Prova pratica 1

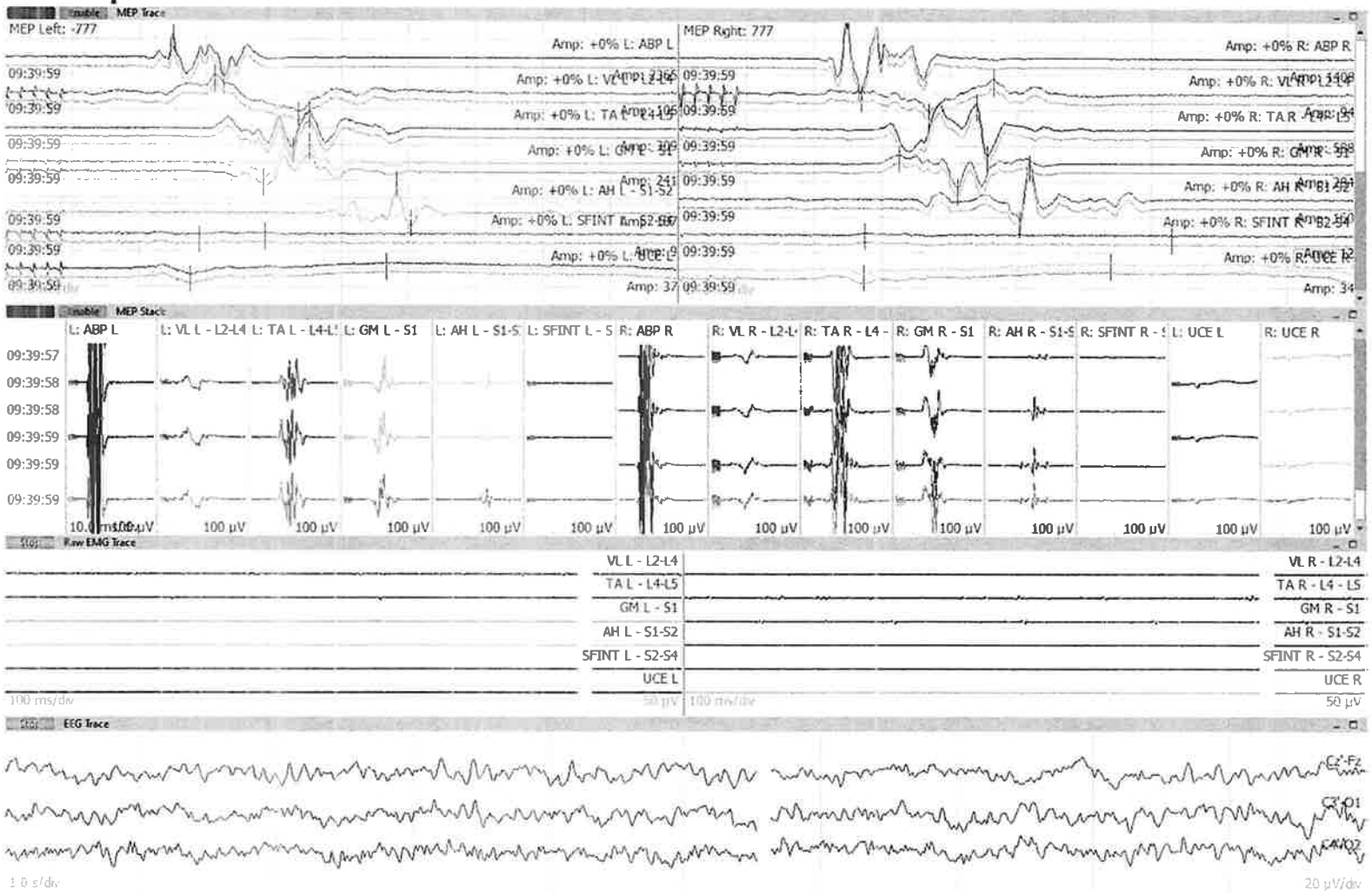
IOM: siringomielia

RNS e SfEMG

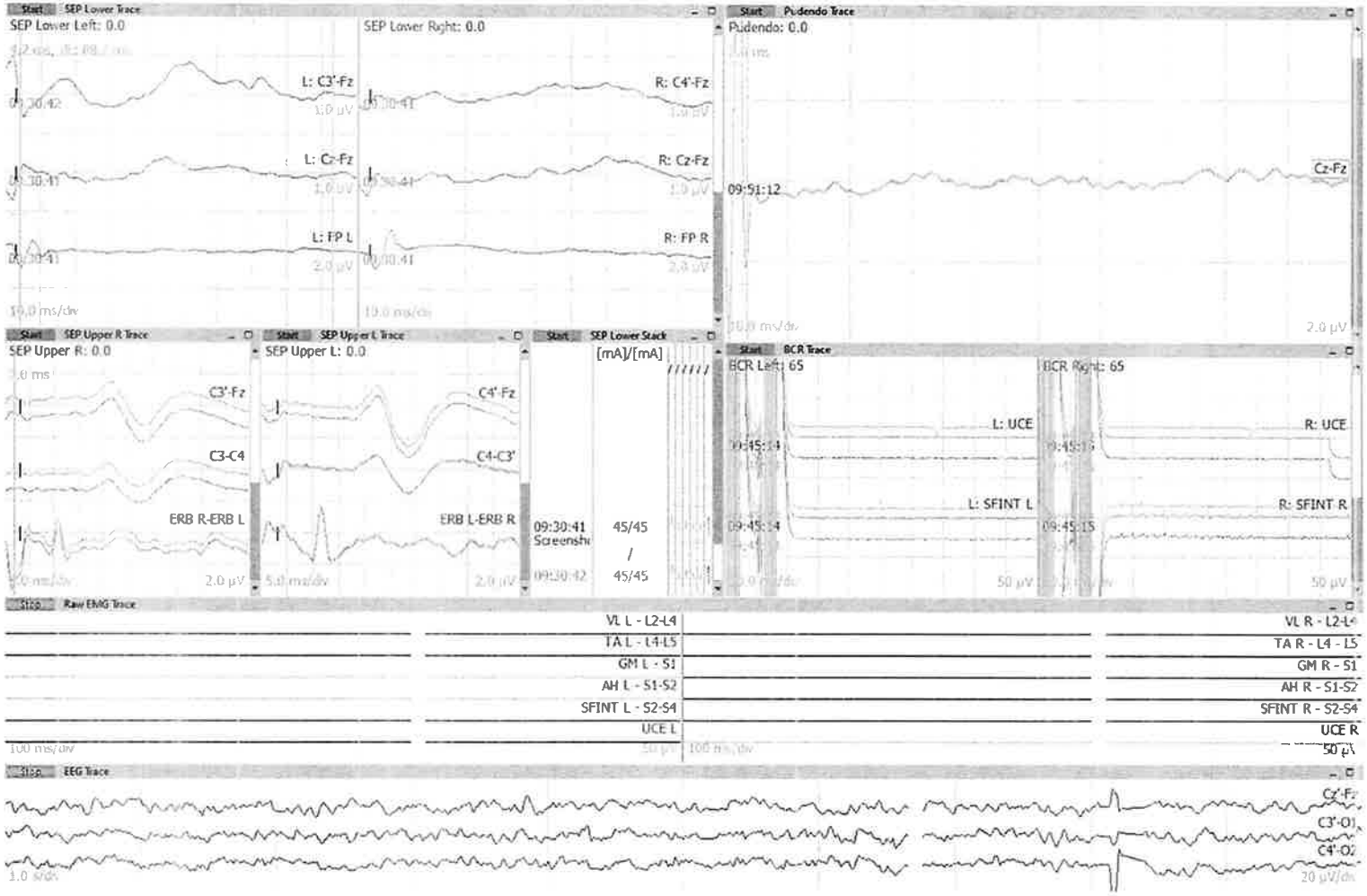
LEP

Siringomielia dorsale

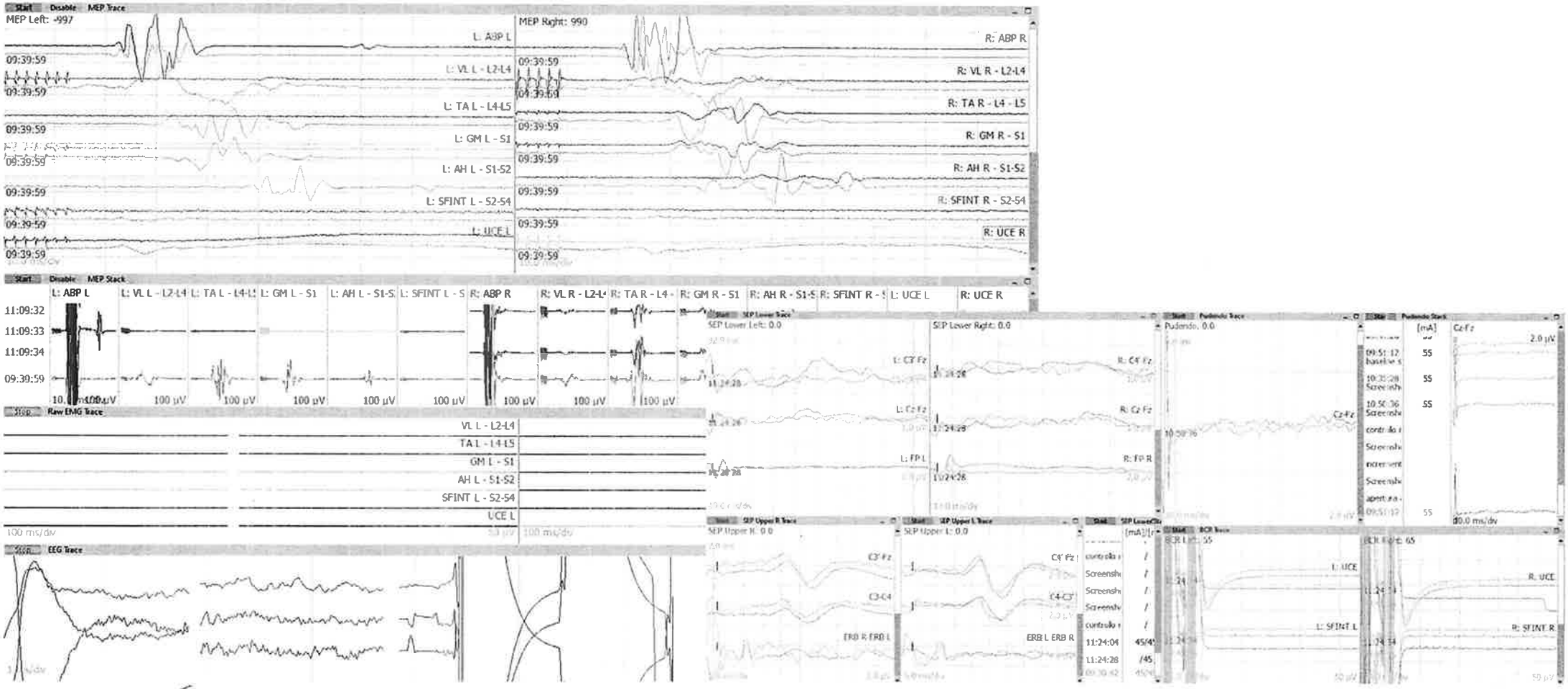
MEP apertura

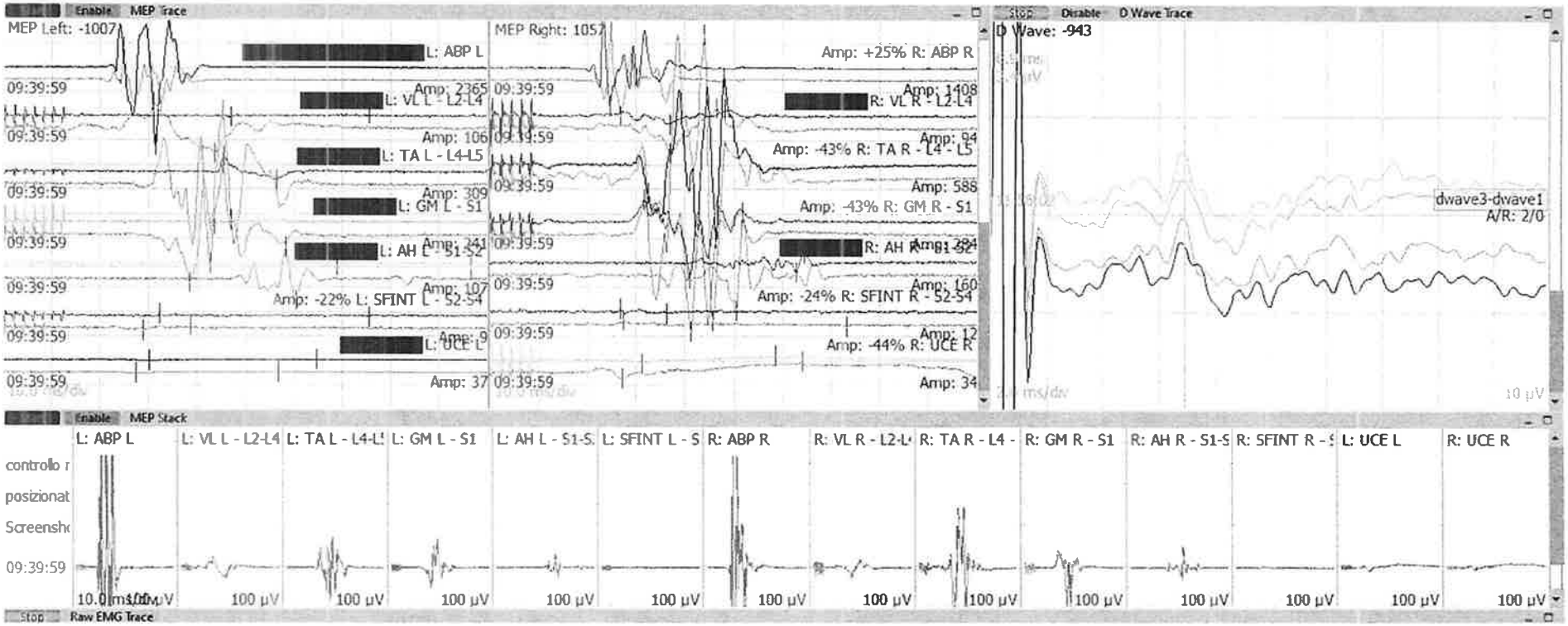


SEP e BCR apertura

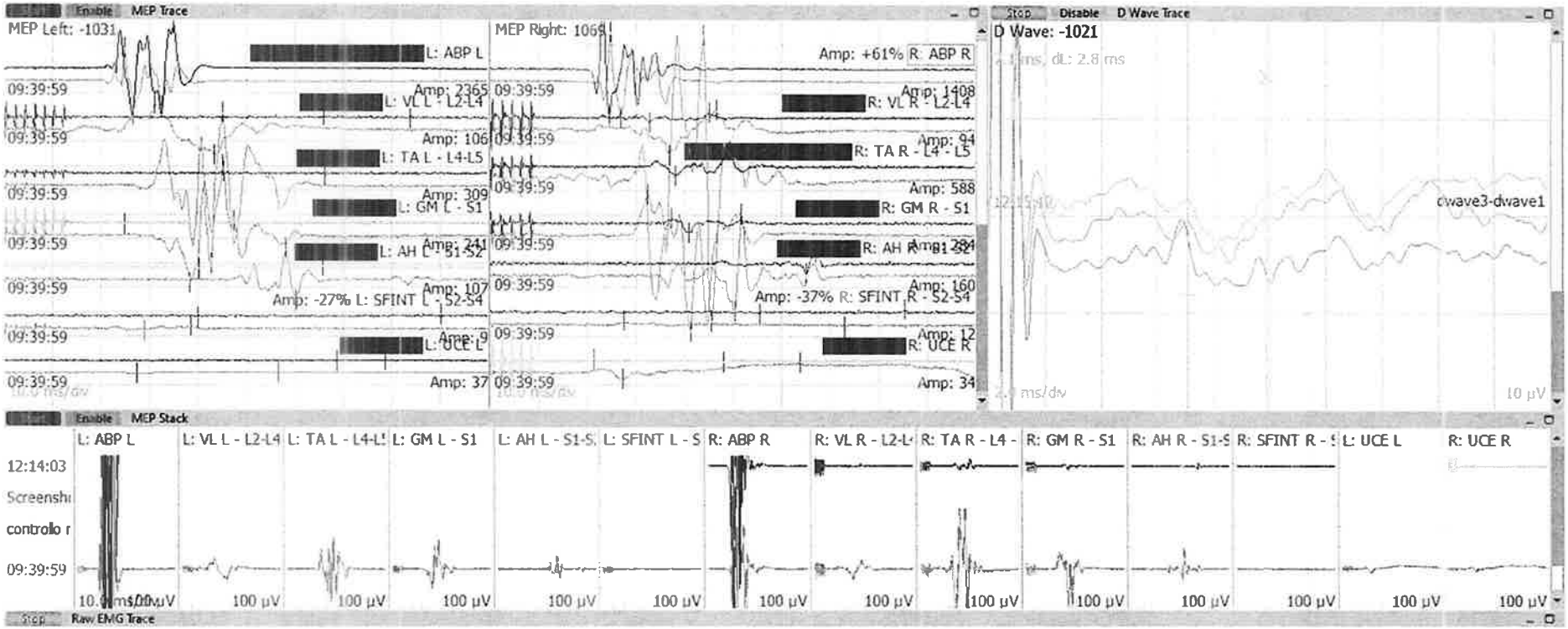


Controllo MEP apertura dura

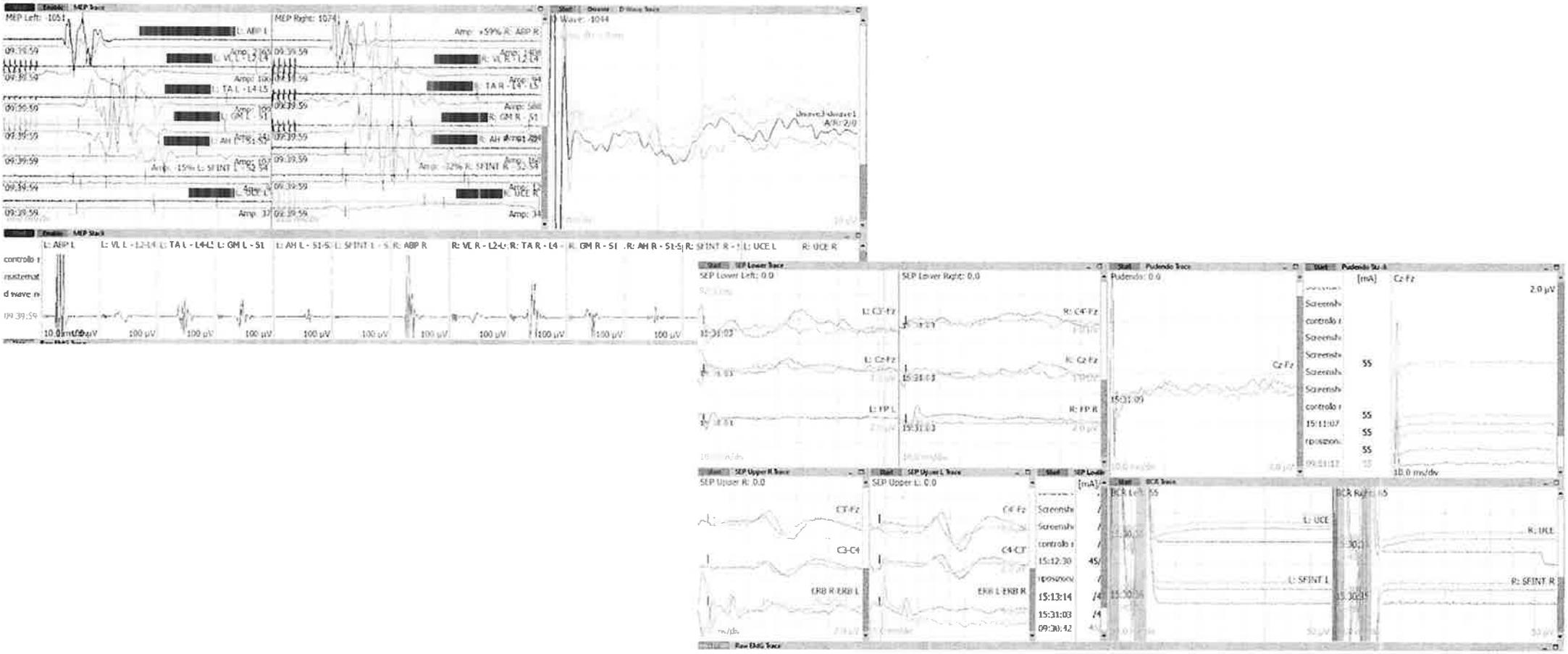


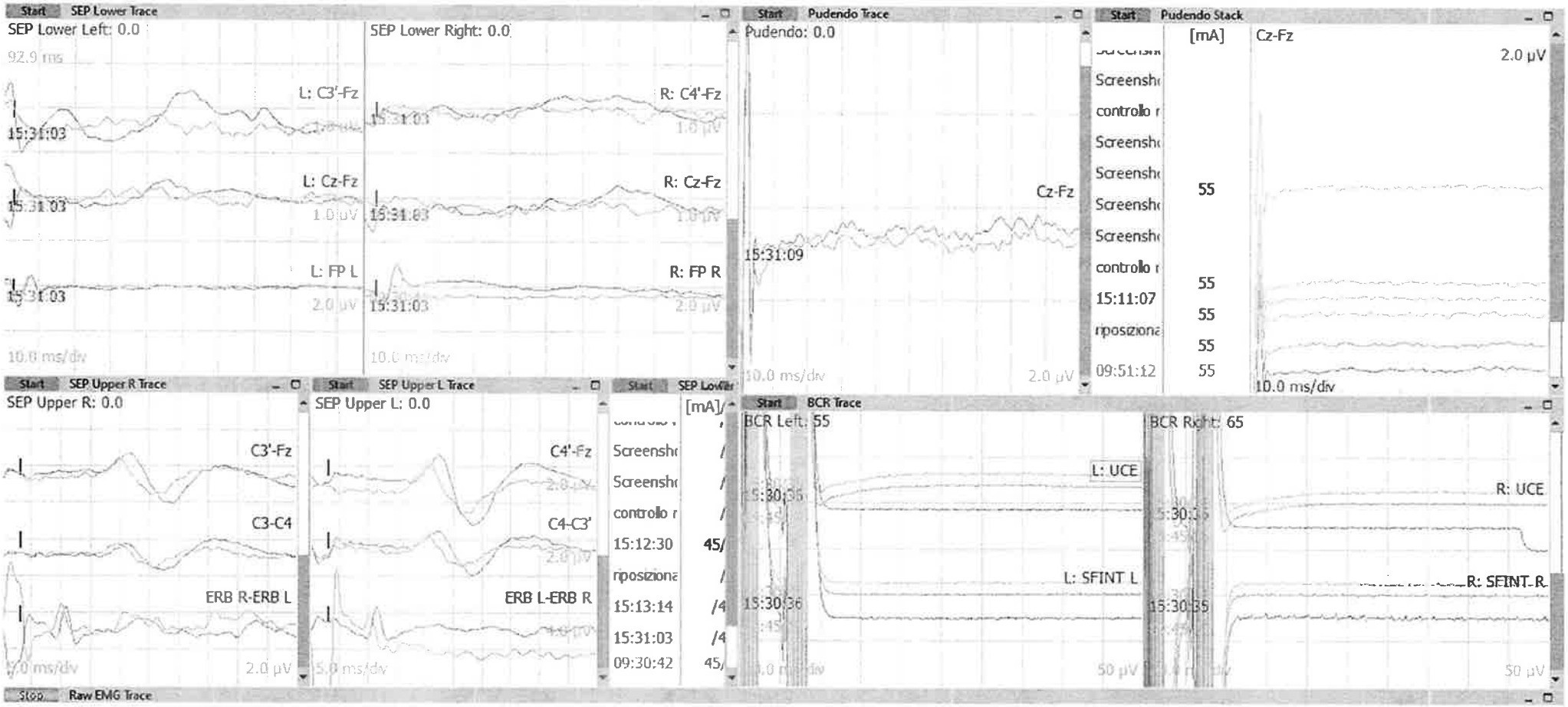

Enable MEP Trace
MEP Left: -1007
L: ABP L
Amp: 2365
L: VL L - L2-L4
Amp: 106
L: TA L - L4-L5
Amp: 309
L: GM L - S1
L: AH L - S1-S2
Amp: -22% L: SFINT L - S2-S4
L: UCE L
MEP Right: 1057
Amp: +25% R: ABP R
Amp: 1408
R: VL R - L2-L4
Amp: -43% R: TA R - L4 - L5
Amp: 588
Amp: -43% R: GM R - S1
R: AH R - S1-S2
Amp: -24% R: SFINT R - S2-S4
Amp: -44% R: UCE R
09:39:59
Stop Disable D Wave Trace
D Wave: -943
dwave3-dwave1
A/R: 2/0
10 µV
Enable MEP Stack
L: ABP L
L: VL L - L2-L4
L: TA L - L4-L5
L: GM L - S1
L: AH L - S1-S2
L: SFINT L - S
R: ABP R
R: VL R - L2-L4
R: TA R - L4 -
R: GM R - S1
R: AH R - S1-S2
R: SFINT R - S
L: UCE L
R: UCE R
100 µV
Stop Raw EMG Trace

MEP e Dwave


Enable MEP Trace
MEP Left: -1031
MEP Right: 1069
L: ABP L
Amp: +61% R: ABP R
09:39:59
Amp: 2365 L: VL L - L2-L4
Amp: 1408 R: VL R - L2-L4
Amp: 106 L: TA L - L4-L5
Amp: 94 R: TA R - L4 - L5
Amp: 309 L: GM L - S1
Amp: 588 R: GM R - S1
Amp: 241 L: AH L - S1-S2
Amp: 284 R: AH R - S1-S2
Amp: 107 Amp: -27% L: SFINT L - S2-S4
Amp: 160 Amp: -37% R: SFINT R - S2-S4
Amp: 9 L: UCE L
Amp: 12 R: UCE R
Amp: 37
Amp: 34
Stop Disable D Wave Trace
D Wave: -1021
dwave3-dwave1
ms/div
10 µV
Enable MEP Stack
L: ABP L
L: VL L - L2-L4
L: TA L - L4-L5
L: GM L - S1
L: AH L - S1-S2
L: SFINT L - S
R: ABP R
R: VL R - L2-L4
R: TA R - L4 -
R: GM R - S1
