

## VETERINARY CASE STUDIES (HORSES)

### SARCOID TREATMENT USING THE DENTRON BIOGUN

#### 1. "ASTI"

Background: Asti had a sarcoid on the inside of her right leg, high in the groin and extending to her teats. Treatment had included surgical removal under general anaesthetic in November 1998 and when the sarcoid re-grew, arsenic ointment was administered without producing any improvement.

1999	Size before l x w x d (cm)	Comments before	Duration (mins)	Size after l x w x d (cm)	Comments after
05/07	5.8 x 4.3 x 2.4		10		Sarcoid opened and oozed
06/07			10		Horse 'restless'
07/07	5.6 x 5.2 x 2.7		7		Sarcoid 'angry and weeping'
12/07	5.4 x 5.4 x 2.9	Sarcoid 'falling away' & opened up	10		Side drying up; bottom opened and cracked
13/07	4.6 x 5.7 x 2.5		10		
14/07	5.2 x 5.9 x 2.2		10		
15/07	5.4 x 6.5 x 3.1		10		
17/07			10	5.2 x 6.0 x 2.2	
19/07			10	5.2 x 6.4 x 3.2	
24/07				4.7 x 6.4 x 2.9	Sarcoid breaking up and falling away
03/08			10	4.5 x 5.3 x 2.3	Sarcoid ready to fall off; top breaking away from root
24/08	No change	Bottom half broken away; very yellow	5	3.0 x 3.3 x 0.9	After treatment the remains dried up
30/08	2.8 x 2.5 x 0.9				No pus; not securely attached; ready to fall off
10/09					Sarcoid gone; small scar

#### Subsequent observations:

July 2001: still clear

November 2010: still clear

There was also a sarcoid on Asti's left leg measuring 3cm x 2.9cm x 1.1cm. This sarcoid had received no prior treatment. No Biogun treatment was given to this sarcoid: it was left as a 'control' to see if it improved spontaneously. Its condition remained unchanged.

## 2. "FILINA"

Background: Filina had a problem with several sarcoids, some ulcerated but most closed-skin and/or under the skin. Some of the sarcoids had been removed in the past by a veterinary surgeon, but not all. The largest sarcoid was chosen for Biogun treatment. It had not been treated previously by any other means.

2000	Size before l x w x d (cm)	Comments before	Duration (mins)	Size after l x w x d (cm)	Comments after
24/07	5.0 x 5.0 x 2.5	Pink; bubbly	3		Sarcoid looked less angry
26/07			3		Drying and less angry
28/07			3		Drying out
30/07			3	2.5 x 5.0 x 2.5	Dry; small section still pink; part falling off
03/08			4		2 bits fallen off; sarcoid appears to be coming out from inside
05/08			4		Sarcoid drying
07/08			4		Sarcoid drying more
09/08			4		Sarcoid drying more
11/08			4		Sarcoid drying and closed
28/08	Sarcoid opened; pus		Unknown		Sarcoid now dry
30/08			4	3.8 x 4.4 x 1.3	Sarcoid closed and dry

A by-product of this treatment was that two large closed-skin sarcoids close by had shrunk to about half their original size.

### 3. "McKINLEY"

Background: Small bump on the inside left hind leg near groin. Training programme included quality feed, but as fitness improved the bump developed into a wart-like growth and then became a closed skin sarcoid.

2000	Size before l x w x d (cm)	Comments before	Duration (mins)	Size after l x w x d (cm)	Comments after
28/07	5.0 x 5.0 x 1.3	Sarcoid opened up by injury; hole in middle; three pink and angry sections on perimeter	3		
30/07			3		Sarcoid less pink; part fell away; whole began drying out
01/08			3		No change
03/08		Redness revealed	3		
05/08			3		Red shrinking
09/08			3		All sections dried up
11/08		Small opening in sarcoid	3		
17/08		Small part needing treatment	3	2.5 x 2.5 x 0.6	Bits falling off, but all dry and closed

#### 4. "SHULA"

Background: Ulcerated sarcoid on right hind leg at front of the stifle joint.

<b>2000</b>	<b>Size before l x w x d (cm)</b>	<b>Comments before</b>	<b>Duration (mins)</b>	<b>Size after l x w x d (cm)</b>	<b>Comments after</b>
13/08	1.5 x 1.5 x 1.0		3		
Treatment every other day for 3 mins for 6 weeks					
15/08	Sarcoid dried up a lot; less inflamed; still painful				
19/08	Sarcoid coming away top and bottom; middle shrinking; less painful				
29/08	Sarcoid smaller but overall sore again; painful				
31/08	Sarcoid less angry				
06/09	Bottom of sarcoid shrunk and falling away; not angry; swelling reduced				
12/09	0.7 x 0.7 x 0.5				No longer sore to touch
22/09 to 06/10: sarcoid fallen off; resulting wound kept open to be treated; no longer painful; slight swelling beneath skin; no external sarcoid to be measured.					

## ANTI-INFECTION TREATMENT USING THE DENTRON BIOGUN

### 1. "CARA"

Background: 8.3cm cut to inside off hind with a puncture wound at the hock end. Wounds swollen and sore.

<b>2000</b>	<b>Duration (mins)</b>	<b>Comments after</b>
05/07	5	No change
06/07	5	No visual change; horse no longer lame
08/07	5	Cut dry and healing well; swelling gone; no infection present
10/07	5	Totally healed

### 2. "HOLLY"

Background: 4cm cut on hind leg.

<b>2000</b>	<b>Duration (mins)</b>	<b>Comments after</b>
12/07	5	
13/07	5	Cut healing; no further treatment

### 3. "PUZZLE"

Background: puncture wound treated with 5-day antibiotics course early September. Wound healed but left with residue swelling at top of leg. Treated with Biogun for 5 minutes on 11 September: swelling cleared over next 24 hours.