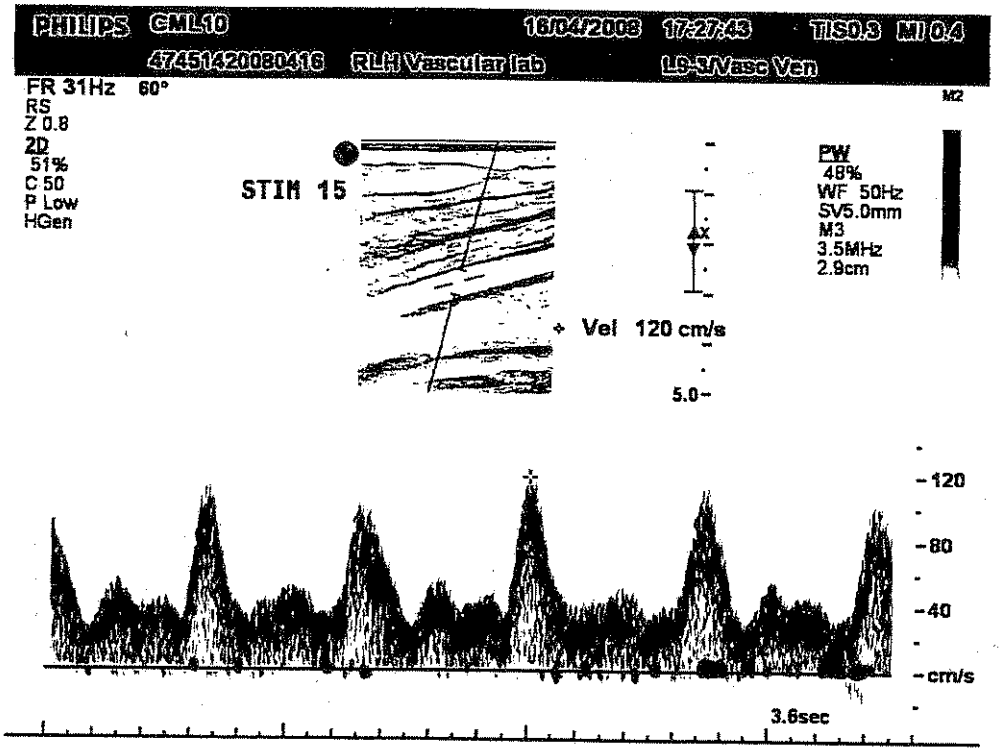

PHILIPS GML10
16/04/2008 17:27:43
TIS0.3 MI 0.4
47451420080416 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
Z 0.8
2D
51%
C 50
P Low
HGen
STIM 15
Vel 120 cm/s
5.0
PW
48%
WF 50Hz
SV5.0mm
M3
3.5MHz
2.9cm
120
80
40
cm/s
3.6sec

Fig. 1a

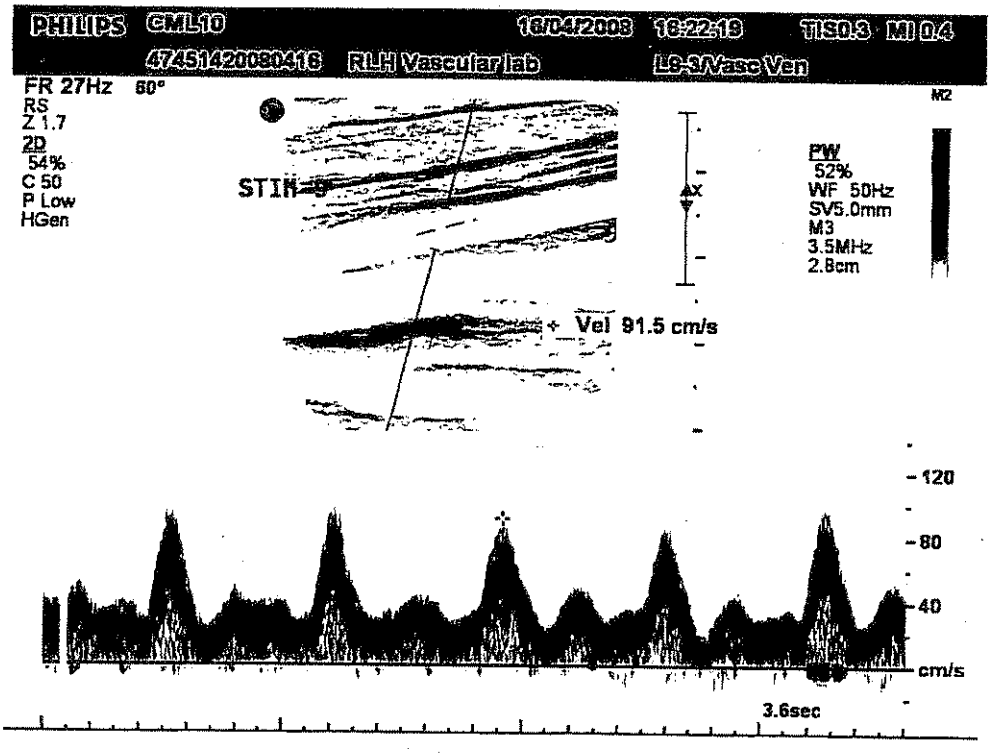

PHILIPS GML10
16/04/2008 16:22:19
TIS0.3 MI 0.4
47451420080416 RLH Vascular lab
L9-3/Vasc Ven
FR 27Hz 60°
RS
Z 1.7
2D
54%
C 50
P Low
HGen
STIM 5
Vel 91.5 cm/s
PW
52%
WF 50Hz
SV5.0mm
M3
3.5MHz
2.8cm
120
80
40
cm/s
3.6sec

