Figure 1

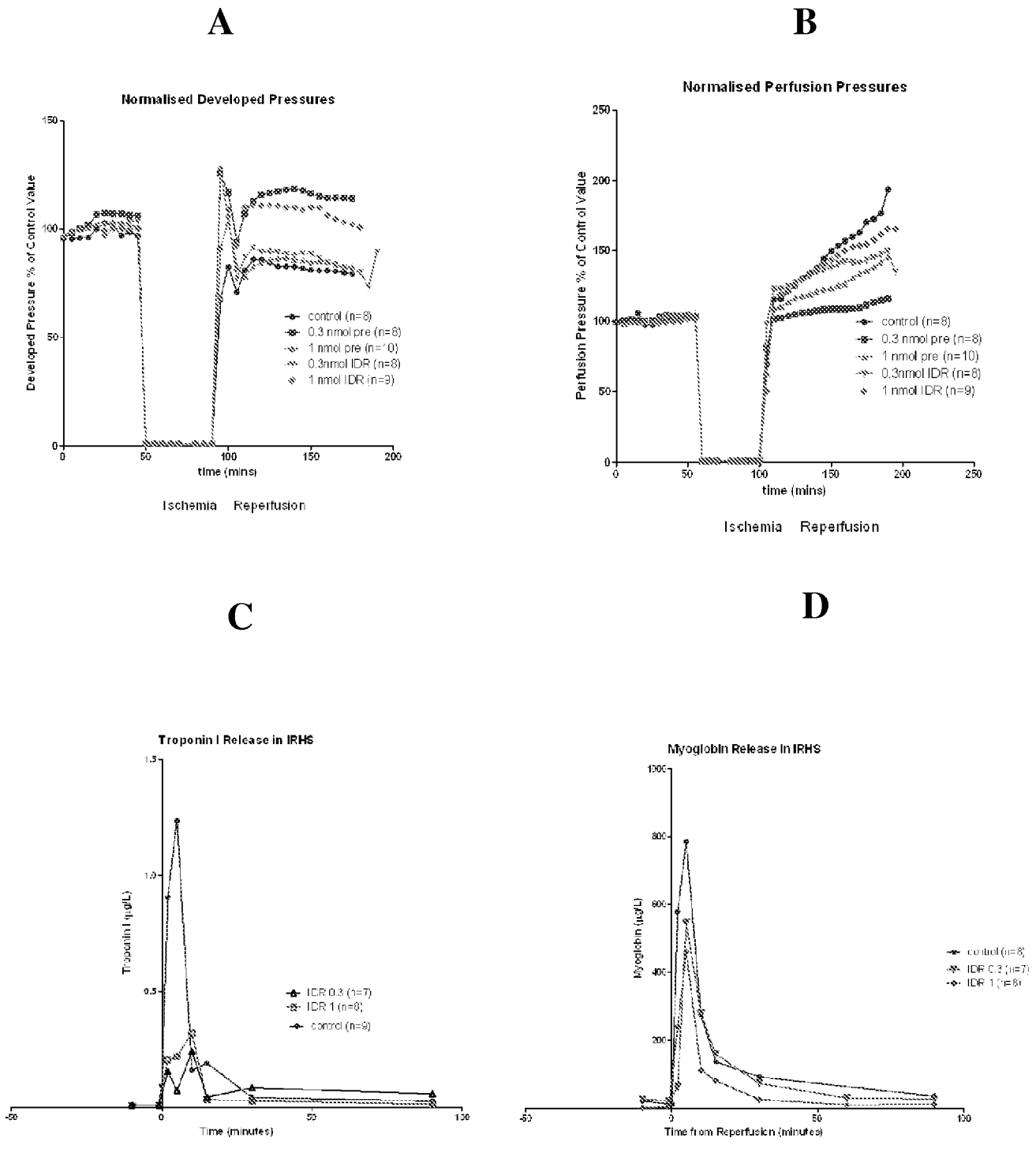

A
Normalised Developed Pressures
Developed Pressure % of Control Value
time (mins)
control (n=8)
0.3 nmol pre (n=8)
1 nmol pre (n=10)
0.3nmol IDR (n=8)
1 nmol IDR (n=9)
Ischemia Reperfusion
B
Normalised Perfusion Pressures
Perfusion Pressure % of Control Value
time (mins)
control (n=8)
0.3 nmol pre (n=8)
1 nmol pre (n=10)
0.3nmol IDR (n=8)
1 nmol IDR (n=9)
Ischemia Reperfusion
C
Troponin I Release in IRHS
Troponin I (µg/L)
Time (minutes)
IDR 0.3 (n=7)
IDR 1 (n=8)
control (n=9)
D
Myoglobin Release in IRHS
Myoglobin (µg/L)
Time from Reperfusion (minutes)
control (n=8)
IDR 0.3 (n=7)
IDR 1 (n=8)

