Ankle* 1, No.1 (2016): 1-9.
- 4.Soheila S. Kordestani, "Natural Bio- polymers: Wound Care Applications". *Encyclopedia of Biomedical Polymers and Polymeric Biomaterials*, (2014):1- 14.
- 5.Kordestani, Soheila S., Shahrezaee. M, Tahmasbi.M.N., Hajimahmodi.H, Hahi Ghasemali.D., Abyaneh.M.S." A random- ized controlled trial on the effectiveness of an advanced wound dressing used in Iran." *Journal of wound care* 17, no.7 (2008):323-327.





**ChitoHeal Gel**

A powerful wound healing gel that provides a primary bioactive dressing, suitable for all types of superficial wound.

**Applications**

- All types of dry to low-exudate wound first degree burn and Sunburn
- First degree diabetic foot ulcers
- Cuts and Scratches
- Umbilical cord and circumcision wounds
- Emergency

**Features**

- Biocompatible
- Antibacterial
- Faster wound healing and re-epithelialization
- Reduction of collagen deposition, and preventing severe scar formation



**ChitoHeal Foam Dressing**

A primary bioactive dressing made of natural marine biopolymers that accelerates wound healing rate with more than 300% SBF uptake.

**Applications**

- All types of second degree wound with moderate exudates:
- Burn wounds
- Bed sores
- Surgical wounds
- Skin graft donor site
- Diabetic ulcers
- Suitable for EB patients

**Features**

- Biocompatible
- Soft and pliable
- High vapor transmission
- Oxygen permeability
- Maintaining a moist wound environment
- Pain relief

Code	Name	Size
011430	ChitoHeal Gel	15 g
011460		30 g
012180100	ChitoHeal Foam Dressing	8×10cm



### Debrid Gel

A primary bioactive dressing made of sodium alginate for removing necrotic and slough tissues autolytically without damaging the surrounding tissues.

### Applications

-All types of wound with necrotic or slough tissue

### Features

- Biocompatible
- Selective autolytic debridement without pain and bleeding
- Moisturizing dry and necrotic tissues
- Non-adhesive



### Debrid Pad

ChitoDebrid Pad is a primary bioactive dressing, for removing necrotic and slough tissues without damaging the surrounding tissues.

### Applications

-All types of wound with necrotic or slough tissue

Code	Name	Size
11350	Debrid Gel	50 ml
011380100	Debrid Pad	8×10cm



### ChitoPowder

A primary bioactive wound dressing suitable for tunneling or cavity wounds with minimum exudates. (Inactive wounds).

#### Applications

- All tunneling or cavity wounds with slough tissues
- Pressure ulcers
- Diabetic foot ulcers
- Third degree burns

#### Features

- Biocompatible
- Accelerates wound healing
- Antibacterial



### Calcium Alginate

A highly absorbent dressing that gradually forms a non-adherent moist soft gel in the presence of sodium ions of wound exudates.

#### Applications

- Moderate to highly secreting cavity wound
- Tunneling ulcer without necrotic tissue
- Pressure ulcers
- Vascular ulcers
- Diabetic foot ulcers
- Pilonidal sinus

#### Features

- Biocompatible
- Non-adhesive to the sensitive healing tissue
- Easily removal
- Creates a moist wound environment

Code	Name	Size
01122	ChitoPowder	2 g
01125		5 g
0116100100	Calcium Alginate	10×10 cm
011620300	Calcium Alginate Ribbon	2×30 cm





### ChitoCavity

A primary bioactive absorbent dressing for highly exuding deep wounds and cavity wounds. This product is made of natural biopolymer within a non-adhering

#### Applications

- Suitable for highly exuding and infected wounds such as:
- Pressure ulcers
- Diabetic foot ulcers
- Vascular ulcers

#### Features

- Biocompatible
- Accelerates wound healing
- Highly absorbent
- Non-adhesive
- SBF Uptake  $\geq 200\%$



### ChitoSorb

A primary bioactive absorbent dressing, made of natural biopolymers and activated carbon covered by non-adhering pouch.

#### Applications

- Absorbs the wounds' exudates and eliminates the odor of all infected wounds

#### Features

- Biocompatible
- Accelerates wound healing
- Non-adhesive
- SBF Uptake  $\geq 300\%$

Code	Name	Size
01113	ChitoCavity	3g
011580100	ChitoSorb	8x10 cm



### ChitoScar

An antibacterial gel that accelerate scar healing process and prevents hypertrophic scar and keloid formation.