Fig. 1b

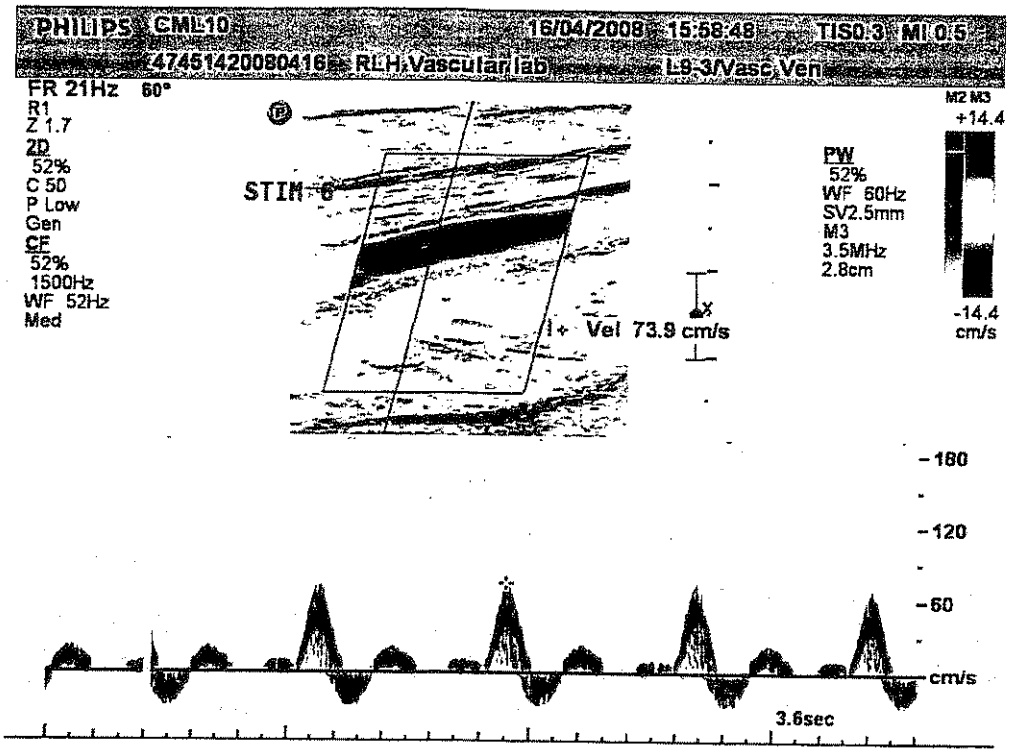

PHILIPS CML10
16/04/2008 15:58:48
TIS0.3 MI 0.5
RLH Vascular lab
L9-3/Vasc Ven
FR 21Hz 60°
R1
Z 1.7
2D
52%
C 50
P Low
Gen
CF
52%
1500Hz
WF 52Hz
Med
STIM 6
Vel 73.9 cm/s
PW
52%
WF 60Hz
SV2.5mm
M3
3.5MHz
2.8cm
M2 M3
+14.4
-14.4
cm/s
180
120
60
cm/s
3.6sec

Fig. 1c

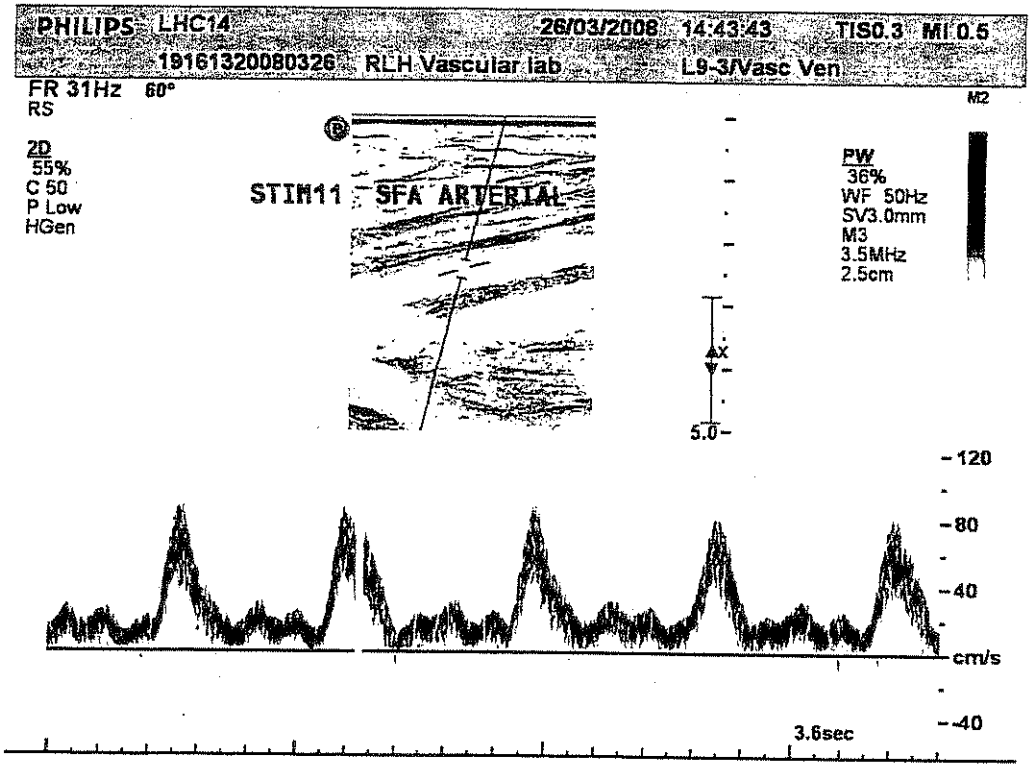

PHILIPS LHC14
26/03/2008 14:43:43
TIS0.3 MI 0.5
1916320080326 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
2D
55%
C 50
P Low
HGen
STIM11 SFA ARTERIAL
PW
36%
WF 50Hz
SV3.0mm
M3
3.5MHz
2.5cm
M2
5.0
120
80
40
cm/s
40
3.6sec

Fig. 2a

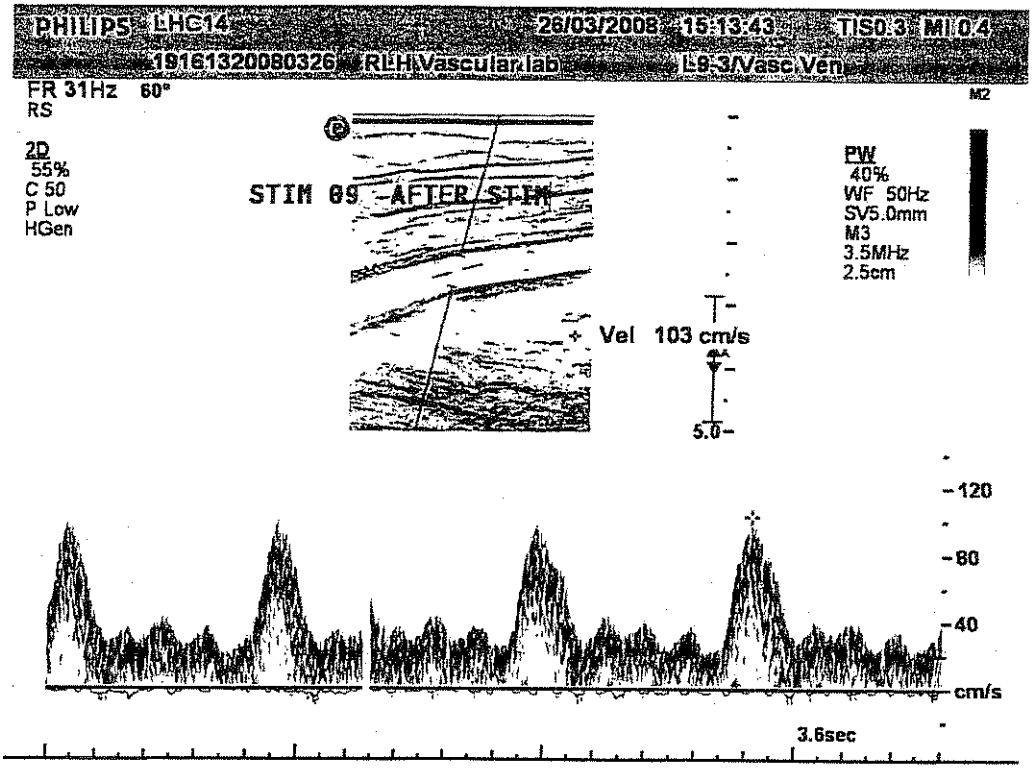

PHILIPS LHC14
26/03/2008 15:13:43
TIS0.3 MI 0.4
19161320080326 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
2D
55%
C 50
P Low
HGen
STIM 09 AFTER STIM
PW
40%
WF 50Hz
SV5.0mm
M3
3.5MHz
2.5cm
Vel 103 cm/s
5.0
120
80
40
cm/s
3.6sec

