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FIRENZE
25 - 26 OTTOBRE 2019

ESTRATTO ACQUOSO DI TRITICUM VULGARE NEL TRATTAMENTO DELLE PATOLOGIE VULVOVAGINALI IN DIVERSI CONTESTI CLINICI

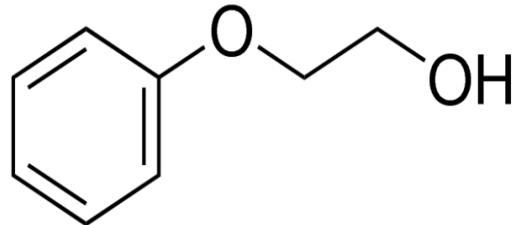
Dr. ssa Isabella Neri

Azienda Ospedaliero-Universitaria Policlinico di Modena



Triticum vulgare = Wheat

Triticum vulgare extract (TVE) +
phenoxyethanol



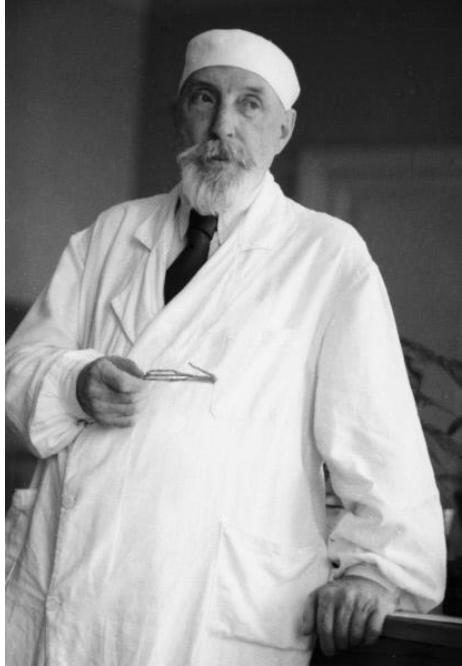
Basic science:

- Proproliferative activity
- Antiinflammatory activity
- Antioxydant activity
- Antiseptic activity

The aqueous **extract of *Triticum vulgare* (TVE)** obtained from the whole germinated plant and containing oligosaccharidic components has different biological properties useful in the process of wound healing.

TVE is commonly used for the treatment of:

- decubitus ulcers
- burns
- scarring
- dystrophic disease
- problems related to **tissue regeneration**.



Volodimir Filatov (1875-1956)

Russian and Ukrainian oftalmologist best known for the development of tissue therapy. Introduced the “tube flap grafting method”, corneal transplantation and preservation of grafts from cadaver eyes. On may 1931 achieved the first successful transplantation of cornea from a deceased person.

”All living tissue, cut away from its support and maintained in difficult conditions for survival, will produce substances that will make its survival possible.”

Focus on Triticum Vulgare Extract

- The producer controls the manufacturing process from the seeds to the finished products with a state of the art full Line Quality Control*.
- The beneficial activity is related to the **isolation of specific active components of *Triticum Vulgare* extract.** These components are obtained through a **proprietary worldwide patented standardized process.**

SEEDS



SPROUTS

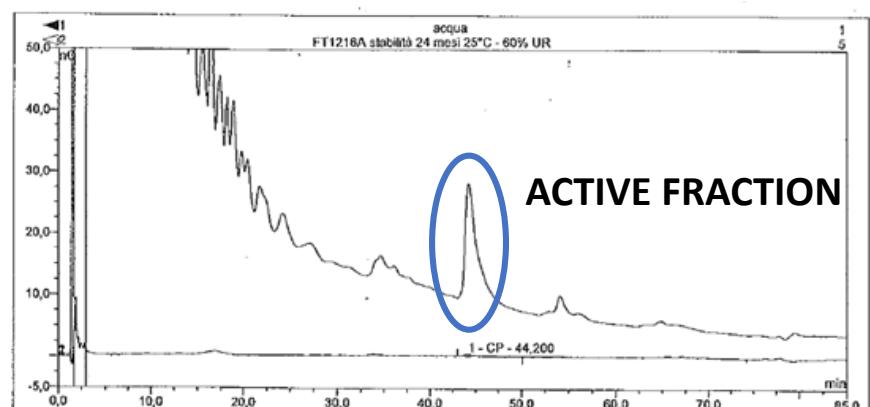
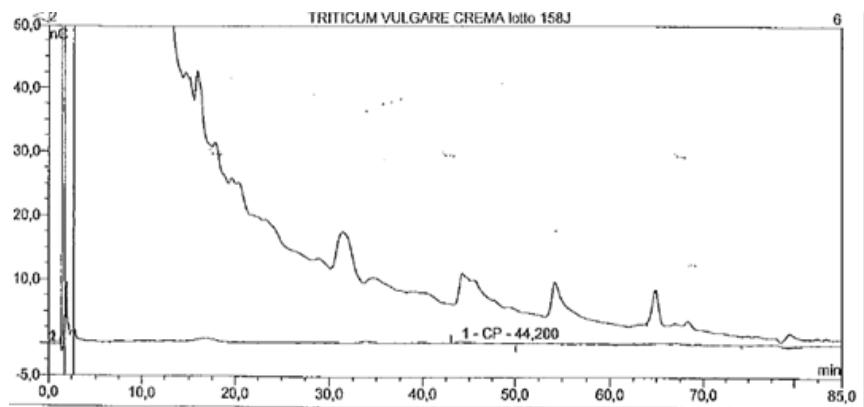


