WFNR World Federation for Neurorehabilitation

13th WORLD CONGRESS FOR NEUROREHABILITATION

'A NEW APPROACH TO THE MANAGEMENT OF NEUROPATHIES AND PAIN FROM NEUROREHABILITATION'

SUPPLEMENTARY MATERIAL

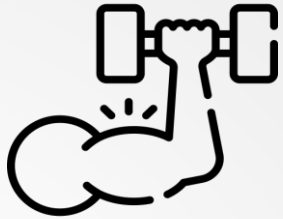
OBJETIVES

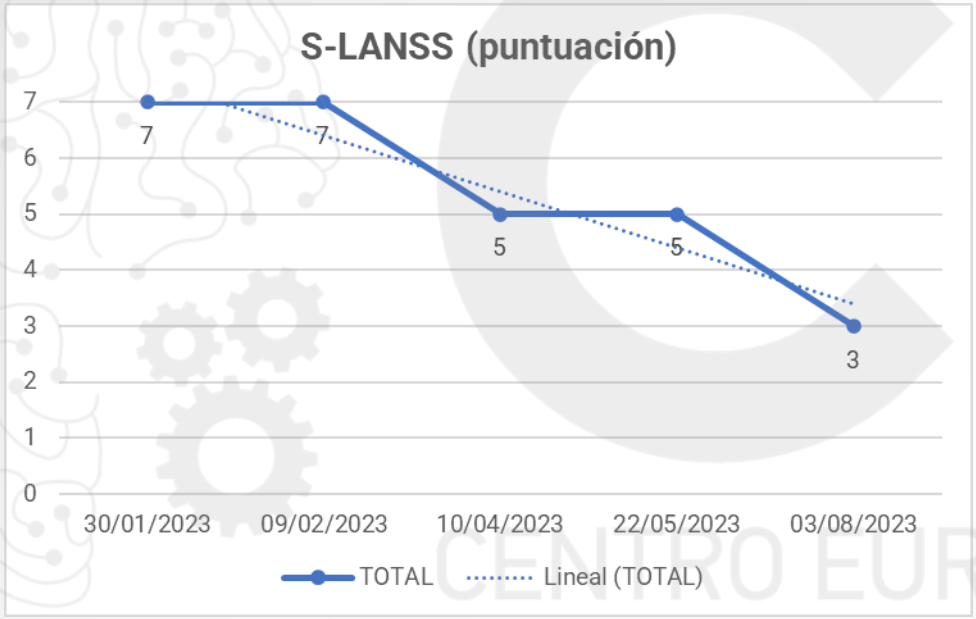
- Reduce neuropathic pain
- Increase shoulder stability and improve movement deficit
- Improve the mobility and strength of the left hand to be able to incorporate it into her ADLs

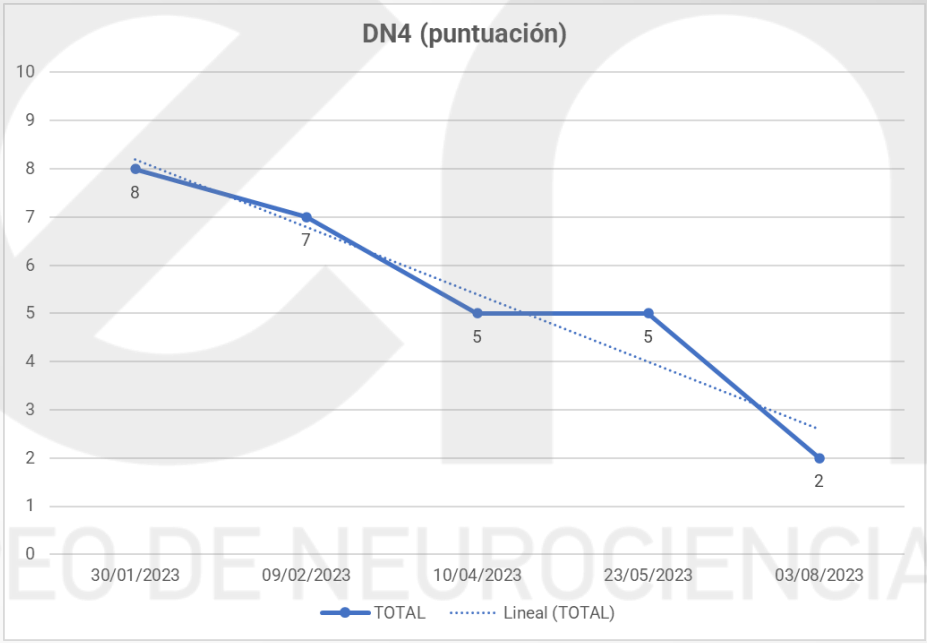
TREATMENT

- Pain management
- Strenght training
- Functional electrical stimulation
- sEMG biofeedback
- Bilateral training
- Advanced technology practice
- Task oriented practice
- Telerehabilitation

