

**FIGYELEM!**

**A DOKUMENTUM A NYUGALOM  
MEGZAVARÁSÁRA ALKALMAS  
KÉPEKET TARTALMAZ!**

HYALURONIC ACID  
&  
IODINE

Hyiodine



# WHAT IS HYIODINE

Medical device class III

Wound care gel based on  
hyaluronic acid and iodine

Designed for healing deep wounds

**Hyiodine**  
HEALS DEEP WOUNDS



# MARKET SEGMENT

Chronic, deep wounds

Fistulae, cavities, deep pockets

Deep diabetic foot ulcers

Target group of healthcare professionals

Surgeons, Internists, Podiatric specialists

# INDICATION

Wounds complicated with deep parts

- Fistulae, cavities, pockets

Deep diabetic foot ulcers

- Great efficacy

Dehisced wounds after surgery

- Sternal and abdominal wounds



# TWO ACTIVE SUBSTANCES FOR A GUARANTEED RESULT

**Hyiodine**  
HEALS DEEP WOUNDS

## EFFECT

## SAFETY

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**HYALURONIC  
ACID** 1,5 %

Initiates and regulates healing process  
Supports granulation  
Helps with angiogenesis

Natural component of ECM  
No risk of allergic reactions  
Safely metabolised

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**IODINE  
COMPLEX** 0,25 %

Effective antiseptic against G+/G- bacteria  
Does not slow the healing process  
No bacterial resistance

Natural form of iodine (I<sub>2</sub>) at low concentration  
No allergic reactions reported  
Naturally secreted from the body in urine

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# COMPETITIVE ADVANTAGE

**Hyiodine**  
HEALS DEEP WOUNDS

Highly effective in healing the deepest wounds

STRONG SUPPORT  
OF GRANULATION



Supports viability and migration of cells  
Promotes angiogenesis

REGULATES  
INFLAMMATION



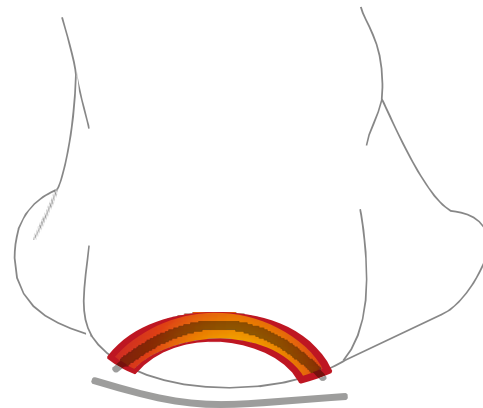
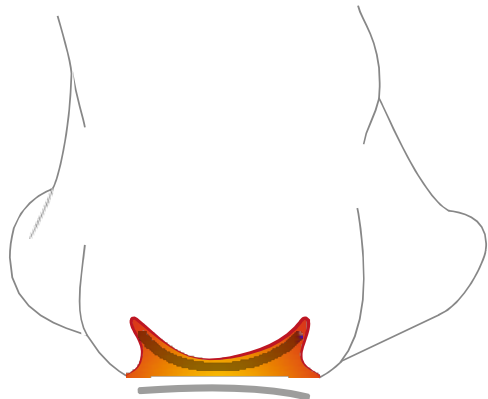
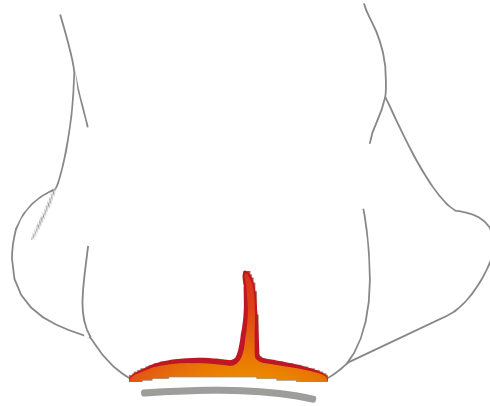
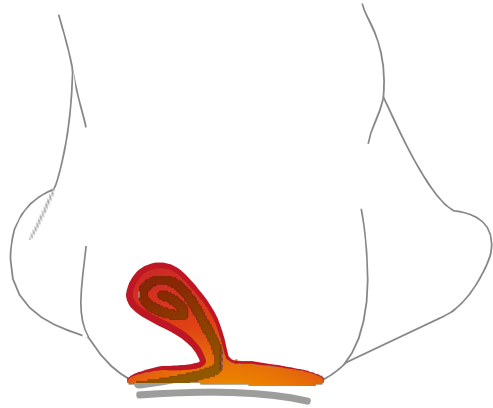
Manages infection  
Sets up correct inflammatory response