Figure 2

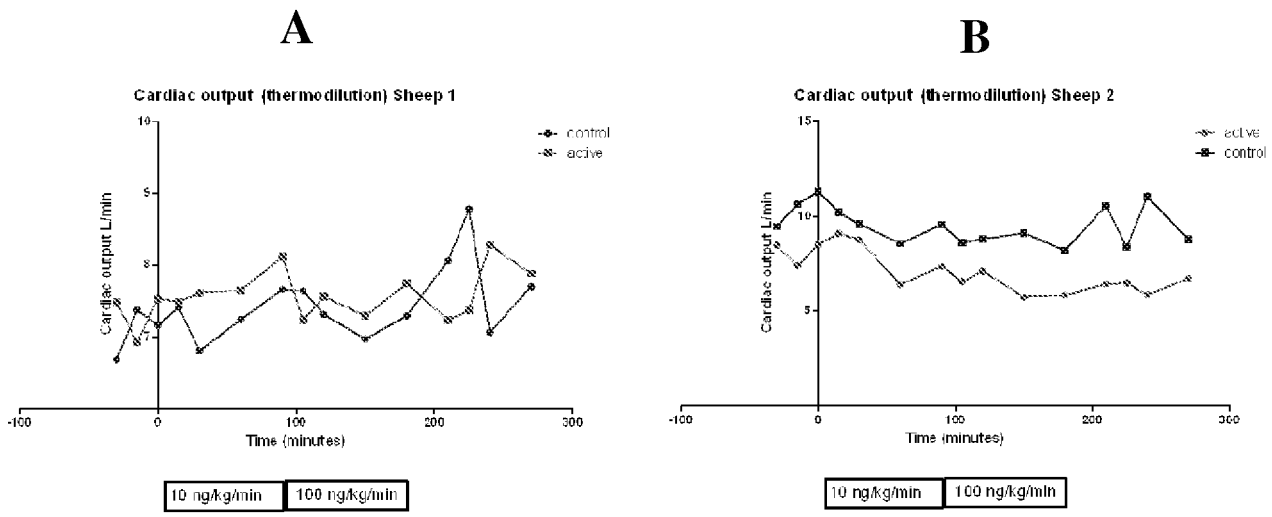
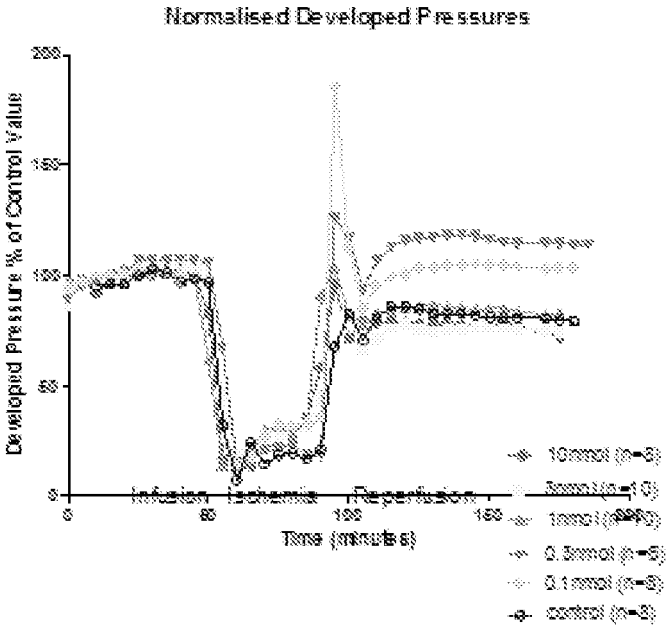
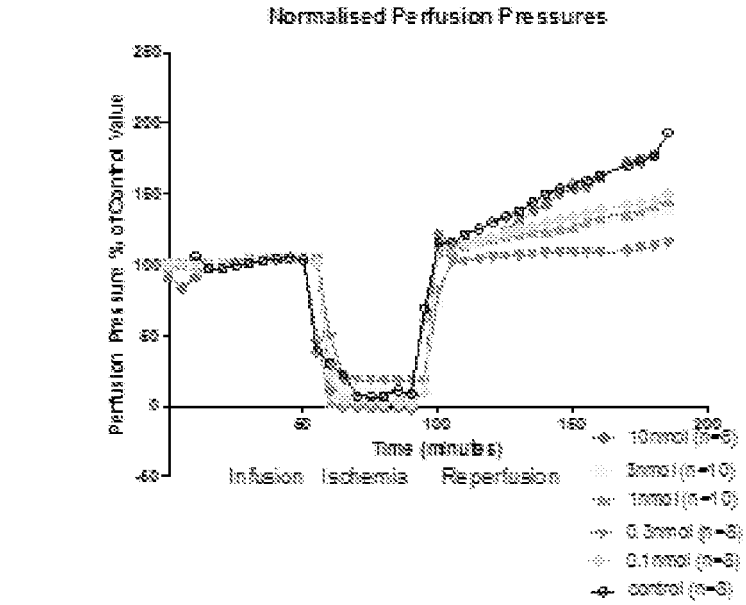

A
Cardiac output (thermodilution) Sheep 1
control
active
Cardiac output L/min
Time (minutes)
10 ng/kg/min
100 ng/kg/min
B
Cardiac output (thermodilution) Sheep 2
active
control
Cardiac output L/min
Time (minutes)
10 ng/kg/min
100 ng/kg/min