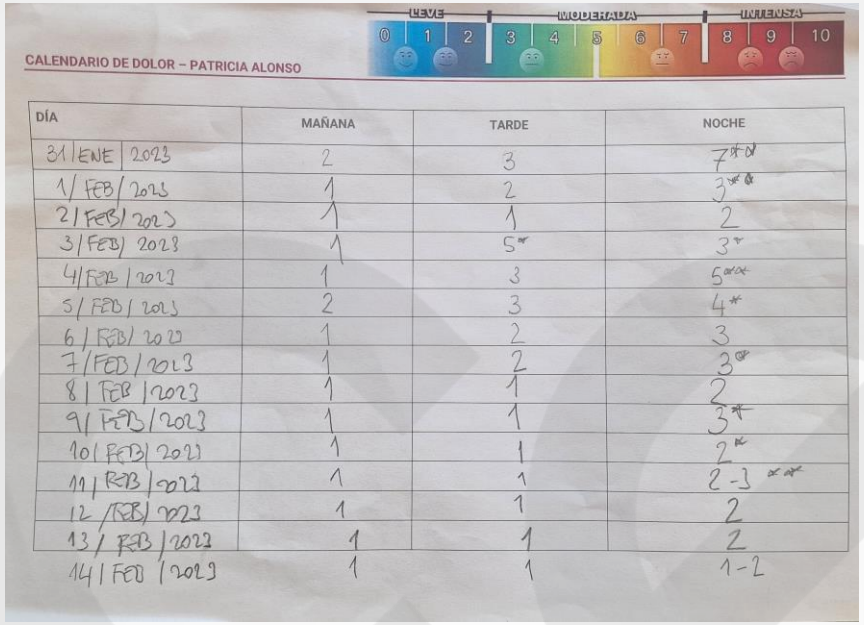
DEFICIT - NEUROPATHIC PAIN



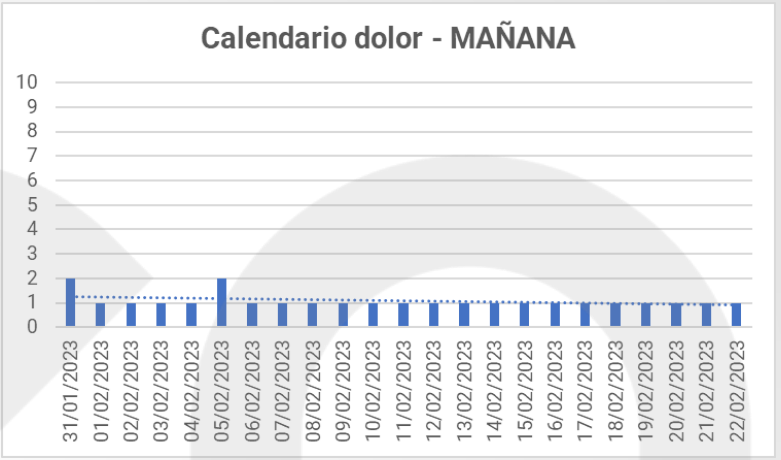


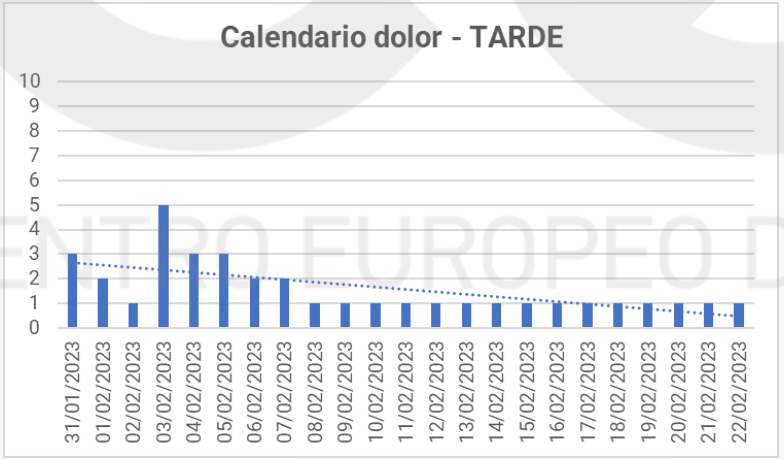


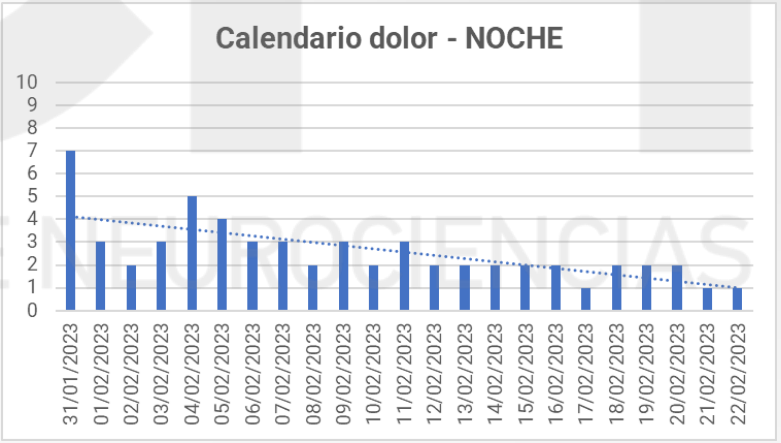
DEFICIT - CALENDAR OF PAIN



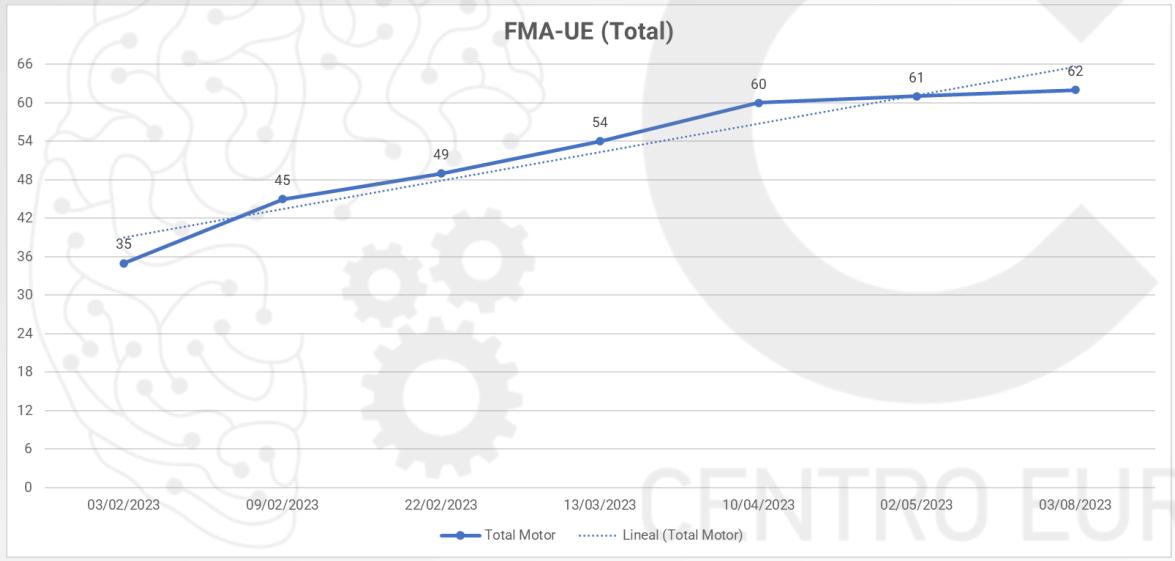
DÍA	MAÑANA	TARDE	NOCHE
31/ENE/2023	2	3	7
1/FEB/2023	1	2	3
2/FEB/2023	1	1	2
3/FEB/2023	1	5	3