SAFE FOR ANY TISSUE



Hyaluronan, natural compound  
I<sub>2</sub> - iodine in form of trace element  
highly safe for tissue and human body

# APPLICABLE TO EVERY WOUND SHAPE



**Hyiodine**  
HEALS DEEP WOUNDS





# FILLING A POCKET WOUND

**Hyiodine**  
HEALS DEEP WOUNDS



## DRESSING CHANGE

Infected wounds  
1 - 2 days

Non infected wounds  
2 - 3 days

MRSA infection  
No antibiotics needed

## CONSUMPTION

WOUND SIZE	AMOUNT OF GEL
5 x 5cm (25 cm <sup>2</sup> )	2 ml
7.5 x 7.5cm (56 cm <sup>2</sup> )	5 ml
10 x 10cm (100 cm <sup>2</sup> )	7 - 8 ml
15 x 20cm (300 cm <sup>2</sup> )	22 ml

# HOT TIPS FOR APPLICATION

**Hyiodine**  
HEALS DEEP WOUNDS

The ideal way of application is through

## COMMON WELL SATURATED GAUZE

- can be chaped in any wound
- Gives best cleaning and healing results

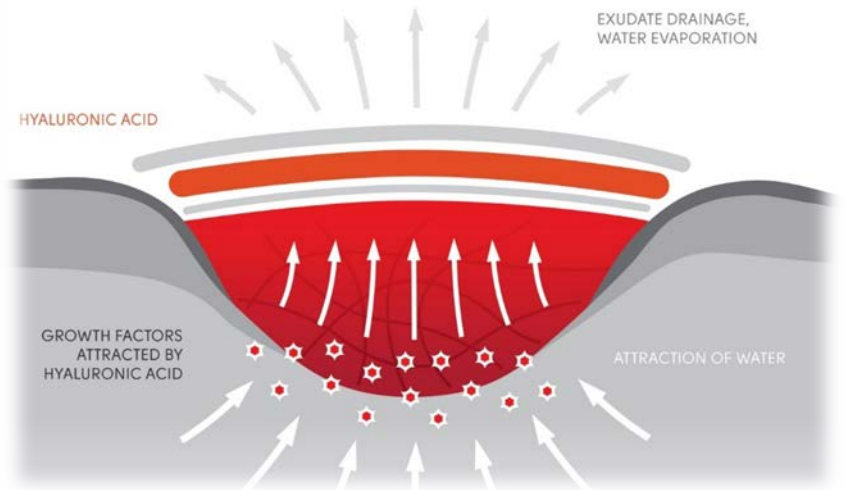
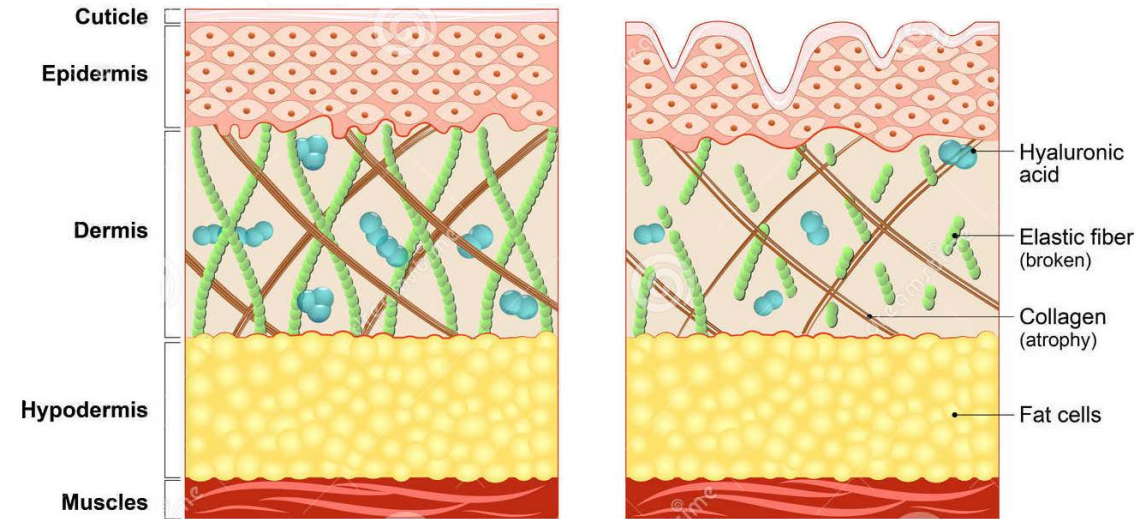
Application with

