

Dr. Haef  
Shilley Hall. 11  
Sgt. Donaldson  
Pets 2 vertebrae

11 May, 1977 Exp # 36 Goat # 36 ♀ Beant Jan. Horns.  
NPO goat may 9 off feed 10 may off H<sub>2</sub>O

11 May

0830 Transfer to surgery

0840 10 mg Acepromazine

10 mg atropine Normalal IV drip.

0845 540 mg (9cc) Diabotal

0855 Intubate + start 2% Hal. @ 500 cc O<sub>2</sub>/min

0915 Increase to 5%

0930 Start Surgery

0935 Reduce Hal. to 2%

0945 Shut off Hal. open to rm. air.

1010 Complete Surgery

Spray wound @ topozone.

Install Hem-o-vac drain

Bio<sup>CARBON</sup>~~glass~~ prosthesis.

Leave periosteum + scrape 2 sides + drill (1/8")  
indent holes for simplex cement grip. (3 ea side)

Spread thin coat simplex cement and leave for  
partial set then apply Bioglass prosthesis @  
regular thickness simplex cement. Hold  
steady until cement set.

Close @ silk.

Leave blood  
channels  
in periosteum  
to end of  
bone cut.

2cc Combiotic - post-op recovery. PZ

12 May - 2cc Combiotic - recovery normal. PZ

13 May - 2cc Combiotic T. can

14 May - 2cc Combiotic T. can

15 May - 2cc Combiotic T. can

visitor Dr. Hornay

De Hall  
Shirley Hall 15  
Sam Johnson  
Pete Zertuch

18 May 1977 Exp # 37 goat # 37 grey ♀ - horns.  
16 May NPO goat.

0830 Transfer to Surgery

0835 10 mg Acepromazine (1 cc)  
7.5 mg atropine (0.5 cc)

0840 Normal IV drip  
(9 cc) 540 mg Dialutal  
(3 cc) 180 mg Dialutal Intubate.

0900 Start 3% Hal. @ 500 cc / O<sub>2</sub> / min

0935 Start Surgery  
Increase to 5%

1015 Complete surgery

Leave perianth + blood supply channels  
Expose bone ~~in~~ on 3 sides so holes could be drilled  
Drill 4 holes ea. opening ca 0.5 cm x 0.5 cm  
12 holes total + apply thin cement (Dimpler)  
to allow set in holes before thick cement  
in bucket applied.

BioCarbon prosthesis. Leave legs internal.  
Silk ~~not~~ closure @ matt. stitch.

Hem-O-Vac drain.

Hard dressing @ Thomas splint.

2 cc Combiotic

Recovery appears normal.

19 May 2 cc Combiotic sf  
20 May 2 cc Combiotic sf  
21 May Set } 2 cc Combiotic P2  
22 May Sun } 2 cc Combiotic P2

Lesions healing on lips -

goat has  
skin lesions  
on lower legs  
anesthesia  
not as  
smooth  
today  
Patient seems  
excitable  
was light  
at start  
of surgery

✓

25 May 1977  
Exp #38 - goat #38

Exp #38

25 May 1977

goat #38

white ♀ = born 2/22/77

Wg No. 10  
Shide Hair  
Some Dimples

Surgery  
form  
notes

W10 goat 23 May -

0830 transfer goat to surgery  
0835 10 mg acepromazine (1cc)  
10 mg atropine (.7cc)  
0845 normal IV drip  
540 mg Dialumol (9cc)

0850 start 30% Hal 500 cc O<sub>2</sub>/min  
1015 shut off Hal - open & remain.  
1025 - Complete Surgery

Summit  
Epohy

Used anterior lous flap rather  
than lous posterior flap. Velour  
bonded in special adhesive (?)  
+ tied on leg in 55 wide.  
Skin tore on medial side  
and created some difficulty in  
isolating leg from tear.  
skin flap was too tight.

~~Legs exteriorized~~  
Exteriorize legs.  
Semi-o.vac installed.  
Hard dressing (fractofix) applied  
2cc combioce 1M - leave in Post of 2 wks.  
Leave hard dressing on 2 wks.