R: AH R - S1-S
R: SFINT R - S
L: UCE L
R: UCE R
12:14:03
Screenshi
controllo r
09:39:59
100 µV
Stop Raw EMG Trace

MEP, SEP, D wave chiusura



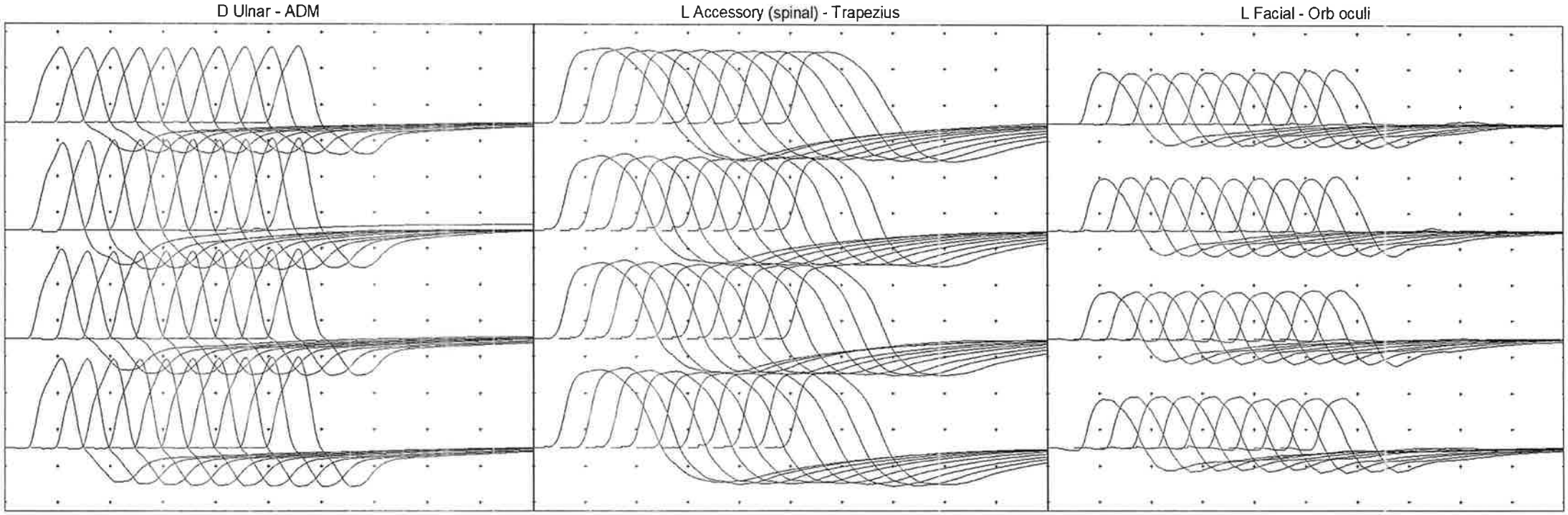

Start SEP Lower Trace
SEP Lower Left: 0.0
92.9 ms
L: C3'-Fz
15:31:03
L: Cz-Fz
15:31:03
1.0 µV
L: FP L
15:31:03
2.0 µV
10.0 ms/div
SEP Lower Right: 0.0
R: C4'-Fz
15:31:03
1.0 µV
R: Cz-Fz
15:31:03
R: FP R
15:31:03
2.0 µV
Start Pudendo Trace
Pudendo: 0.0
Cz-Fz
15:31:09
10.0 ms/div
2.0 µV
Start Pudendo Stack
[mA]
Cz-Fz
2.0 µV
Screensh
controllo r
Screensh
Screensh
Screensh
Screensh
controllo r
15:11:07
riposiziona
09:51:12
55
55
55
55
55
10.0 ms/div
Start SEP Upper R Trace
SEP Upper R: 0.0
C3'-Fz
C3-C4
ERB R-ERB L
2.0 µV
Start SEP Upper L Trace
SEP Upper L: 0.0
C4'-Fz
C4-C3'
ERB L-ERB R
Start SEP Lower
[mA]
Screensh
Screensh
controllo r
15:12:30
riposiziona
15:13:14
15:31:03
09:30:42
45/
/4
/4
45/
Start BCR Trace
BCR Left: 55
L: UCE
L: SFINT L
15:30:36
50 µV
BCR Right: 65
R: UCE
R: SFINT R
15:30:35
50 µV
Stop Raw EMG Trace

Commento

RNS

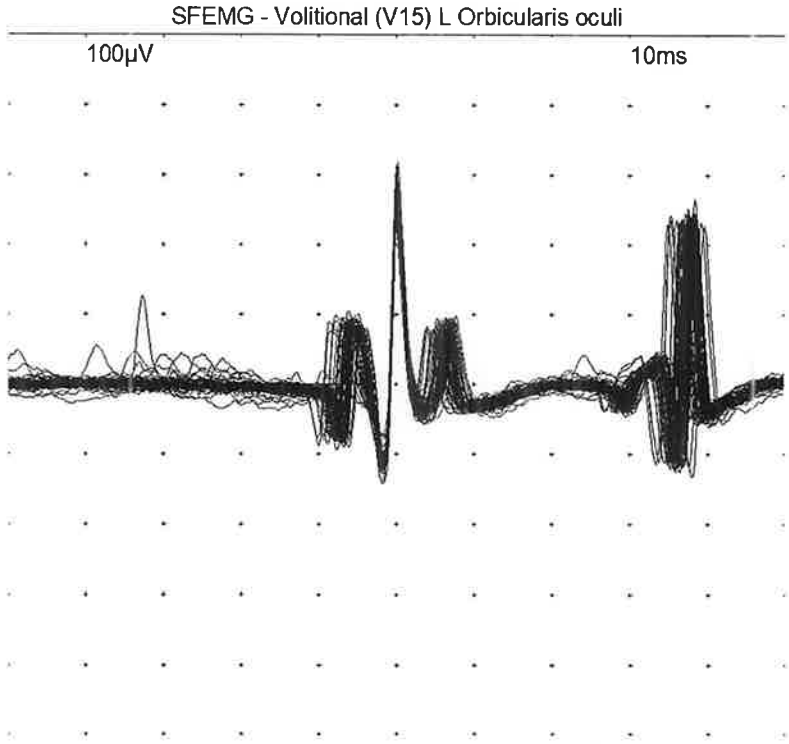
Anatomia / Treno	Rate	Ampl.	Ampl 4-1	Fac Ampl	Area	Area 4-1	Fac Area
	Hz	mV	%	%	mVms	%	%
D Ulnar - ADM							
Baseline	3	10,4	-0,8	100	32,2	-5	100
Post Exercise @0:00	3	12,1	3,8	117	34,8	-4,6	108
@1:00	3	12,3	-1,9	119	37,2	-6	115
@2:00	3	12,2	-0,5	118	37,2	-5,8	116
L Accessory (spinal) - Trapezius							
Baseline	3	10,1	-2,4	100	83,9	-10,9	100
Post Exercise @0:00	3	10,0	-1,7	99	71,6	-5	85,3
@1:00	3	10,2	-2,3	102	75,4	-6	89,9
@2:00	3	10,3	-2,1	102	78,9	-7,7	94
L Facial - Orb oculi							
Baseline	3	2,9	-1,7	100	11,3	-1,3	100
Post Exercise @0:00	3	3,0	1,3	103	10,7	-1,8	94,4
@1:00	3	2,7	2,7	93,2	10,8	-1,6	95
@2:00	3	2,8	2,9	97,6	10,9	6,1	95,8

Normale o patologica?