EXTRACT



TRITICUM VULGARE EXTRACT

TRITICUM VULGARE EXTRACT PATENTED BY DAMOR AND RECENTLY LABELLED RIGENASE ®



GLOBAL PATENT - 2017



Pro-proliferative activity

Journal of Ethnopharmacology 159 (2015) 198–208



Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/jep



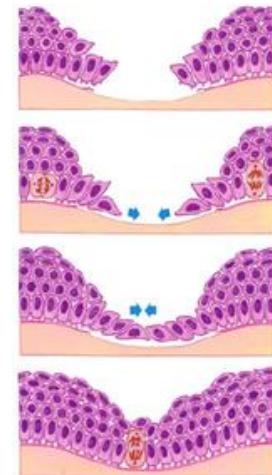
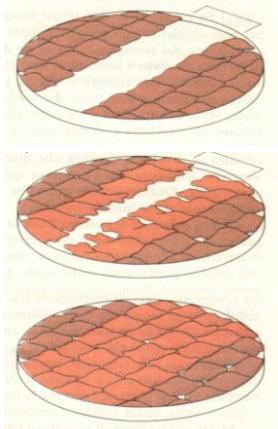
2015

Research Paper

Oligosaccharidic fractions derived from *Triticum vulgare* extract accelerate tissutal repairing processes in in vitro and in vivo models of skin lesions



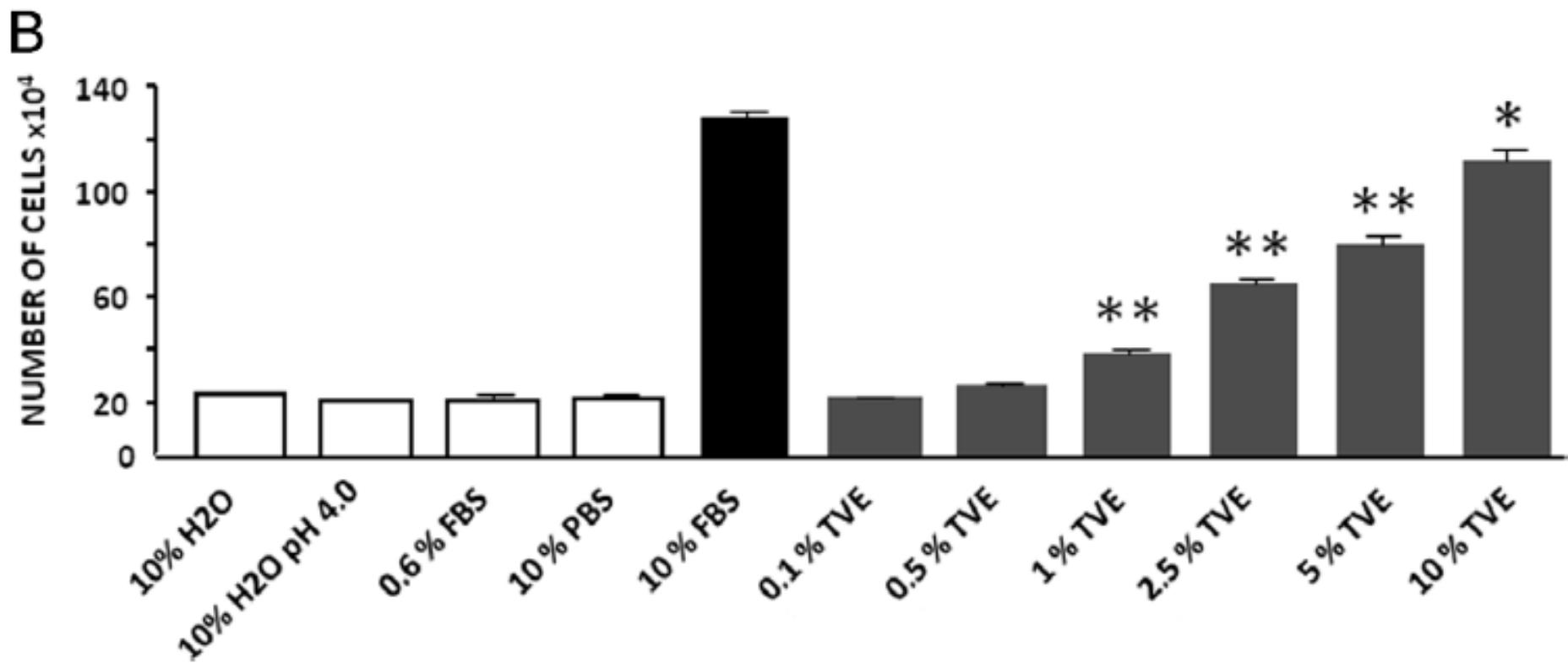
Luca Sanguigno ^a, Massimiliano Minale ^b, Ernesto Vannini ^b, Guido Arato ^b, Rodolfo Riccio ^b, Agostino Casapullo ^c, Maria Chiara Monti ^c, Raffaele Riccio ^c, Silvestro Formisano ^a, Gianfranco Di Renzo ^d, Ornella Cuomo ^{d,*}