FIGURE 3



Preconditioning

FIGURE 4



Preconditioning

FIGURE 5

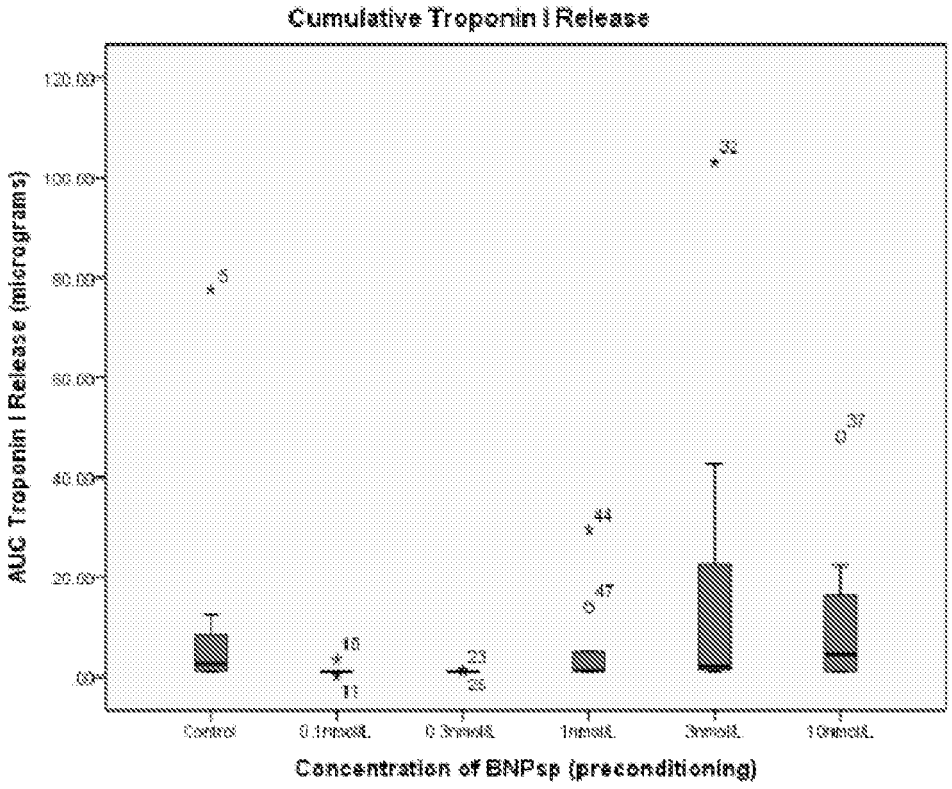

Cumulative Troponin I Release
AUC Troponin I Release (micrograms)
120.00
100.00
80.00
60.00
40.00
20.00
.00
Control
0.1nmol/L
0.3nmol/L
1nmol/L
3nmol/L
10nmol/L
Concentration of BNPsp (preconditioning)

FIGURE 6

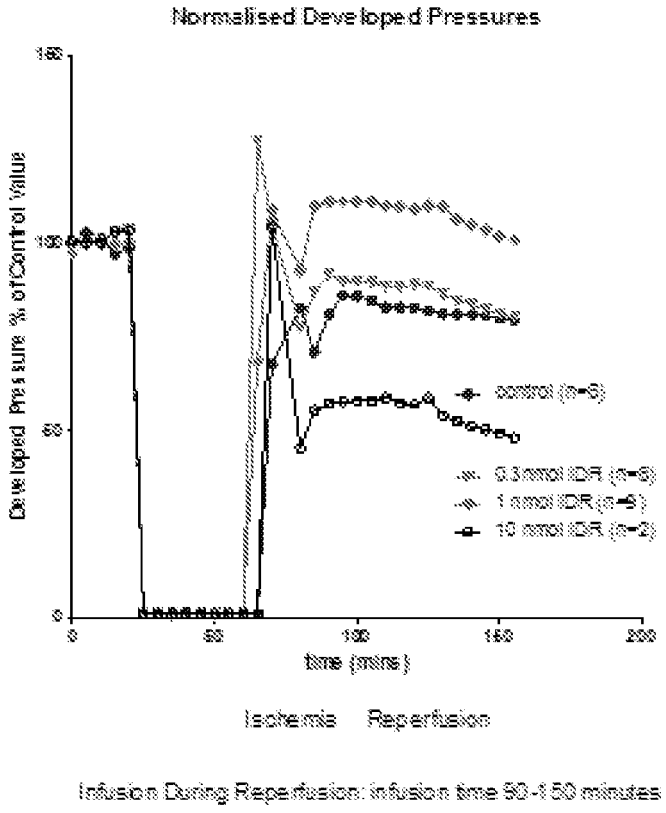
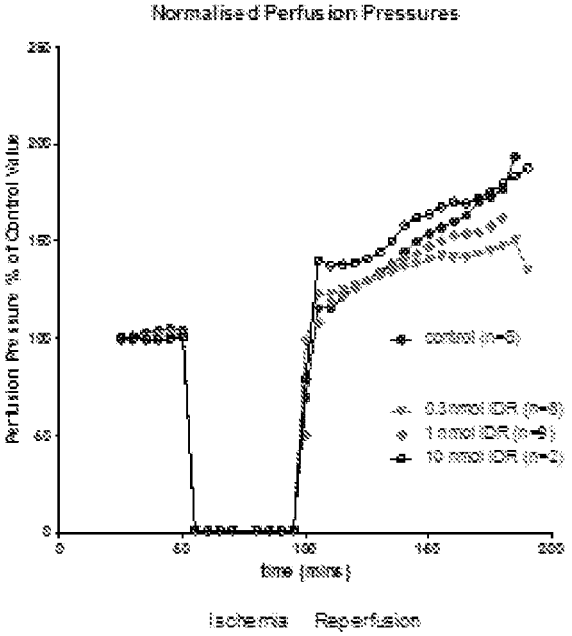

Normalised Developed Pressures
Developed Pressure % of Control Value
150
100
50
0
0
50
100
150
200
time (mins)
control (n=6)
0.3 mmol IDR (n=6)
1 mmol IDR (n=5)
10 mmol IDR (n=2)
Ischemia
Reperfusion
Infusion During Reperfusion: infusion time 60-150 minutes