SfEMG con CNE: normale o patologica?

Muscolo		N	Jitter	MIPI	MCD	MSD	Block	FR
			µs	µs	µs	µs		Hz
L Orbicularis oculi	N. coppie	24						
	% bloccato						4	
	Media		46	1214	47	53	-	27
	Mediana		38	1047	38	46	-	28
	1.1 Coppia	99	38	957	38	39	-	21
	2.1 Coppia	64	19	675	19	40	-	29
	2.2 Coppia	77	39	1093	44	39	-	29
	3.1 Coppia	106	24	569	24	40	-	30
	3.2 Coppia	106	37	1077	37	50	-	30
	4.1 Coppia	113	45	1017	46	45	-	25
	5.1 Coppia	130	46	316	46	47	-	30
	6.1 Coppia	143	44	938	45	44	-	26
	7.1 Coppia	62	35	2251	35	64	-	23
	8.1 Coppia	109	18	590	18	22	-	25
	9.1 Coppia	51	32	1720	32	56	-	31
	10.1 Coppia	82	26	1277	26	37	-	32
	13.1 Coppia	126	63	1280	63	75	-	17
	14.1 Coppia	92	25	354	25	26	-	20
	16.1 Coppia	128	119	1271	123	119	-	33
	18.1 Coppia	62	36	243	36	44	-	16
	18.2 Coppia	57	45	1129	45	49	-	16
	19.1 Coppia	48	18	1136	18	24	-	40
	22.1 Coppia	87	101	1485	111	101	-	42
	23.1 Coppia	50	19	690	19	19	-	25
	25.1 Coppia	72	48	803	51	48	-	27
	26.1 Coppia	124	29	3942	29	55	-	25
	28.1 Coppia	57	101	3722	107	101	-	36

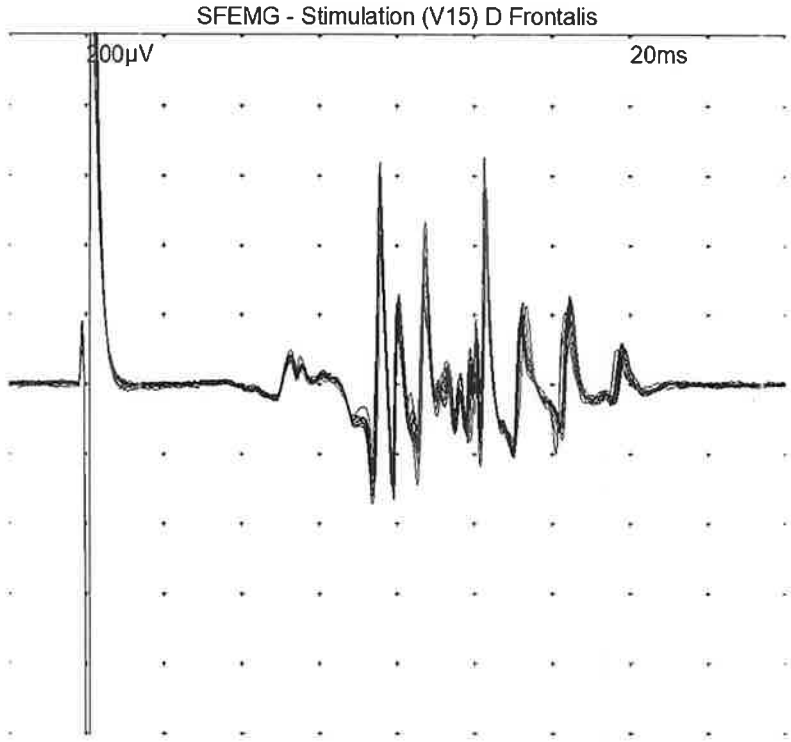


Argomentare

- RNS normale o patologica
- SfEMG normale o patologica
- Nella figura quante coppie potete considerare

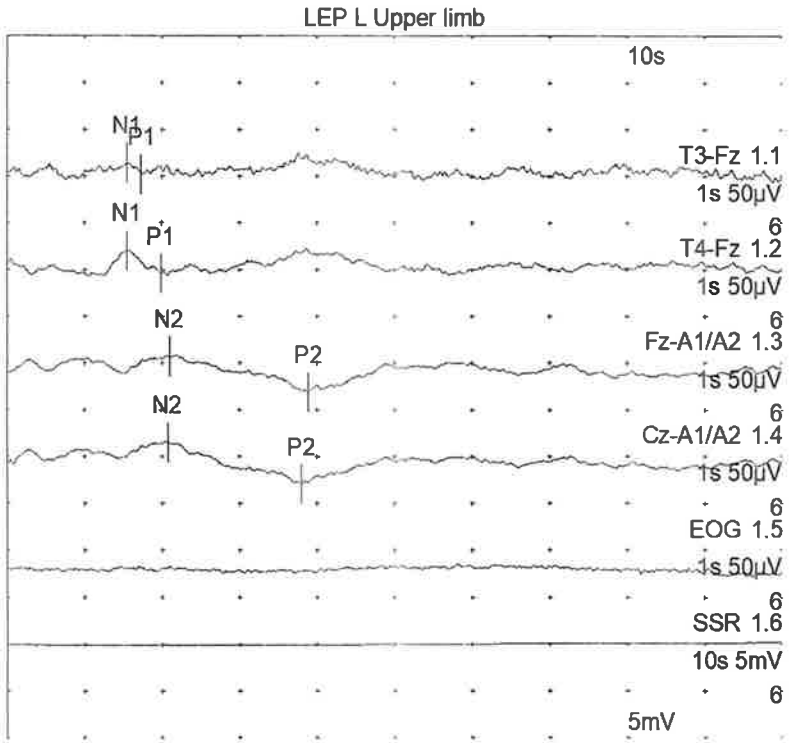
SfEMG volontaria o stimolata?

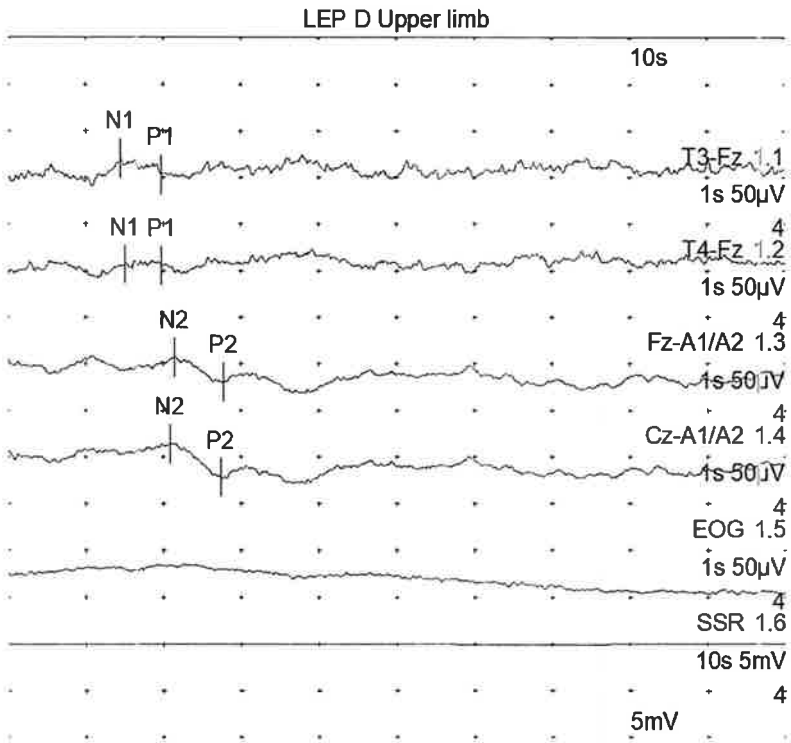
Muscolo		N	Jitter	MIPI	MCD	MSD	Block	FR
			µs	µs	µs	µs		Hz
D Frontalis	N. coppie	20						
	% bloccato						0	
	Media		22	7832	22	27	-	10
	Mediana		22	7546	22	24	-	10
	3.1 Coppia	33	23	5229	23	34	-	10
	4.1 Coppia	32	23	7512	23	25	-	10
	6.1 Coppia	41	19	9788	19	21	-	10
	8.1 Coppia	22	22	8282	22	22	-	10
	10.1 Coppia	23	16	8574	16	23	-	10
	11.1 Coppia	11	23	7552	23	23	-	10
	12.1 Coppia	19	20	7525	20	33	-	10
	14.1 Coppia	22	32	8644	32	35	-	10
	15.1 Coppia	19	17	5642	17	17	-	10
	15.2 Coppia	15	17	12736	17	17	-	10
	16.1 Coppia	17	11	6593	11	16	-	10
	16.2 Coppia	11	27	5573	27	27	-	10
	17.1 Coppia	12	14	5532	14	14	-	10
	18.1 Coppia	150	22	5519	22	49	-	10
	18.2 Coppia	65	36	6840	36	36	-	10
	18.3 Coppia	60	38	7807	38	38	-	10
	19.1 Coppia	95	25	13031	25	48	-	10
	20.1 Coppia	13	15	7540	15	15	-	10
	20.2 Coppia	84	16	8018	16	16	-	10
	20.3 Coppia	17	26	8707	26	26	-	10



