

A case study demonstrating the effectiveness of using Collagen on a non-healing wound, healing by second intention.

Case courtesy of Anita Leighton RVN and Katie Bevans RVN – Minster Vets Newark.

Background

A Mastiff presented with a Fibrosarcoma on his hock, with an infected wound. Bacterial swab results confirmed Staphylococcus Pseudo Intermedius.

Initial dressing recommendations were to use Suprasorb A+AG for bacterial decontamination and control of further infection.

Treatment Plan

After 11 days of use of Silver Dressings combined with Hydrogel to maintain a moist wound healing environment, the infection was no longer present. It was determined that the treatment plan would be to continue to encourage healing by second intention.

Bovine Collagen particles mixed at a ratio of 2:1 with Hydrogel was placed over the entire wound area at a thickness of 6mm. A secondary protective dressing, Cutimed Siltec, ensured the newly formed fibroblasts remained protected against disturbance and damage, which is routinely seen with more traditional foam dressings.

The following dressing change, three days later, saw a significant improvement with wound edges contracting well. A further dressing change another three days later saw further wound positive contraction and wound healing.

Results

Over 11 days using Silver to remove infection and the 6 days of Collagen mixed with Hydrogel the wound had contracted significantly.

There was no patient interference or discomfort during any of the dressing changes or in between, and owner compliance was also good.

Bandage materials used were Soft Synthetic Padding, Conforming Layer and then a Tertiary Layer to secure the dressing and bandage onto the limb.

Conclusion

The timeline below shows the wound progressing through all 3 stages of healing. Both practice and client were very impressed with the progress on this case.



Initial wound before it was swabbed, debrided, lavaged and dressed



After one Suprasorb Silver Dressing Change



1st June
Prior to Collagen after infection had cleared



4th June
3 days later with Collagen



7th June
6 days with Collagen

Collagen treatment initiated