FIGURE 1

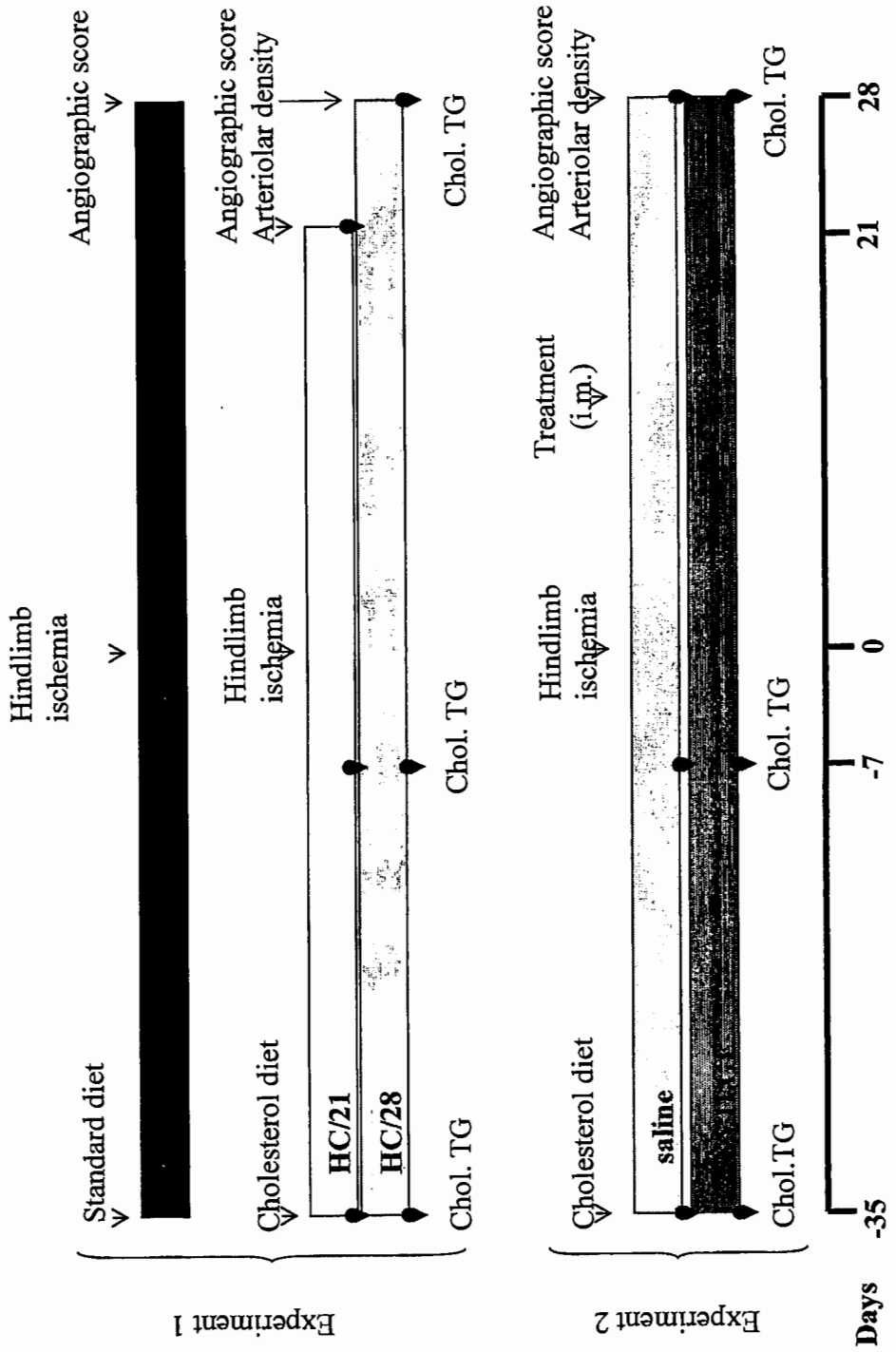

Experiment 1
Standard diet
Hindlimb ischemia
Angiographic score
Cholesterol diet
Hindlimb ischemia
Angiographic score
Arteriolar density
HC/21
HC/28
Chol. TG
Chol. TG
Experiment 2
Cholesterol diet
Hindlimb ischemia
Treatment (i.m.)
Angiographic score
Arteriolar density
saline
Chol.TG
Chol. TG
Chol. TG
Days
-35
-7
0
21
28