Refertazione

LEP dorso mano





Referto LEP

PROVA PRATICA ESTRATTA

EDOARDO FINO

Prova pratica 2

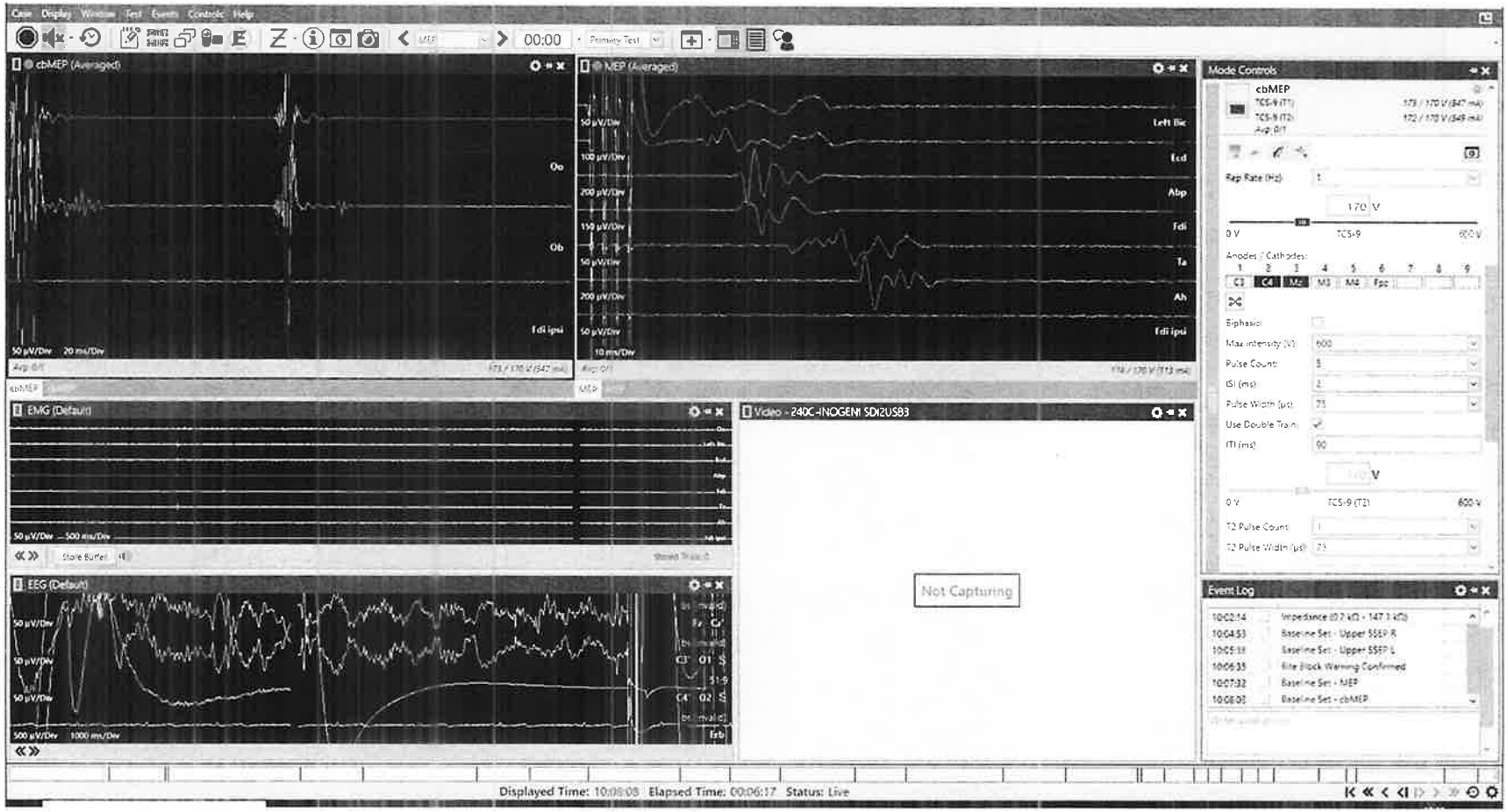
IOM sovratentoriale

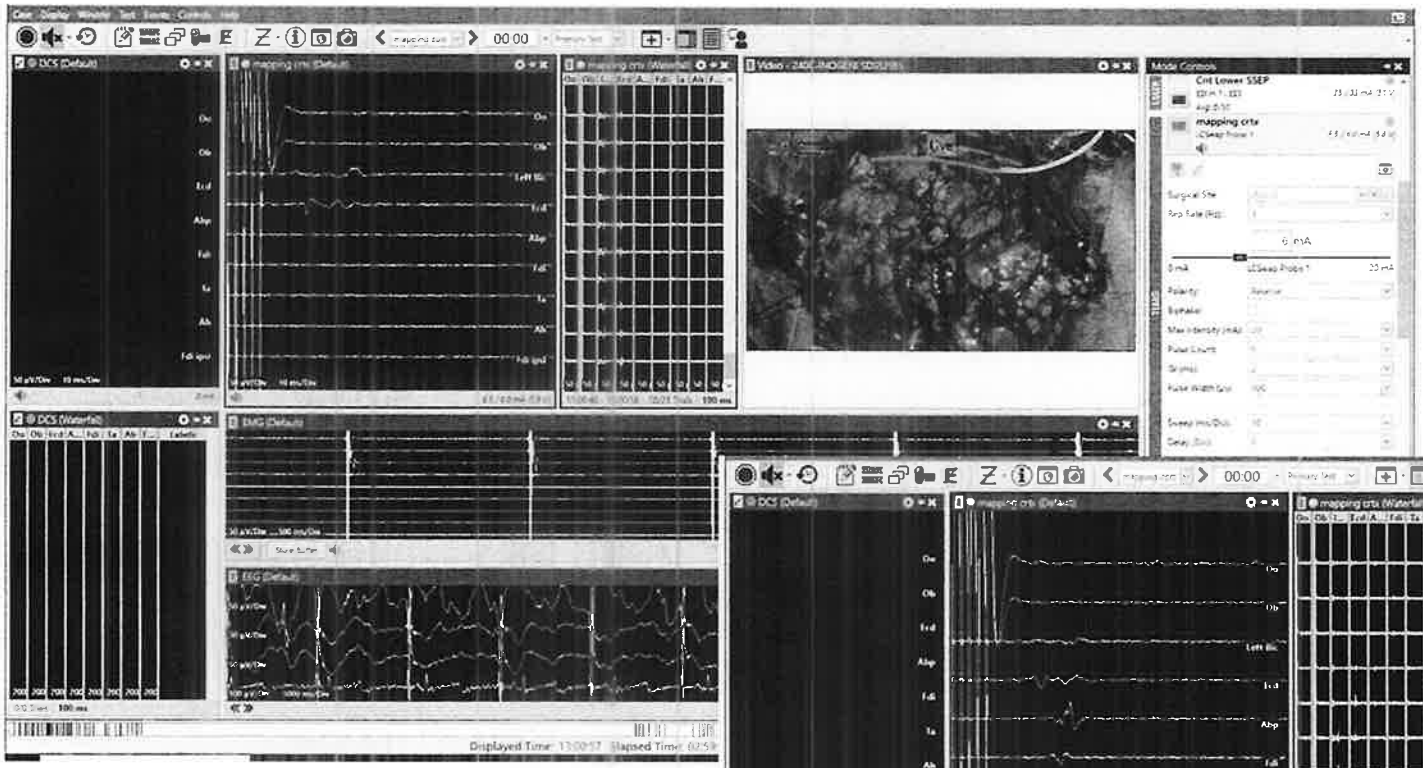
Potenziali acustici

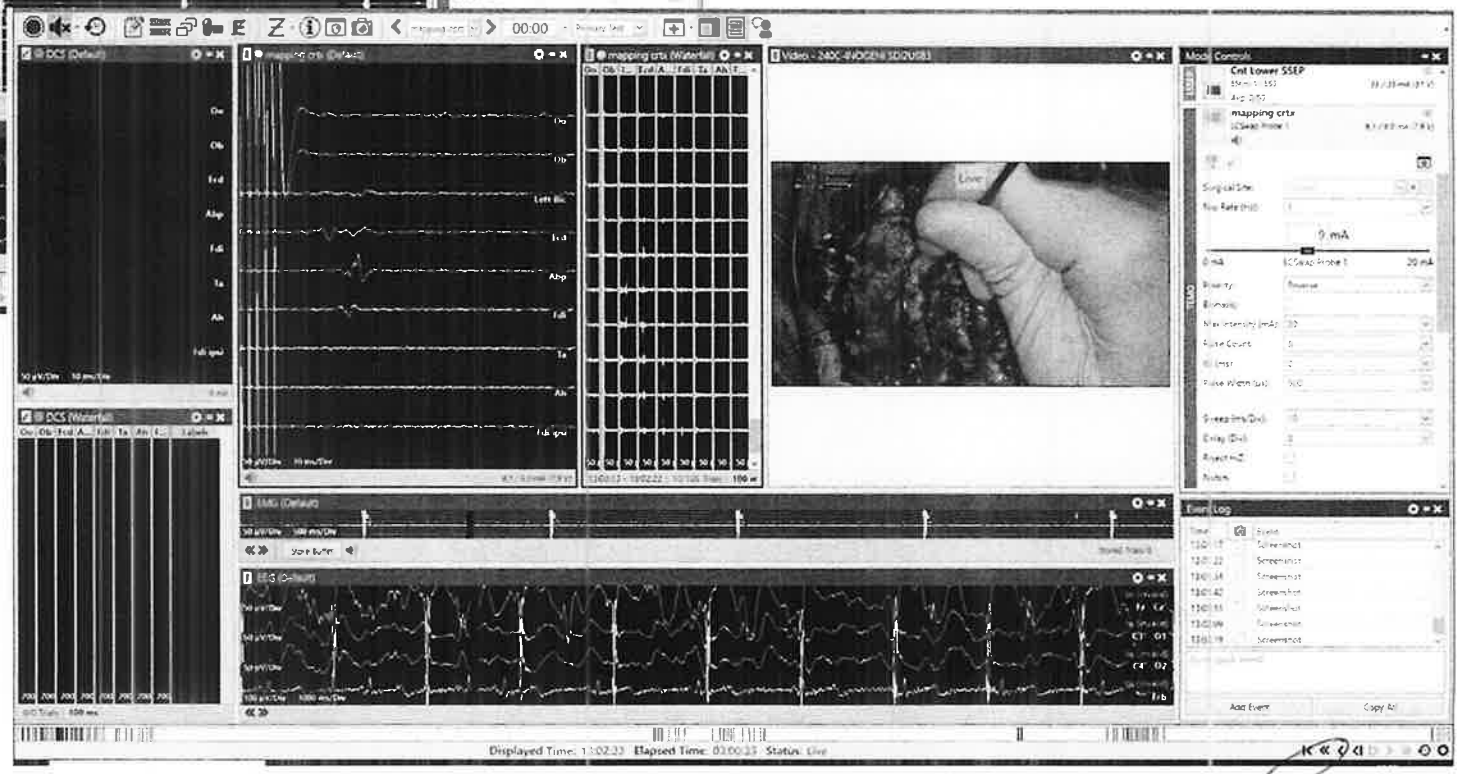
QEMG

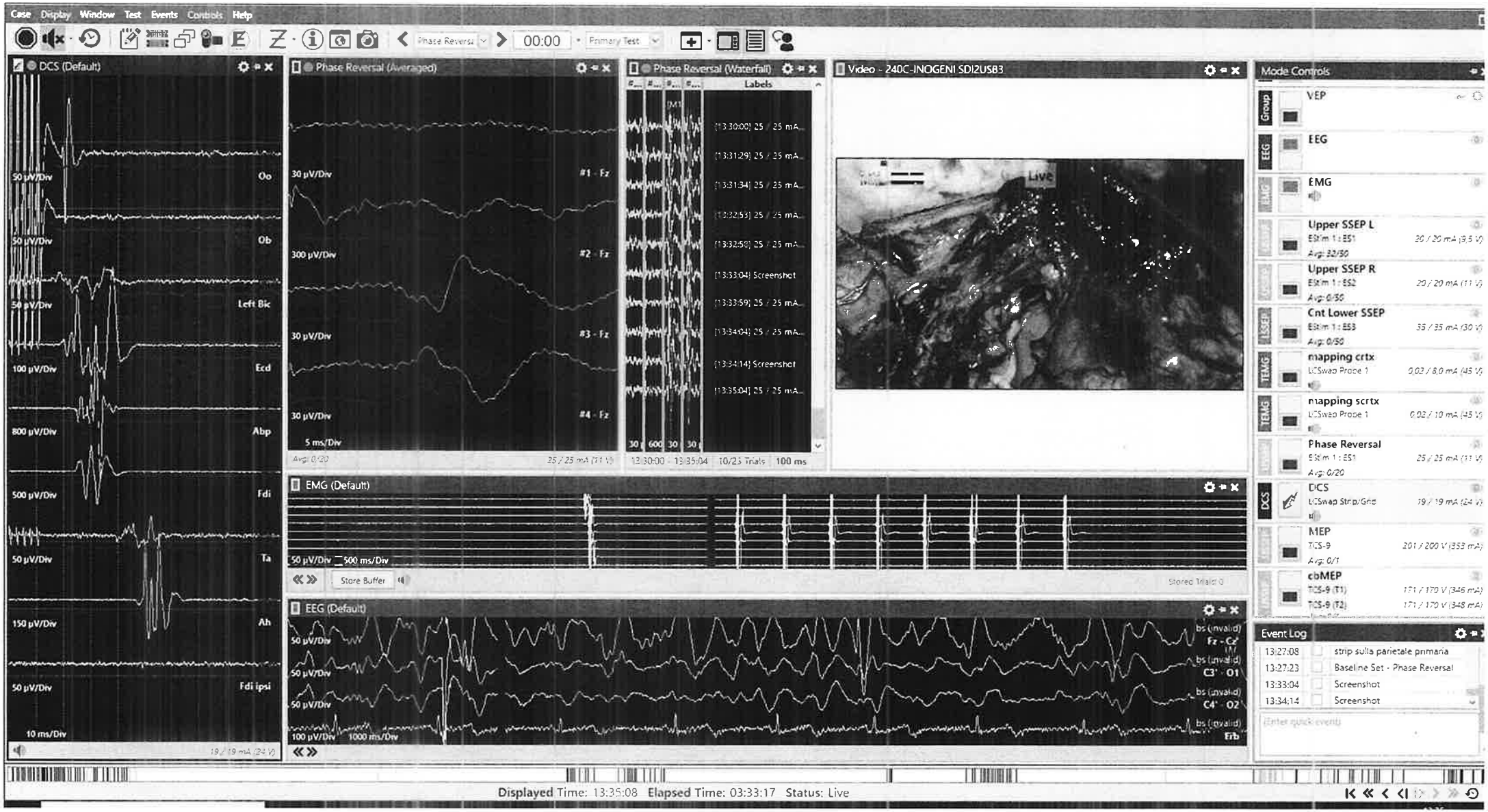
Lesione sovratentoriale

Apertura


cbMEP (Averaged)
MEP (Averaged)
Mode Controls
cbMEP
EMG (Default)
Video - 240C-INOGENI SDI2USB3
Not Capturing
EEG (Default)
Event Log
Displayed Time: 10:08:08 Elapsed Time: 00:06:17 Status: Live


DCS (Default)
mapping crts (Default)
mapping crts (Waterfall)
Mode Controls
Crit Lower SSEP
mapping crts
DCS (Waterfall)
EMG (Default)
EEG (Default)
Displayed Time: 1:00:57 Elapsed Time: 02:59


00:00
DCS (Default)
mapping crts (Default)
mapping crts (Waterfall)
Video - 240C-IMOGENI SDI2U081
Mode Controls
Crit Lower SSEP
mapping crts
9 mA
DCS (Waterfall)
EMG (Default)
EEG (Default)
Event Log
Add Event
Copy All
Displayed Time: 1:02:23 Elapsed Time: 03:00:23 Status: Live


Case Display Window Test Events Controls Help
00:00
DCS (Default)
Phase Reversal (Averaged)
Phase Reversal (Waterfall)
Labels
Video - 240C-INOGENI SDI2USB3
Live
Mode Controls
VEP
EEG
EMG
Upper SSEP L
Upper SSEP R
Cnt Lower SSEP
mapping crtx
mapping scrtx
Phase Reversal
DCS
MEP
cbMEP
EMG (Default)
Store Buffer
EEG (Default)
Event Log
13:27:08 strip sulla parietale primaria
13:27:23 Baseline Set - Phase Reversal
13:33:04 Screenshot
13:34:14 Screenshot
Displayed Time: 13:35:08 Elapsed Time: 03:33:17 Status: Live

Case Display Window Test Events Controls Help

00:00

DCS (Default)

50 µV/Div Oo
50 µV/Div Ob
50 µV/Div Left Bic
100 µV/Div Ecd
800 µV/Div Abp
500 µV/Div Fdi
50 µV/Div Ta
150 µV/Div Ah
50 µV/Div Fdi ipsi
10 ms/Div

VEP L (Averaged)

15 µV/Div O1 - Fz
15 µV/Div Oz - Fz
15 µV/Div O2 - Fz
8 µV/Div Left ERG
50 ms/Div

VEP R (Averaged)

15 µV/Div O1 - Fz
15 µV/Div Oz - Fz
15 µV/Div O2 - Fz
8 µV/Div Right ERG
50 ms/Div

Video - 240C-INOGENI SDI2USB3

Mode Controls

Upper SSEP R
EStim 1 : ES2 20 / 20 mA
Avg: 0/50

Cnt Lower SSEP
EStim 1 : ES3 35 / 35 mA
Avg: 0/50

mapping crtx
LCSwap Probe 1 0.00 / 8.0 mA

mapping scrtx
LCSwap Probe 1 15 / 15 mA

Phase Reversal
EStim 1 : ES1 25 / 25 mA
Avg: 0/20

DCS
LCSwap Strip/Grid 17 / 17 mA

MEP
TCS-9 201 / 200 V
Avg: 0/1

cbMEP
TCS-9 (T1) 171 / 170 V
TCS-9 (T2) 171 / 170 V
Avg: 0/1

CCEP
LCSwap Strip/Grid
Avg: 0/50

VEP L
EStim 1 : ES4 50 / 50 mA
Avg: 0/40

VEP R
EStim 1 : ES4 50 / 50 mA
Avg: 0/100

EMG (Default)

50 µV/Div 500 ms/Div

Store Buffer

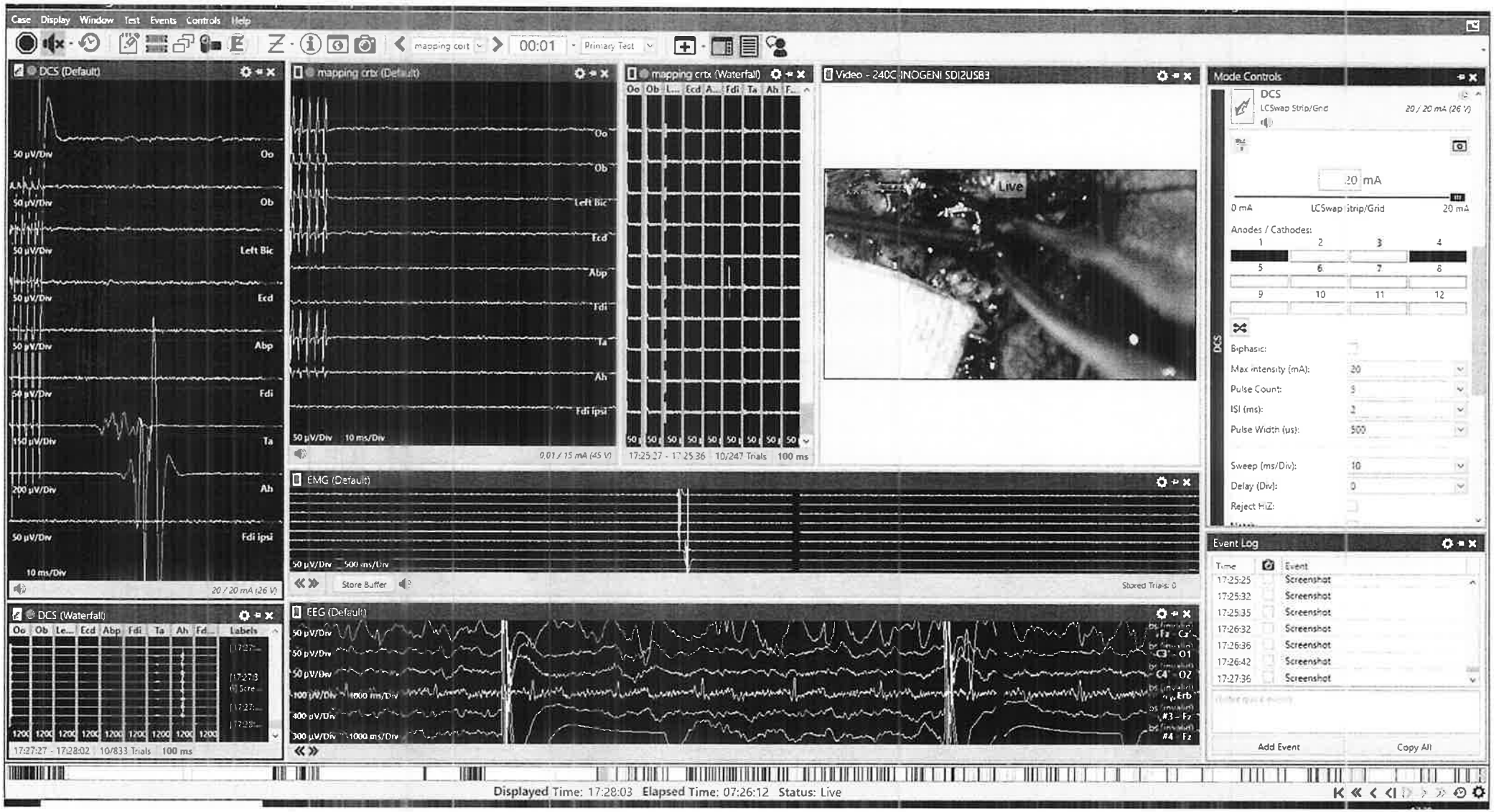
EEG (Default)