Note: #40 used for iliointomy

Dr. Hall  
Shirley Hall 31  
Sandy Dornblum  
Pete Fortinchi + Dan

21 July 1977 Expt #40 goat #40 ♀ blk + white e-horn  
 NPO goat 18 July

0820 - Transfer to surgery  
 10 mg acepromazine  
 15 mg atropine

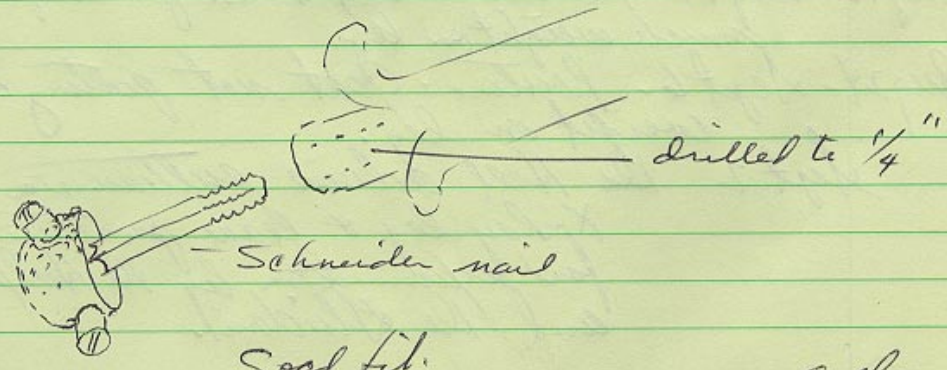
0845 - 600 mg (10cc) So. Rante. No IV drip.

0850 - Start Dextrose + start 1.5% Kalc 500cc  $\frac{1}{2}$  hr

0930 - Start surgery

0955 - Shut off hal - Ojew to run air -  
 Remove drain. Spray + topogone  
 No hard dressing. ace bandage only.

1000 Complete surgery  
 drain not working - remove.



Good fit.

Lugs left internal - No hard dressing.

1030  $\frac{1}{2}$  cc Combiotic -

22 July 2 cc Combiotic in  
 Recovery appears normal.

\*  
7 Sept, 1977 Exp # 43 goat # 43 ♀ blk & white face stripe  
WPO goat 5 seed.

- 0830 Transfer to surgery
- 0840 10 mg acepromazine
- 15 mg atropine
- 0845 600 mg (10cc) So. Pentobarb.
- 0850 Intubate & start 3.5% Hal & 500cc O<sub>2</sub>/min
- 0900. Reduce to 2.5% Hal.
- 0920. Start surgery.
- 0935- Shut off Hal & open inline O<sub>2</sub>
- 0950- Complete surgery

Thick skin flap developed & stripping out of tendons and nerves. Bone drilled & 1/4" drill. Intramedullary fit was very tight. Ace bandage for exteriorizing legs.



*[Handwritten signature]*

1000  
4RS 2cc Combiotic 14 st.

- 8 Sept 2cc Combiotic
- 9 Sept 2cc Combiotic
- 10 Sept 2cc Combiotic

Post-op recovery appears normal.

26 May - goat chewed hem-o-vac drain tube and tube separated above suction unit.

Remove suction tube from leg + spray in to gozone - 2 cc Combiotic in V<sub>2</sub>

27 May - 2 cc Combiotic in S.T.

28 May Sat } 2 cc Combiotic / S.T.

29 May Sun } 2 cc Combiotic / S.T.

30 May } appears normal.

June 1 - goat appears normal. 1 wk post-op -  
June 1-8 - Routine care, 2 wk post-op.

Dr Hall

Remove hard dressing + sutures.  
Skin below leg line mummified - possible due to cast pressure on skin against internal prosthesis cut off blood supply. Ace bandage may have to be eliminated.  
Install external prosthesis - spray wound area in to gozone + transfer goat to Am. grass pasture back of Bldg 118.

July 13, 1977 - Euthanize

No specimen - mummified area -  
Examined by Dr Hall + Dr Shidomi  
S.S.

Dr. Hall  
Sturley Hall 27  
San Francisco  
Calif & Swagire 2.

1 June 1977 Exp # 39, goat # 39 white ♀ i horns

NPO # 39 July 30

Exp # 39 goat # 39 white ♀  
i horns

June 1, 1977 - Surgery

- 0820 - Transfer to surgery -

0825 - 1cc (10mg) acepromazine  
12 mg atropine

0840 - 540 mg Sodium Pentobarbital IV.

In to table

0850 - start 3% Hal. i 500 cc O<sub>2</sub>/min.

0930 Start Surgery.

Velour covered bucket  
i legs tied down i 55 wire

Wetia (right leg) Leave blood supply  
Perforate  
Cut 1 cm higher than usual  
Drill hole for cement anchor -  
Make 1 drill hole i sm. drill 1/8"  
then use larger drill (1/4")  
to ream out hole

Long anterior flap. sutured i interrupted silk

Note: Bucket had hole in bottom - cement

Same cut -  
Cut legs open to external.

