

**Application of propolis –  
herbal ethanol extract and  
ointment in the treatment  
of slow healing wounds.  
Case reports**



- The patient is a 57 year old male, with a peripheral arterial disease.
- In the end of October, 2010, he appeared in my office with incipience dry gangrene on the right big toe(Hallux).



- The patient was referred to a vascular surgeon.
- In the vascular clinic conservative treatment was provided at the beginning.
- Unblocking was done to the effected arteries. Using special catheters, the thromb was sucked out of the blocked arteries.
- He was discharged from the hospital for a demarcation of the gangrene and advised to come back in a couple of weeks for scheduled partial amputation.



- The patient didn't correctly follow the doctor's instructions.
- Meanwhile, a severe infection developed.
- Urgent admission in a hospital was required.
- The gangrene was turning into a flegmon.

16.01.2011





16.01.2011



16.01.2011

- Partial amputation was performed in a hospital
- The surgeon tried to do everything to save the leg
- The patient became septic.
- Powerful antibiotics were prescribed.
- Daily debridement on the necrotic tissue was provided

- At this condition I saw the patient again in the hospital.
- The infection was slowly overcame, but the condition of the leg didn't improve.
- Very slight signs of granulation tissue were barely visible after 25 days of intense treatment in the hospital.
- For a situation like this, there are two possibilities: to provide persistent and meticulous conservative treatment for a long time (months), or amputation of the leg.
- The patient refused the amputation, signed a consent, and he was discharged from the hospital.
- After that the patient called me and asked for apitherapy treatment of the wound in a home settlement.



- I began to treat the patient in home settlement.
- There was no pulsation on arteria dorsalis pedis.
- The leg was not looking good. The color was bluish-purple.
- Severe blockades on the major artheries were diagnosed with Doppler.

2.02.2011

After just couple days of treatment, visible signs of improvement were noticeable.

The size of the wound is: 6 by 5 by 2.3 cm.





2.02.2011-The wound is packed with Propolis-herbal soaked(dry) gauze. The ointment is applied on the edges of the wound and around.





After that propolis –herbal soaked gauze(wet) is covering the wound.



13.02.2011





# 17.02.2011



- When the wound is heavily secreted the gauze should be packed as it is.
- On a slow secreting wound, saline solution is utilized for soaking the gauze and squeezing it after that.





- In this way the dressing was changed daily until the wound got superficial.

25.02.2011





3.03.2011





9.03.2011



16.03.2011





18.03.2011





5.04.2011



7.04.2011





11.04.2011



27.04.2011





5.05.2011



10.05.2011





15.05.2011



25.05.2011





5.06.2011



8.06.2011





8.06.2011 -The wound is almost closed after four months of treatment



**16.01.2011**



**8.06.2011**





- During the treatment (for some period) the propolis extract was enriched with herbal blend of:

Smoke tree, Sent John herb, Merry gold, Plantago major leaves and other herbs.

Positive result was reported.

Further reaserch will be needed!

10.07.2011-In the beginning of June the second toe broke and the joint become visible.  
All attempts to healing the wound were not successful. Amputation was done in a hospital.





10.07.2011



20.09.2018





20.09.2018



- After the full recovery advice were given for internal propolis (hydroalcoholic sol.) per os administration.

**Since then he is taking propolis almost constantly. Aproximately 3 bottles (60 ml) montly ( 20-30 dropes twice daily)**

He also takes honey 2-3 kg montly.

In 2016 he developed iron deffisient anemia and Apicoctail (honey, bee polen, royal jelly) and honey dew honey ware prscribed. He continued to smokes and drinks moderately with anhealthy way of eating.

Walkes 3-5 km. daily.

The patient is on a constant treatment for hypertation and aticoagulant. He stoped takining vasodilatators.

No more muscle cramps ( claudicatio intermitence) during walking.

The pulsation on arteria dorsalis pedis become notisable again.