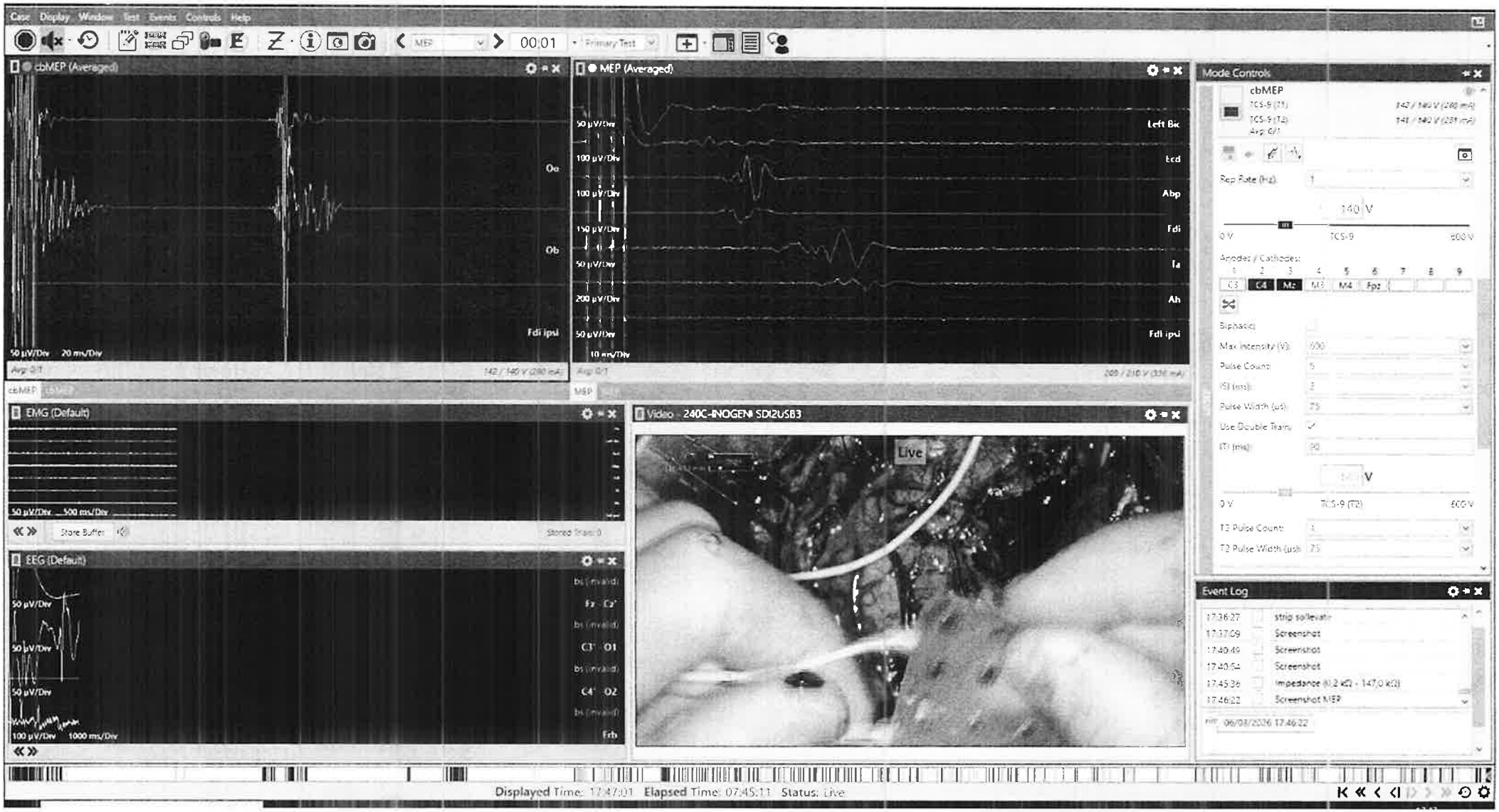
50 µV/Div
50 µV/Div
50 µV/Div
100 µV/Div 1000 ms/Div

Event Log

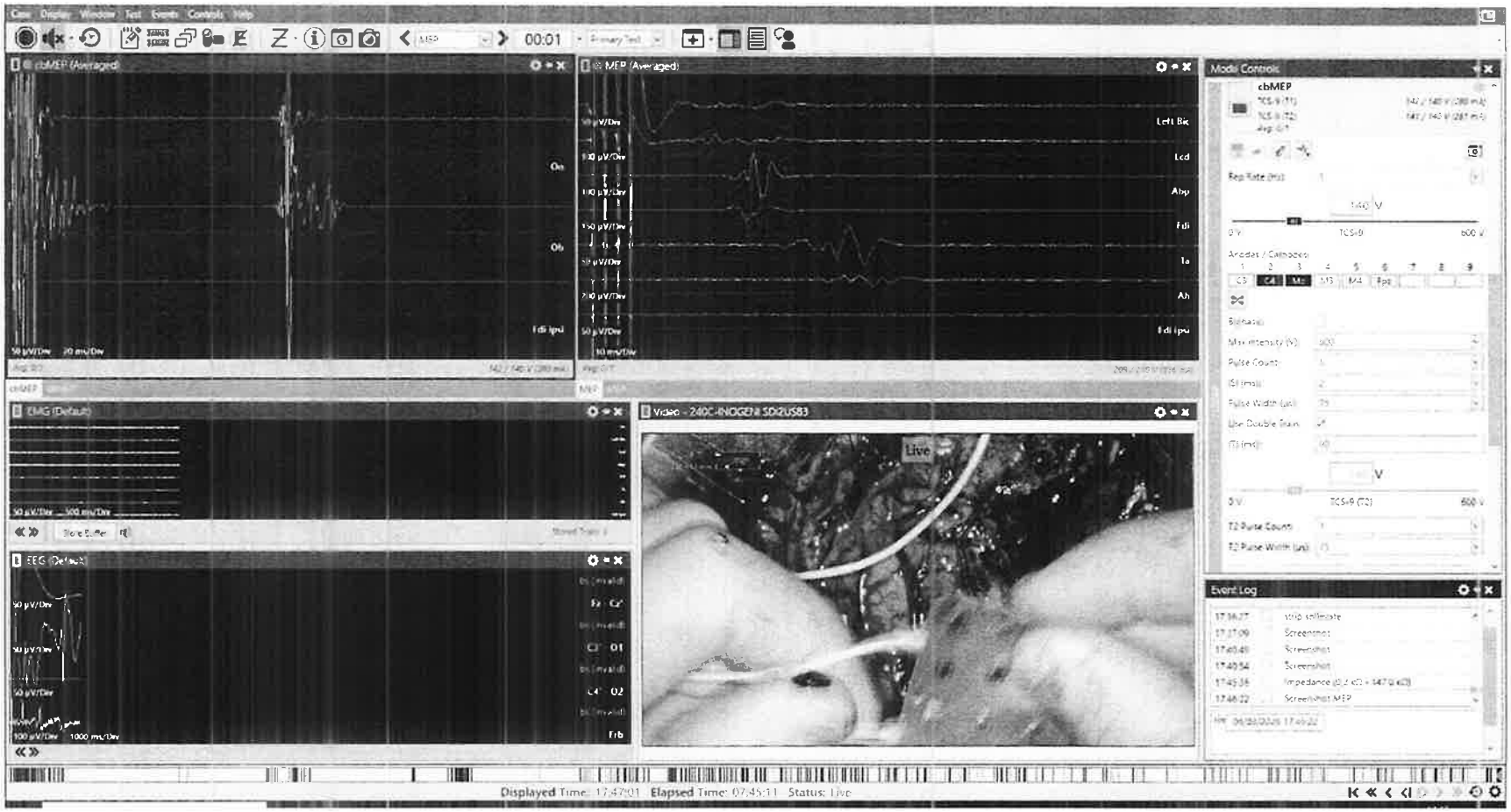
14:25:33	Screenshot
14:26:59	Screenshot
14:28:16	Screenshot
14:29:54	Screenshot
14:38:33	Screenshot

Displayed Time: 14:38:35 Elapsed Time: 04:36:44 Status: Live

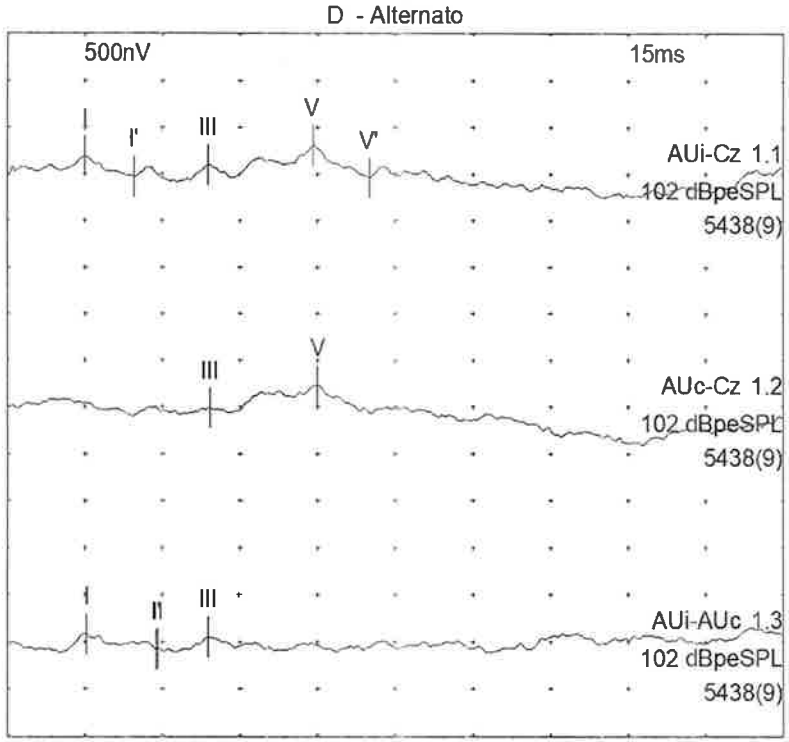

Case Display Window Test Events Controls Help
00:01
DCS (Default)
50 µV/Div
Oo
Ob
Left Bic
Ecd
Abp
Fdi
Ta
Ah
Fdi ipsi
10 ms/Div
20 / 20 mA (26 V)
mapping crtx (Default)
50 µV/Div 10 ms/Div
mapping crtx (Waterfall)
17:25:27 - 17:25:36 10/247 Trials 100 ms
Video - 240C INOGENI SDI2USB3
Live
Mode Controls
DCS
LCSwap Strip/Grid
20 / 20 mA (26 V)
20 mA
0 mA
20 mA
Anodes / Cathodes:
Biphasic:
Max intensity (mA): 20
Pulse Count:
ISI (ms):
Pulse Width (µs): 500
Sweep (ms/Div): 10
Delay (Div): 0
Reject HiZ:
EMG (Default)
50 µV/Div 500 ms/Div
Store Buffer
Stored Trials: 0
Event Log
Time
Event
17:25:25 Screenshot
17:25:32 Screenshot
17:25:35 Screenshot
17:26:32 Screenshot
17:26:36 Screenshot
17:26:42 Screenshot
17:27:36 Screenshot
Add Event
Copy All
DCS (Waterfall)
Labels
17:27:27 - 17:28:02 10/833 Trials 100 ms
EEG (Default)
50 µV/Div
100 µV/Div 500 ms/Div
400 µV/Div
300 µV/Div 1000 ms/Div
Displayed Time: 17:28:03 Elapsed Time: 07:26:12 Status: Live

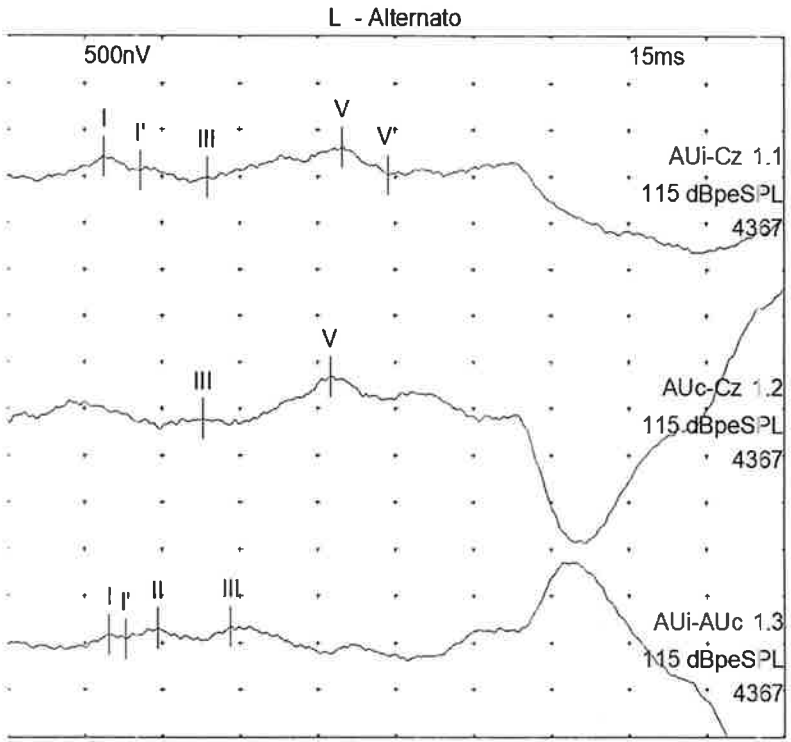

Case Display Window Test Events Controls Help
00:01
cbMEP (Averaged)
Oa
Ob
Fdi ipsi
50 µV/Div 20 ms/Div
MEP (Averaged)
Left Bic
Ecd
Abp
Fdi
Ta
Ah
Fdi ipsi
EMG (Default)
Store Buffer
EEG (Default)
Fz - Cz
C3 - O1
C4 - O2
Video - 240C-INOGEN SDI2USB3
Live
Mode Controls
cbMEP
Rep Rate (Hz)
140 V
Anodes / Cathodes
Event Log
Displayed Time: 17:47:01 Elapsed Time: 07:45:11 Status: Live

Chiusura


cbMEP (Averaged)
MEP (Averaged)
Modal Controls
EMG (Default)
Video - 240C-INOGEN SD/ZUSB3
Live
EEG (Default)
Event Log
Displayed Time: 17:47:01 Elapsed Time: 07:45:11 Status: Live

Commento

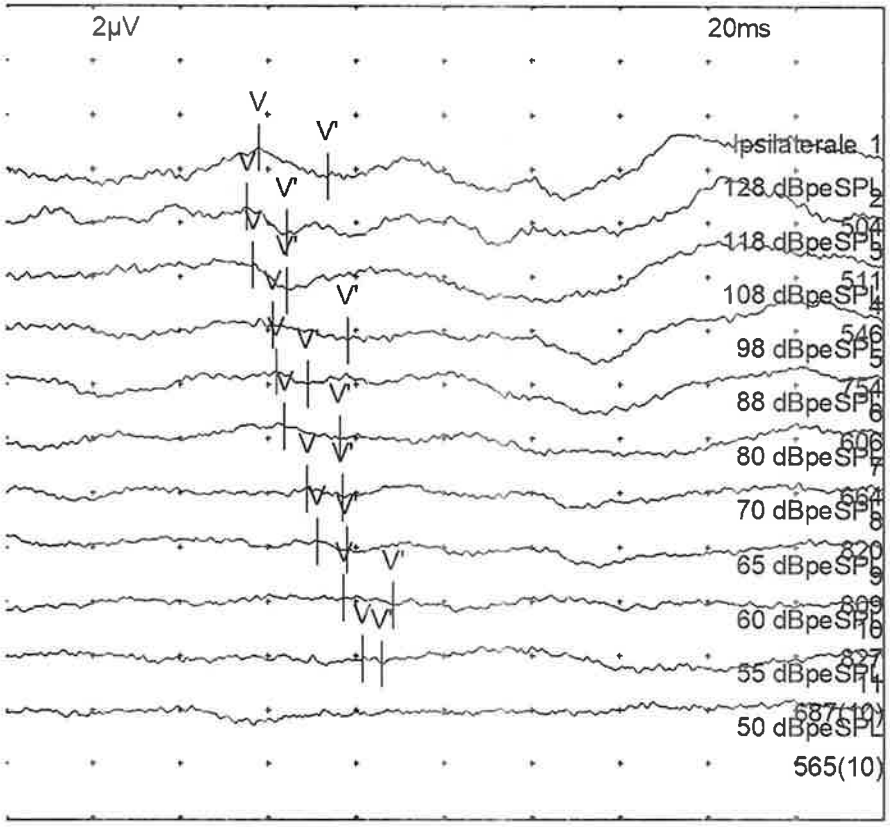

D - Alternato
500nV
15ms
I
I'
III
V
V'
AUi-Cz 1.1
102 dBpeSPL
5438(9)
III
V
AUc-Cz 1.2
102 dBpeSPL
5438(9)
I
II
III
AUi-AUc 1.3
102 dBpeSPL
5438(9)