#### Applications

- Suitable for children and adults with large scars
- Suitable for all types of scar such as:
  - Surgical incisions
  - Scars caused by accidents
  - Plastic surgery incisions

#### Features

- Biocompatible
- Topical fast-drying gel
- Antibacterial effects



### ChitoHeal Gel Acne Remedy

A healing and antibacterial gel made of natural biopolymers which is suitable to cure acne, pimple and pustule.

#### Applications

- Face acne
- Pustule
- Pimple

#### Features

- Biocompatible
- Alcohol free
- Corticosteroids free
- Antibacterial effects

Code	Name	Size
071530	ChitoScar	30 mL
071315	ChitoHeal Gel Acne Remedy	15 mL



## Petrolatum Gauze

A fine-mesh, occlusive non-adhesive dressing, impregnated with white medical

## Applications

All types of non-exudating wound

- Burns
- Radiation burns
- Umbilical cord removing
- Circumcision
- ENT, gynecology, and cosmetic surgeries
- Skin grafts with large scars

## Features

- Biocompatible
- Equipped by a special applicator
- Applicable for all parts of the body
- Sterile
- Separately packed



Code	Name	Size
0117100400		10×40 cm
01171001000		10 cm×1 m
01172001000	Petrolatum Gauze	20 cm×1 m
0117100100		10×10 cm

# Secondary Dressings

## Description

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.



### ChitoPad

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

### Applications

-For all types of wounds instead of sterile gauze

### Features

-Highly absorbent wound pad  
-Laminated by PE on both sides to form non-adhesive surface



### ChitoAbsorbant

Super absorbent non-adherent wound dressing made of Polyester Stable Fiber.

### Applications

-Highly secreting wounds  
-Drainage sites  
-Burns  
-Ostomy sites

### Features

-Super absorbent  
-Covered by a PE pouch to prevent from sticking to the surface of the wound  
-Fast transition of exudates

Code	Name	Size
0411100100	<b>ChitoPad</b>	10×10 cm
0411100150		10×15 cm
0411100200		10×20 cm
0411100250		10×25 cm
0411100300		10×30 cm
04107070	<b>ChitoAbsorbant</b>	7×7 cm
0410100100		10×10cm
0410100150		10×15cm
0410100200		10×20cm
04101001002		Drainage 10×10 cm

#### Publications

Kordestani, Soheila S., Shahrezaee. M, Tahmasbi.M.N., Hajimahmodi.H, Hahi Ghasemali.D., Abyaneh.M.S." A randomized controlled trial on the effectiveness of an advanced wound dressing used in Iran." Journal of wound care 17, no.7 (2008):323-327.