FIGURE 7


Normalised Perfusion Pressures
Perfusion Pressure % of Control Value
time (mins)
control (n=3)
Ischemia
Reperfusion
Infusion During Reperfusion: infusion time 90-150 minutes

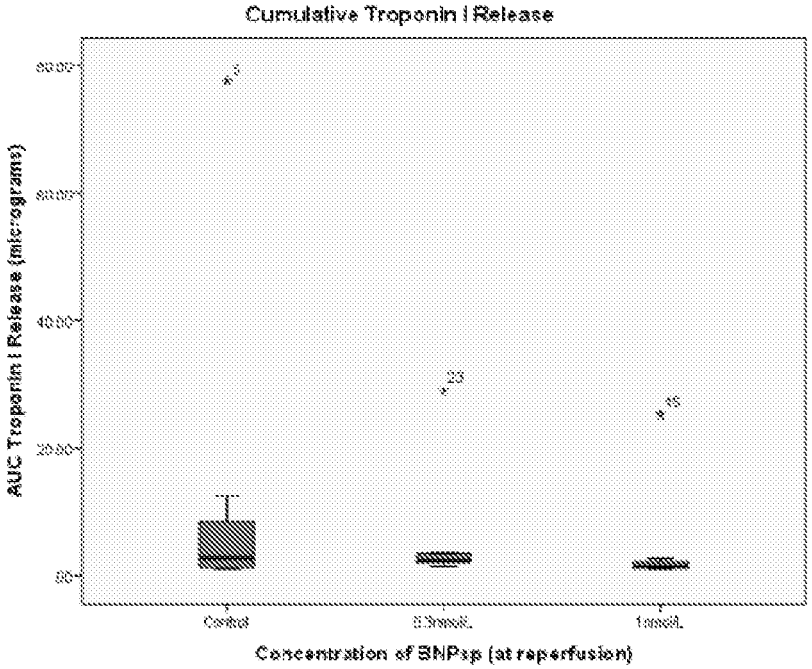

Cumulative Troponin I Release
AUC Troponin I Release (micrograms)
Control
Concentration of BNPsp (at reperfusion)

FIGURE 8

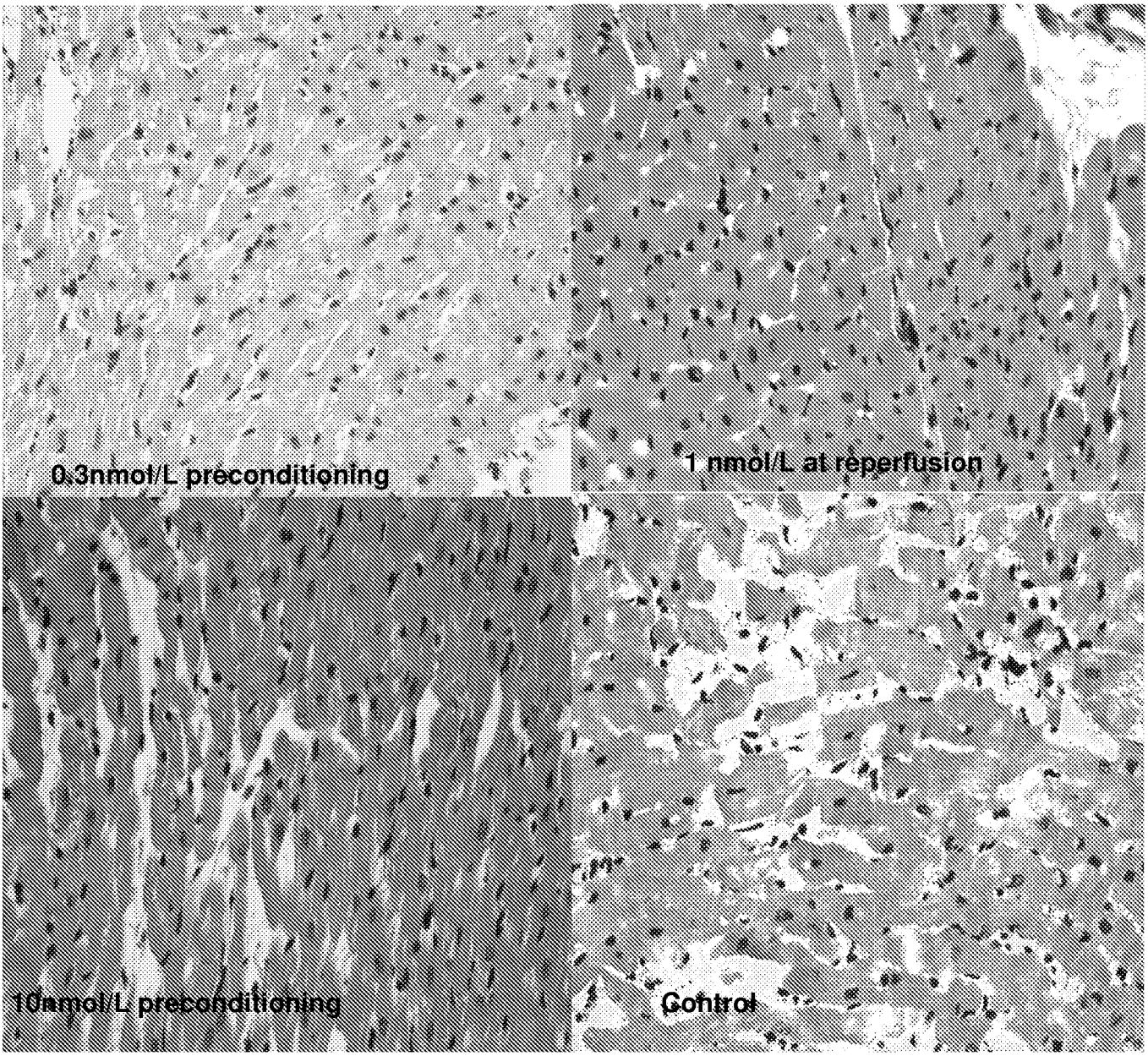

0.3nmol/L preconditioning
1 nmol/L at reperfusion
10nmol/L preconditioning
Control