FIGURE 2







FIGURE 3

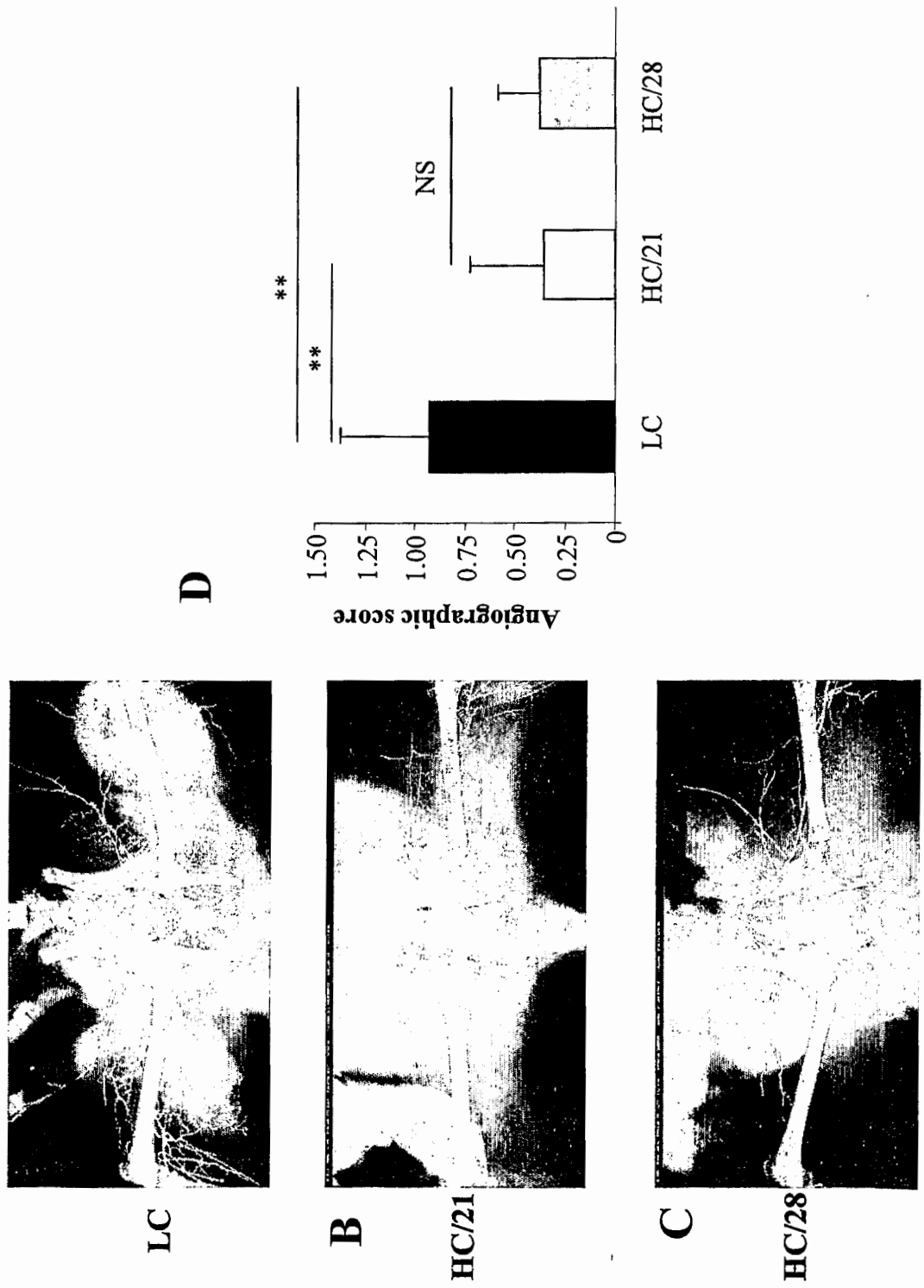

LC
B
HC/21
C
HC/28
D
Angiographic score
1.50
1.25
1.00
0.75
0.50
0.25
0
**
**
NS
LC
HC/21
HC/28

FIGURE 4

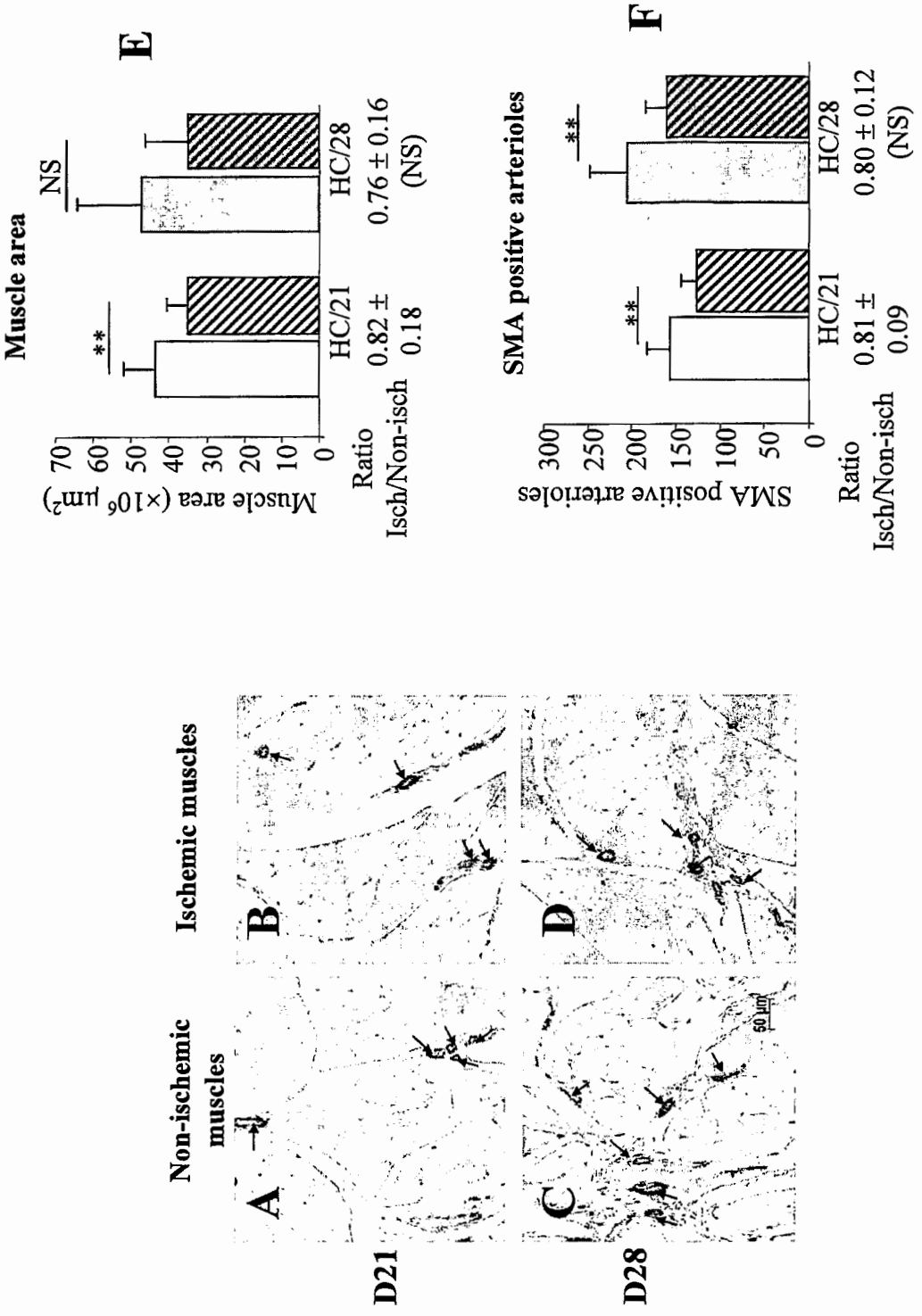

Non-ischemic muscles
Ischemic muscles
A
B
C
D
D21
D28
50 µm
E
Muscle area
Muscle area (×10⁶ µm²)
0
10
20
30
40
50
60
70
**
NS
HC/21
HC/28
Ratio Isch/Non-isch
0.82 ± 0.18
0.76 ± 0.16 (NS)
F
SMA positive arterioles
SMA positive arterioles
0
50
100
150
200
250
300
**
**
HC/21
HC/28
Ratio Isch/Non-isch
0.81 ± 0.09
0.80 ± 0.12 (NS)