The results confirm the pro-proliferative activity of the *Triticum Vulgare* extract

Pro-proliferative activity

Dose dependent effect of TVE on the growth of NIH-3T3 fibroblasts

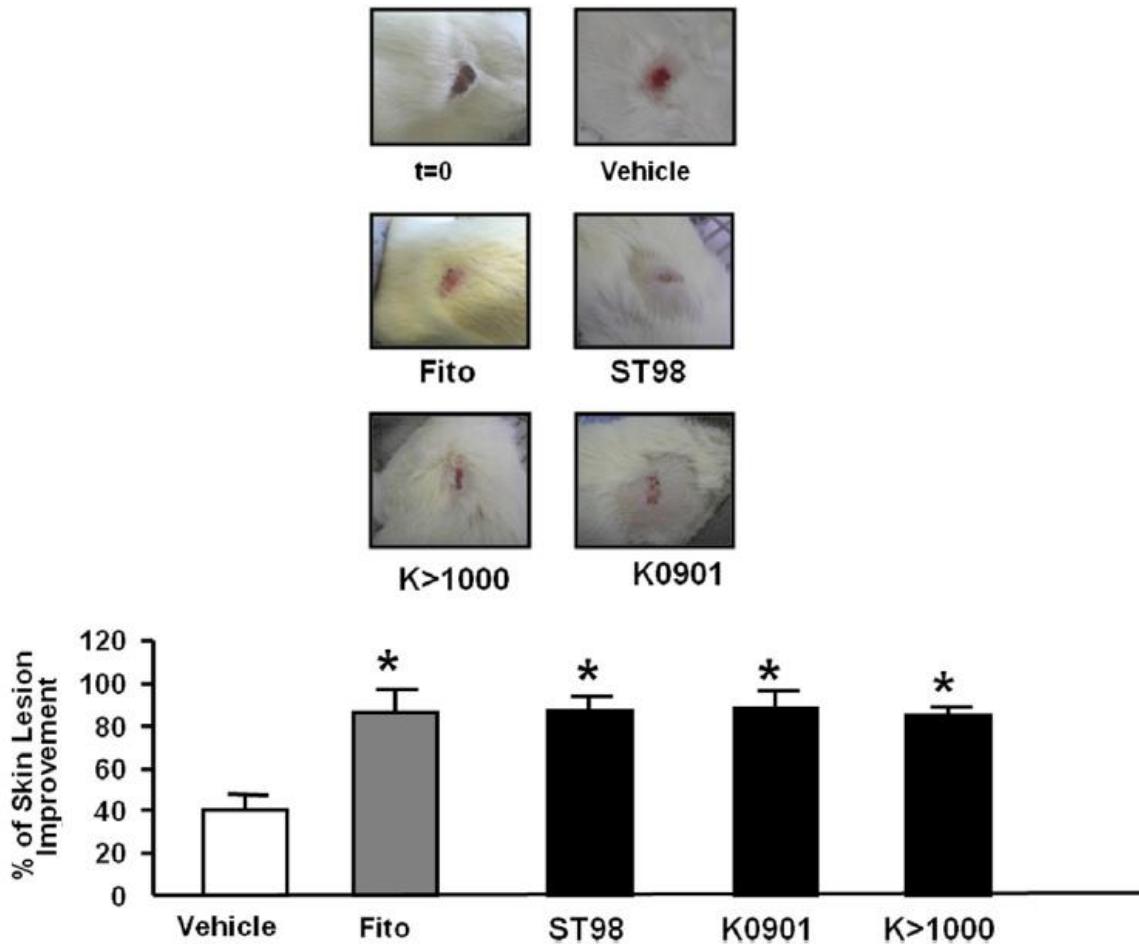


TVE: *Triticum vulgare* extract

FBS: Fetal bovine serum

Pro-proliferative activity

Effect on wound healing of the marketed product (Fito) and of the different isolated fractions (ST98, K>1000 and K0901)