L - Alternato
500nV
15ms
I
I'
III
V
V'
AUi-Cz 1.1
115 dBpeSPL
4367
III
V
AUc-Cz 1.2
115 dBpeSPL
4367
I
I'
II
III
AUi-AUc 1.3
115 dBpeSPL
4367

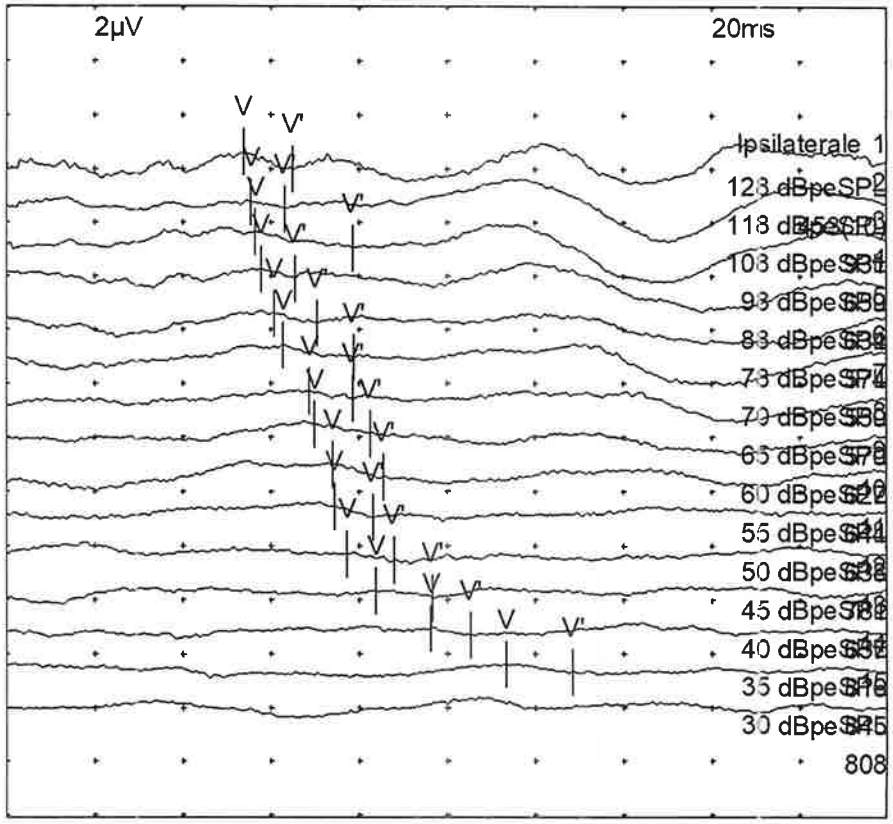
Ipsilateral Latency & Amplitude	Stim Side	Aud.Stim	I	II	III	V		Amp I	Amp V	V/I Ratio	Sogl Sogg
		dB	ms	ms	ms	ms		µV	µV		
D - Alternato											
1.1	D	102peSPL	1,5		3,9	5,9		0,22	0,36	1,6	42
1.2											
1.3				2,9							
L - Alternato											
1.1	L	115peSPL	1,9		3,9	6,5		0,16	0,30	1,91	46
1.2											
1.3				2,9							
D-L - Alternato											
1.1	L	115peSPL	-0,4		0,0	-0,6		0,07	0,06	-0,31	46
1.2											
1.3				0,0							

Ipsilateral Inter-Peak Latency Difference	Stim Side	I - III	III - V	I - V
		ms	ms	ms
D - Alternato				
1.1	D	2,4	2,0	4,4
1.2				
1.3				
L - Alternato				
1.1	L	2,0	2,6	4,6
1.2				
1.3				
D-L - Alternato				
1.1	L	0,4	-0,6	-0,2
1.2				
1.3				

D - Alternato

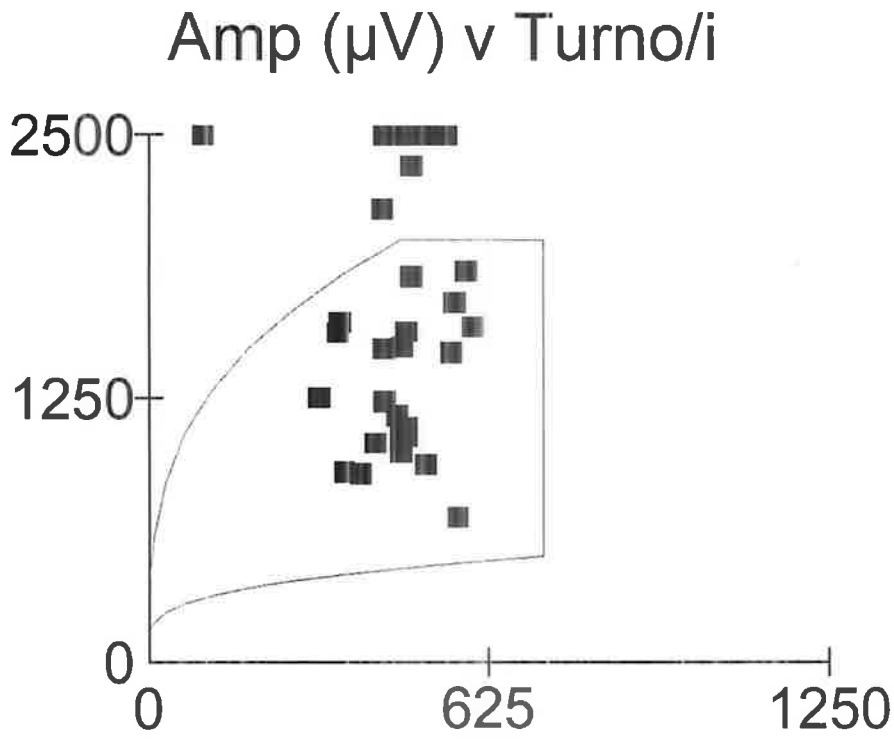


L - Alternato



Refertazione

QEMG



Muscolo		Turns/s	Ampl. µV	Ratio
L Tibialis anterior	Media	456	1776	0,31
	1	474	1066	0,44
	2	434	1234	0,35
	3	584	1854	0,31
	4	548	3123	0,18
	5	507	3085	0,16
	6	490	2795	0,18
	7	484	2585	0,19
	8	434	2673	0,16
	9	462	2635	0,18
	10	462	2951	0,16
	11	478	2505	0,19
	12	484	2354	0,21
	13	430	2153	0,2
	14	432	1483	0,29
	15	348	1562	0,22
	16	352	1609	0,22
	17	314	1251	0,25
	18	474	1565	0,3
	19	484	1829	0,26
	20	564	1707	0,33
	21	596	1589	0,37
	22	556	1465	0,38
	23	466	1492	0,31
	24	474	1111	0,43
	25	456	1167	0,39
	26	464	1071	0,43
	27	568	687	0,83
	28	390	891	0,44
	29	510	935	0,55
	30	464	993	0,47
	31	416	1037	0,4
	32	360	899	0,4
	33	100	3247	0,03

- Neurogeno
- Miogeno
- Normale

- Commento

PROVA PRATICA NON ESTRATTA

EDOARDO FINO

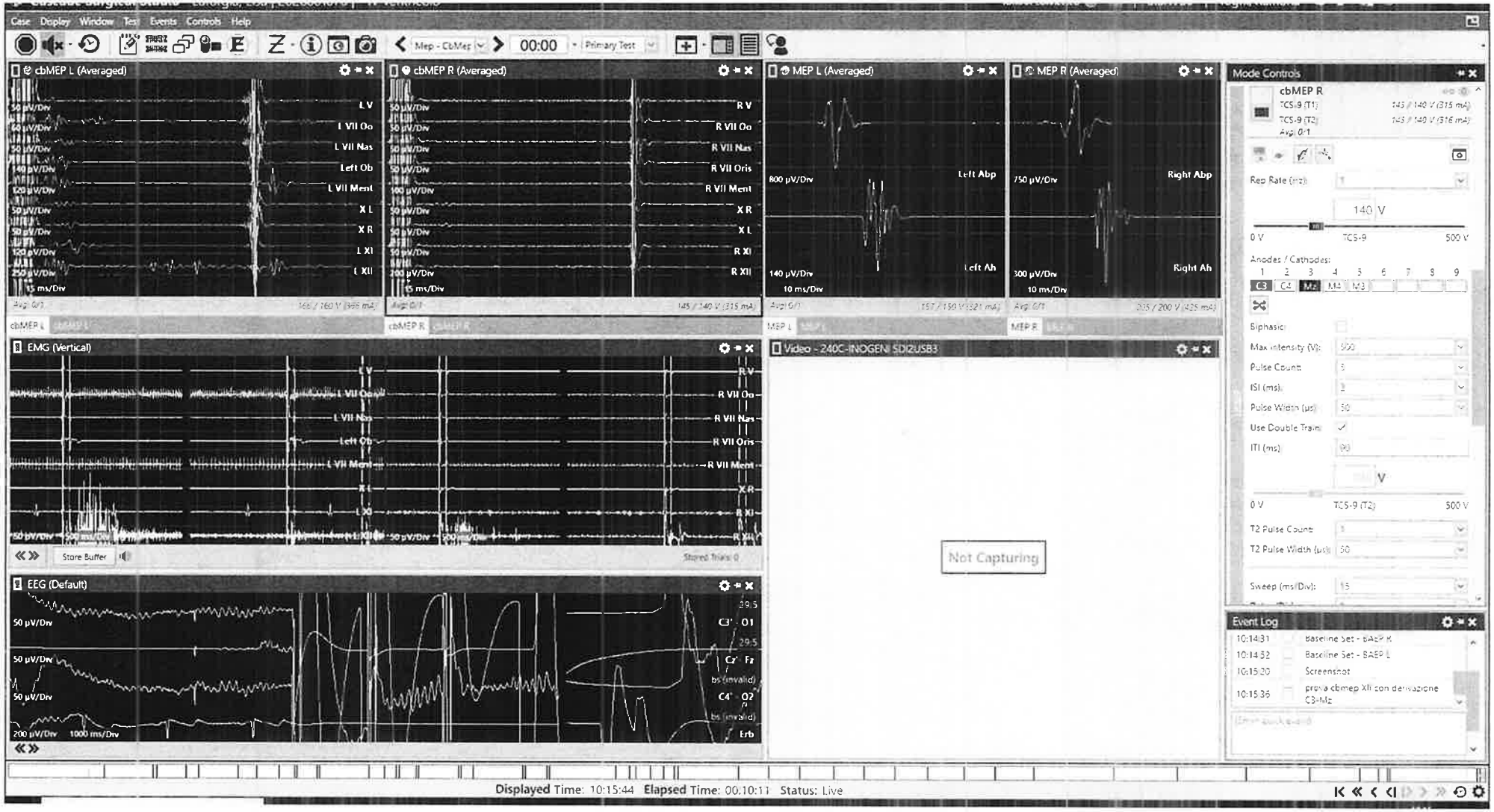
Prova pratica 3

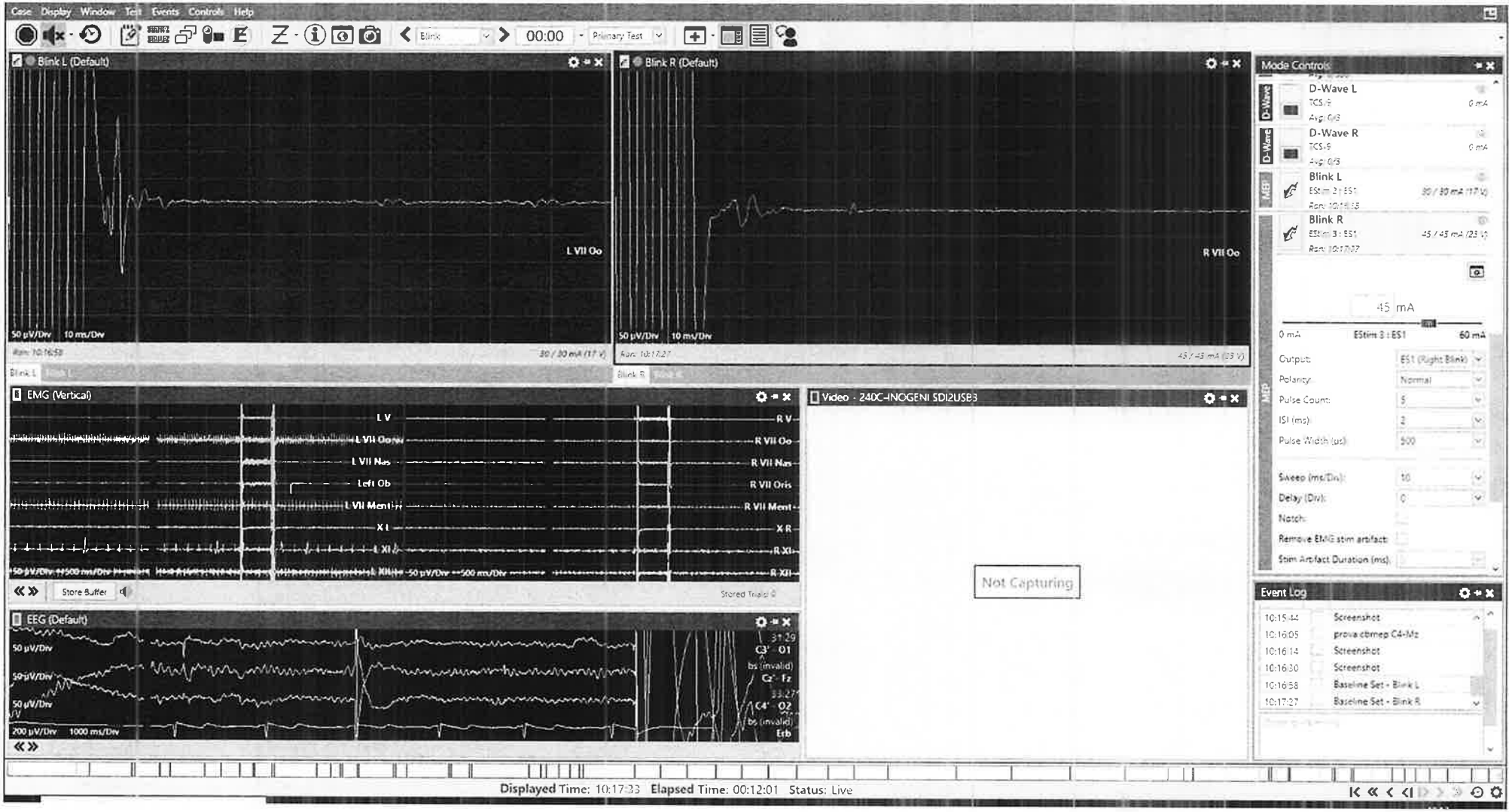
IOM Troncoencefalo

PEM SEP

Blocco di conduzione

Lesione troncoencefalo


Case Display Window Test Events Controls Help
00:00
cbMEP L (Averaged)
cbMEP R (Averaged)
MEP L (Averaged)
MEP R (Averaged)
Mode Controls
cbMEP R
Rep Rate (Hz)
140 V
Anodes / Cathodes:
Biphasic
Max Intensity (V):
Pulse Count
ISI (ms)
Pulse Width (µs)
Use Double Train
ITI (ms)
T2 Pulse Count
T2 Pulse Width (µs)
Sweep (ms/Div):
EMG (Vertical)
Store Buffer
Video - 240C-INOGENI SDIZUSB3
Not Capturing
EEG (Default)
Event Log
Screenshot
Displayed Time: 10:15:44 Elapsed Time: 00.10:11 Status: Live


Case Display Window Test Events Controls Help
Blink
00:00
Primary Test
Blink L (Default)
L VII Oo
50 µV/Div 10 ms/Div
Blink R (Default)
R VII Oo
50 µV/Div 10 ms/Div
Mode Controls
D-Wave L
D-Wave R
Blink L
Blink R
45 mA
0 mA
EStim 3 : ES1
60 mA
Output:
ES1 (Right Blink)
Polarity:
Normal
Pulse Count:
5
ISI (ms):
2
Pulse Width (µs):
500
Sweep (ms/Div):
10
Delay (Div):
0
Notch:
Remove EMG stim artifact:
Stim Artifact Duration (ms):
EMG (Vertical)
L V
L VII Oo
L VII Nas
Left Ob
L VII Ment
X L
L XI
R V
R VII Oo
R VII Nas
R VII Oris
R VII Ment
X R
R XI
R XII
Store Buffer
Video - 24DC-INOGENI SDI2USB3
Not Capturing
Event Log
10:15:44 Screenshot
10:16:05 prova cbmep C4-Mz
10:16:14 Screenshot
10:16:30 Screenshot
10:16:58 Baseline Set - Blink L
10:17:27 Baseline Set - Blink R
EEG (Default)
50 µV/Div
200 µV/Div 1000 ms/Div
Displayed Time: 10:17:33 Elapsed Time: 00:12:01 Status: Live

Case Display Window Test Events Controls Help

00:00 Primary Test

Upper SSEP L (Averaged)

Upper SSEP R (Averaged)

BAEP L (Average...