FIGURE 5

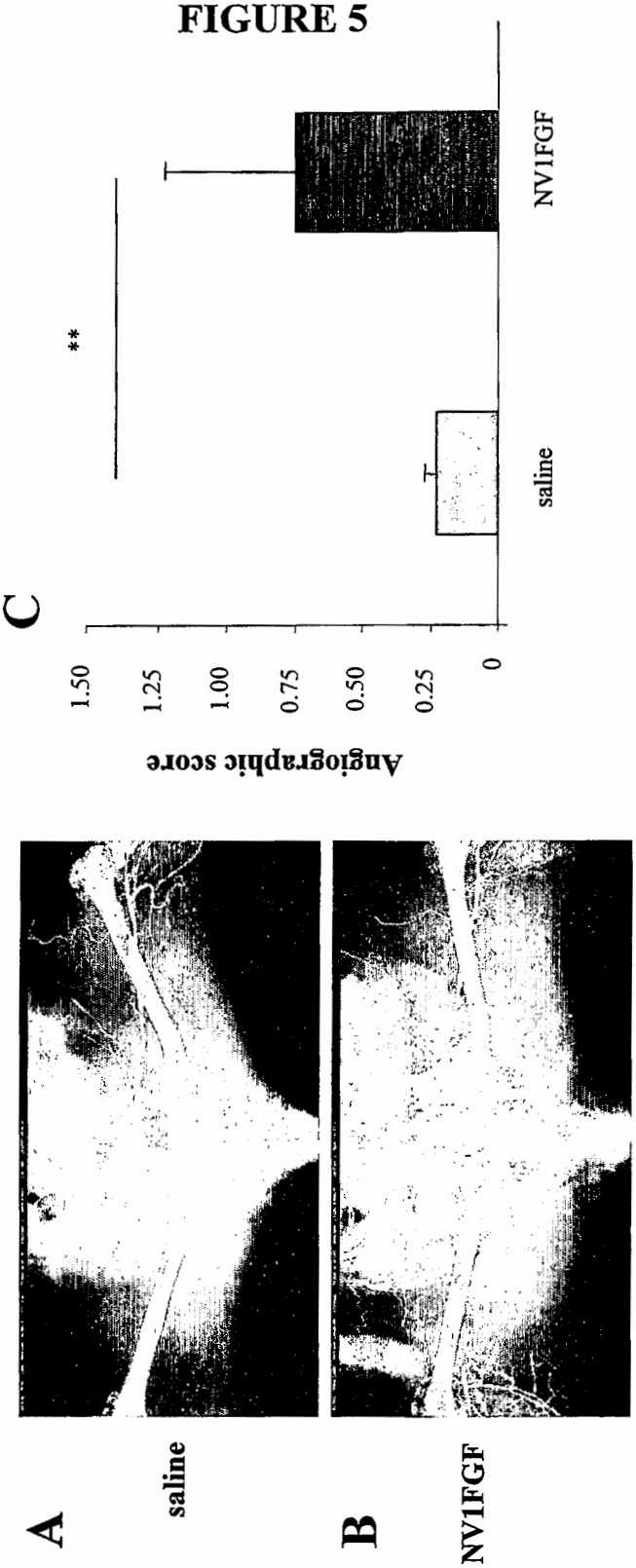

A
saline
B
NV1FGF
C
Angiographic score
1.50
1.25
1.00
0.75
0.50
0.25
0
**
saline
NV1FGF

FIGURE 6

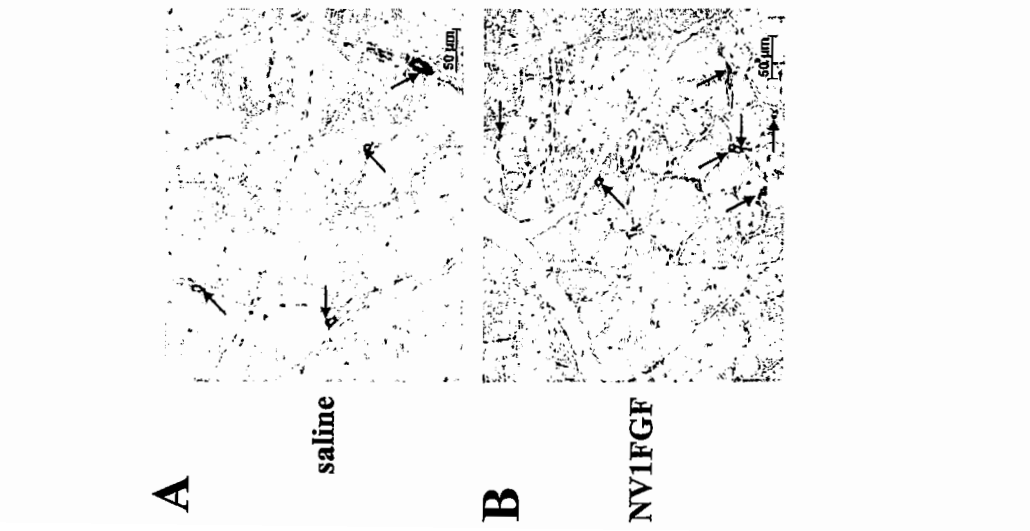

A
saline
B
NV1FGF
C
Muscle area
Muscle area (×10⁶ µm²)
NS
NS
saline
NV1FGF
Ratio Isch/Non-isch
0.81 ± 0.13
0.88 ± 0.17 (NS)
D
SMA positive arterioles
SMA positive arterioles
*
NS
saline
NV1FGF
Ratio Isch/Non-isch
0.80 ± 0.15
1.06 ± 0.18 (*)

FIGURE 7







FIGURE 8

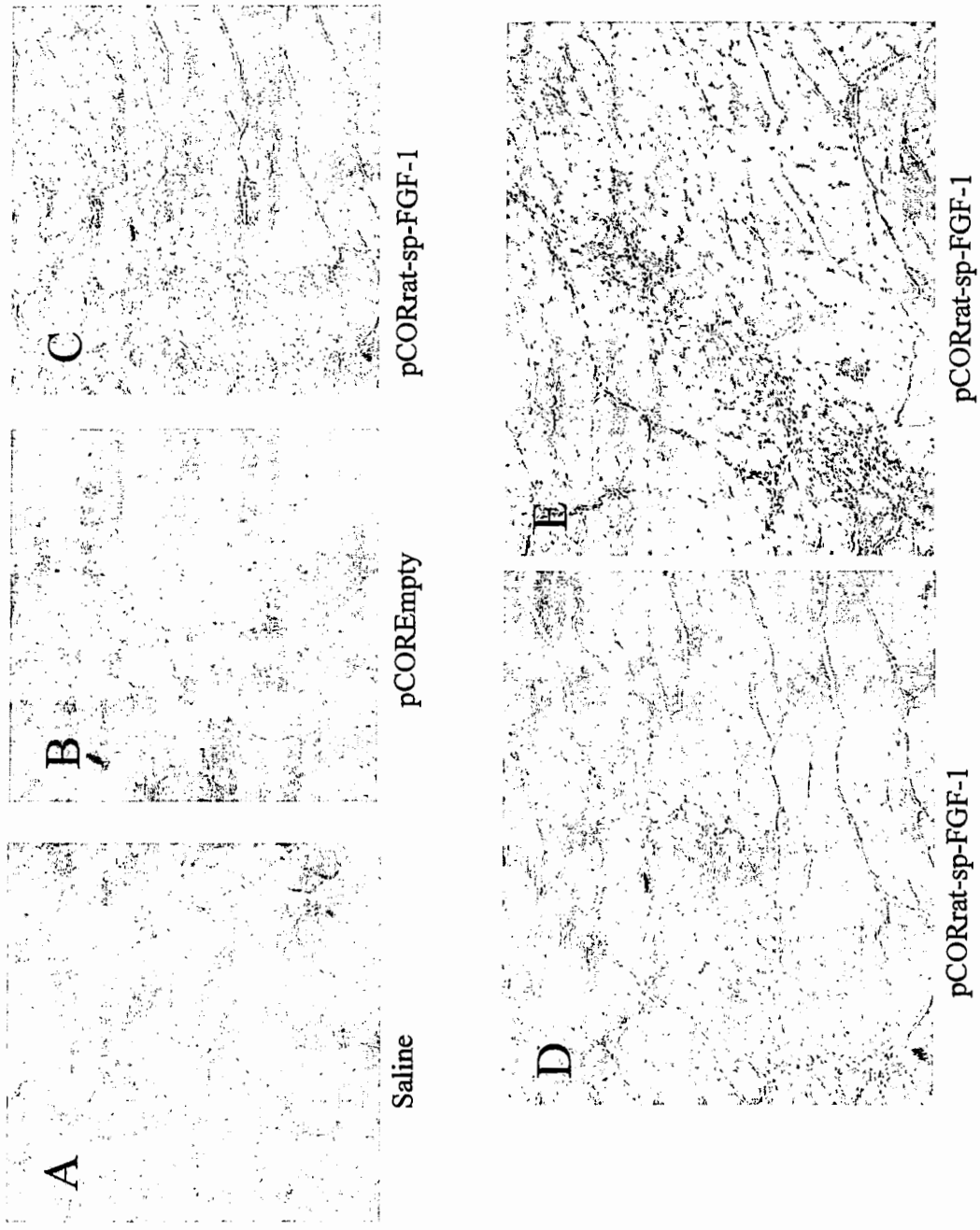
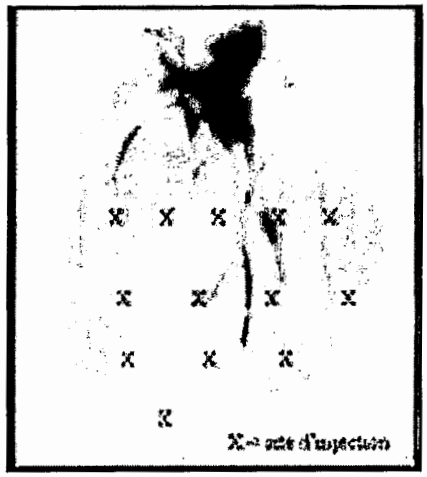