Fig. 2b

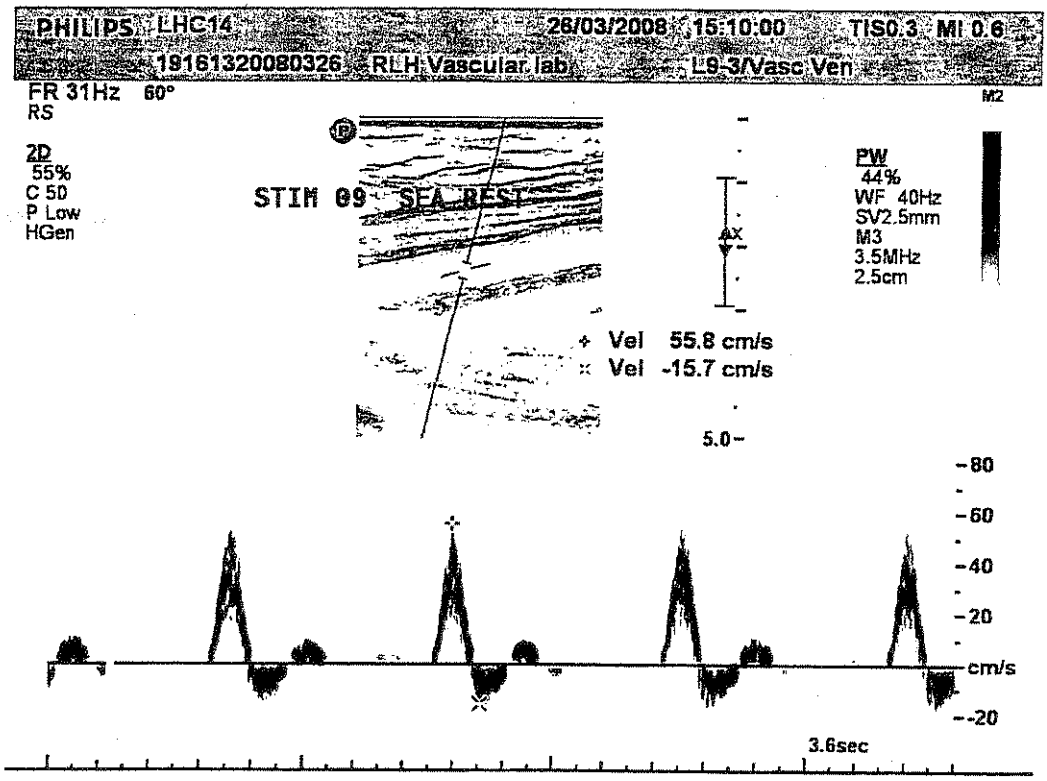

PHILIPS LHC14
26/03/2008 15:10:00
TIS0.3 MI 0.6
19161320080326 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
2D
55%
C 50
P Low
HGen
STIM 09 SFA REST
PW
44%
WF 40Hz
SV2.5mm
M3
3.5MHz
2.5cm
Vel 55.8 cm/s
Vel -15.7 cm/s
5.0
80
60
40
20
cm/s
-20
3.6sec

Fig. 2c

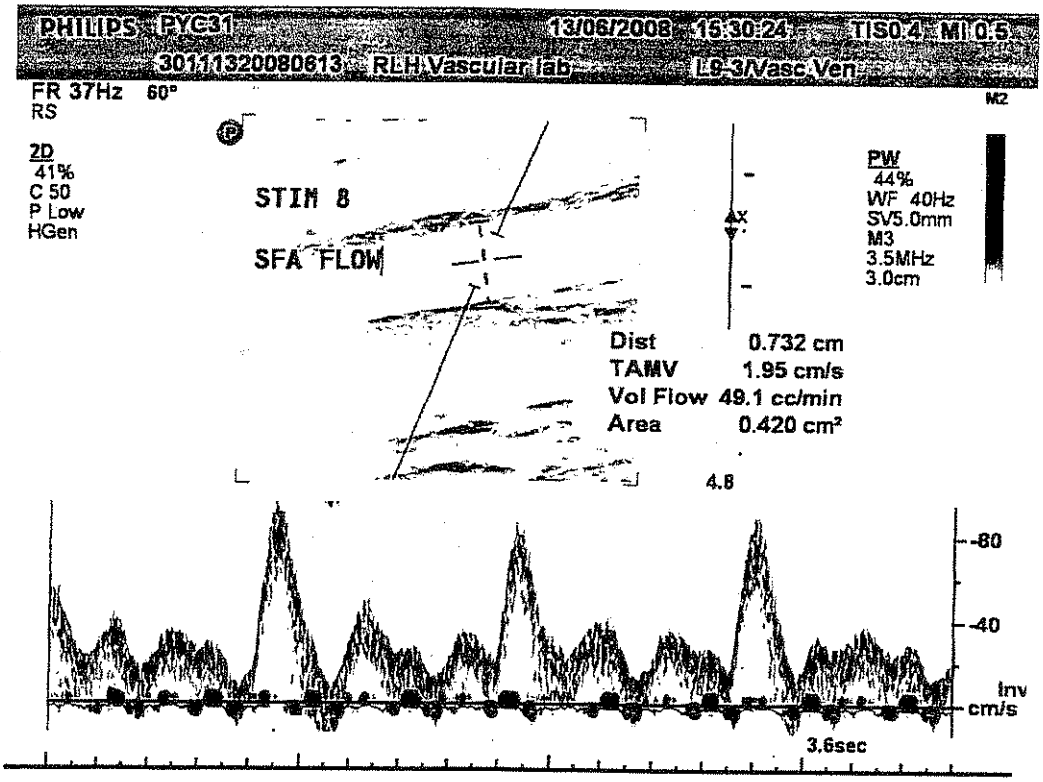

PHILIPS PYC31
13/06/2008 15:30:24
TIS0.4 MI 0.5
3011320080613 RLH Vascular lab
L9-3/Vasc Ven
FR 37Hz 60°
RS
2D
41%
C 50
P Low
HGen
STIM 8
SFA FLOW
PW
44%
WF 40Hz
SV5.0mm
M3
3.5MHz
3.0cm
Dist 0.732 cm
TAMV 1.95 cm/s
Vol Flow 49.1 cc/min
Area 0.420 cm²
4.8
-80
-40
Inv
cm/s
3.6sec