4/FEB/2023	1	3	5
5/FEB/2023	2	3	4
6/FEB/2023	1	2	3
7/FEB/2023	1	2	3
8/FEB/2023	1	1	2
9/FEB/2023	1	1	3
10/FEB/2023	1	1	2
11/FEB/2023	1	1	2-3
12/FEB/2023	1	1	2
13/FEB/2023	1	1	2
14/FEB/2023	1	1	1-2

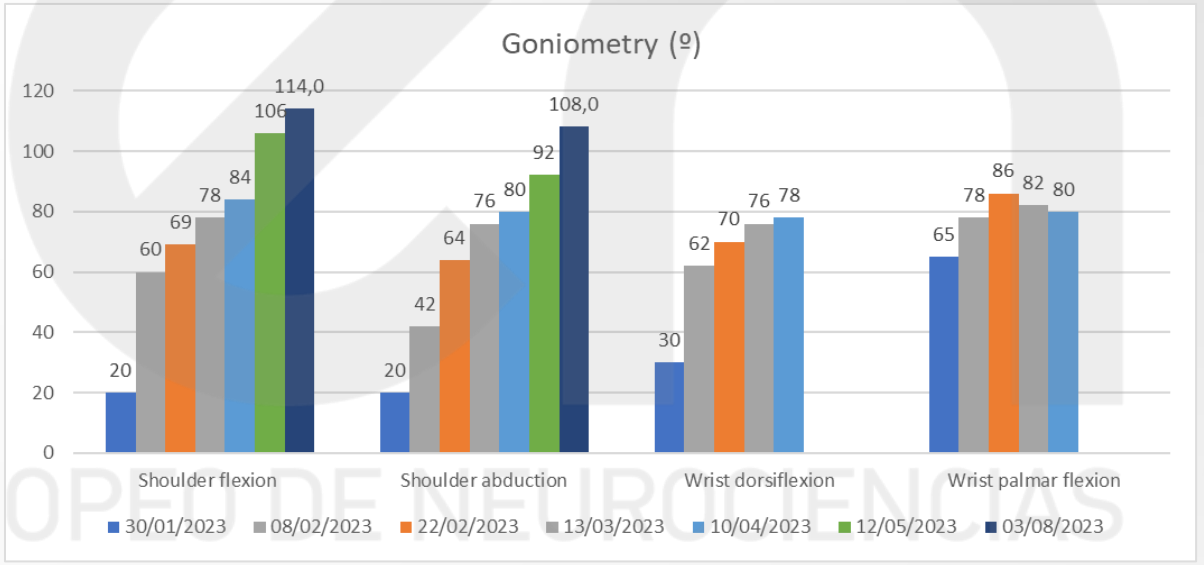




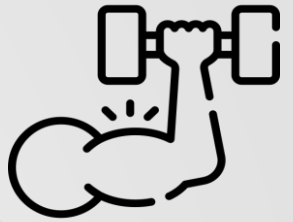


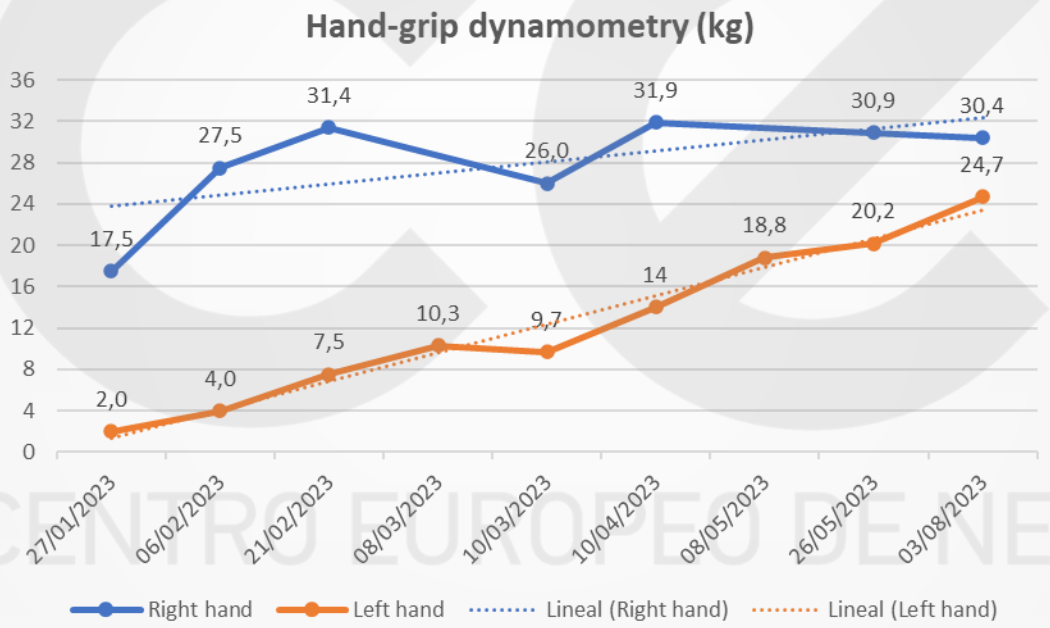
DEFICIT – MOBILITY, STRENGTH AND COORDINATION