A
Saline
B
pCOREmpty
C
pCORrat-sp-FGF-1
D
pCORrat-sp-FGF-1
E
pCORrat-sp-FGF-1

FIGURE 9

A



B

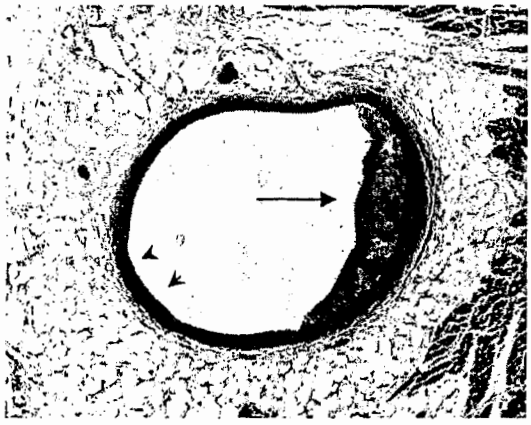
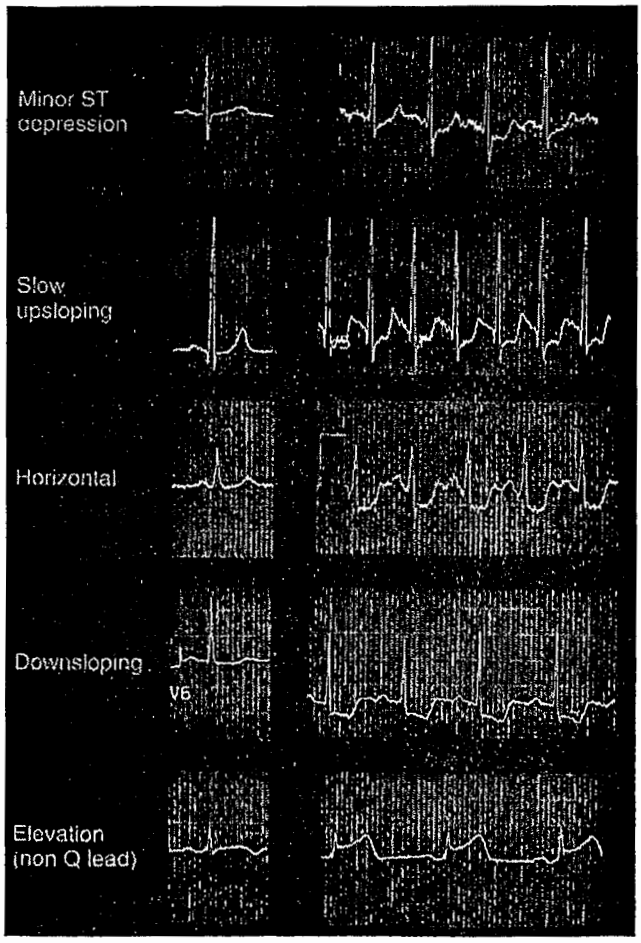


FIGURE 10


Minor ST depression
Slow upsloping
Horizontal
Downsloping
V6
Elevation (non Q lead)