FIGURE 9

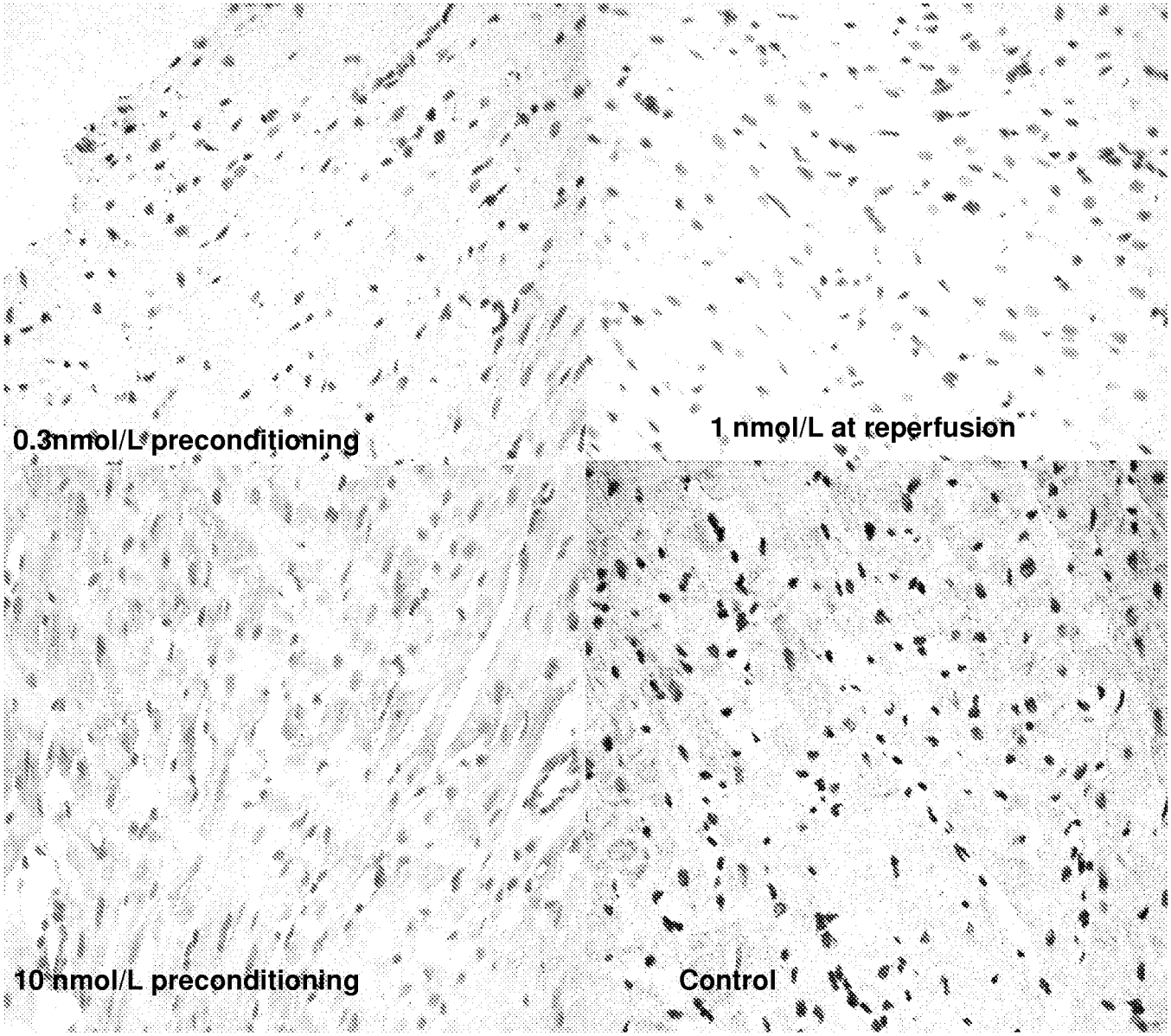

0.3nmol/L preconditioning
1 nmol/L at reperfusion
10 nmol/L preconditioning
Control