Anti-inflammatory activity



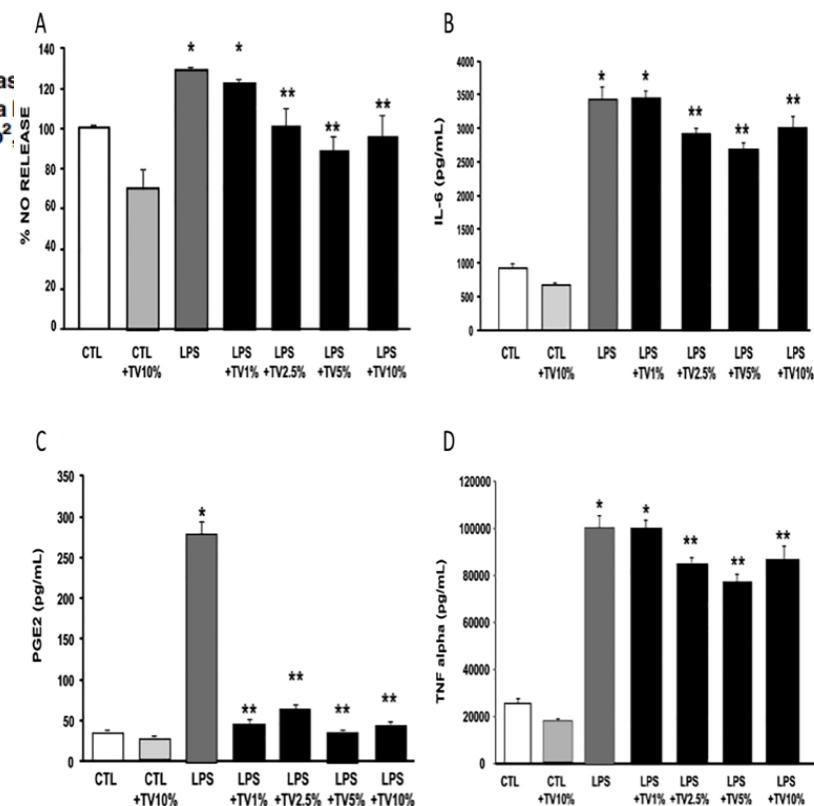
2018

RESEARCH ARTICLE

Triticum vulgare extract exerts an anti-inflammatory action in two *in vitro* models of inflammation in microglial cells

Luca Sanguigno¹, Antonella Casamassa², Niccola Funel³, Massimo Rodolfo Riccio⁴, Salvatore Riccio⁴, Francesca Boscia², Paola Emanuele Pollina⁵, Serenella Anzilotti⁶, Gianfranco Di Renzo²

***Triticum Vulgare* extract reduce the release of all the evaluated markers of inflammation in a dose independent manner.**



* p<0.01 vs. CTL; ** p<0.05 vs. LPS

Antioxidant activity



antioxidants

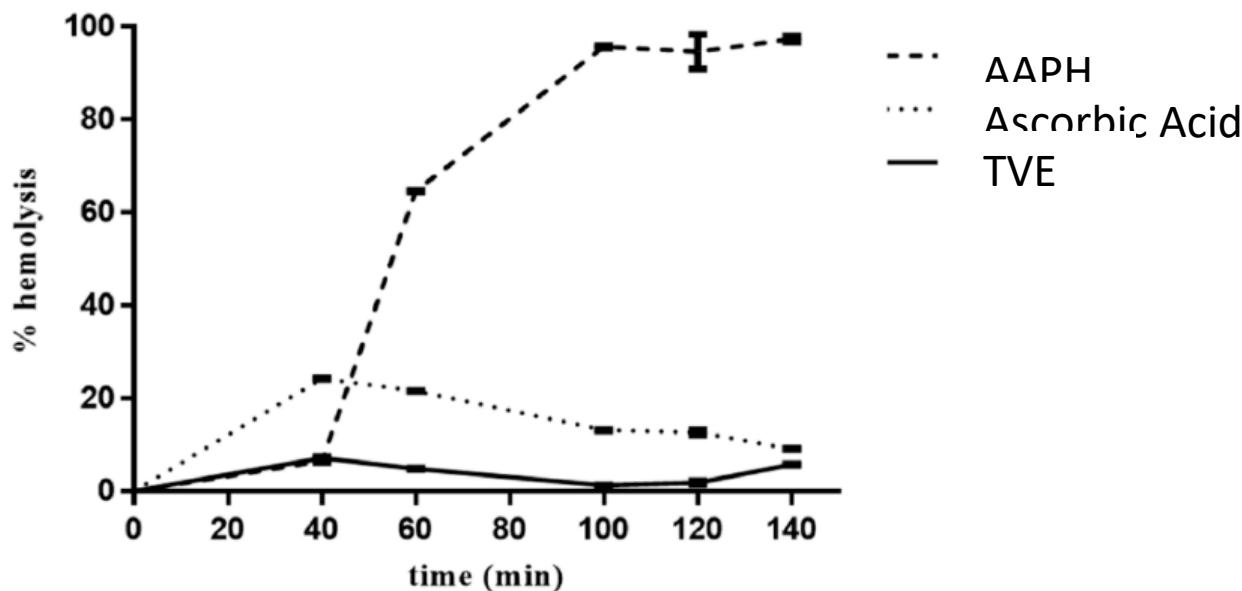


2018

Communication

Antioxidant Capacity of Rigenase[®], a Specific Aqueous Extract of *Triticum vulgare*