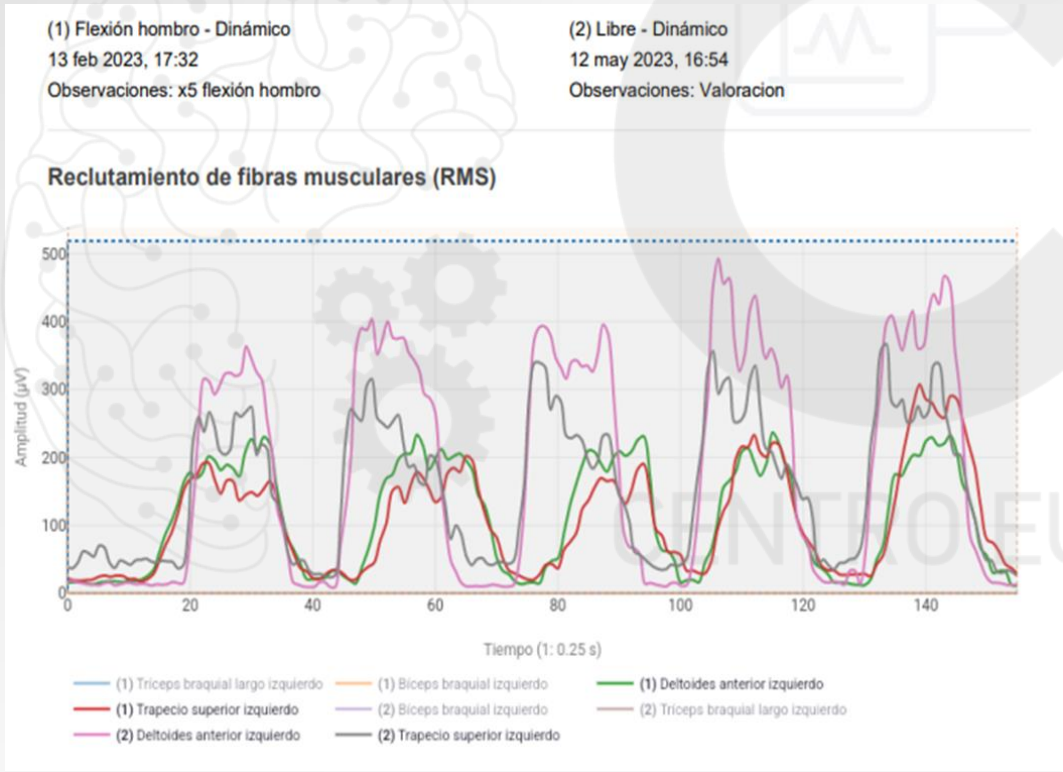


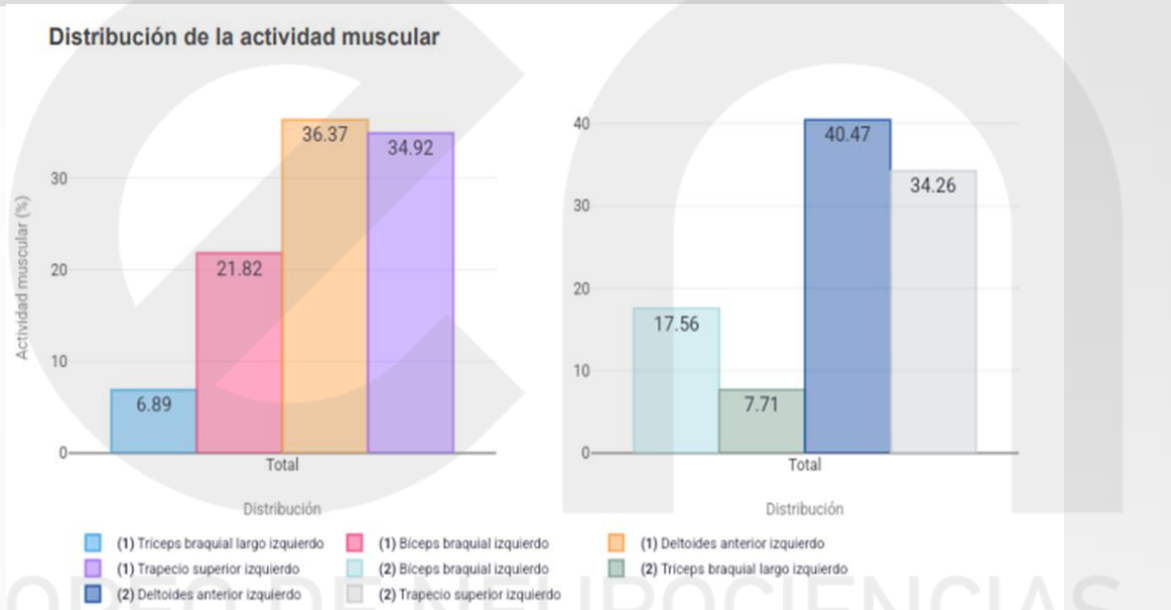
DEFICIT – MOBILITY, STRENGTH AND COORDINATION