## PARAFINE GAUZE

is suitable only for clean and granulating wunds

# HA – Hyaluronic Acid

- Natural compound of body (ECM, joints, skin)
- Natural NPWT compound
- Wide field of biological activities
  - analgetic
  - cell proliferation and migration
  - blood capillaries creation – angiogenesis
  - positive/negative inflammatory effect
  - scarles healing – lip cleft



# IODINE

Natural biogenic element - thyroid gland

Wide spectrum of activity against bacteria (G +/-), no resistance so far

Mechanism of action - damage to macromolecules in the cell

Permeability and metabolic release (blood - thyroid), used or excreted in urine

Systemic does not cause problems (possible local burns, slow vascularisation)



A close-up photograph of a glass bottle being poured into a white dish. The liquid is dark and viscous, creating a thick stream. The background is a plain, light color.

IODINE in Hyiodine

0,25 % iodine complex  $KI_3$  (0,10 %  $I_2$  + 0,15 % KI)

Clinical Study  
&  
Case Reports

Hyiodine

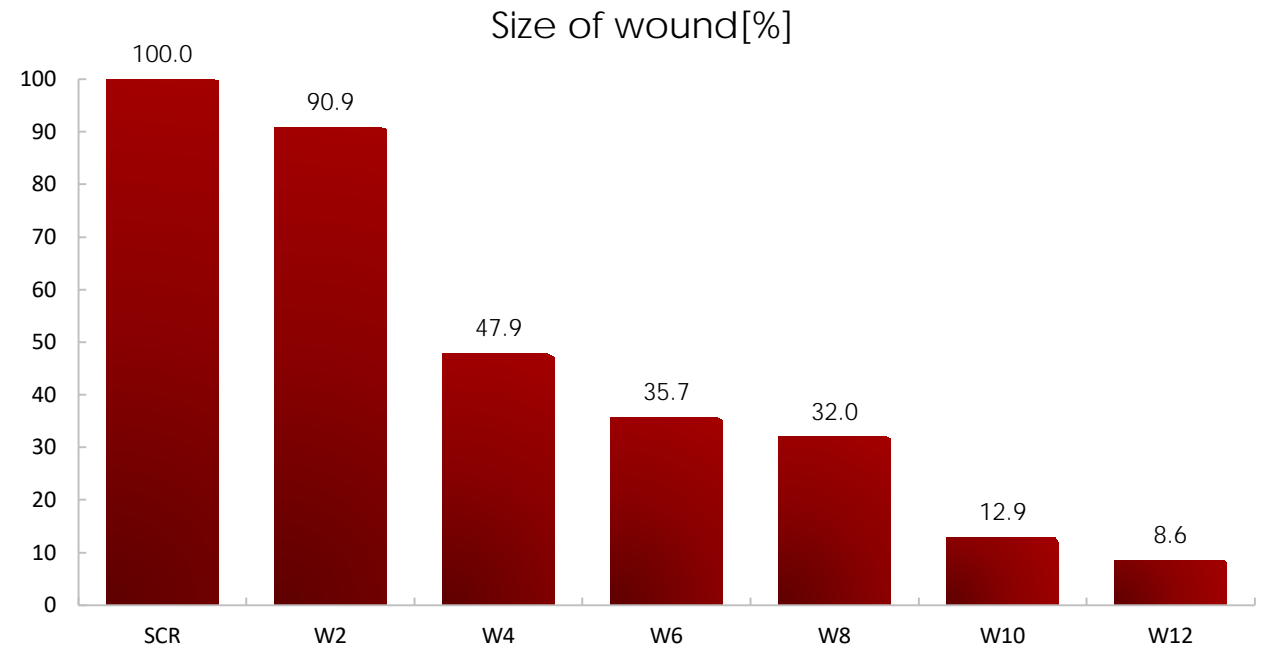


# Hyiodine – wound size change

No. 60 patients

Duration 12 weeks

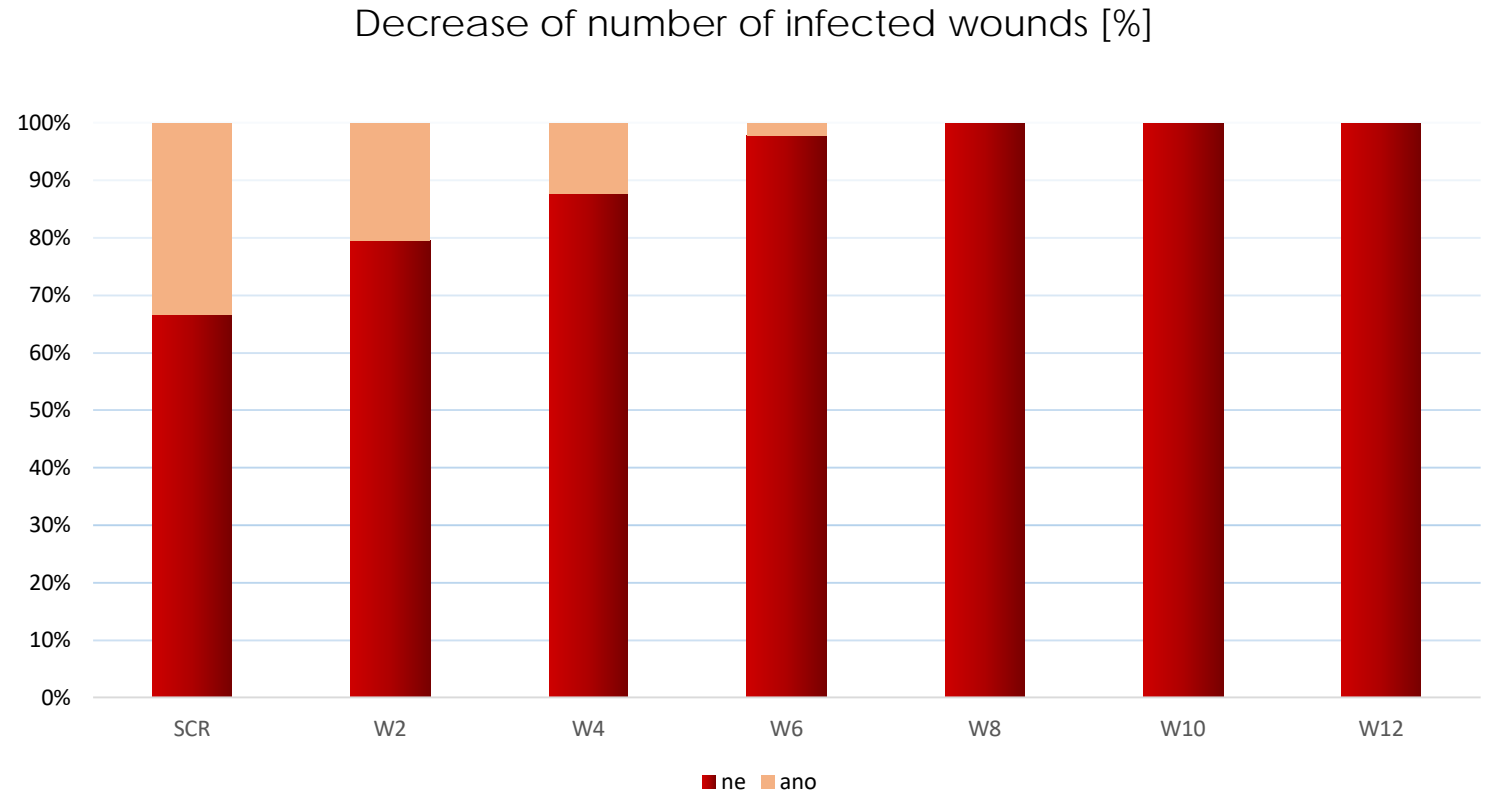
The average wound size before the start of the treatment was 17,5 cm<sup>2</sup> and at the last observation of 1,5 cm<sup>2</sup>