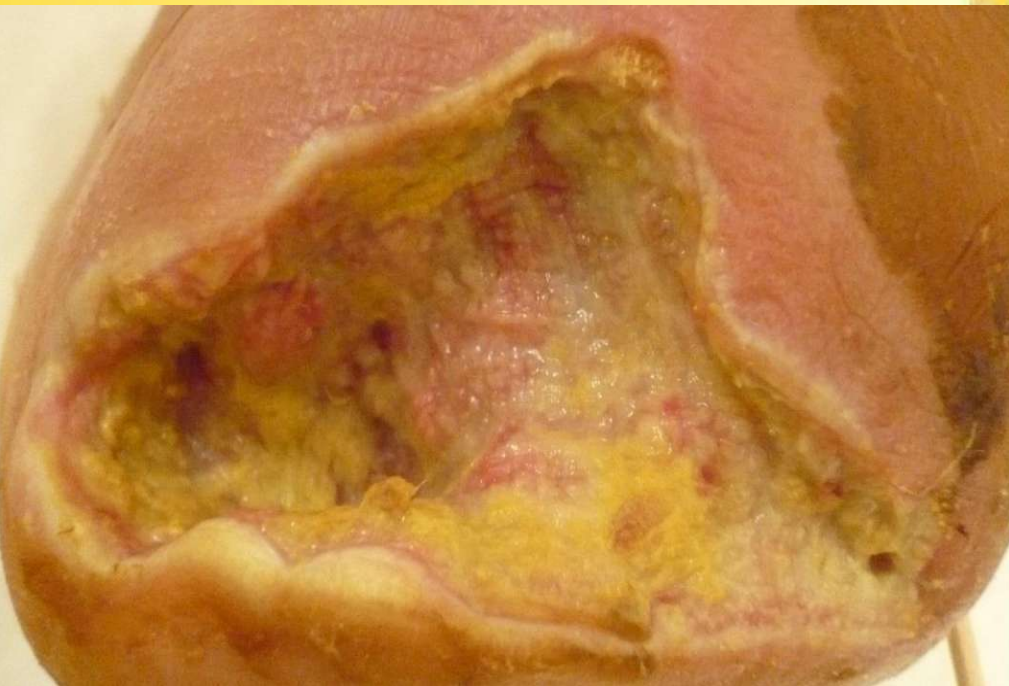
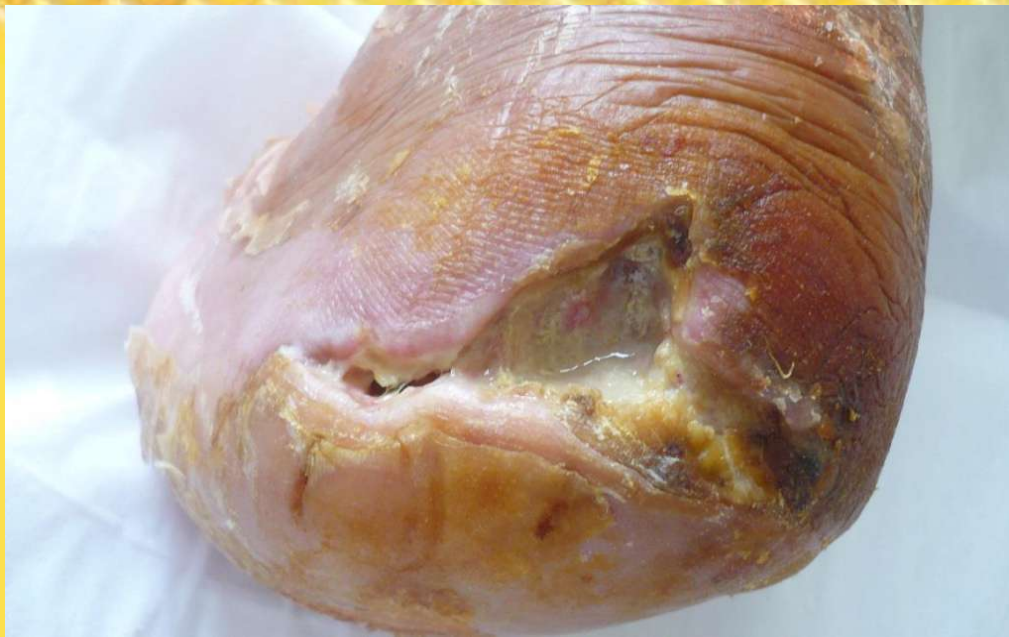
# Conclusions