FIGURE 10

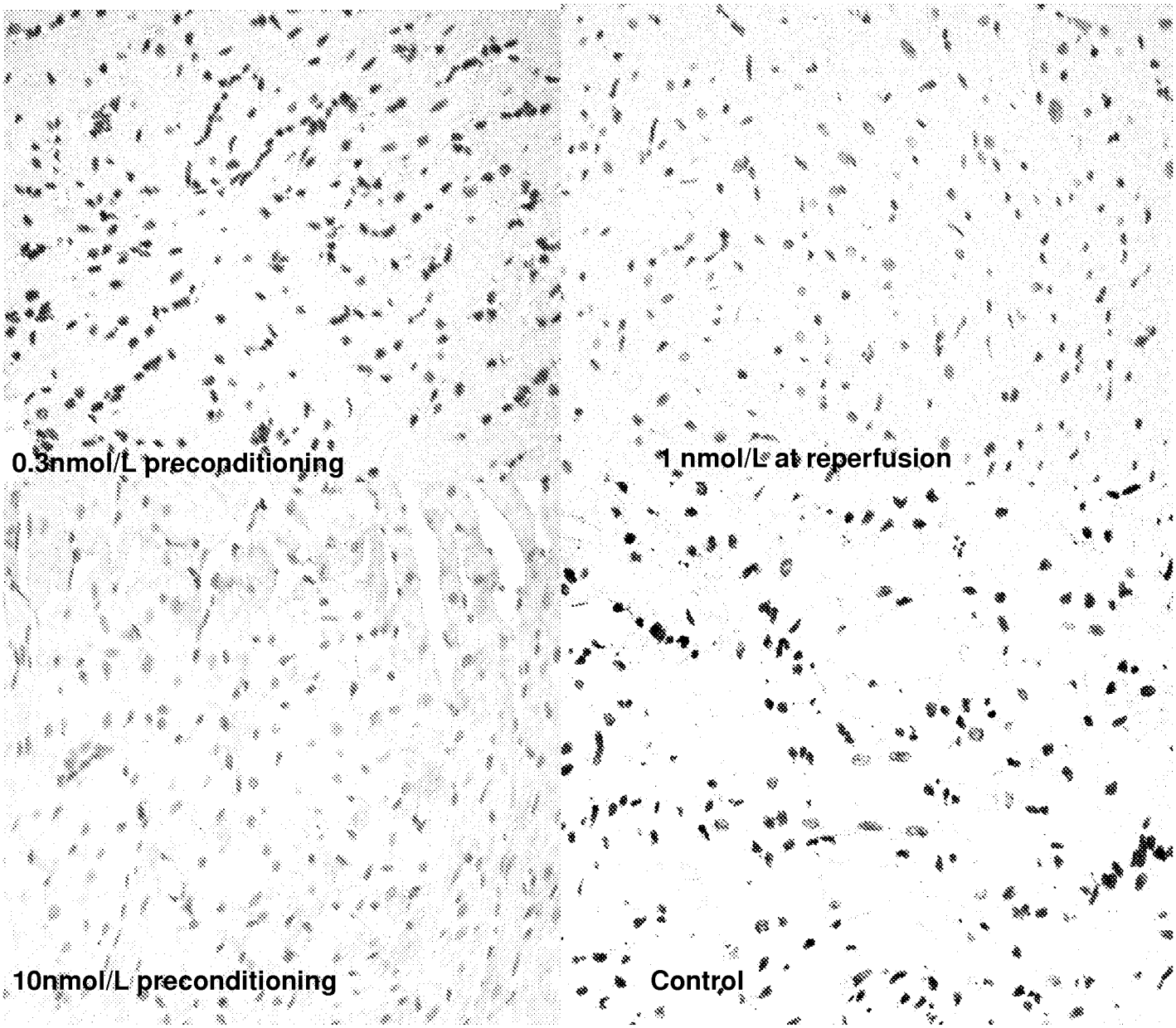

0.3nmol/L preconditioning
1 nmol/L at reperfusion
10nmol/L preconditioning
Control