Fig. 3a

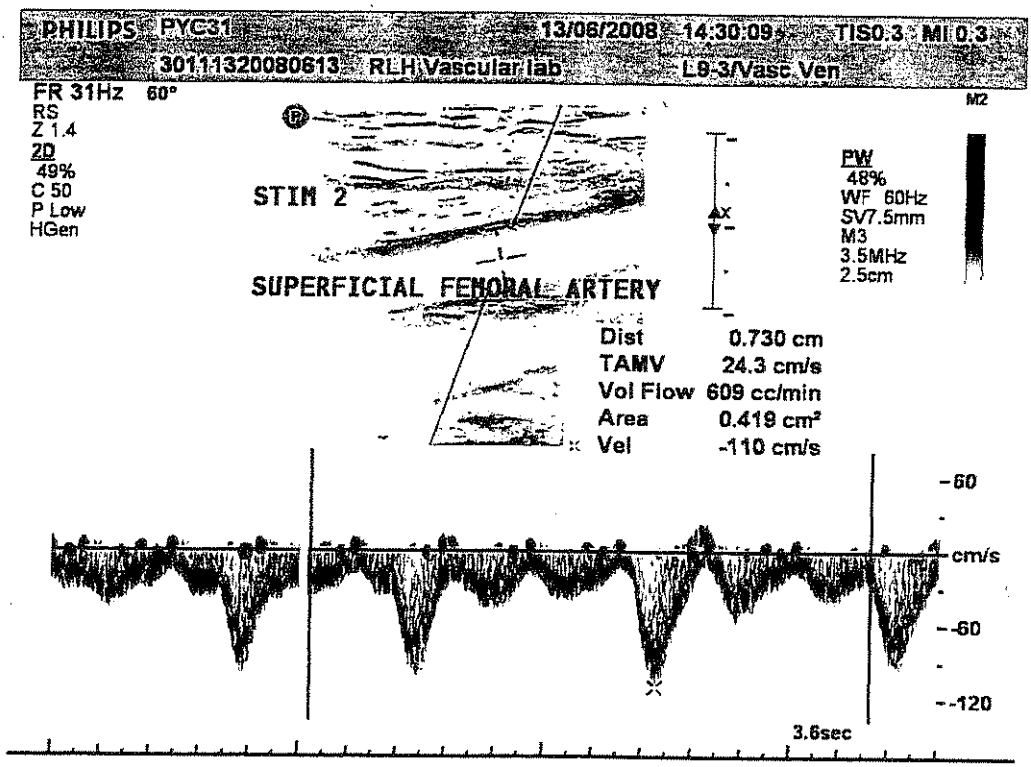

PHILIPS PYC31
13/06/2008 14:30:09
TIS0.3 MI 0.3
3011320080613 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
Z 1.4
2D
49%
C 50
P Low
HGen
STIM 2
SUPERFICIAL FEMORAL ARTERY
PW
48%
WF 60Hz
SV7.5mm
M3
3.5MHz
2.5cm
Dist 0.730 cm
TAMV 24.3 cm/s
Vol Flow 609 cc/min
Area 0.419 cm²
Vel -110 cm/s
-60
cm/s
-60
-120
3.6sec

Fig. 3b

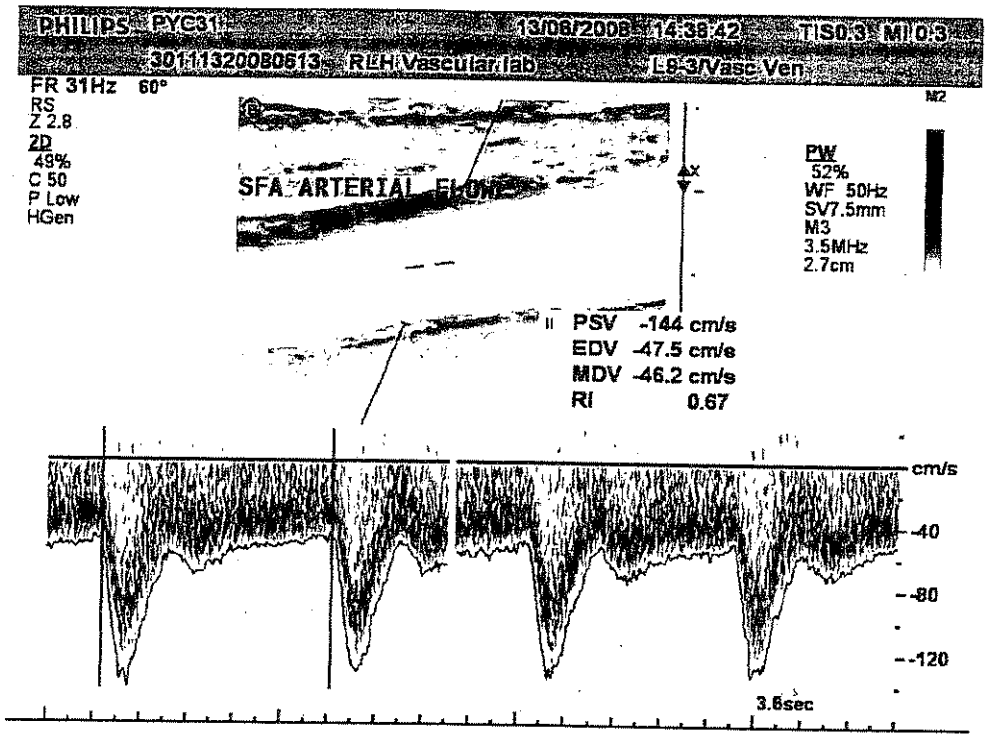

PHILIPS PYC31
13/06/2008 14:38:42
TIS0.3 MI 0.3
3011132008061 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
Z 2.8
2D
49%
C 50
P Low
HGen
SFA ARTERIAL FLOW
PW
52%
WF 50Hz
SV7.5mm
M3
3.5MHz
2.7cm
PSV -144 cm/s
EDV -47.5 cm/s
MDV -46.2 cm/s
RI 0.67
cm/s
-40
--80
--120
3.6sec

Fig. 3c

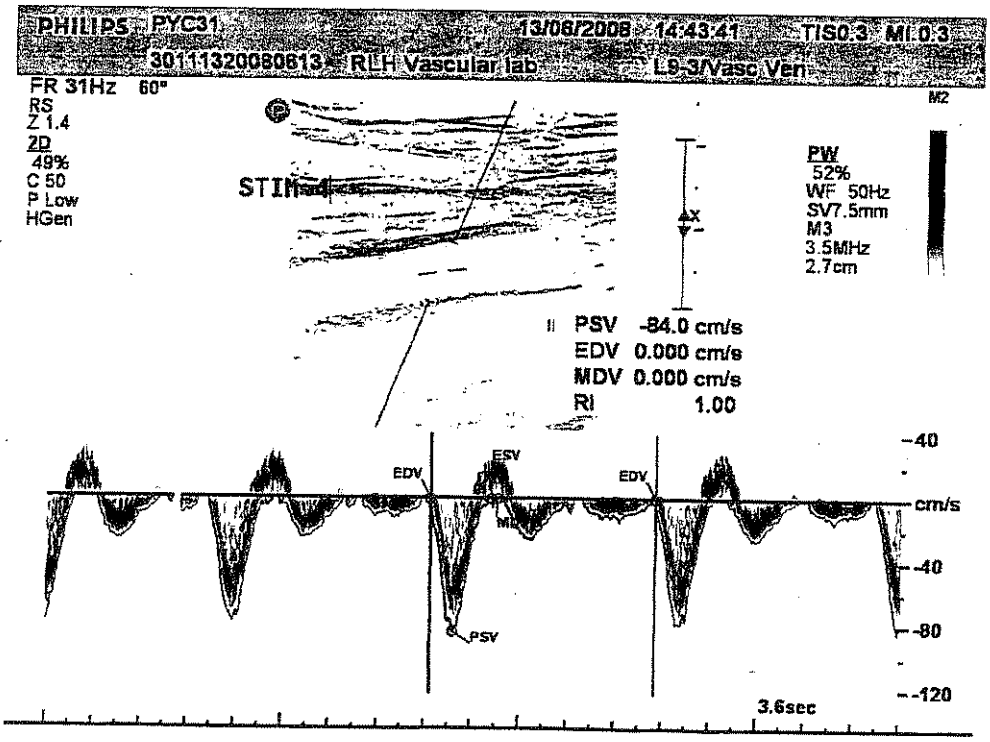

PHILIPS PYC31
13/06/2008 14:43:41
TIS0.3 MI 0.3
3011132008061 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
Z 1.4
2D
49%
C 50
P Low
HGen
STIM
PW
52%
WF 50Hz
SV7.5mm
M3
3.5MHz
2.7cm
PSV -84.0 cm/s
EDV 0.000 cm/s
MDV 0.000 cm/s
RI 1.00
EDV
ESV
EDV
PSV
-40
cm/s
-40
-80
--120
3.6sec