- One of the explanation in this case is the possibilities of propolis to plays a major role in developing collateral blood vessels and stimulate the growth of new granulation tissue when is applied localy and internaly.
- Also improuving the rheology of the blood in the smallest vessels.
- Patients with PAD, arterial compromised circulation and Diabetics should take Propolis internaly in a long term bases.
- Further researce will be need in this area.

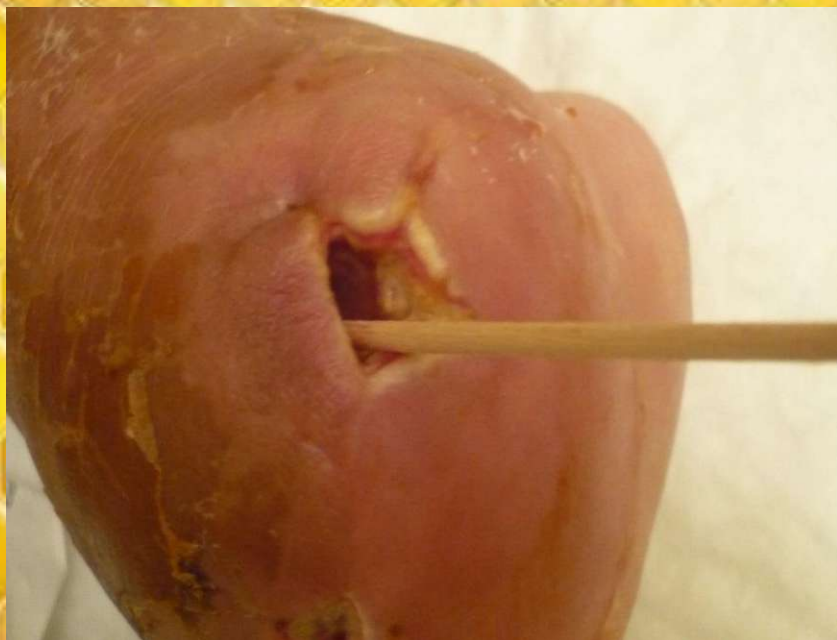
# Complication after diabetic foot partial amputation

- The patient is 60 years old male with IDDM on insulin.
- After discharging from the hospital he developed very serious complication.
- After regular debridement and propolis soaked(dry) dressing plus ointment notisable improvement is visible.