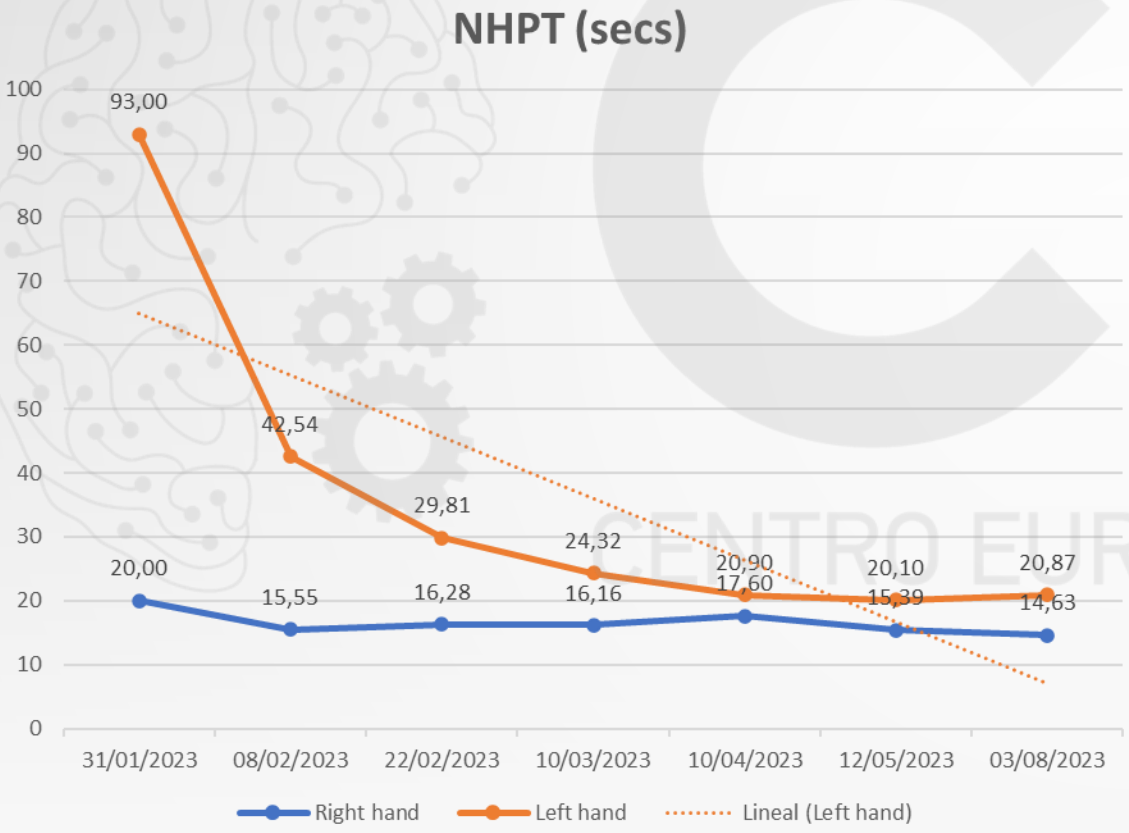
DEFICIT – MUSCLE ACTIVATION IN SHOULDER FLEXION