FIGURE 11

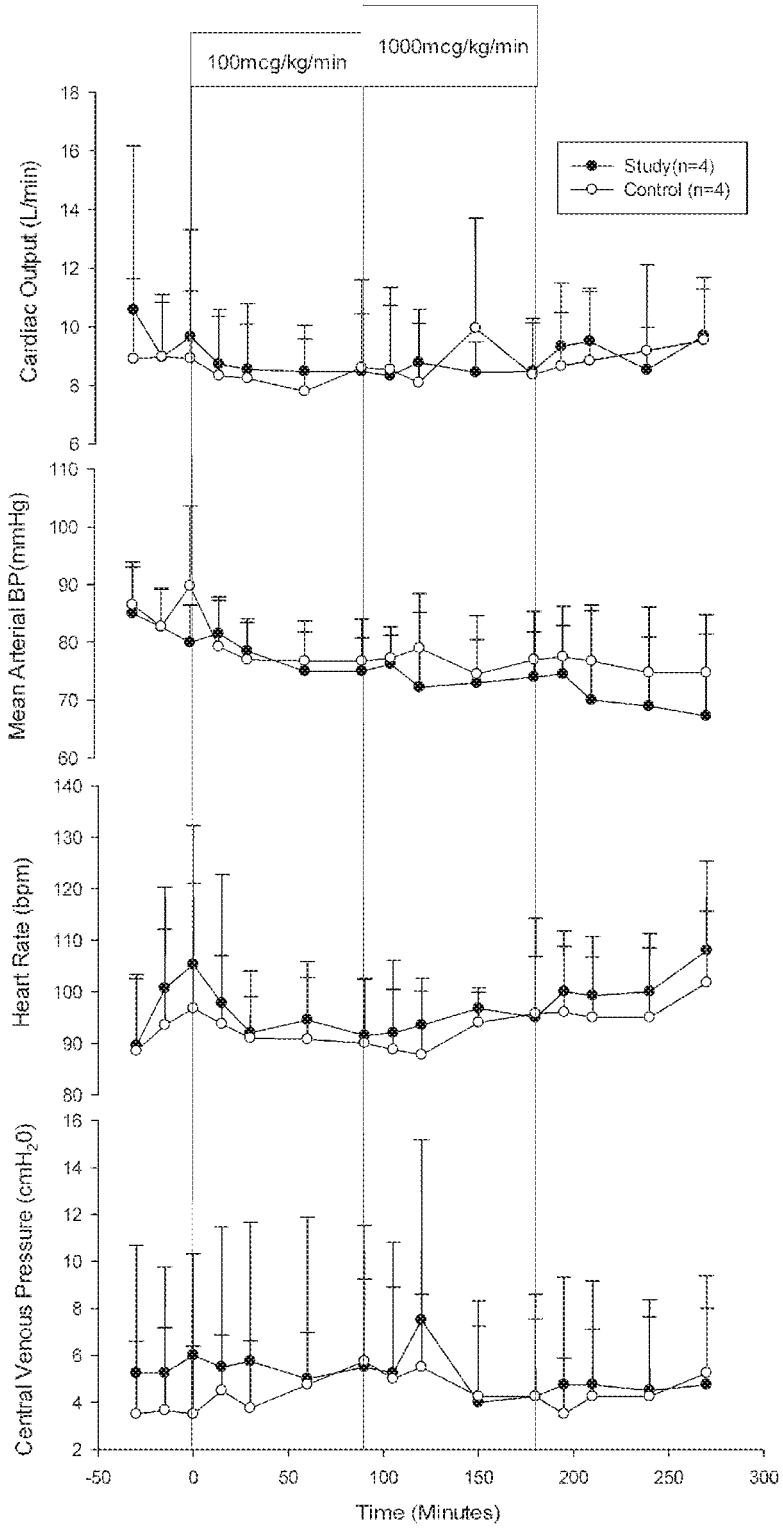

100mcg/kg/min
1000mcg/kg/min
Study(n=4)
Control (n=4)
Cardiac Output (L/min)
Mean Arterial BP(mmHg)
Heart Rate (bpm)
Central Venous Pressure (cmH2O)
Time (Minutes)

FIGURE 12

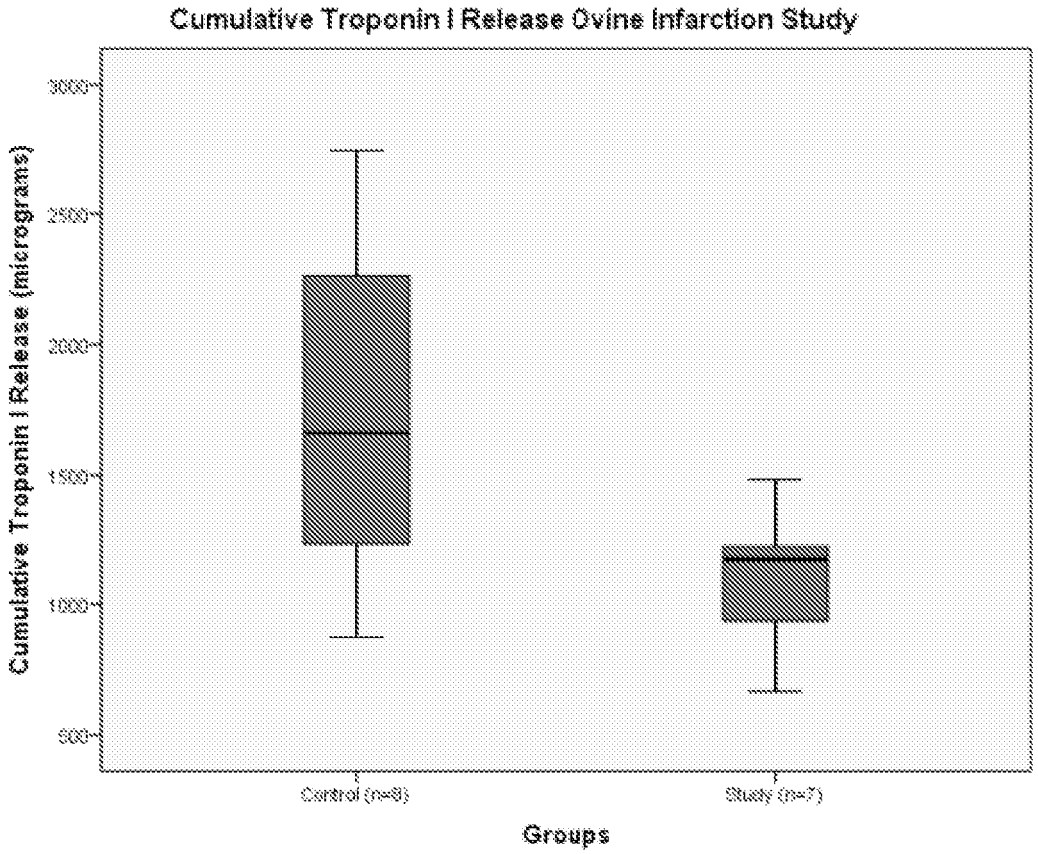

Cumulative Troponin I Release Ovine Infarction Study
Cumulative Troponin I Release (micrograms)
3000
2500
2000
1500
1000
500
Control (n=8)
Study (n=7)
Groups