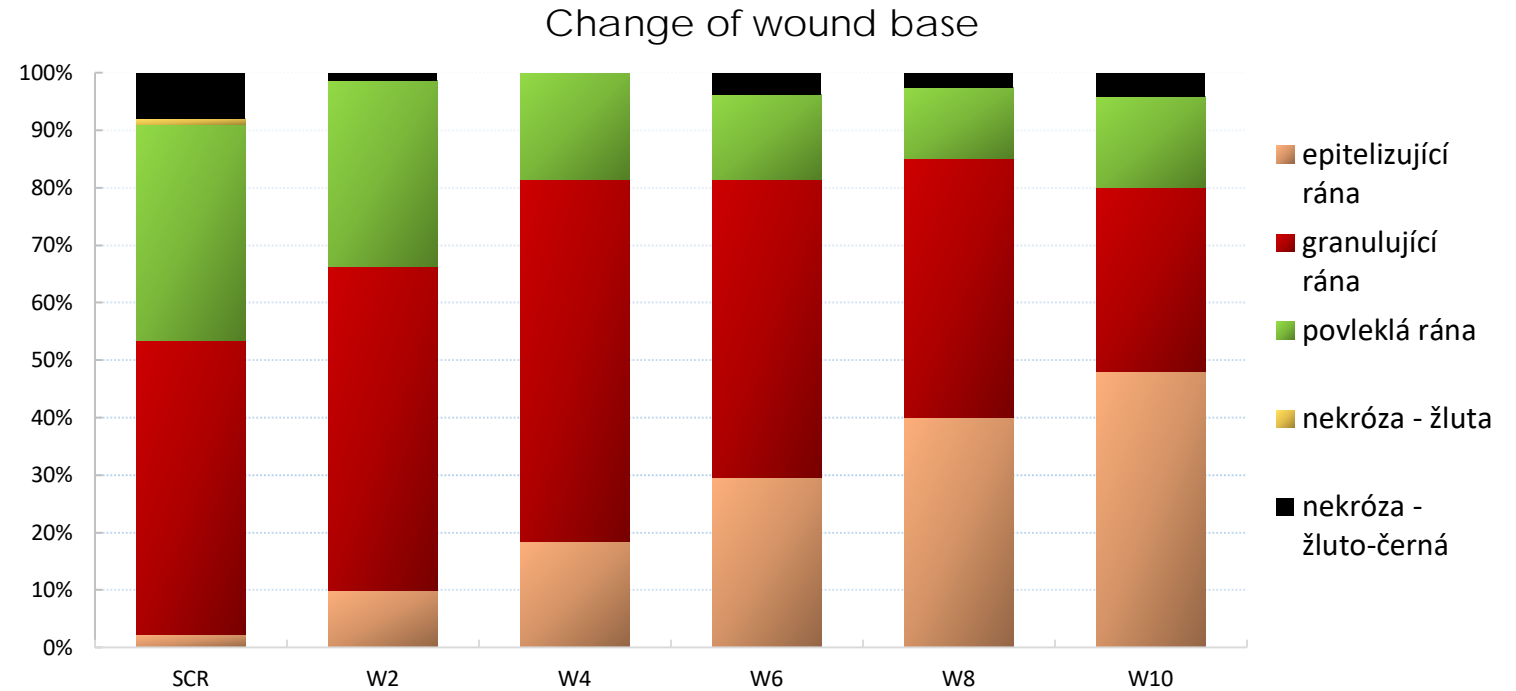
# Hyiodine – infection decrease

Before start of the treatment observed visible signs of infection at 33,3 % of wounds , after 6<sup>th</sup> week only 2,2 %



# Hyiodine – wound base change

A visible increase of the number of epithelial and granulating wounds, and a decrease in slaughy and necrotic wounds, at the start of treatment, the number of epithelial wounds only 3% and at the end of 48%



## Hyiodine – study results

Overall treatment evaluation	Number of patients	Percentage of patients
Completely healed	24	40,0%
Partially healed	13	21,7%
Not healed, but improved	16	26,7%
No visual changes	1	1,7%
Worsening of wound condition	4	6,7%
Not reported	2	3,3%

# CASE I – DFU

Female, 48 years, DM-I, II, diabetic retinopathy, diabetic nephropathy with proteinuria, chronic obstructive pulmonary disease III- IV Wed, Hashimoto thyreoidita 30% blockage of the blood vessels LDK, heavy smoker



8 bottles of Hyiodine 50g

## CASE II – DFU

Man, 59 years old, DM II, DK coronary artery disease, diabetic neuropathy, hypertension, obesity, wound amputee, MRSA



1,5 bottles Hyiodine 50 g

# CASE III – after - surgery dehiscence

Diabetic patient, obese, deep aorto-coronary bypass wound



# CASE IV – after - surgery dehiscence

Female, 44, lupus erythematosus, treated with corticosteroids, post-diverticulosis



Complete dehiscence of the wound with necrotic tissue



Clean wound with granulation



Clinical Study  
&  
Case Reports

Hyiodine