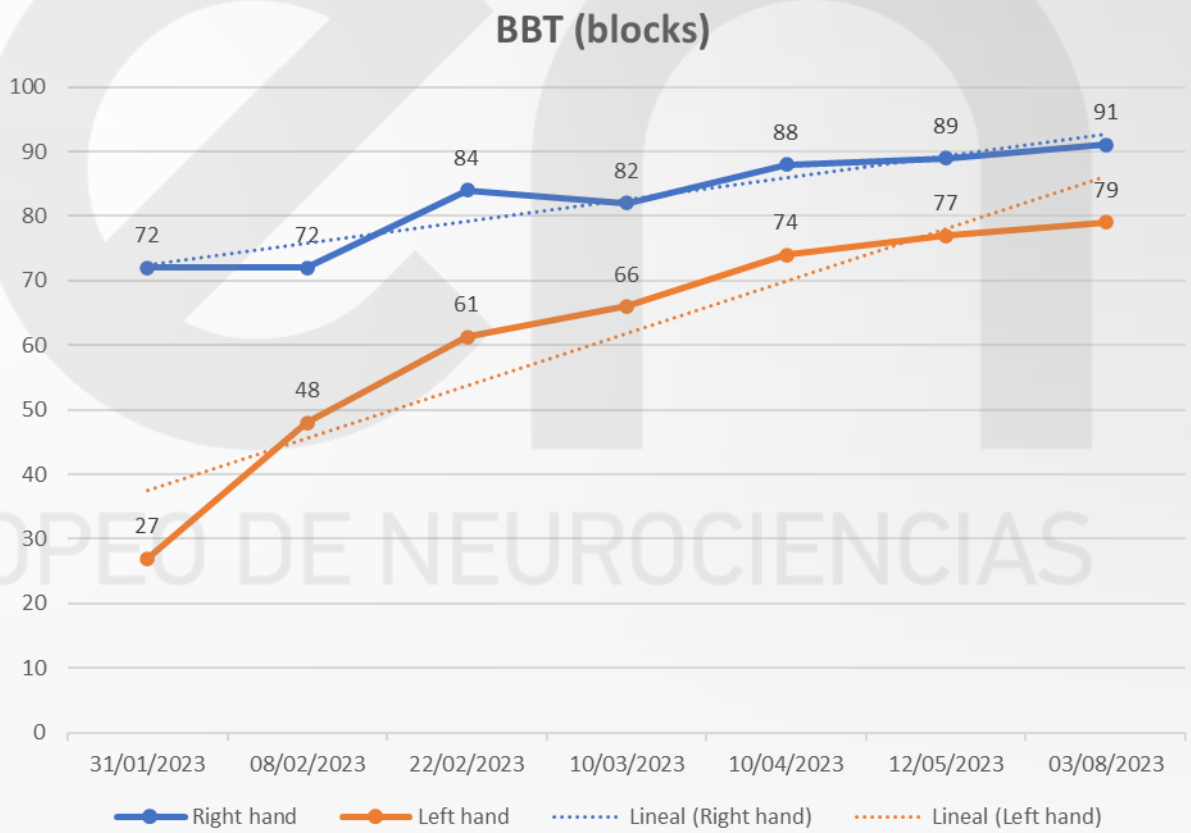




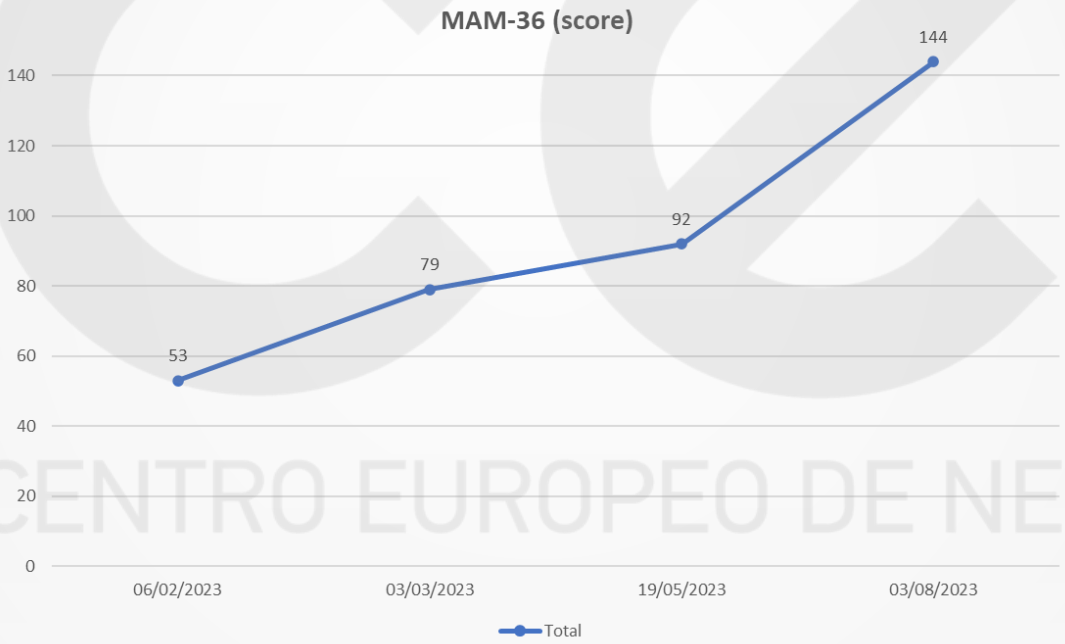
Selección	RMS medio	RMS medio por segundo	Máx. contracción tramo	Máx.contracción referencia
(1) Tríceps braquial largo izquierdo	21.31 µV	0.55 µV/s	50.97 µV	50.97 µV
(1) Bíceps braquial izquierdo	67.49 µV	1.73 µV/s	159.31 µV	159.31 µV
(1) Deltoides anterior izquierdo	112.49 µV	2.88 µV/s	236.72 µV	236.72 µV
(1) Trapecio superior izquierdo	108.01 µV	2.77 µV/s	307.48 µV	307.48 µV
(2) Bíceps braquial izquierdo	78.87 µV	1.68 µV/s	214.91 µV	159.31 µV
(2) Tríceps braquial largo izquierdo	34.62 µV	0.74 µV/s	72.68 µV	50.97 µV
(2) Deltoides anterior izquierdo	181.78 µV	3.87 µV/s	492.57 µV	236.72 µV
(2) Trapecio superior izquierdo	153.90 µV	3.27 µV/s	366.41 µV	307.48 µV