Fig. 3d

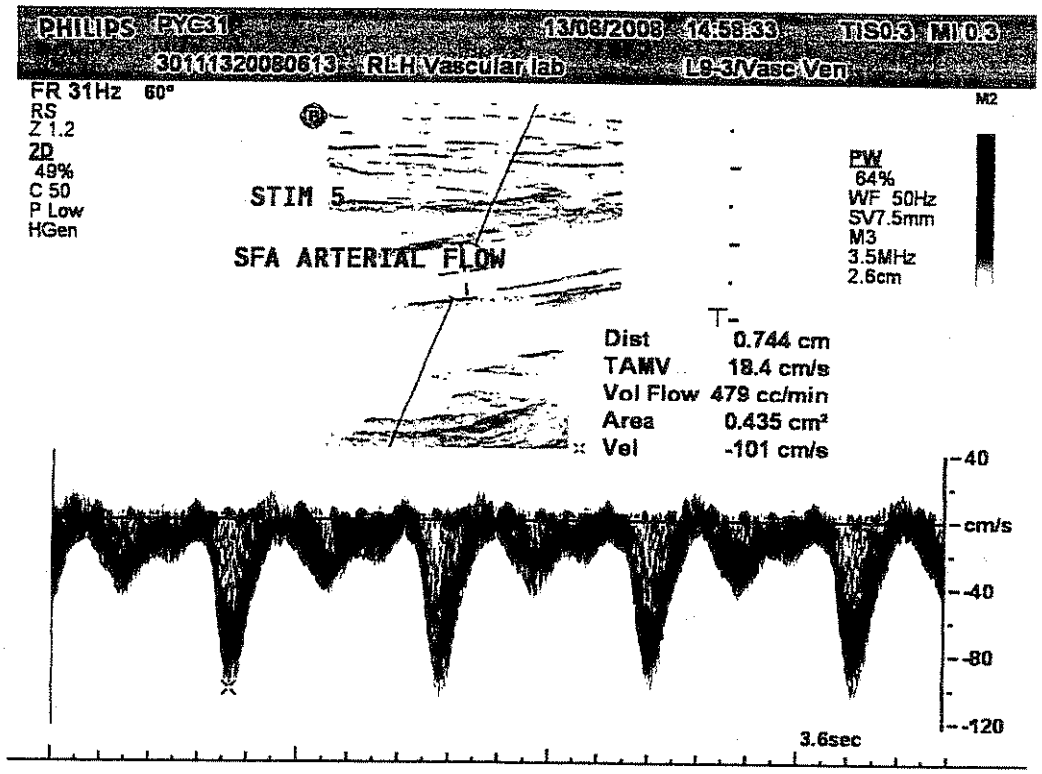

PHILIPS PYC31
13/06/2008 14:58:33
TIS0.3 MI 0.3
3011132008061 3 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
Z 1.2
2D
49%
C 50
P Low
HGen
M2
PW
64%
WF 50Hz
SV7.5mm
M3
3.5MHz
2.6cm
STIM 5
SFA ARTERIAL FLOW
Dist 0.744 cm
TAMV 18.4 cm/s
Vol Flow 479 cc/min
Area 0.435 cm²
Vel -101 cm/s
40
cm/s
-40
-80
-120
3.6sec

Fig. 3e

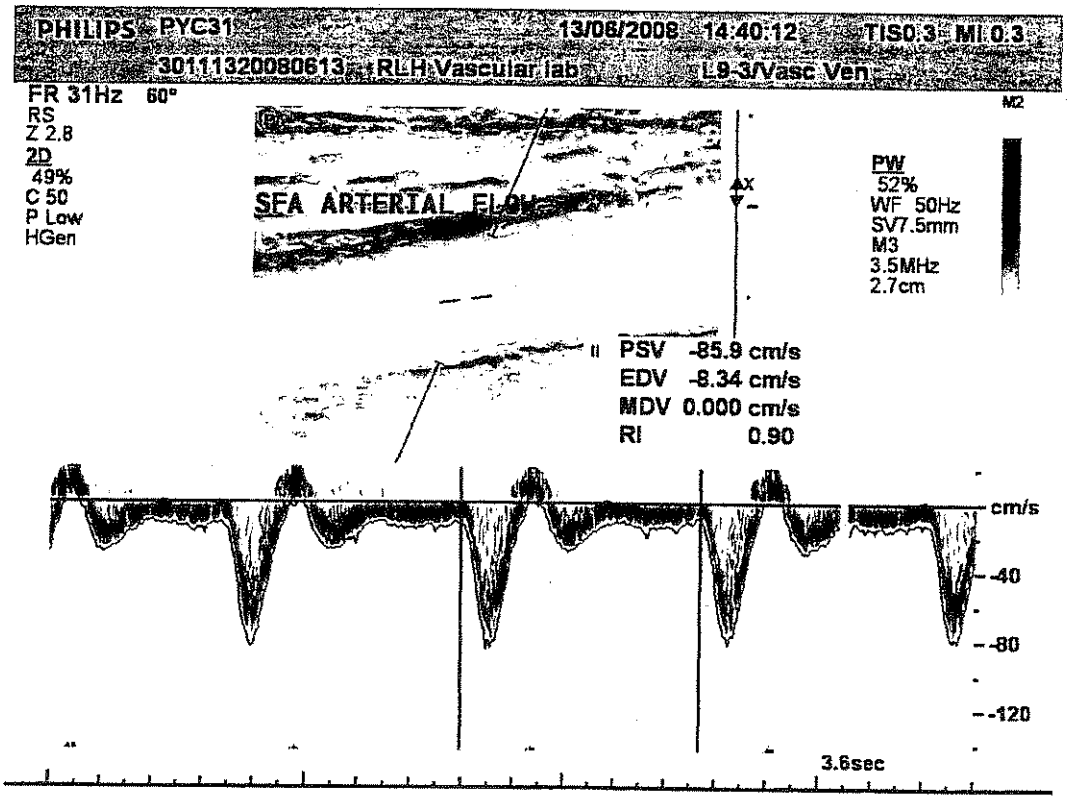

PHILIPS PYC31
13/06/2008 14:40:12
TIS0.3 MI 0.3
3011132008061 3 RLH Vascular lab
L9-3/Vasc Ven
FR 31Hz 60°
RS
Z 2.8
2D
49%
C 50
P Low
HGen
M2
PW
52%
WF 50Hz
SV7.5mm
M3
3.5MHz
2.7cm
SFA ARTERIAL FLOW
PSV -85.9 cm/s
EDV -8.34 cm/s
MDV 0.000 cm/s
RI 0.90
cm/s
-40
-80
-120
3.6sec