BAEP R (Averaged)

Video - 240C-INOGENI SDI2USB3

Live

Mode Controls

Upper SSEP L

Upper SSEP R

Lower SSEP L

Lower SSEP R

MEP L

MEP R

cbMEP L

cbMEP R

Lower SSEP L (Averaged)

Lower SSEP R (Averaged)

EMG (Vertical)

Store Buffer

EEG (Default)

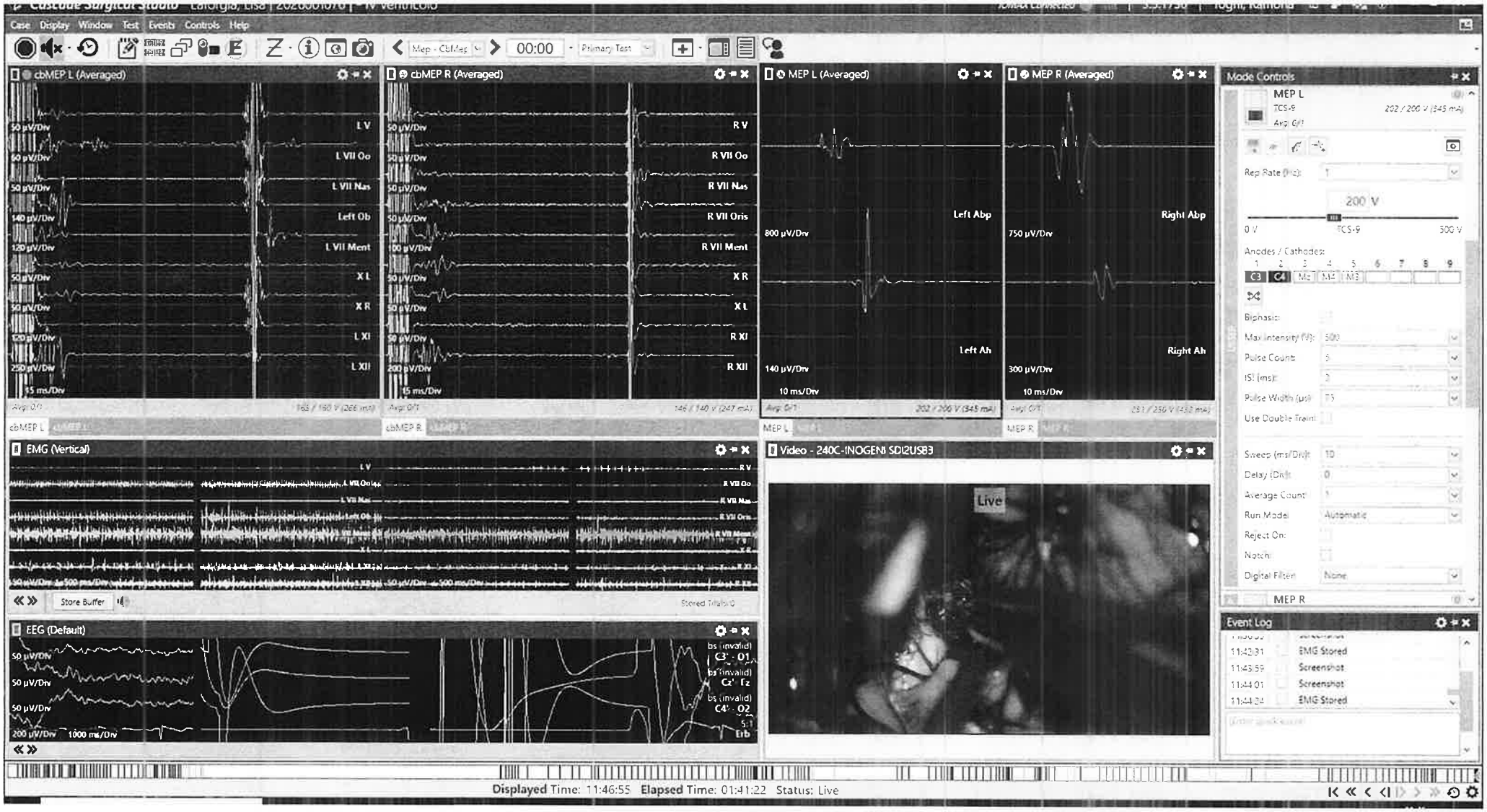
Event Log

Time	Event
10:18:49	baseline mep l 150v mep r 200v
10:18:53	Screenshot
10:19:00	incisione
10:39:33	Screenshot
10:46:02	Screenshot
10:46:09	Screenshot
10:46:13	craniotomia
10:57:55	Screenshot
10:58:00	controllo cbmep e mep
10:58:18	Screenshot
10:58:22	controllo blink
11:00:58	Screenshot

controllo ssep e baep

Add Event Copy All

Displayed Time: 11:01:04 Elapsed Time: 00:55:31 Status: Live

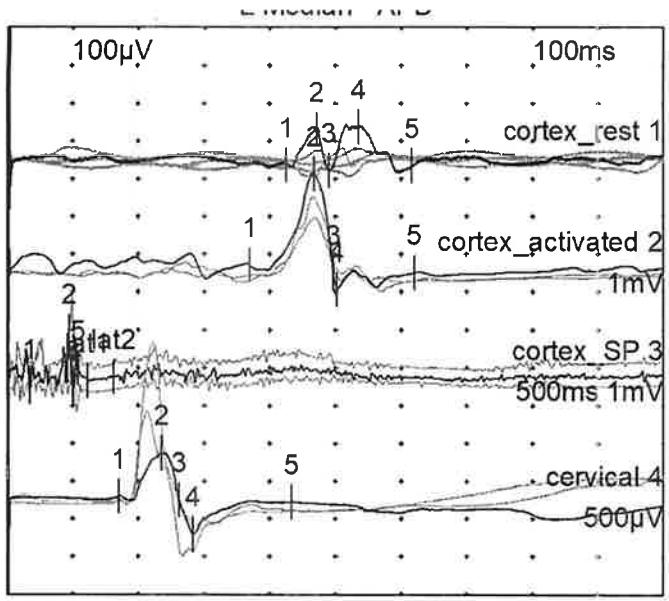

Case Display Window Test Events Controls Help
00:00
cbMEP L (Averaged)
L V
L VII Oo
L VII Nas
Left Ob
L VII Ment
X L
X R
L XI
L XII
cbMEP R (Averaged)
R V
R VII Oo
R VII Nas
R VII Oris
R VII Ment
X R
X L
R XI
R XII
MEP L (Averaged)
Left Abp
Left Ah
MEP R (Averaged)
Right Abp
Right Ah
Mode Controls
MEP L
200 V
Anodes / Cathodes:
Biphasic:
Pulse Count:
ISI (ms):
Pulse Width (µs):
Use Double Train:
Sweep (ms/Div):
Delay (Div):
Average Count:
Run Mode:
Reject On:
Notch:
Digital Filter:
MEP R
EMG (Vertical)
Store Buffer
EEG (Default)
Video - 240C-INOGENI SDI2USB3
Live
Event Log
EMG Stored
Screenshot
Screenshot
EMG Stored
Displayed Time: 11:46:55 Elapsed Time: 01:41:22 Status: Live

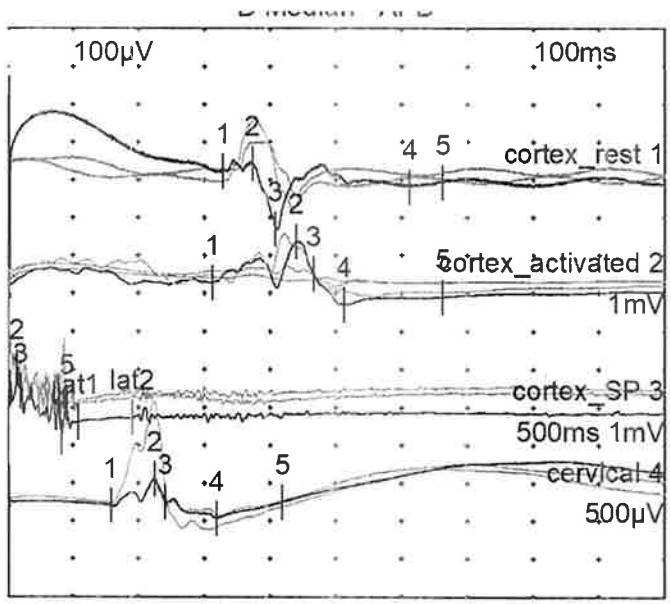
cbMEP L (Averaged)
cbMEP R (Averaged)
MEP L (Averaged)
MEP R (Averaged)
Mode Controls
BAEP
d-wave
EEG
EMG
Upper SSEP L
Upper SSEP R
Lower SSEP L
Lower SSEP R
MEP L
MEP R
cbMEP L
EMG (Vertical)
Video - 240C-INOGENI SDI2USB3
Not Capturing
EEG (Default)
Event Log
Displayed Time: 12:39:40 Elapsed Time: 02:34:07 Status: Live

Commenti

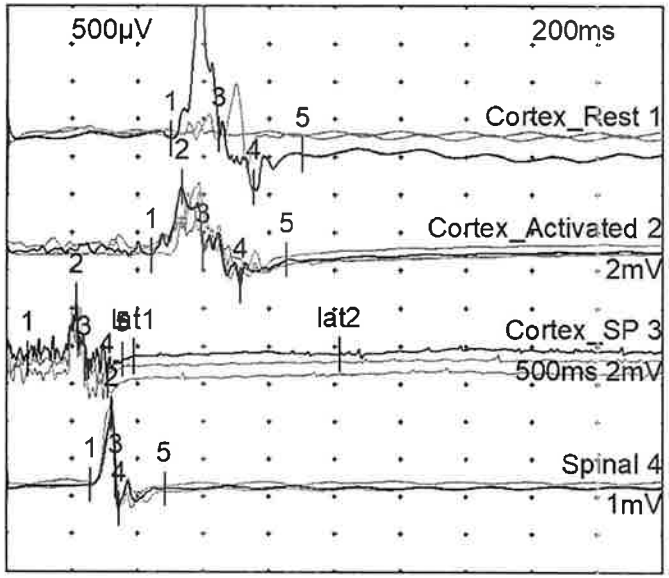
PEM TMS AASS e II

Nervo / Posizioni	Muscle	Soglia	Latency	Amp pk-pk	Lat Diff	Fine PS	Dur PS
			ms	mV	ms	ms	ms
D Median - APB							
cortex_rest	APB	55	32,9	0,1	15,6		
cortex_activated	APB	77	31,3	1,7			
cortex_SP	APB		2,6	1,8		95,57	41,41
cervical	APB		15,8	0,5			
L Median - APB							
cortex_rest	APB	55	42,6	0,0	19,9		
cortex_activated	APB	77	37,0	3,1			
cortex_SP	APB		18,0	1,6		81,51	19,79
cervical	APB		17,1	1,1			
L Tibial - AH							
Cortex_Rest	AH	60	52,4	1,6	20,9		
Cortex_Activated	AH	84	46,4	4,7			
Cortex_SP	AH		29,4	4,2		264,06	175,78
Spinal	AH		25,4	1,0			
D Tibial - AH							
Cortex_Rest	AH	65	50,1	2,9	18,6		
Cortex_Activated	AH	84	44,3	5,2			
Cortex_SP	AH		16,7	4,2		253,65	156,25
Spinal	AH		25,6	2,5			