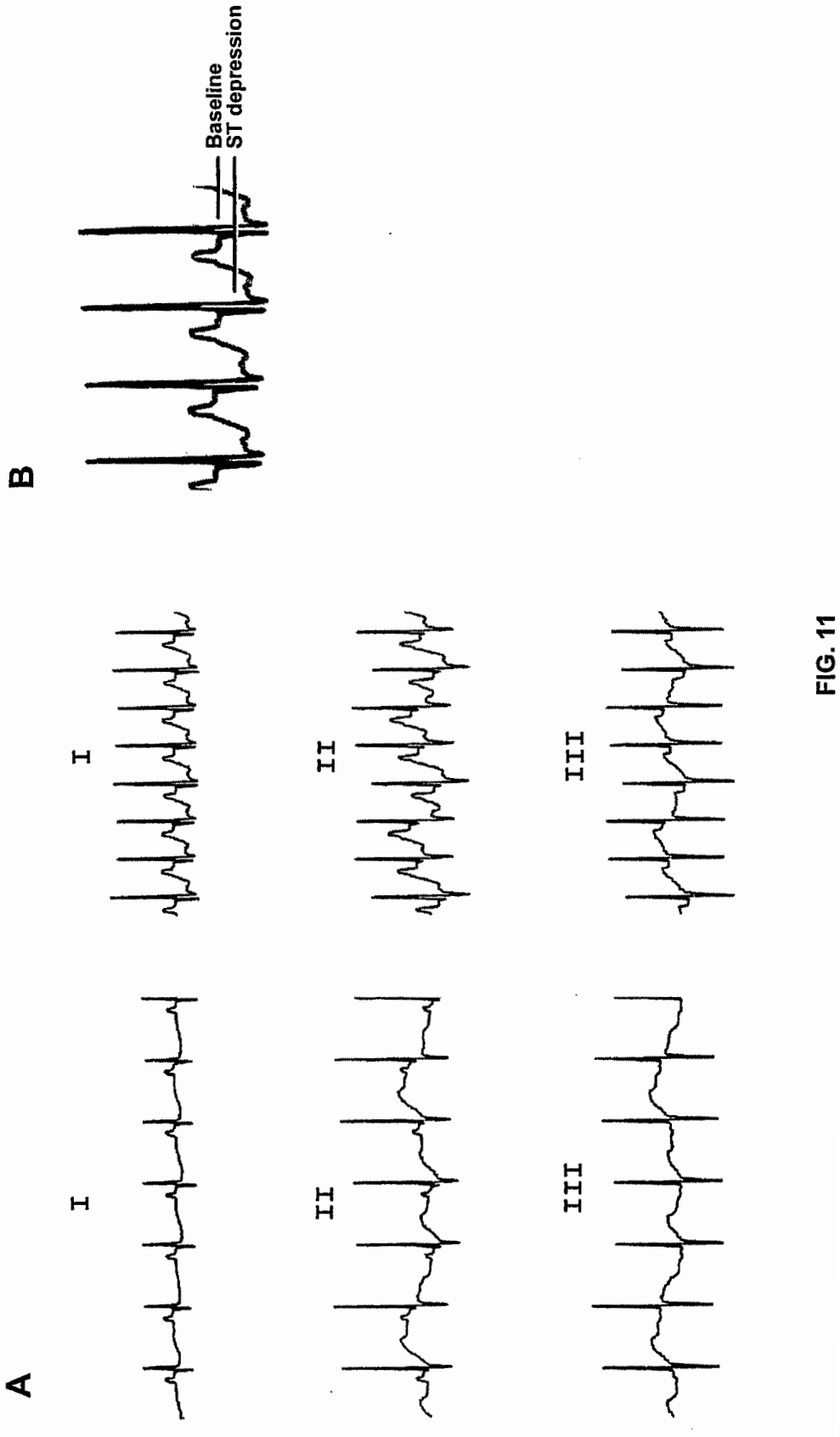


FIG. 11

FIGURE 12

Significant horizontal or downsloping ST depression :
3 points

Slow upsloping ST depression :
2 points

Non-Significant horizontal ST depression :
1 point

Significant High horizontal ST elevation :
3 points

« False » ST elevation due to the shortening between the T and P waves at high cardiac frequency :
0 point

Inversion of the T wave as compared with the begining of the test :
1 point

Notes

Significant : deepness > 1 check square (0.05mV at 2 cm/V),
time > 1 check square (0.04 sec at 25 mm/sec)

Every thing is reversed in aVR

Global score per animal : count only the one which gives the highest score

A Q wave of necrosis, inaugural, large (>1check square) and deep (> 3 check squares) criteria of exclusion