# CIP

## ChitoTech Algorithm for Acute Wound Healing

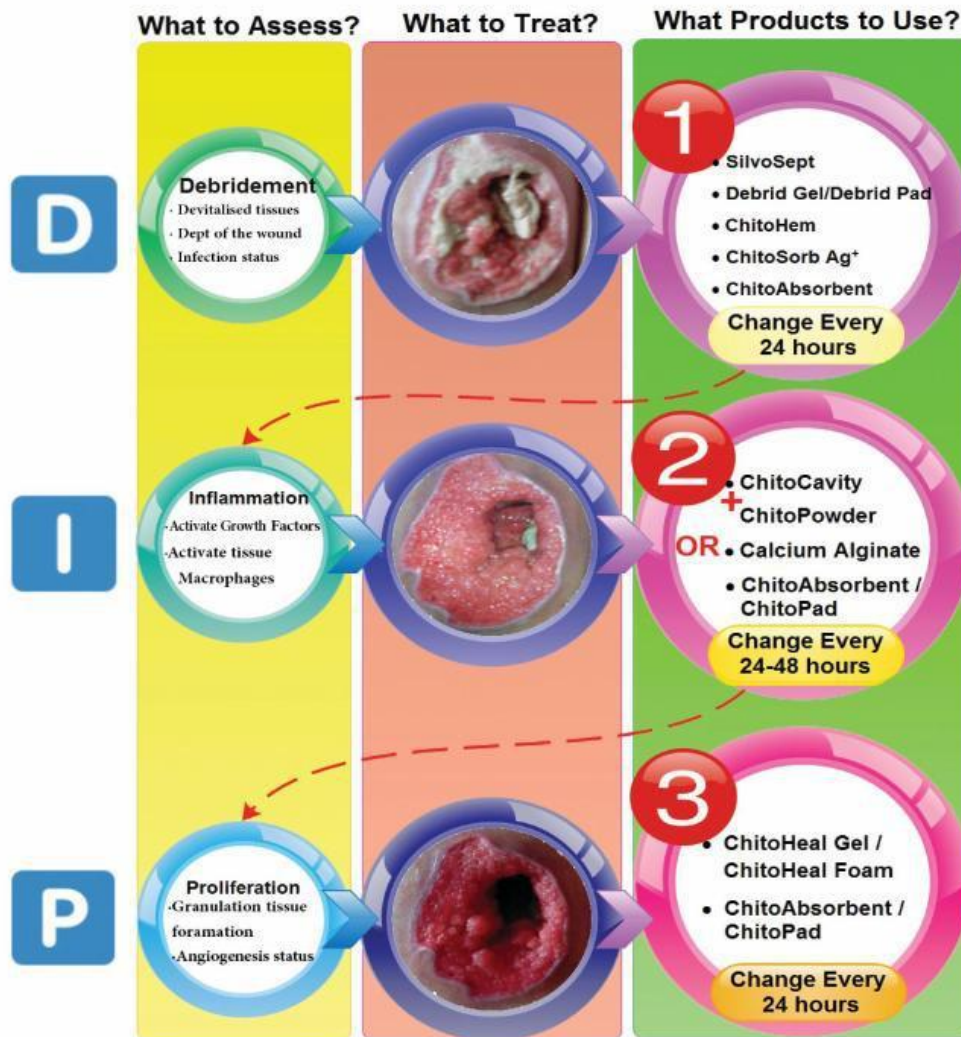


\* Always disinfect your wound with SilvoSept spray.

\*\* According to the patient's condition and wound secretion use ChitoCavity+ChitoPowder OR Calcium Alginate.

# DIP

## ChitoTech Algorithm for Chronic Wound Healing



\* Always disinfect your wound with SilvoSept spray.  
 \*\* According to the patient's condition and wound secretion use ChitoCavity+ChitoPowder OR Calcium Alginate.

# Hygiene Products

## Description

ChitoTech hygiene products are suitable for personal care of women and men. These products have natural pH with skin softener. They are alcohol free and there is no need to rinse after application. ChitoTech hygiene products are suitable for daily use.

## Products

1. Caspia Foam for Women
2. Caspia Foam for Men
3. SilvoSept Hand Foam
4. SilvoSept Body Foam



## Publications

- 6.S. Honardar, S.S. Kordestani, M. Daliri, F. NayebHabib, "The effect of chitosan-based gel on second degree burn wounds." Journal of wound care 25, no.8 (2016): 489-494. 2.
- 7.Bahman Ebrahimi-Hosseinzadeh\*, Mirsepehr Pedram , Ashrafalsadat Hatamian-Zarni, Soheila Salahshour-Kordestani , Mahtab Rasti, Zahra Beagom Mokhtari-Hosseini Debrid Gel ChitoDebrid Pad ChitoHeal Gel ChitoHeal Foam Dressing ChitoPowder ChitoCavity ChitoSorb Calcium Alginate Petrolatum Gauze ChitoScar ChitoHeal Gel Acne Remedy, and Mohammad Mir-Derikvand. "In vivo Evaluation of Gelatin/Hyaluronic Acid Nanofiber as Burn-wound Healing and Its Comparison with ChitoHeal Gel." Journal of Fibers and Polymers 17, No.6 (2016): 820-826.
- 8.Soheila S.kordestani, Farzaneh NayebHabib, Mitra S.Abyaneh, "The role of advanced bioactive wound dressing in treating diabetic foot ulcers." Journal of JSM foot Ankle 1, No.1 (2016): 1-9.
- 9.Soheila S. Kordestani, "Natural Bio- polymers: Wound Care Applications". Encyclopedia of Biomedical Polymers and Polymeric Biomaterials, (2014):1- 14.
- 10.Kordestani, Soheila S., Shahrezaee. M, Tahmasbi.M.N., Hajimahmodi.H, Hahi Ghasemali.D., Abyaneh.M.S." A randomized controlled trial on the effectiveness of an advanced wound dressing used in Iran." Journal of wound care 17, no.7 (2008):323-327  
HSCode = 38089490





### Caspia Foam for Women

A daily vaginal cleansing foam with pleasant odor that cleanses the vaginal area.

#### Applications

- Daily cleaning of vaginal area
- Suitable before and after sport activities and epilation

### Caspia Foam for Men

A daily cleansing foam for male genital area with pleasant odor.

#### Applications

- Daily cleaning of genital area
- Useful after shower, urination, shaving and sport activities
- Before and after sexual activities

### Features (Caspia Foam for men and women)

- Soothes irritation & itching
- Alcohol free
- Colorless
- Pleasant odor
- Effective against microorganism including Candida-Albicans and Herpes (HSV-1)
- Balanced pH
- No need to rinse

Code	Name	Size
071150	Caspia Foam for Women	50 mL
0711100		100 mL
071250	Caspia Foam for Men	50 mL





### SilvoSept Hand Foam

A foam for hand disinfection, eliminates a wide range of microorganisms, leaving a soft and pleasant feeling and scent.