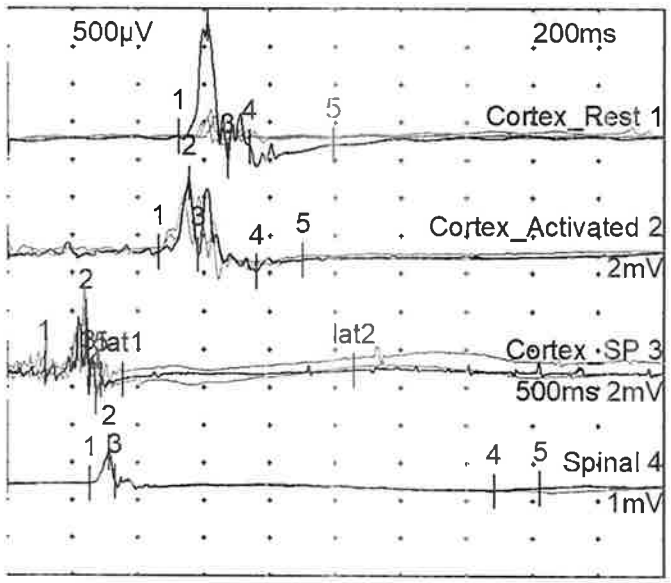




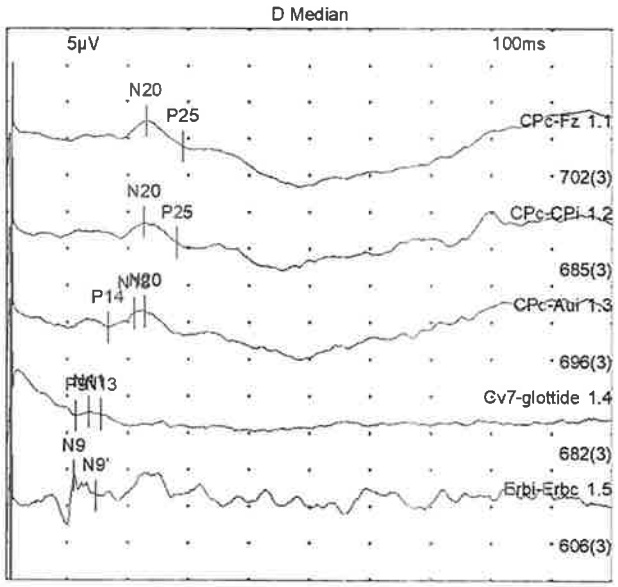
D Tibial - AH

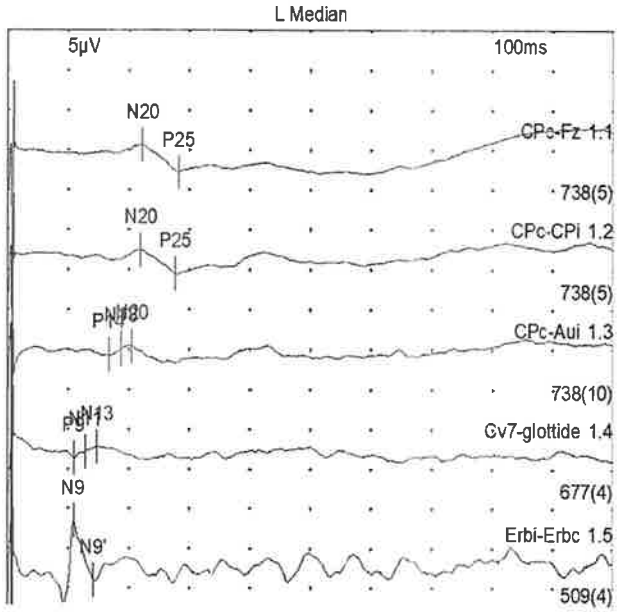


L Tibial - AH

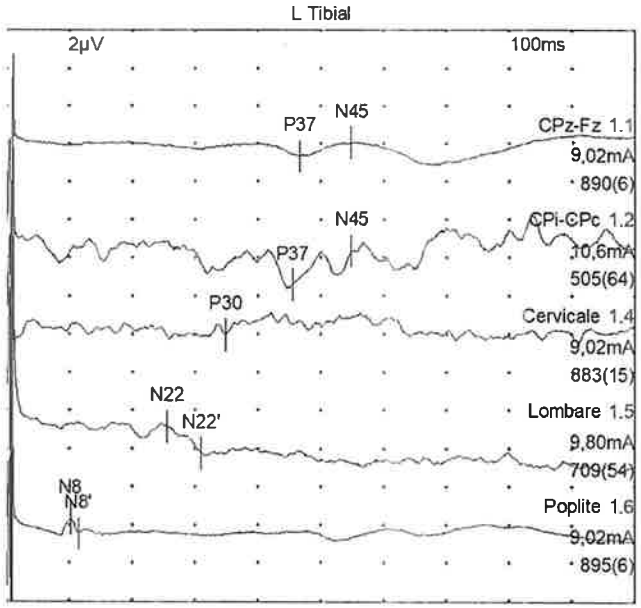


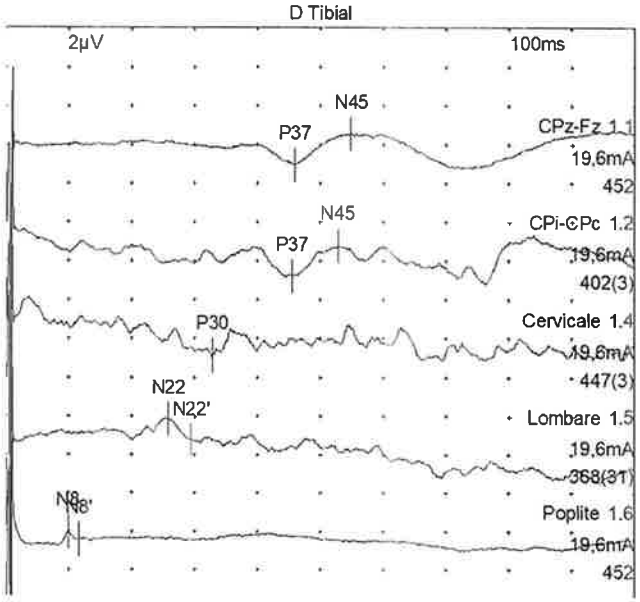
Esegui	N20	P25	N20-P25	N18	P14	N13	N11	N9	N9
	ms	ms	µV	ms	ms	ms	ms	ms	µV
L Median									
1.1	**22,3**	**28,2**	**3,6**						
1.2	**22,0**	**27,7**	**3,0**						
1.3	**20,5**			**18,8**	**16,7**				
1.4						**14,8**	**12,8**		
1.5								**10,9**	**7,6**
D Median									
1.1	**23,0**	**29,1**	**3,6**						
1.2	**22,6**	**28,1**	**2,9**						
1.3	**22,8**			**21,0**	**16,7**				
1.4						**15,6**	**13,6**		
1.5								**11,1**	**2,6**
L-D Median									
1.1	**-0,7**	**-0,8**	**-0,01**						
1.2	**-0,6**	**-0,4**	**0,13**						
1.3	**-2,3**			**-2,3**	**0,0**				
1.4						**-0,8**	**-0,8**		
1.5								**-0,2**	**5,0**



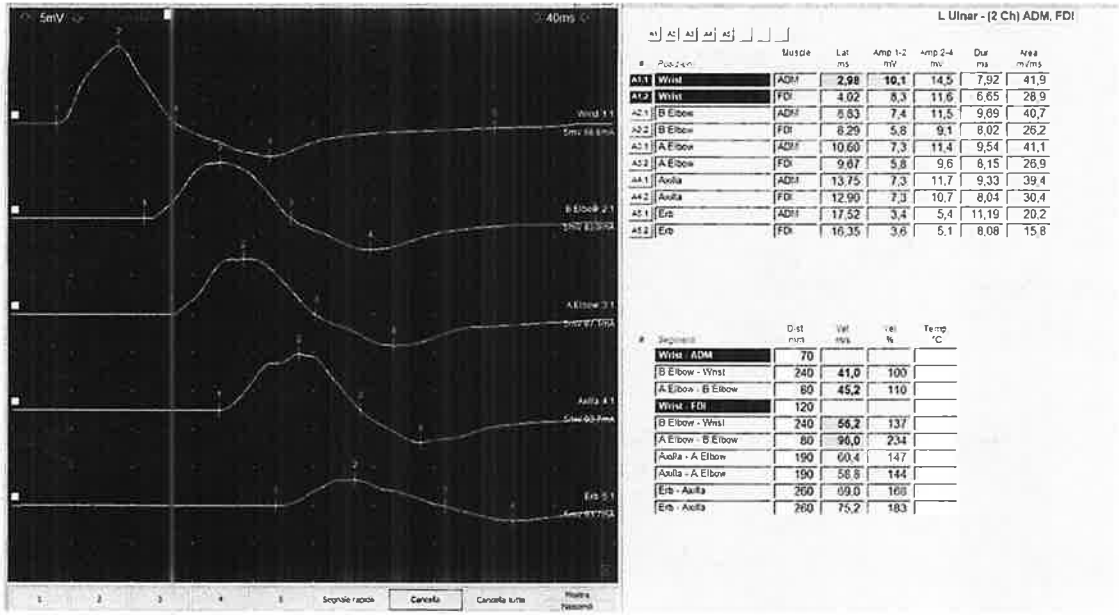


	Side	P37	P37-N45	P30	N22	N8	N8
		ms	µV	ms	ms	ms	µV
D Tibial							
1.1	**D**	**45,9**	**1,6**				
1.2		**45,5**	**1,6**				
1.4				**32,9**			
1.5					**25,8**		
1.6						**10,0**	**0,37**
L Tibial							
1.1	**L**	**46,6**	**0,73**				
1.2		**45,5**	**1,8**				
1.4				**34,9**			
1.5					**25,5**		
1.6						**10,2**	**0,79**
D-L Tibial							
1.1	**L**	**-0,6**	**0,89**				
1.2		**0,0**	**-0,23**				
1.4				**-2,0**			
1.5					**0,3**		
1.6						**-0,2**	**-0,42**



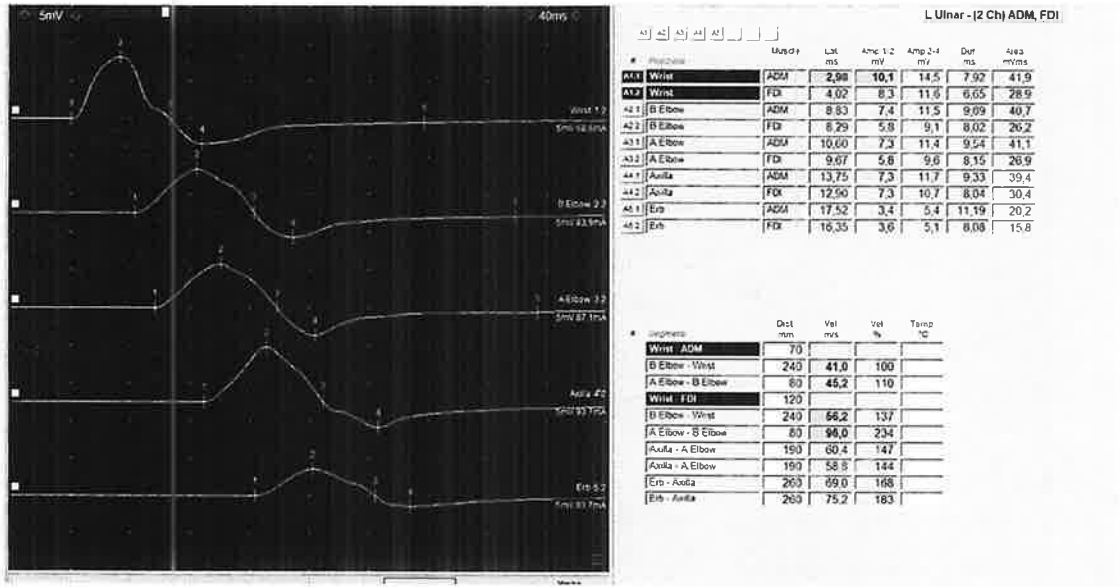


Localizzare la sede della lesione e giustificarla



#	Posizione	Muscle	Lat ms	Amp 1-2 mV	Amp 2-4 mV	Dur ms	Area mVms
A1.1	Wrist	ADM	2,98	10,1	14,5	7,92	41,9
A1.2	Wrist	FDI	4,02	8,3	11,6	6,65	28,9
A2.1	B Elbow	ADM	8,83	7,4	11,5	9,09	40,7
A2.2	B Elbow	FDI	8,29	5,8	9,1	8,02	26,2
A3.1	A Elbow	ADM	10,60	7,3	11,4	9,54	41,1
A3.2	A Elbow	FDI	9,67	5,8	9,6	8,15	26,9
A4.1	Axilla	ADM	13,75	7,3	11,7	9,33	39,4
A4.2	Axilla	FDI	12,90	7,3	10,7	8,04	30,4
A5.1	Erb	ADM	17,52	3,4	5,4	11,19	20,2
A5.2	Erb	FDI	16,35	3,6	5,1	8,08	15,8

#	Segmento	Dist mm	Vel m/s	Vel %	Temp °C
	Wrist - ADM	70			
	B Elbow - Wrist	240	41,0	100	
	A Elbow - B Elbow	80	45,2	110	
	Wrist - FDI	120			
	B Elbow - Wrist	240	56,2	137	
	A Elbow - B Elbow	80	96,0	234	
	Axilla - A Elbow	190	60,4	147	
	Axilla - A Elbow	190	58,8	144	
	Erb - Axilla	260	69,0	168	
	Erb - Axilla	260	75,2	183	



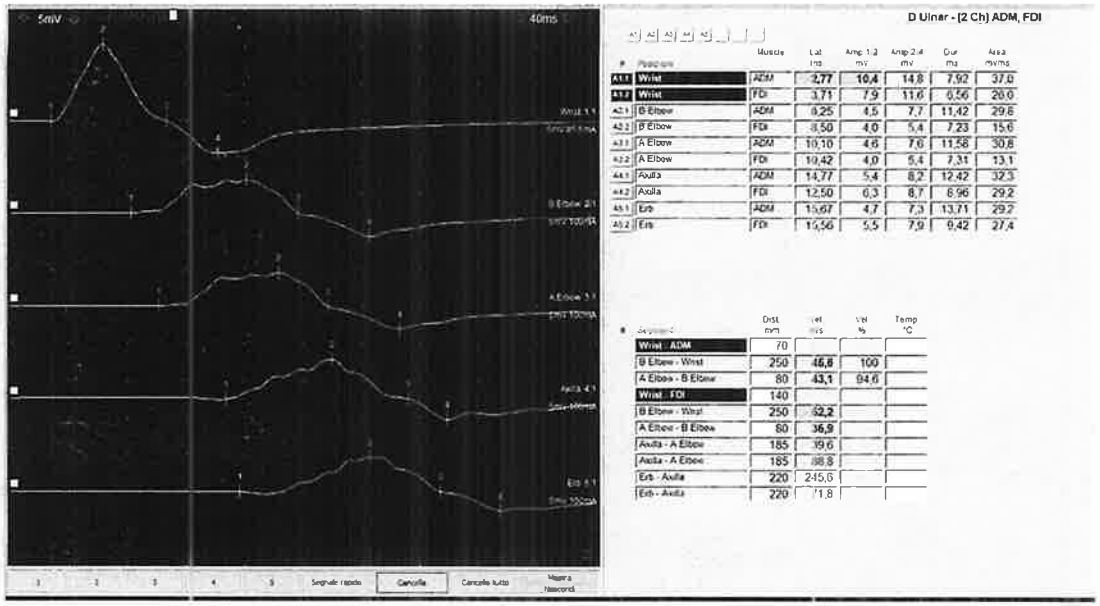
#	Posizione	Muscle	Lat ms	Amp 1-2 mV	Amp 2-4 mV	Dur ms	Area mVms
A1.1	Wrist	ADM	2,98	10,1	14,5	7,92	41,9
A1.2	Wrist	FDI	4,02	8,3	11,6	6,65	28,9
A2.1	B Elbow	ADM	8,83	7,4	11,5	9,09	40,7
A2.2	B Elbow	FDI	8,29	5,8	9,1	8,02	26,2
A3.1	A Elbow	ADM	10,60	7,3	11,4	9,54	41,1
A3.2	A Elbow	FDI	9,67	5,8	9,6	8,15	26,9
A4.1	Axilla	ADM	13,75	7,3	11,7	9,33	39,4
A4.2	Axilla	FDI	12,90	7,3	10,7	8,04	30,4
A5.1	Erb	ADM	17,52	3,4	5,4	11,19	20,2
A5.2	Erb	FDI	16,35	3,6	5,1	8,08	15,8

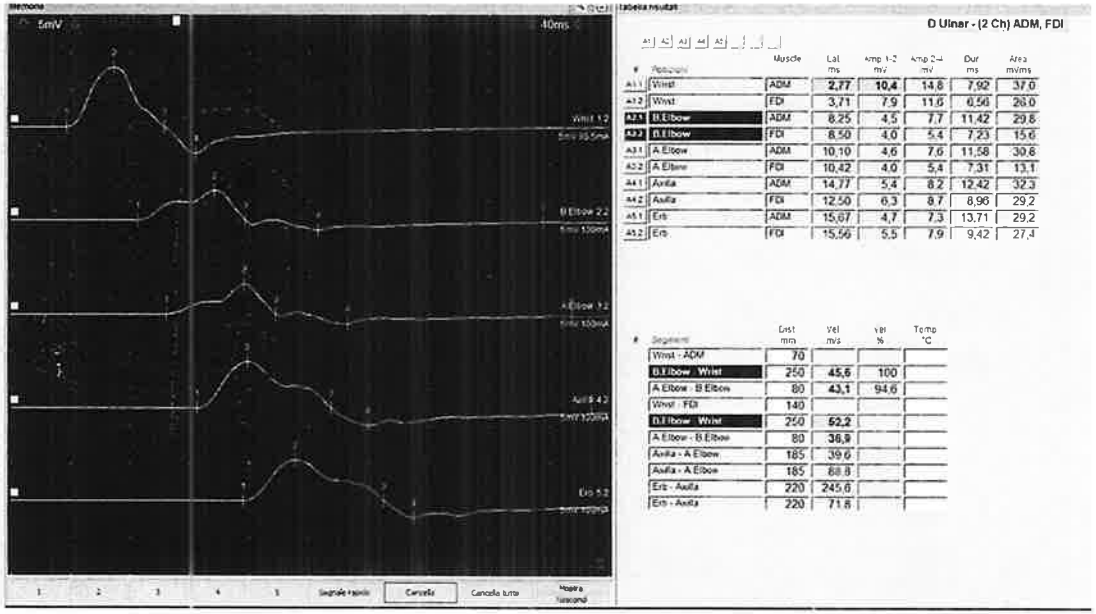
#	Segmento	Dist mm	Vel m/s	Vel %	Temp °C
	Wrist - ADM	70			
	B Elbow - Wrist	240	41,0	100	
	A Elbow - B Elbow	80	45,2	110	
	Wrist - FDI	120			
	B Elbow - Wrist	240	56,2	137	
	A Elbow - B Elbow	80	96,0	234	
	Axilla - A Elbow	190	60,4	147	
	Axilla - A Elbow	190	58,8	144	
	Erb - Axilla	260	69,0	168	
	Erb - Axilla	260	75,2	183	

Studio del n. ulnare

da ADM

e FDI





Studio del n. ulnare

da ADM

e FDI

Blocco di conduzione? Dispersione temporale?

PROVA PRATICA NON ESTRATTA

EDOARDO FINO