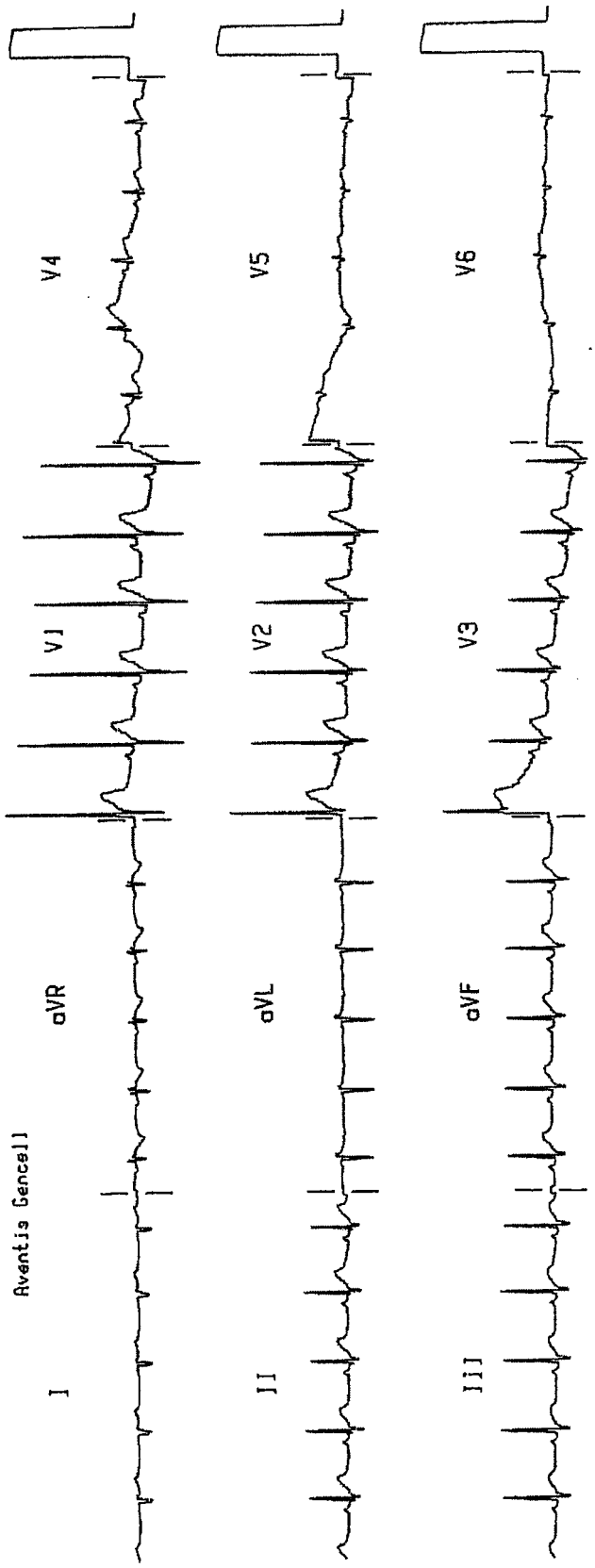


FIG. 13A

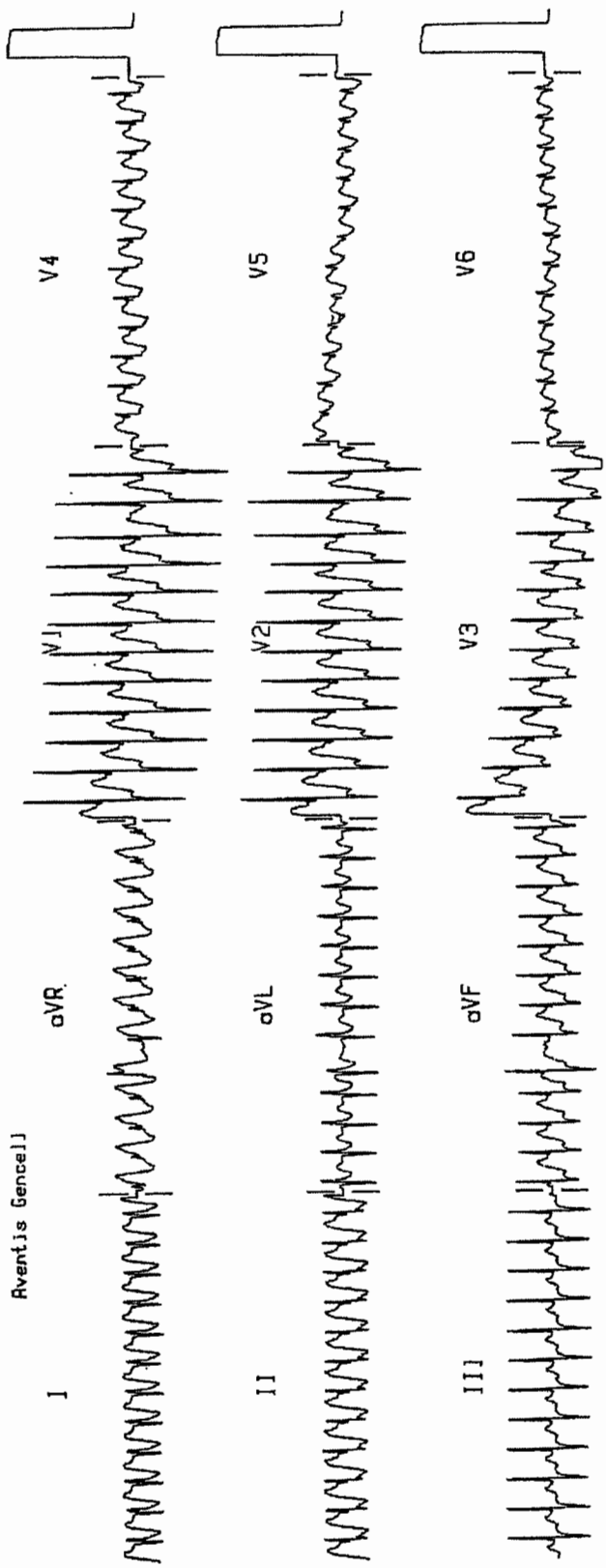


FIG. 13B

FIGURE 14

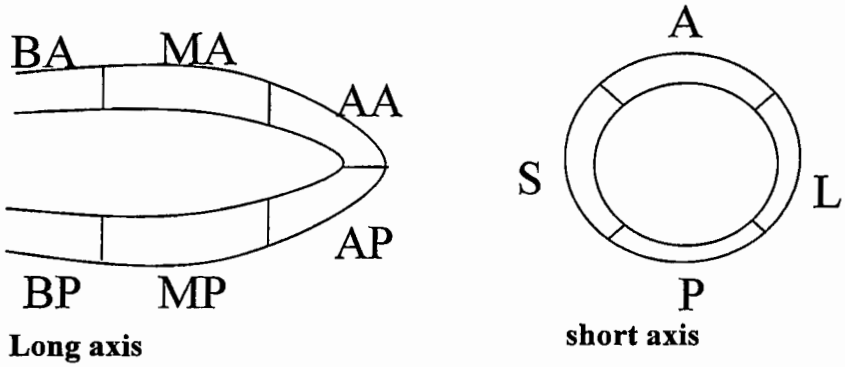


FIGURE 15A

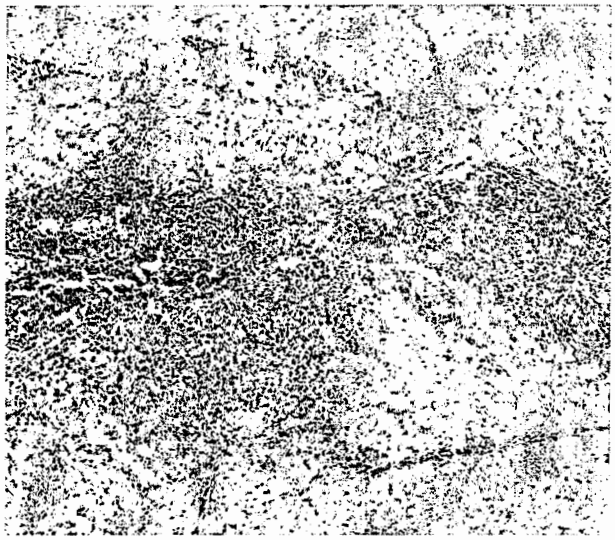


FIGURE 15B

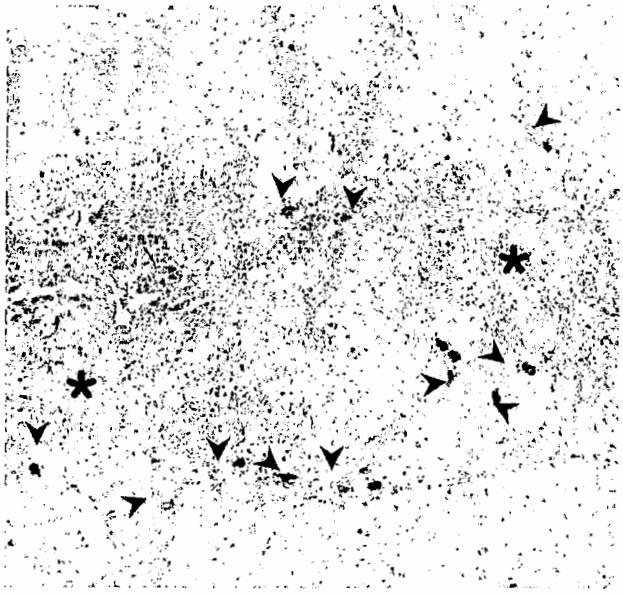


FIGURE 16

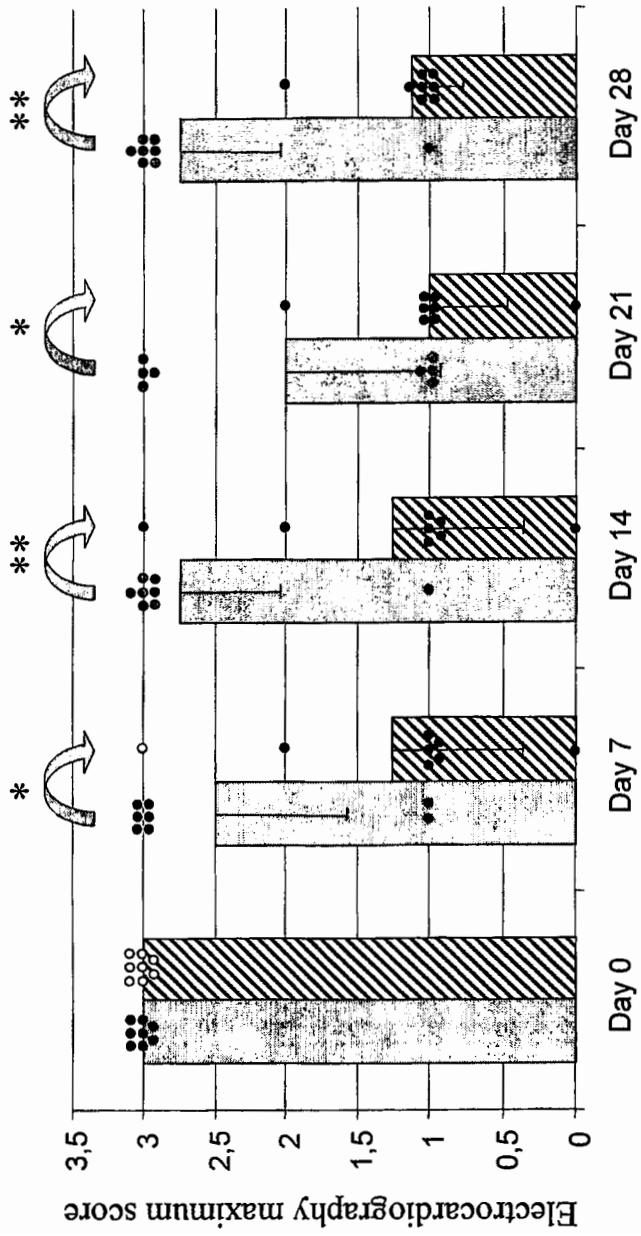

Electrocardiography maximum score
3,5
3
2,5
2
1,5
1
0,5
0
Day 0
Day 7
Day 14
Day 21
Day 28
*
**
**
*