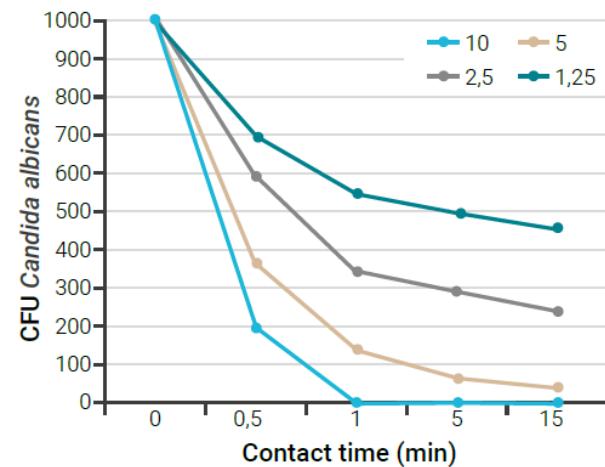
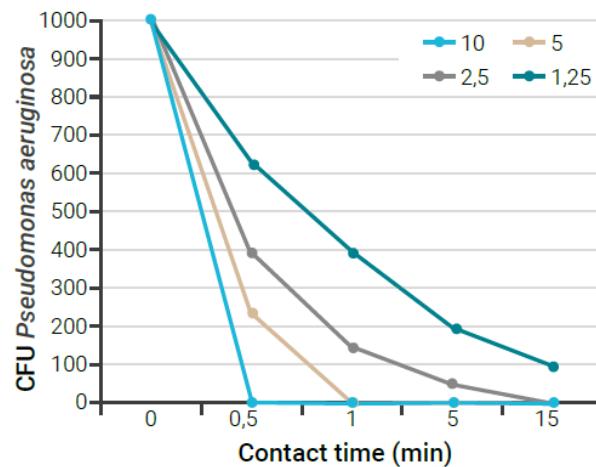
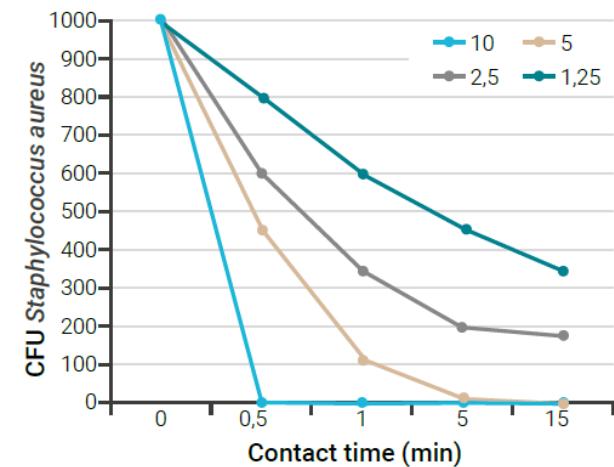
Immacolata Antonucci ¹, Gabriella Fiorentino ¹, Patrizia Contursi ¹, Massimiliano Minale ², Rodolfo Riccio ², Salvatore Riccio ² and Danila Limauro ^{1,*}



Inhibition of the hemolysis induced by AAPH [2,2'-azobis(2amidinopropane) dihydrochloride] a potent oxidant agent.

Antiseptic activity of phenoxyethanol

The presence of phenoxyethanol prevents the risk of infections



Number of *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Candida albicans* survivors (CFU = colony-forming units on nutrient agar) after a contact of 0.5-15 minutes with increasing concentrations of phenoxyethanol (1.25-10 mg / ml). The microorganisms were incubated for 24 hours at 37°C.