FIGURE 13

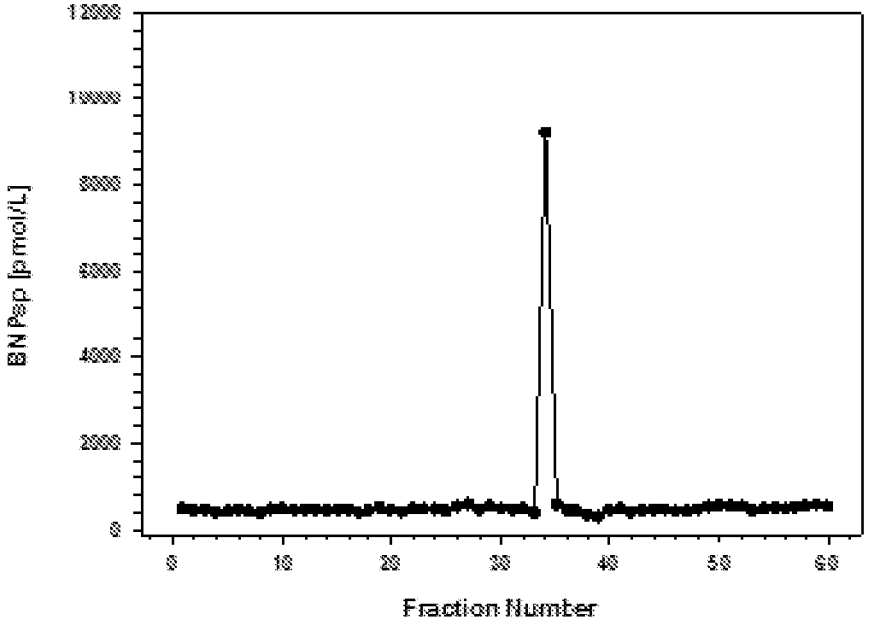
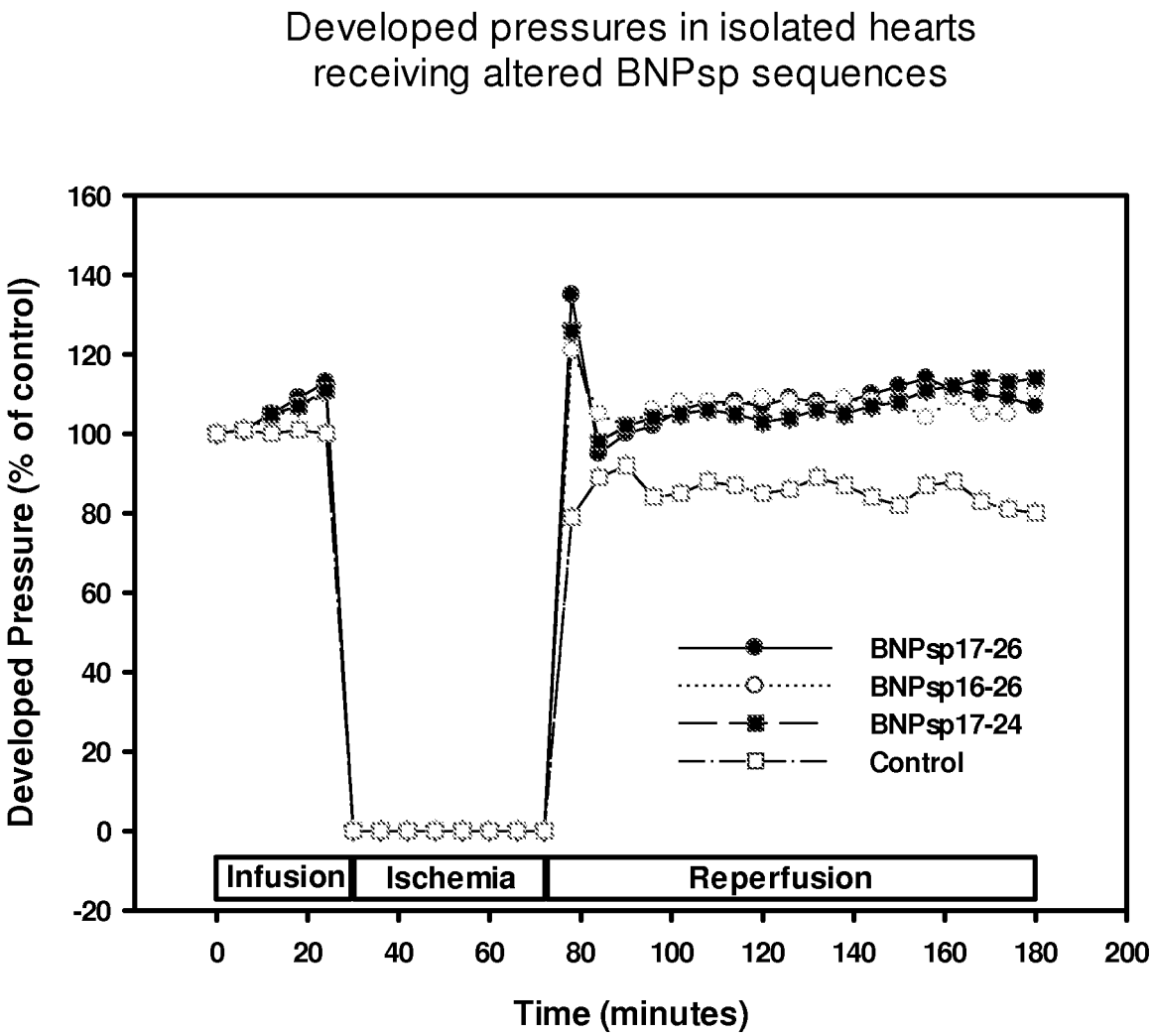

BN Psp [pmol/L]
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60
Fraction Number

FIGURE 14


Developed pressures in isolated hearts receiving altered BNPsp sequences
Developed Pressure (% of control)
160
140
120
100
80
60
40
20
0
-20
0
20
40
60
80
100
120
140
160
180
200
Time (minutes)
Infusion
Ischemia
Reperfusion
BNPsp17-26
BNPsp16-26
BNPsp17-24
Control