FIGURE 17

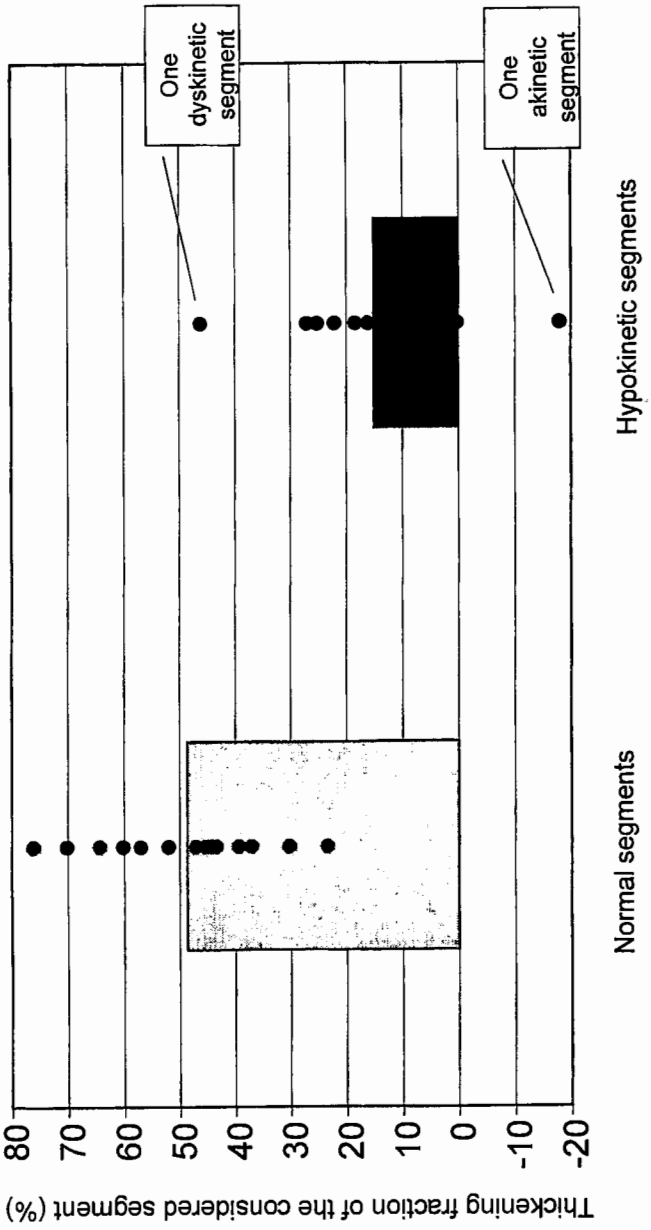

One dyskinetic segment
One akinetic segment
Hypokinetic segments
Normal segments
80
70
60
50
40
30
20
10
0
-10
-20
Thickening fraction of the considered segment (%)