Fig. 3f

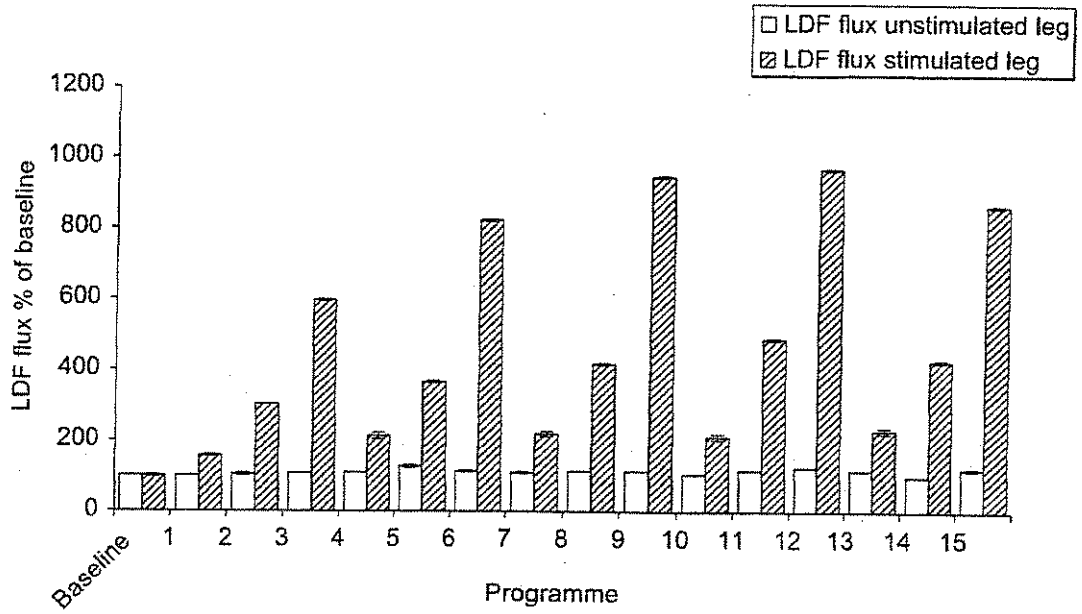

LDF flux unstimulated leg
LDF flux stimulated leg
LDF flux % of baseline
1200
1000
800
600
400
200
0
Baseline
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Programme

Fig. 4

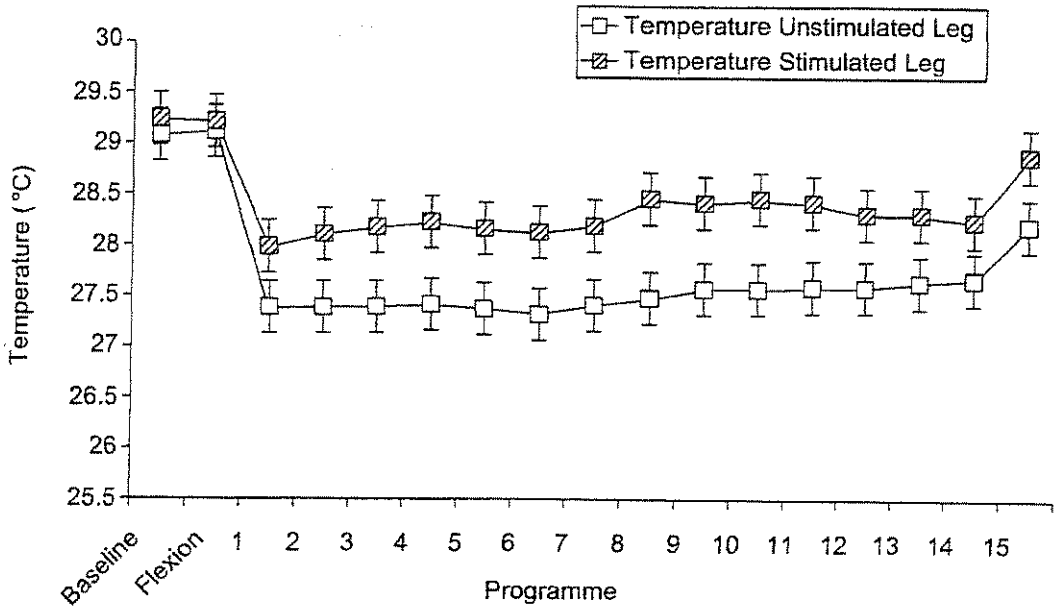

Temperature Unstimulated Leg
Temperature Stimulated Leg
Temperature (°C)
30
29.5
29
28.5
28
27.5
27
26.5
26
25.5
Baseline
Flexion
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Programme

Fig. 5

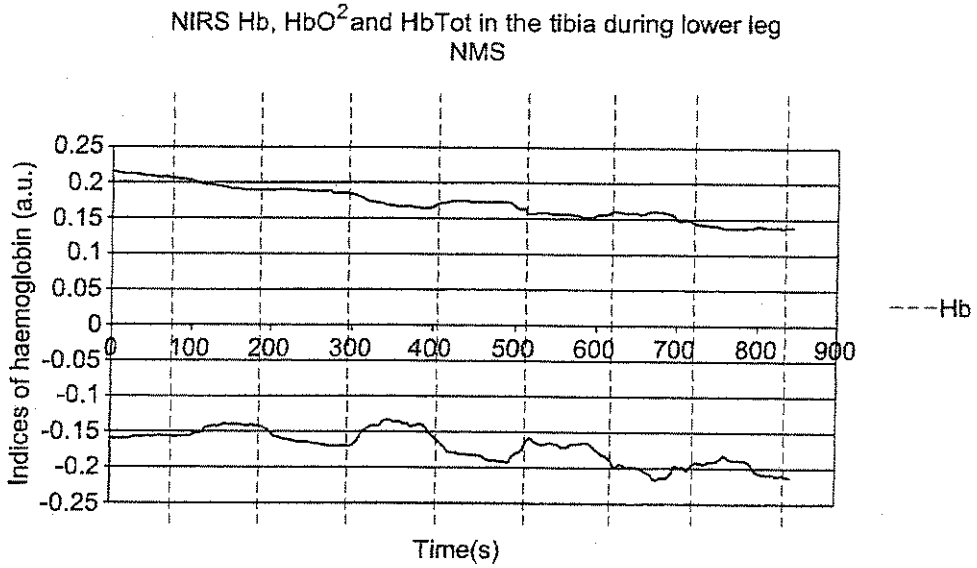

NIRS Hb, HbO2and HbTot in the tibia during lower leg NMS
Indices of haemoglobin (a.u.)
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
0
100
200
300
400
500
600
700
800
900
Time(s)
Hb

Fig. 6

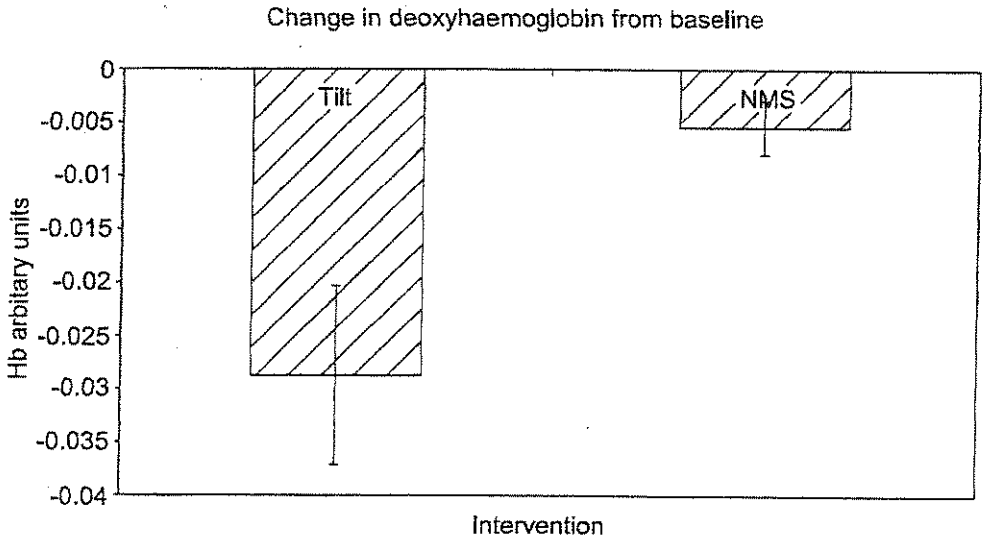

Change in deoxyhaemoglobin from baseline
Hb arbitary units
0
-0.005
-0.01
-0.015
-0.02
-0.025
-0.03
-0.035
-0.04
Tilt
NMS
Intervention