ACTIVITY





ACTIVITY

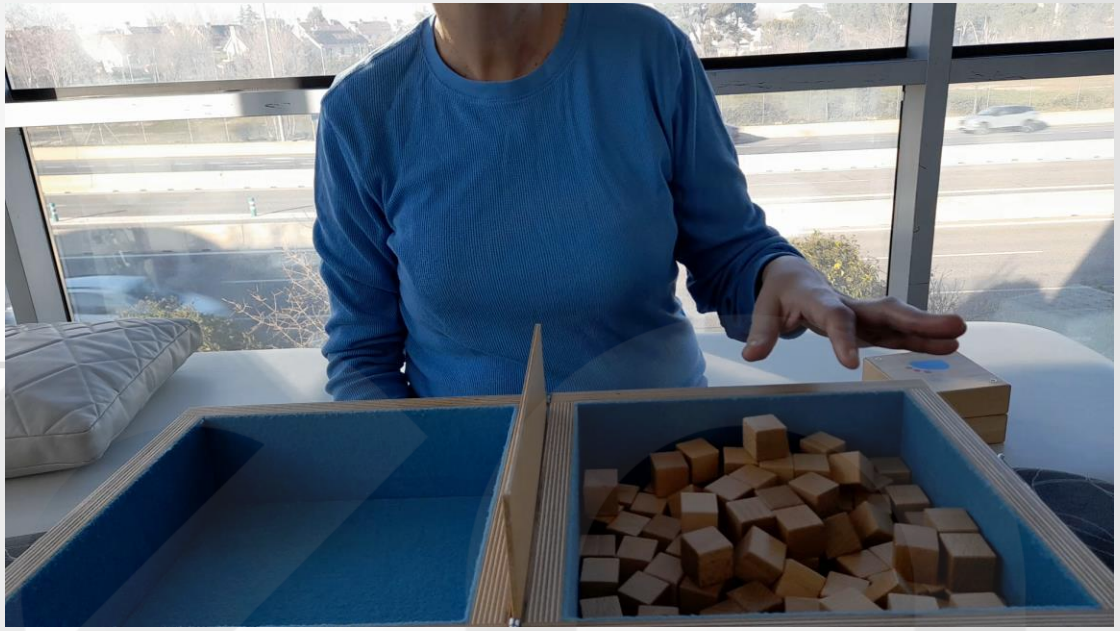


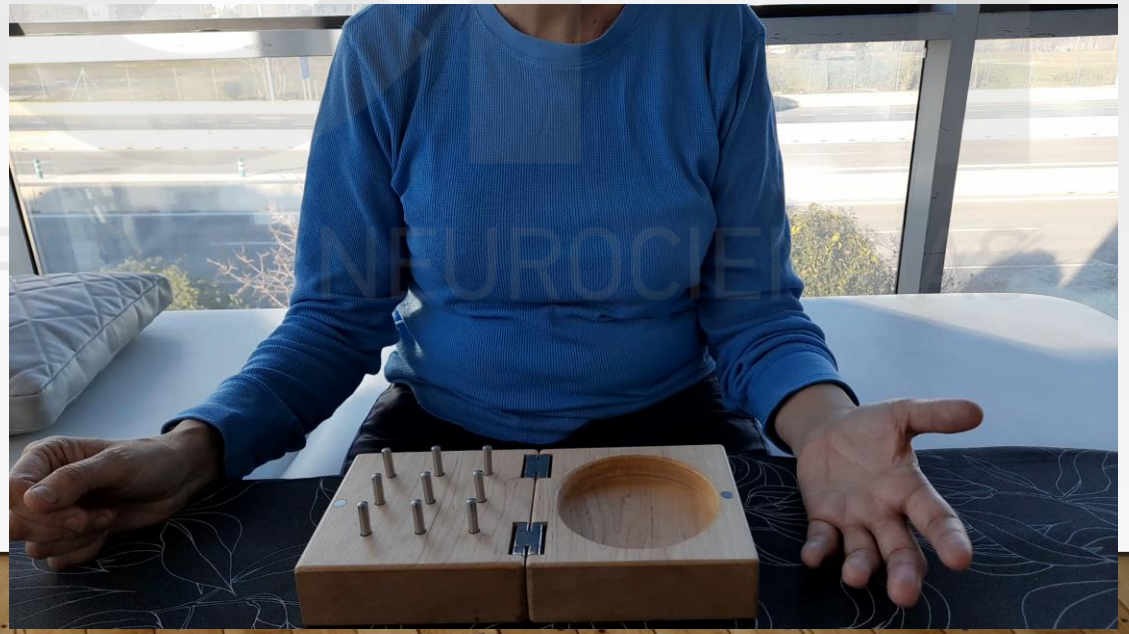
PARTICIPATION - GOAL ATTAINMENT SCALE

Level of Expected OUTCOME 3 months after the course	Rating
MUCH *MORE* Than EXPECTED	+2
MORE than EXPECTED	+1
EXPECTED Outcome	0
LESS than EXPECTED	-1
MUCH *LESS* Than EXPECTED	-2

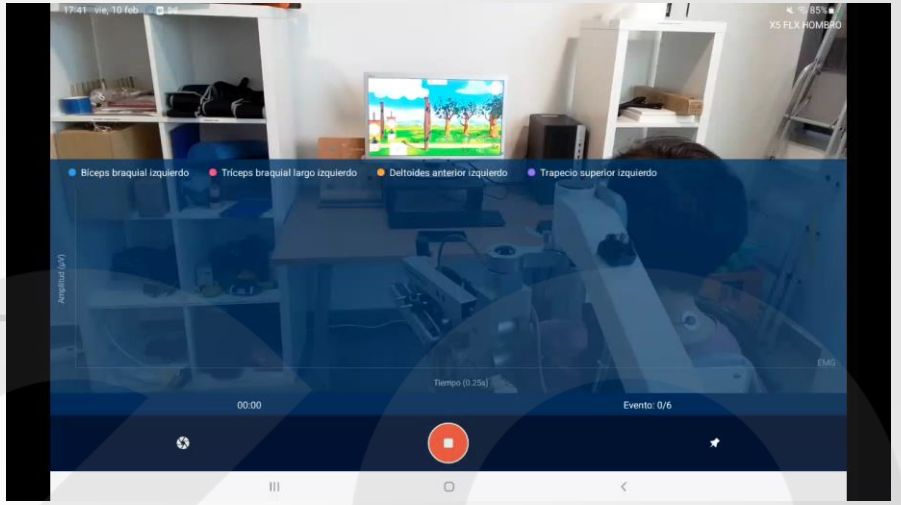
Goal Attainment Scale	-2 MUCH LESS than EXPECTED	-1 LESS than EXPECTED	0 EXPECTED	+1 MORE than EXPECTED	**+2 MUCH MORE than EXPECTED**
Work	Not return to work	Part time return to work	Adaptated job		**Fully return to work with no adaptations**
Hobbies (Photography, crafting)	Not return to hobbies	Return with assitance of another person	Adaptated	No adaptations	**Fully return to hobbies with no adaptations**
Driving	Not be able to drive		Drive short distances		**Drive long distances without limitations**