Last picture- 5.10.2018

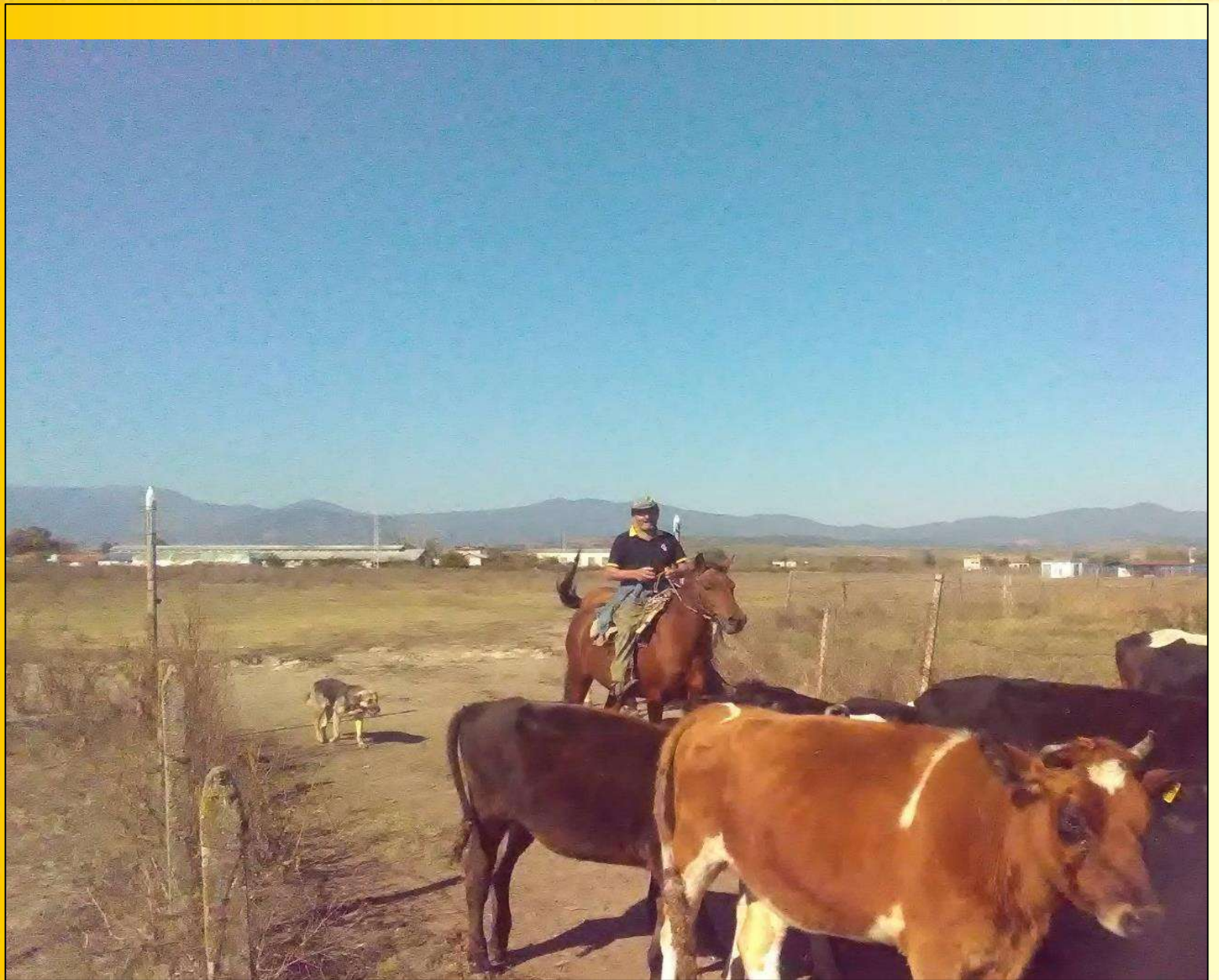




After full recovery the patient is having a normal life and even work in the family farm









# Chronic non healing wound on the foot(heel region)

- The patient is a young man with no other diseases.
- He poked his foot in the garden four years ago
- After multiple hospitalisations and even skin graft transplant no positive result.











- **My experience with this case** and the others which are not mentioned in this presentation, shows that:
- The Ethanol based Propolis extract soaked on a (dry) gauze( let it dry) can be very effective and successfully used for treating slow healing wounds with a lot of necrotic tissue, even result of a gangrene or other reason( after regular debridement).
- It is very suitable when enzyme debridement ointment (like Santyl or Panefil ) is not available or for some reason not utilized.

- Best solution for Diabetic wounds.
- Wounds of vascular origin (after proper assesment)
- Almost no antibiotics is required during the treatment.
- The established tunnels could be very successfully packed in this way.
- The wound will stay in a healthy state.
- It will anaesthetize (analgesic effect) the wound.
- On a dry wound the gauze could be soaked with saline solution and squeezed ( wet and dry dressinng)
- It is very suitable for deep wounds.



- The only disadvantage is the hypergranulation (mostly shallow wounds with DVI combined). Not shown in this case
- This could be overcome by using the Propolis dressing not every day. The other part of the time classical wet and dry dressing should be provided for a deep wounds.

- In a conclusion I would say that this is one of the most effective way known to me for treating slow healing wounds of any origin.



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