Fig. 7

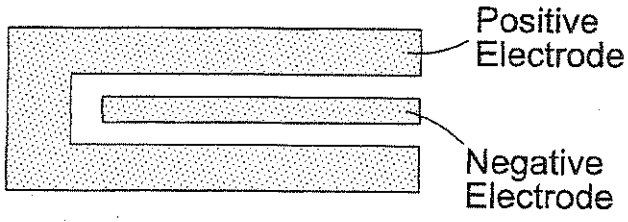

Positive
Electrode
Negative
Electrode

Fig. 8

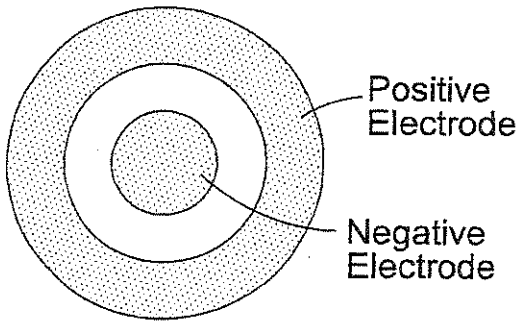

Positive
Electrode
Negative
Electrode

Fig. 9

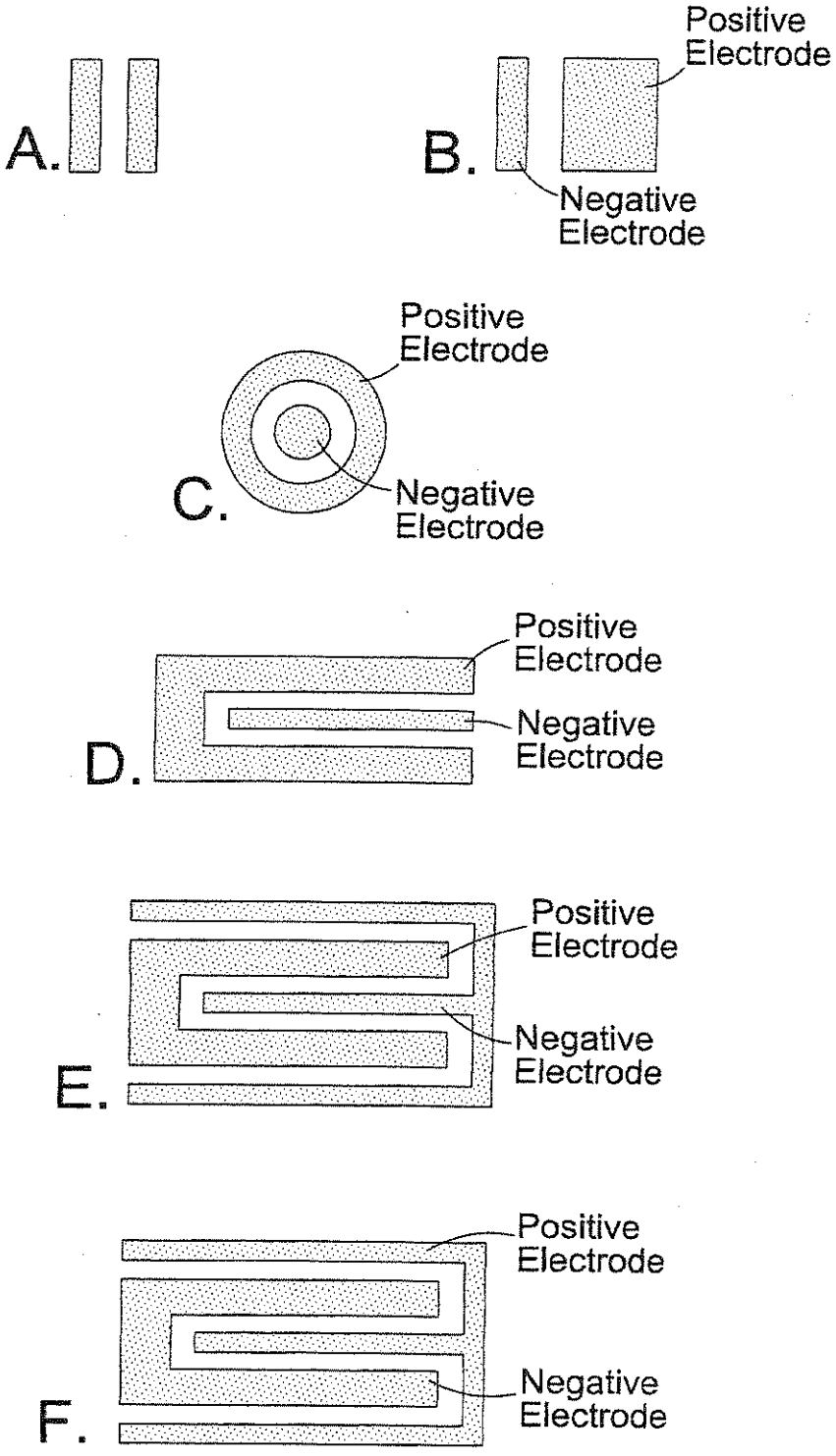

A.
B.
Positive Electrode
Negative Electrode
C.
Positive Electrode
Negative Electrode
D.
Positive Electrode
Negative Electrode
E.
Positive Electrode
Negative Electrode
F.
Positive Electrode
Negative Electrode