Vaginitis/vaginosis

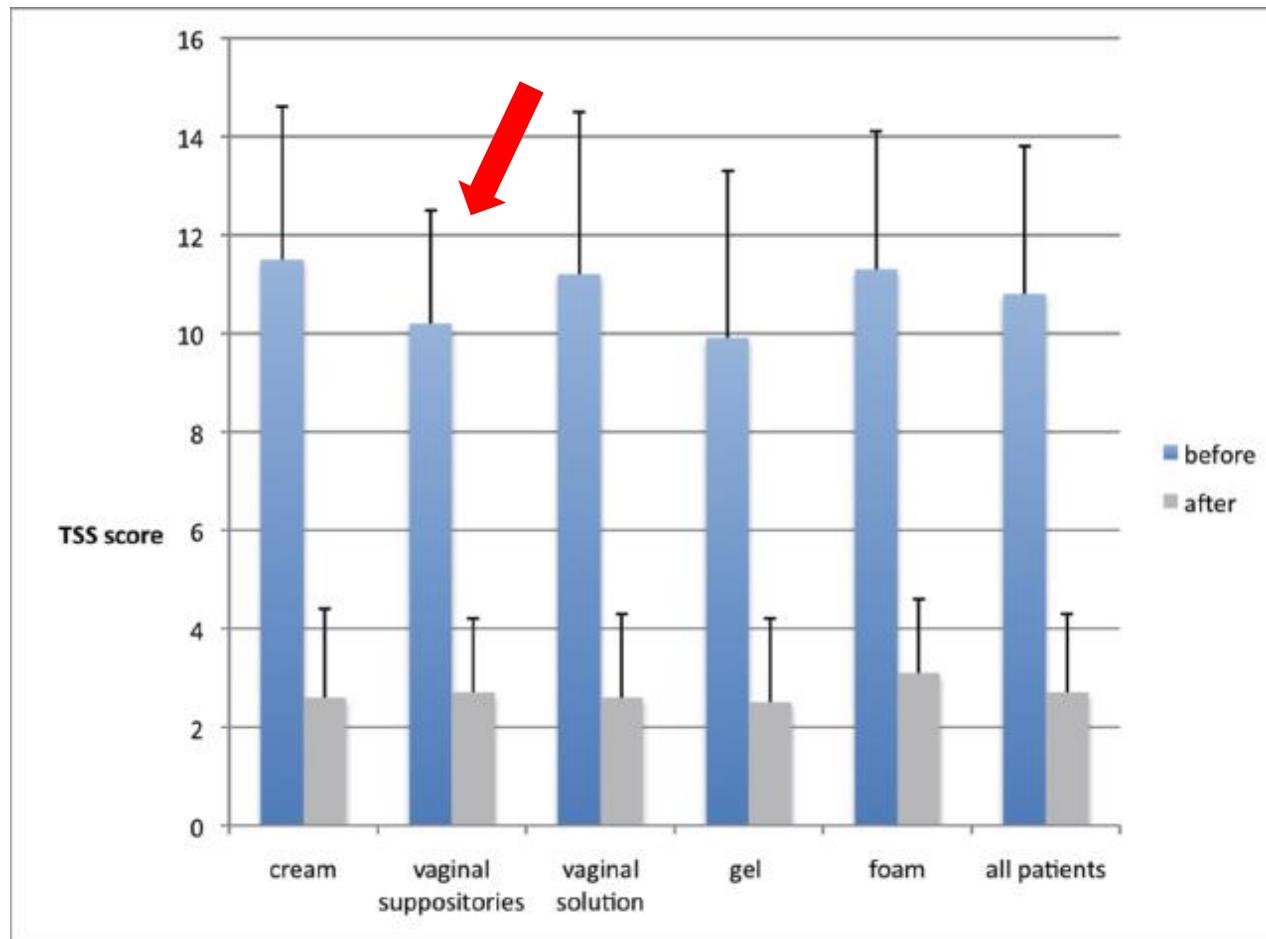
	TVE	BENZ HYDR	TVE	BENZ HYDR
Resolution	82 (98.8%)	39 (92.8%)	135 (82.8%)	66 (78.6%)
Improvement	0 (0%)	1 (2.4%)	8 (4.9%)	5 (6.0%)
Failure	1 (1.2%)	2 (4.8%)	20 (12.3%)	13 (15.5%)

TVE vaginal cream

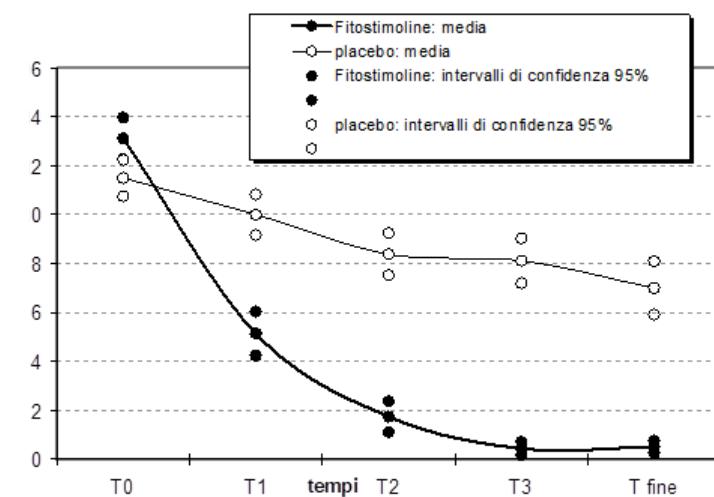
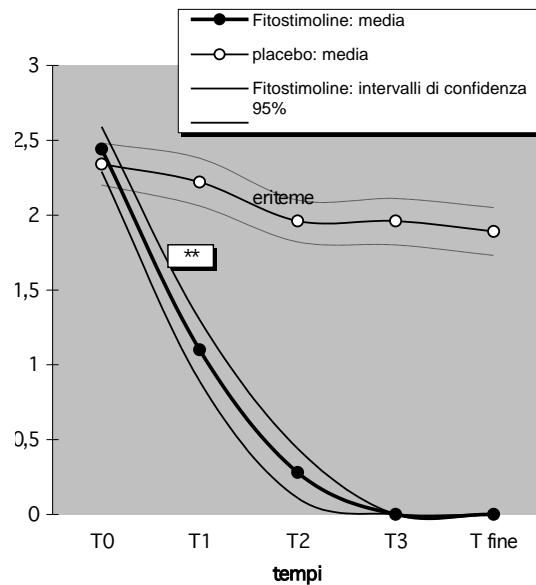
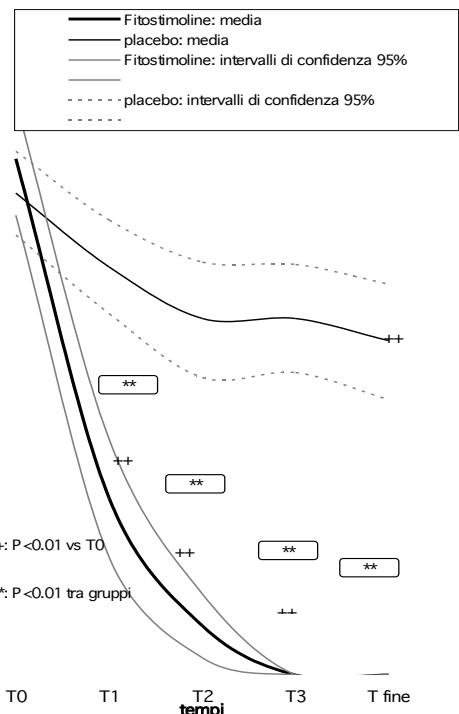
BENZYDAMINE HYDROCHLORID vaginal washing