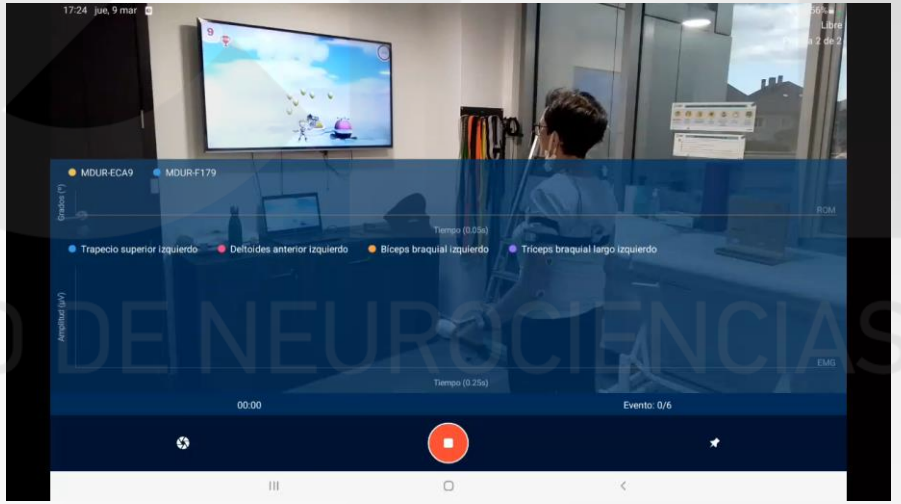
BASELINE



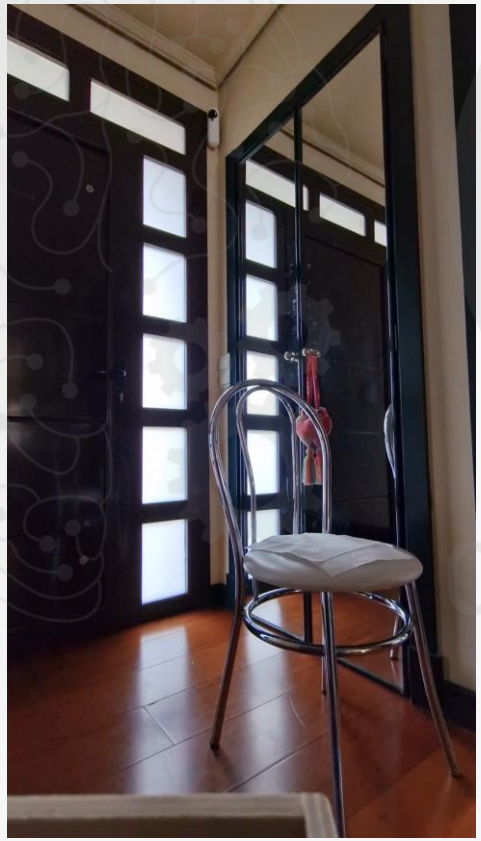


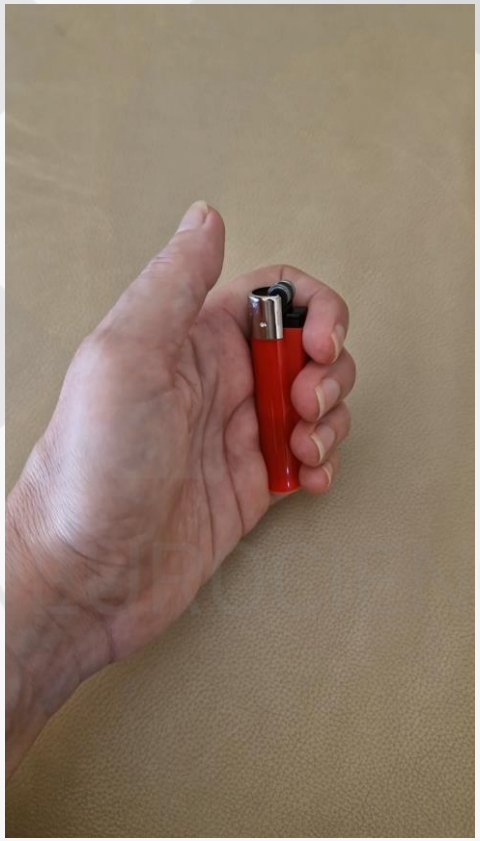
TREATMENT


Biceps braquial izquierdo
Triceps braquial largo izquierdo
Deltoides anterior izquierdo
Trapecio superior izquierdo
00:00
Evento: 0/6

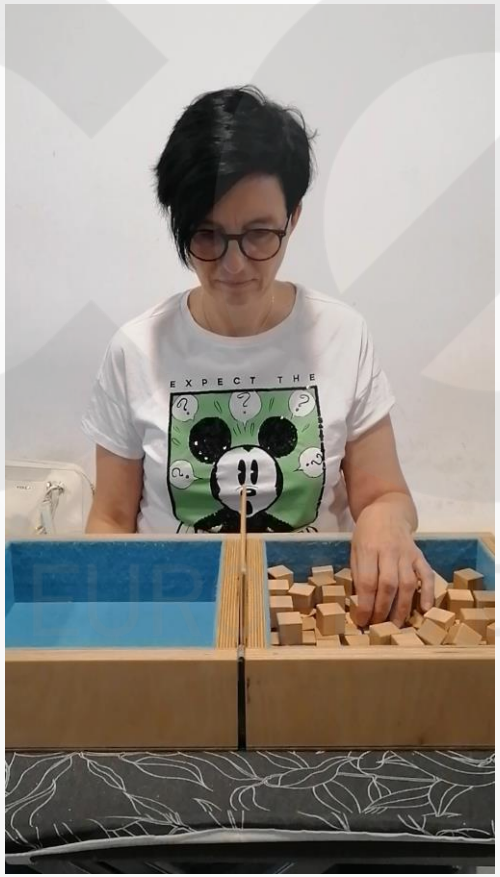

MDUR-ECA9
MDUR-F179
Trapecio superior izquierdo
Deltoides anterior izquierdo
Biceps braquial izquierdo
Triceps braquial largo izquierdo
00:00
Evento: 0/6

TREATMENT





POST TREATMENT



MORE INFORMATION

- Video - https://www.youtube.com/watch?app=desktop&v=HaE5zHuK13Q
- Radio interview - https://www.cope.es/actualidad/sociedad/noticias/cada-adultos-viven-con-dolor-que-cronico-para-tercio-ellos-20230412_2651947
- Digital newspaper video - https://www.vozpopuli.com/sanidad/neurologia-amputar-brazo-recuperar-vida.html
- CEN neuropathic pain post - https://www.eneurocenter.com/tratamiento-del-dolor-neuropatico/

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SUPPLEMENTARY MATERIAL