Fig. 10

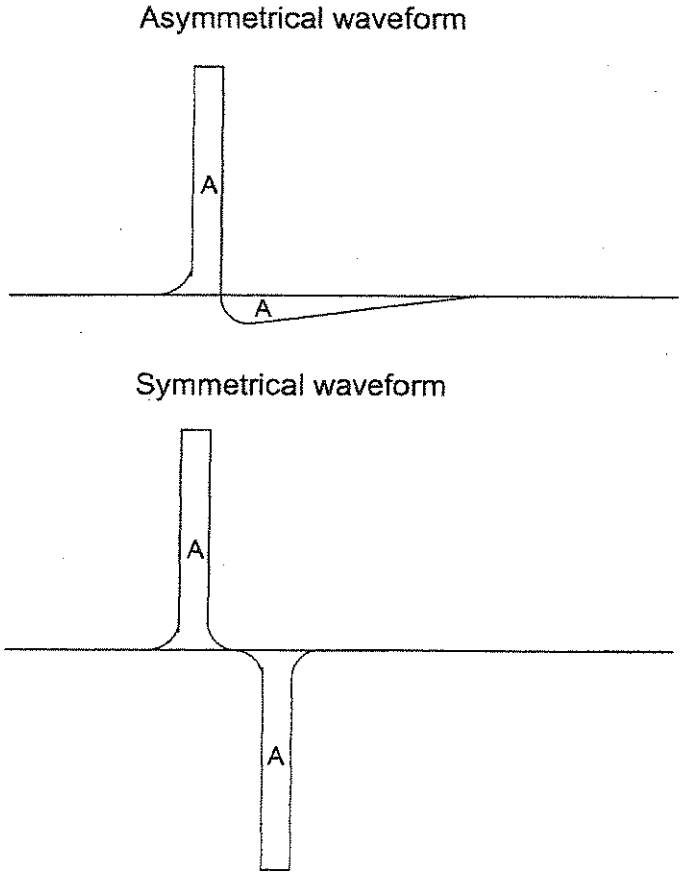


Fig. 11

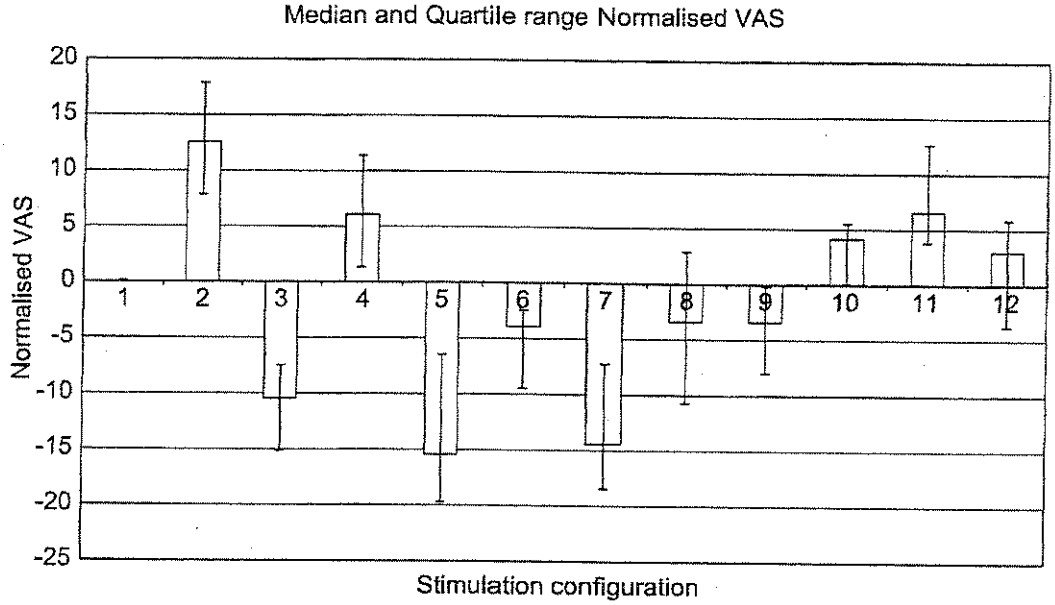

Median and Quartile range Normalised VAS
Normalised VAS
20
15
10
5
0
-5
-10
-15
-20
-25
1
2
3
4
5
6
7
8
9
10
11
12
Stimulation configuration

Fig. 12

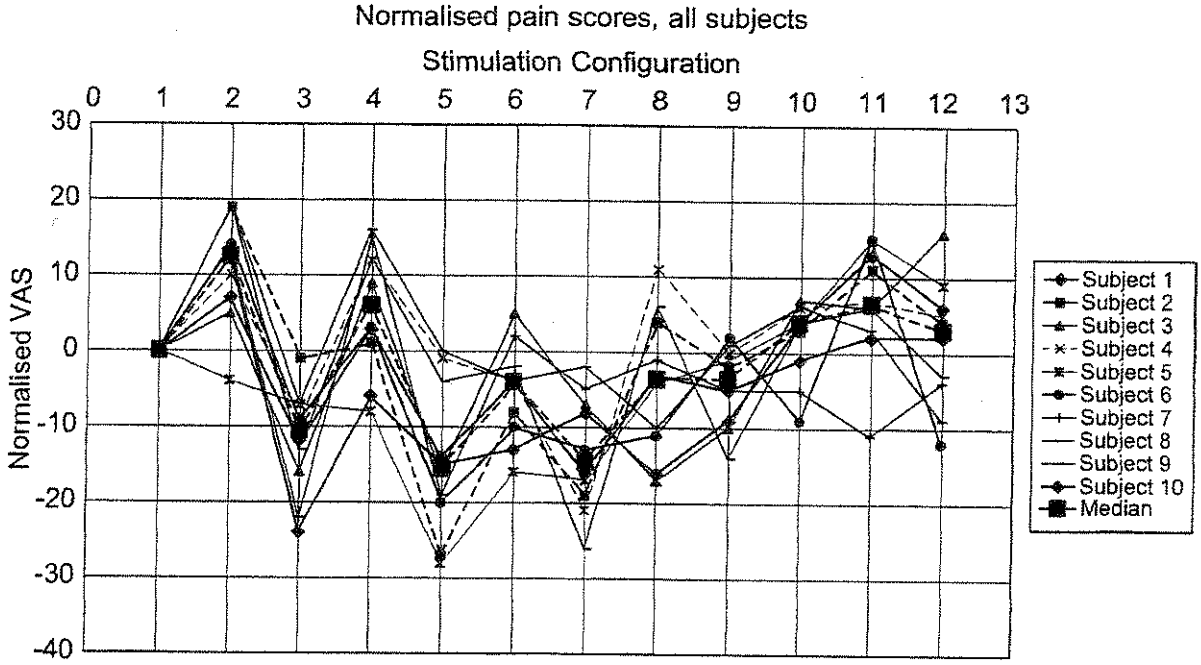

Normalised pain scores, all subjects
Stimulation Configuration
Normalised VAS
0
1
2
3
4
5
6
7
8
9
10
11
12
13
30
20
10
0
-10
-20
-30
-40
Subject 1
Subject 2
Subject 3
Subject 4
Subject 5
Subject 6
Subject 7
Subject 8
Subject 9
Subject 10
Median

Fig. 13

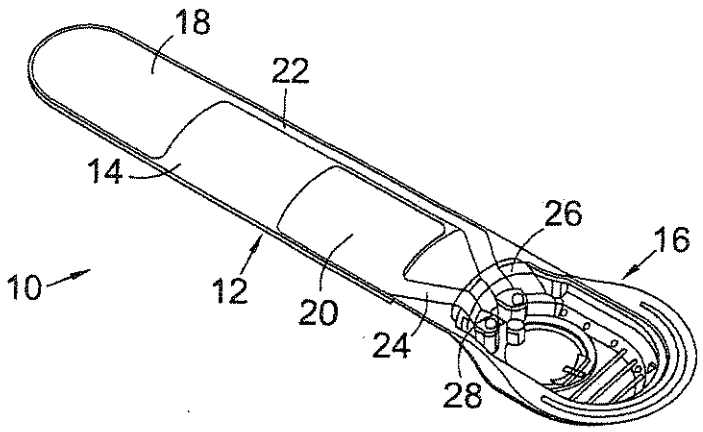


Fig. 14

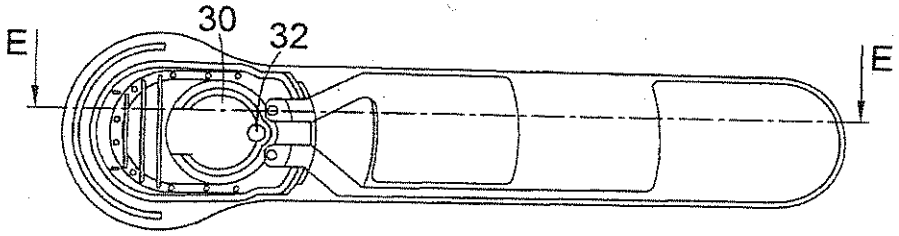


Fig. 15

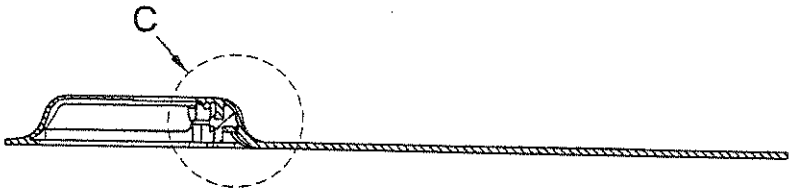
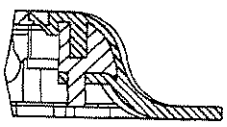


Fig. 16



SECTION E-E

Fig. 17