#### Applications

- After direct contact with the contaminated objects
- Contact with mucous membranes and body fluids

#### Features

- Effective against microorganisms
- Pleasant odor
- Alcohol free
- Colorless
- Skin softener
- No need to rinse



### SilvoSept Body Foam

Cleansing and antiseptic body foam.

#### Applications

- Suitable for bathing elderly, patients with low mobility on beds or wheelchairs, disabled people and patients with spinal cord injuries
- Before and after sport activities and epilation

#### Features

- Biocompatible
- Pleasant odor
- Alcohol free
- Colorless
- Suitable for washing -and cleansing body
- No need to rins

Code	Name	Size
071050	SilvoSept Hand Foam	50 mL
07101000		1000 mL
0716200	SilvoSept Body Foam	200 ml

# First Aid Boxes

## Description

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.

In all ChitoTech First Aid Boxes there are hemostatic products to stop bleeding immediately

## Products

- 1-Companion First Aid Bag
- 2-Advanced First Aid Box
- 3-Car First Aid Box

### Companion First Aid Bag

Suitable for dressing superficial wounds



### Applications

- Necessary for wounds or scratches occurring during picnics recreational program
- Outdoor injuries

### Features

Compact bag containing antiseptic solutions, wound healing and suitable dressings





### Advanced First Aid Box

Initial dressing in emergency wound management.

#### Applications

Necessary for wound treatment at homes, schools, workplaces and etc

#### Features

-Contains antiseptic solutions, suitable dressings, wound healing and hemostatic products.



### Car First Aid Box

First aid and emergency treatment in case of accidents.

#### Applications

Vital for car accident injuries

#### Features

-Contains antiseptic solutions, suitable dressings, wound healing and hemostatic products.



Code	Name	Size
0212	Companion First Aid Bag	9×12.5×3.3cm
0214	Advanced First Aid Box	11×13cm
0211	Car First Aid Box	20×25 cm

# ChitoGun

## Description

ChitoGun, the new product by ChitoTech, is a needle-free injection device that delivers medicine to intramuscular and subcutaneous tissue depths without using needles. This smart device can be adjusted for different depth of injection according to the patient's weight. The drug distribution is controlled by the depth of injection.

## Features and benefits

- No more needle phobia
- Avoid needle contamination
- Easy to use
- Suitable for patients in need of frequent injection (i.e. diabetic patients)
- The device is smart and the drug depth of injection can be adjusted.
- ChitoGun provides conical drug distribution to increase the drug deliver efficacy.



Code	Name
0613	ChitoGun



# HealApp

## Description

### A powerful cognitive wound care application

ChitoTech Inc., has developed a mobile application for android and iOS platforms, as well as, PCs, that provides continuous assessment of wound size and as a result, wound healing progress.

HealApp can provide continuous monitoring at hospitals, wound care centers, and even at patients' homes allowing clinicians to do follow-up care remotely with accurate information provided by HealApp.

HealApp uses artificial intelligence (AI) to evaluate the size, shape and color of the wound and tracks the changes taking place in the patient's wound.

The image is showing the topology, shape, color, and size of the wound then analyzed by HealApp to report the wound healing progress. HealApp combine these results with the patient's clinical information which entered to the software before, then assist the clinicians to diagnose the wound faster and more accurately.

HealApp is a powerful cognitive tool that help clinicians and nurses in wound care field, can save patients' lives and reduce hospital costs immensely

## Features and benefits

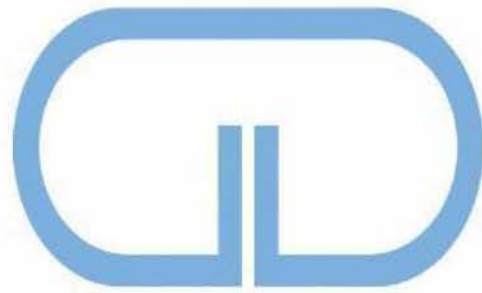
### For clinicians and nurses

- No more need for patient presence, HealApp reduce the cost of treatment and the duration of hospitalization
- No more paper work, HealApp digitally records the patient's history and documents.
- Fast and accurate measurement of wound size and colors using artificial intelligence.

### For patient

- User friendly
- Can be run on iOS and android devices
- HealApp increases the patient comfort and compliance by providing the highest level of continuous care without leaving home





# ChitoTech<sup>®</sup>

New Thinking In HealthCare

Representative



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