FIGURE 18

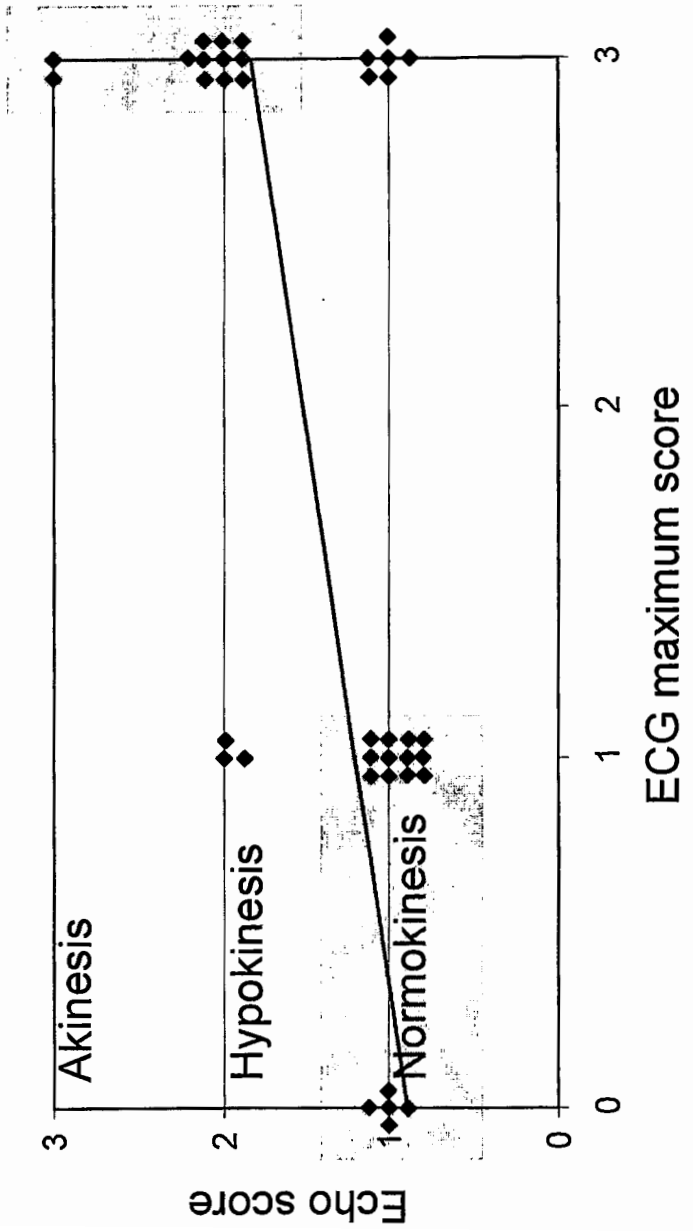

Akinesis
Hypokinesis
Normokinesis
Echo score
ECG maximum score
0
1
2
3

FIGURE 19

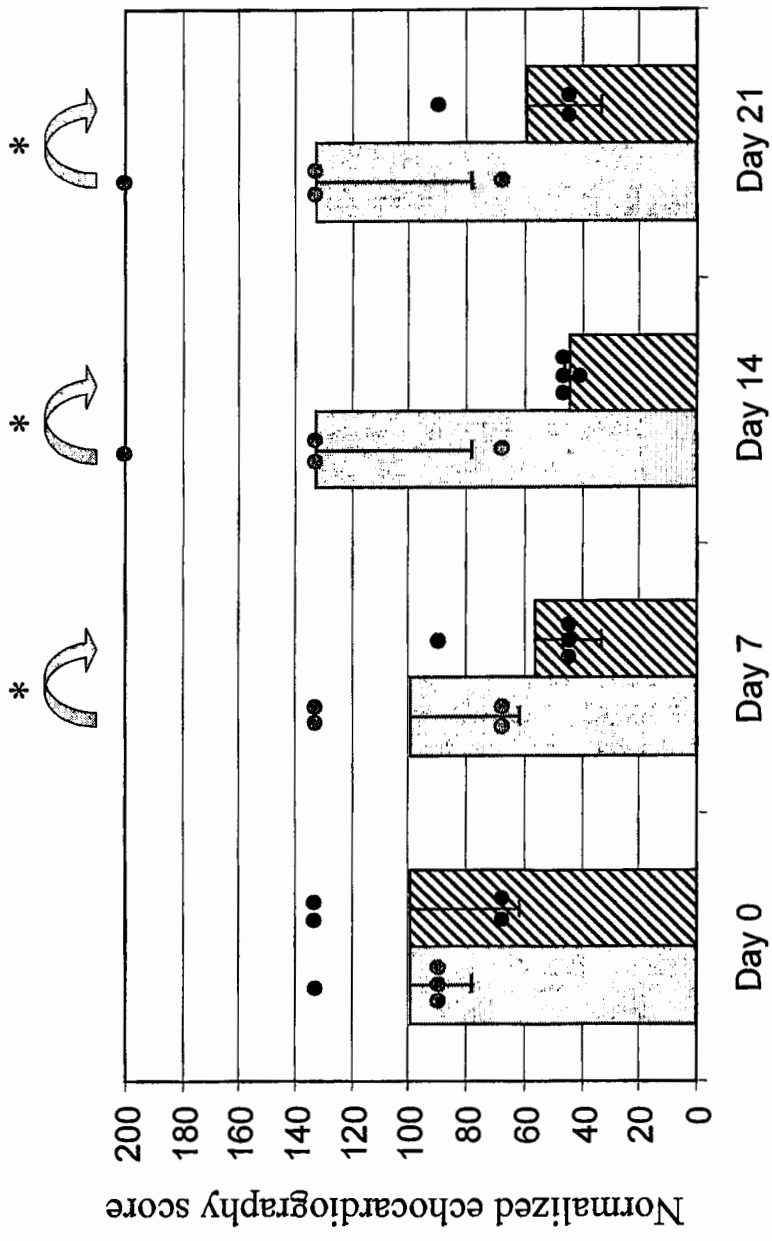

Normalized echocardiography score
200
180
160
140
120
100
80
60
40
20
0
Day 0
Day 7
Day 14
Day 21
*
*
*

FIGURE 20

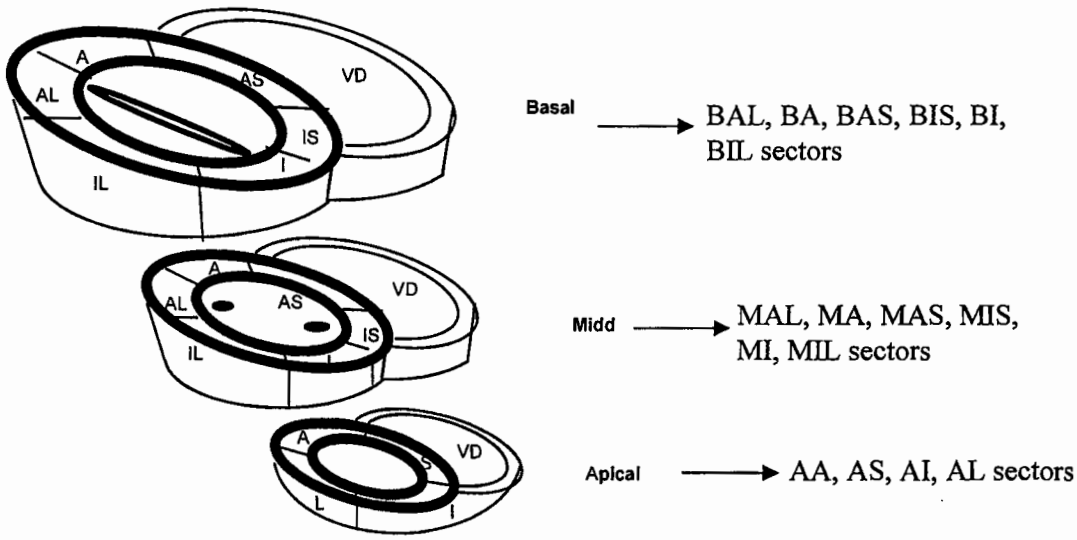
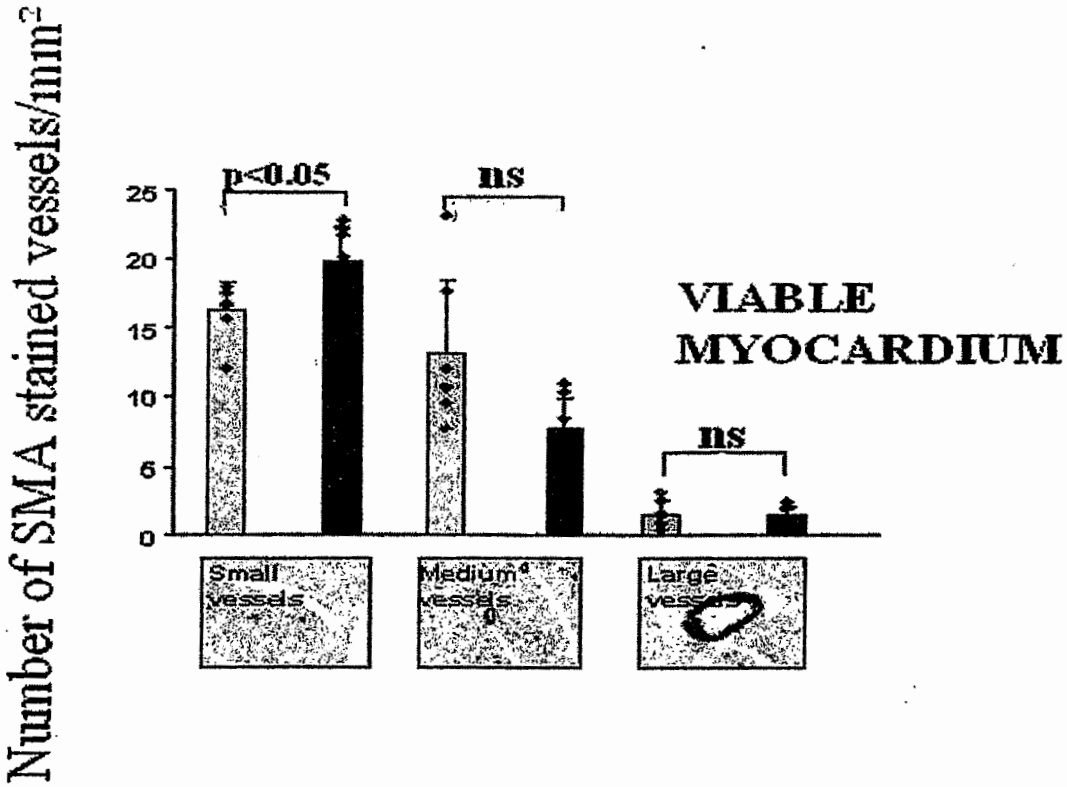

A
AL
AS
VD
IS
I
IL
A
AL
AS
VD
IS
IL
I
A
VD
L
I
Basal
BAL, BA, BAS, BIS, BI,
BIL sectors
Midd
MAL, MA, MAS, MIS,
MI, MIL sectors
Apical
AA, AS, AI, AL sectors

FIGURE 21


Number of SMA stained vessels/mm²
p<0.05
ns
ns
25
20
15
10
5
0
VIABLE MYOCARDIUM
Small vessels
Medium vessels
Large vessels