Clinical Evaluation of the Efficacy and Safety of a Medical Vaginal Device Containing Rigenase® for the Treatment of Vaginosis: A Randomized Study

Rosa Papa^a, Maria Grazia Troncone^a, Francesco Altruda^a, Valentina Rullo^b, Giorgio Saponati^{b, c}

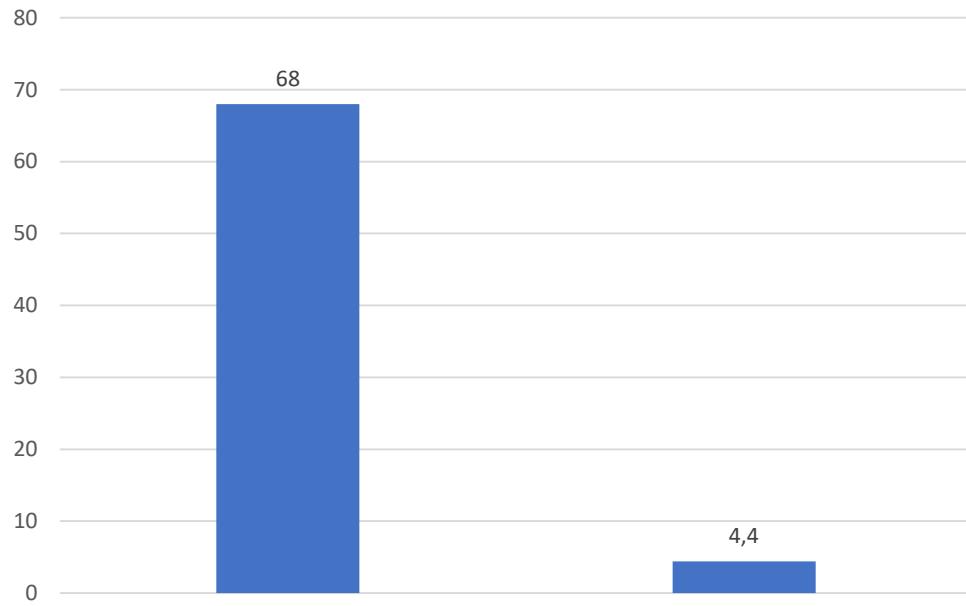


Vaginal inflammation and vulvar dystrophy



Effects of a 21-day treatment with *Triticum Vulgare* extract vaginal suppositories or Placebo on **vaginal erythema** in women with phlogistic / dystrophic changes of vaginal mucosa