1015 complete surgery - Spray wound  
i toprizone


Remove drain  
Hard dressing + Hoopes Splint

200 Combuatic 1M

Leave in Post-op 2 wks -

Sinmast  
Epoxy  
Velour  
to metal

- June 2 Recovery appears normal  
2cc Combiotic
- June 3. 2cc combiotic - feed + H<sub>2</sub>O OK
- June 4. 2cc combiotic - ..
- June 5 - 2cc combiotic - ..
- June 5 - June 15 - Routine care post-op stall,  
June 15 - ~~Feed~~ Remove cast + install  
external prosthesis. Lower area mummified

 - upper area appears normal,  
mummified area

Transfer to grass pen back of Bldg 118.

June 15 - June 29 - Routine care

June 22 - Goat limping

June 29 - Goat appears weak - alert Beta  
to watch over weekend.

July 2 - Goat found dead in pasture. *Diogaster diarhina?*  
apparent! Prosthesis + stump mummified up to  
lug area. Place stump in resin for study.

July 15 1977 Stump mummified →

No specimen taken

Examined by Mr. Hall & Dr. Glidani

J.S.



SAT. 23 July 2cc Combiotic in wheel JC  
 SUN. 24 July 2cc Combiotic in " "

25 July → routine care - half H<sub>2</sub>O ad lib.  
 hand feed corn + sup protein 20%

25 July - 28 July - Routine care

July 28 - Remove all bandage + Thomas splint.  
 Cut leg to epifemoral

Slight drainage - serous  
 Attach epifemoral 3 joint prosthesis,  
 Transfer to sun. grass pasture.

July 29 - Aug 5 - Routine - appears to be recovering normal,  
 walks on prosthesis.

Aug 5 - Aug 12 - Routine - walks on prosthesis

Aug 12 - Aug 24 - Routine - slight limp - not putting as  
 much weight on leg.

Aug 24 - Sept 6 - Routine - goat not putting any  
 weight on leg.

Sept 7. Dr Hall advise euthanasia.  
 X-ray leg + leave prosthesis in  
 for determination by Dr Hall  
 and Dr Ghidoni.

Jan 17, 1978 - Dr Hall + Dr Ghidoni examined  
 specimen.

No samples taken  
 Clean prosthesis for record file.

Dr. Hall  
Shirley Hall 37  
\* Jim Donlinson  
DOG  
LYNN

24 Aug. 1977 Egg #42 - goat #42 white ♀  
NPO Goat 22 Aug.

0830 Transfer to surgery.

0845 - 10 mg acepromazine

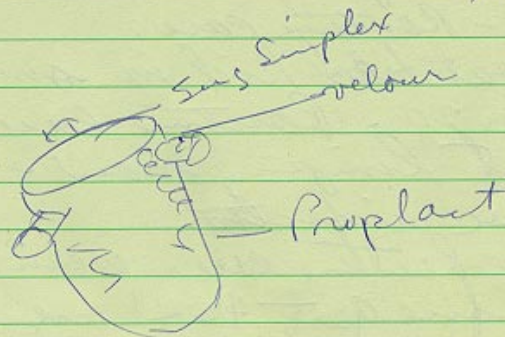
15 mg atropine

0910 - 7 cc (420 mg) 80. Pent.

0920 - Start 3.5% Hal 500 cc O<sub>2</sub>/min.

0945 - Start surgery

1030 - Complete surgery - 4x4 ace bandage only



Skin was not directed free from  
fascia, rather skin, fascia, muscle &  
tendons were directed free from  
bone. Long tendons removed after  
flap was developed.

1100 hrs - 2 cc Combuject

1140 - Transfer to post-op recovery.

25 Aug - Routine. 2 cc Combuject.

- 26 Aug - Remove bandage + install  
Internal prosthesis.  
Transfer to sm-pasture back of Bldg 118
- 26 Aug - Sept 6 - Routine.
- Sept 7 - Remove sticks - wound area  
appears viable - hair growing on stump.
- Sept 7 - Nov 7 - Routine care.  
Hair growth complete on stump.  
Slight limp - possible bone necrosis?
- Nov 7 - Dec 12 - Routine care.
- Dec 27 - goat had kid in small pasture.
- Dec 27 - Jan 20 - Routine care.  
Goat limping now - may  
have infection.
- Jan 20 - Feb 15 - Routine care - wean kid.  
Sacrifice goat 42 + use intact  
left tibia as model on fluted design.

Post inspection of @ leg shows some  
caseous material in distal end & odor -  
no infection present. Around each lug  
there appears to be downgrowth of epithelium  
which may explain presence of caseation  
(epidermal debris).

Used @ leg to place new trifluted  
pilot model using saw guide.

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