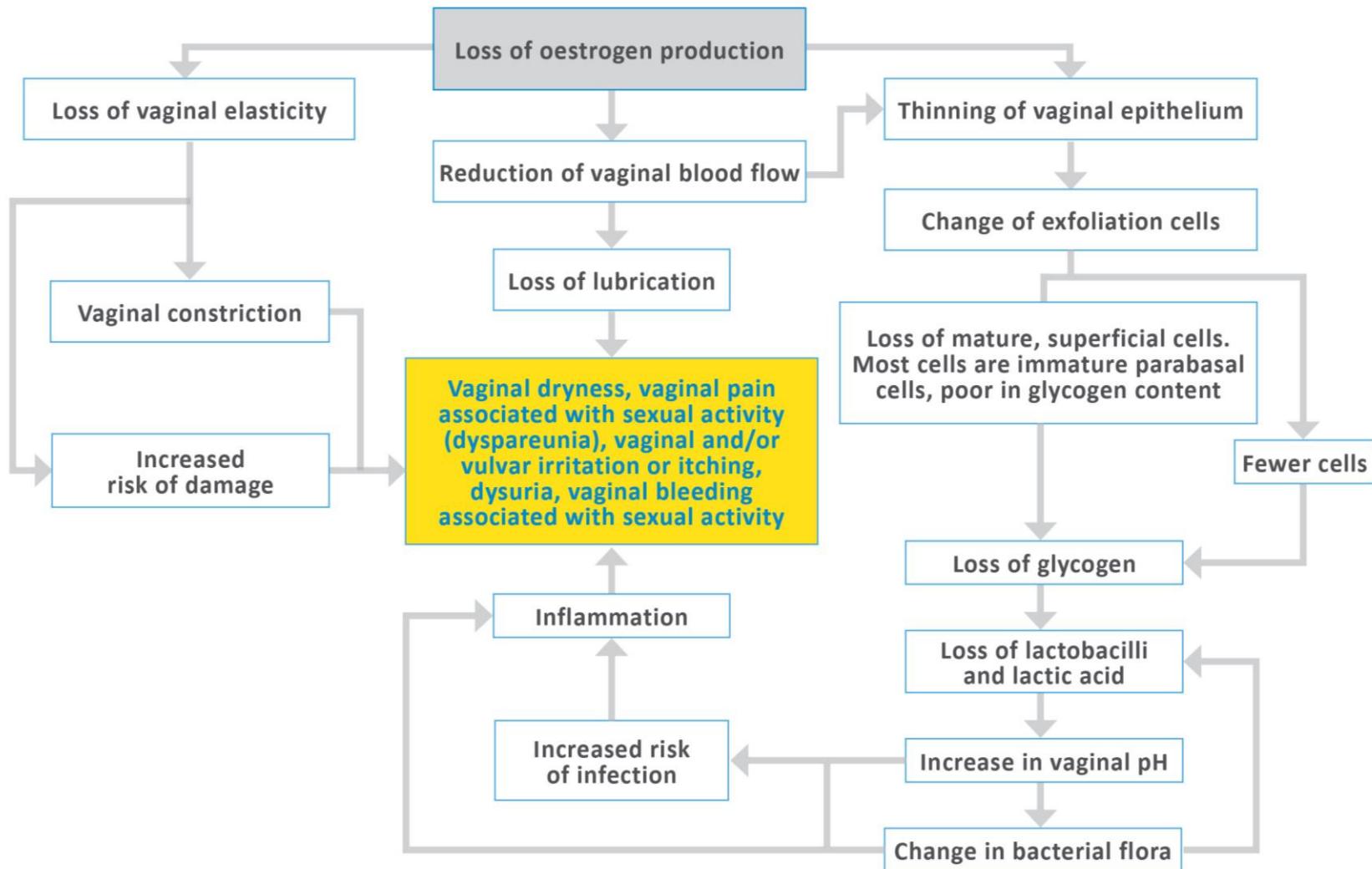
Effects of a 21-day treatment with *Triticum Vulgare* extract vaginal suppositories or Placebo on the **whole symptoms score** in women with phlogistic / dystrophic changes of vaginal mucosa



**Percent of women who became *asymptomatic* at the end of a
21-day treatment with *Triticum Vulgare extract* ®**

Vaginal atrophy

- Menopause
- Cancer treatment
- Lactation
- Use of hormonal contraception



Le potenzialità dell'estratto di *Triticum Vulgare* sono notevoli !!



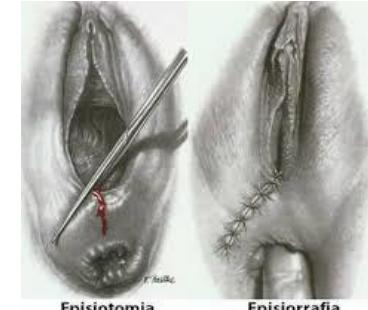
→ L'ESTRATTO DI TRITICUM VULGARE E' UN TRATTAMENTO FITOTERAPICO CON PROPRIETA' PRO-PROLIFERATIVA-ANTINFAMMATORIA-ANTISETTICA E ANTIOSSIDANTE.
SOLIDE BASI SCIENTIFICHE NE SUPPORTANO L'UTILIZZO

→ STUDI CLINICI INERENTI VULVOVAGINITI, DISTROFIA ED ATROFIA SONO IN CORSO

→ ESISTONO I PRESUPPOSTI PER UTILIZZARE TALE PRODOTTO NEL TRATTAMENTO DELLE SUTURE DI EPISIOTOMIE, LACERAZIONI VAGINALI, SUTURE LAPAROTOMICHE E RAGADI AL SENO



sutura intradermica



Episiotomia

Episiorrafia

UTILIZZO DELL' ESTRATTO DI TRITICUM VULGARE IN PUERPERIO: ALCUNI CASI CLINICI

S.G.

ANNI 35

BMI 32

PARTO INDOTTO A 41 settimane PER DIABETE GESTAZIONALE IN DIETOTERAPIA (peso 3550-maschio)

UTILIZZO DI CREMA VAGINALE PER LACERAZIONE PERINEALE DI 2° GRADO per 7 giorni

T.S

ANNI 26

BMI 24

PARTO SPONTANEO 38 settimane (peso 3800-maschio)

UTILIZZO DI CREMA VAGINALE PER EPISIORRAFIA

R.M

Anni 39

TC SU RICHIESTA MATERNA (precedente TC) (peso 3300-femmina)

UTILIZZO DI SPRAY CUTANEO PER FAVORIRE LA CICATRIZZAZIONE DELLA SUTURA LAPAROTOMICA
(secondo cesareo)





La semplicità è cosa rarissima ai nostri tempi.
Ovidio-poeta romano 43-17 a.c.