Supplemental Figure 1

Survey on the use of telemedicine in NMD in Europe during COVID-19 pandemic

For

Medical Doctors

Since the COVID-19 pandemic, telemedicine has been used widely in Europe and has benefited a large number of patients, but little is known about the overall development of telemedicine in the field of Neuromuscular Disease (NMD) in Europe.

Therefore, we elaborated a survey that will allow us collect data on the use of telemedicine in the field of NMD in Europe in the context of COVID-19 pandemic.

Directions:

- 1. Please read carefully the definition of telemedicine (page 2)
- 2. Please write down the date and your initials (begin with the letter of your last name)
- 3. Please answer the questions of the survey (pages 3-10).

Thank you for taking part in our survey!



Definition of Telemedicine

Telemedicine (TM) is a clinical application connecting a patient with specialized care clinicians by means of an electronic platform, potentially able to improve patients' self-management and allow for the care of patients with limited access to health services.

Telemedicine is declined in five acts (DGOS, 2012¹) that are listed below:

- <u>Tele-consultation</u> (allows a medical professional to consult a patient remotely via Communication Technologies for the purpose of providing diagnostic or therapeutic advice).
- <u>Tele-expertise</u> (practice in which a physician benefits from professional advices provided by other physicians via Information and Communication Technologies to improve a patient's clinical heath status). It can be achieved outside the presence of the patient.
- <u>Tele-monitoring (allows a medical professional to monitor and supervise a patient</u> remotely via ICTs).
- <u>Tele-assistance (it allows a medical professional to assist remotely another medical professional during an intervention via ICTs).</u>
- <u>Medical Response</u> (used to provide quick and efficient emergency services. The paramedics support the medical response of both air and ground ambulances).

¹ Technical Working Group/Information Systems, French Ministry of Employment, Labour and Health. Recommendations for theimplementation of a telemedicine project, Technical Deployment: Urbanization and infrastructure, March 2012.



Please fill out the date and your initials

Date:

Initials:

Thank you for answering the following questions (pages 3-13)

- Hospital/Clinical name (please specify the country where you work):
 - Name:_____
 - Country:_____
 - How long have you been working as HCPs?
 _____year(s)
- Please specify your main area of interest in NMD (multiple options are possible):

Muscle

- □ Nerve
- Motorneuron
- Neuromuscular junction
- Mitochondria

Please specify the total number of patients <u>annually</u> seen in your subspecialty (ies):

- 0-50_____
- 50-200_____
- 200-400_____
- 400-800_____
- >800
- Other, please specify_____
- I don't know_____



BEFORE COVID-19 PANDEMIC

Have you ever used telemedicine (TM) <u>before COVID-19 pandemic</u>?

🗌 No

If yes, please specify the types of telemedicine used (multiple options possible)

Teleconsultation	Tele-assistance
Consultation by phone	Tele-expertise
Tele-monitoring	Medical Responses

Please specify the <u>percentage and age category of patients</u> for the different types of telemedicine (Total has to be 100%):

In case of teleconsultations:

- ____% < 14
- _____% 14-18
- _____% 18-30
- ____% 30-40
- _____% 40-60
- ____% > 60

In case of consultations by phone:

- _____% < 14
- _____% 14-18
- _____% 18-30
- _____% 30-40
- _____% 40-60
- ____% > 60



In case of tele-monitoring:

- ____% < 14
- _____% 14-18
- _____% 18-30
- _____% 30-40 • _____% 40-60
- % +0-00
- In which context have you used TM? (possibility to tick multiple boxes and for each box, please specify the type of TM used)

For example: X Patient diagnosis: teleconsultation & consultation by phone
Patient diagnosis:
Therapy, therapeutic trial, home therapy:
Advices for Physical therapy:
Psychotherapy:
Patients general follow-up:
Other, specify:

How valuable is TM for the care of NMD patients in your institution

☐ Not at all	☐/ery important
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□ Somehow

how

Essential

Important

don't have any opinion

Please specify if teleconsultation is covered by healthcare insurance in your institution/country

Yes No Don't know



DURING COVID-19 PANDEMIC

Have you ever used TM <u>during COVID-19 pandemic</u>?

Yes
No

If yes, please specify the types of telemedicine used

Teleconsultation	Tele-assistance
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	Consultation by phone	⊡ Tele-expertise
—	Tala waanitanin a	

Tele-monitoring

iviedicai	Resp	onses	

If yes, please specify the <u>percentage and age category of patients</u> (Total has to be 100%):

In case of teleconsultations:

- ____% <14
- _____% 14-18
- _____% 18-30
- _____% 30-40
- _____% 40-60
- ____%>60

In case of consultations by phone:

- ____% < 14
- _____% 14-18
- _____% 18-30



•	% 30-40
•	% 40-60
•	% > 60

In case of tele-monitoring:

•	% < 14
•	% 14-18
•	% 18-30
•	% 30-40
•	% 40-60
•	% > 60

In which context have you used TM? (possibility to tick multiple boxes and for each choice, please specify the type of TM used i.e teleconsultation, telemonitoring or consultation by phone)

🗌 Di	iagnosis
🗌 Th	nerapy
🗌 CI	linical trial
🗌 Ho	ome therapy
🗌 Re	eferral for physical therapy
	appropriate (in case of mental health issues) referral to iatrist/psychologist or social worker
🗌 Pa	atients' general follow-up
□ V	Vorsening of NMD disease with COVID-19 infection
	ther, specify

What percentage of NMD patients have you seen in TM for diagnosis, treatment or other management issues due to COVID-19? For each choice, please specify the type of TM used



1 to 25%	
25 to 50%	
☐ 50 to 75%	
□ 75 to 100%	
☐ Other, please specify _	
☐ I don't know	

How valuable is TM for the care of NMD patients during COVID-19 pandemic?

- ☐ Not at all
- □ Somehow
- Important
- □ Very important
- ☐ Essential
- □ I don't have any opinion
- Please specify if teleconsultation is covered by healthcare insurance in your institution/country
 - ☐ Yes
 ☐ No
 ☐ I don't know
- If you have used teleconsultation or telemonitoring on a regular basis with your patients (before or during COVID-19 pandemic), please answer the following questions:



TECHNICAL FEASABILITY:

• Was the delay of the connection to TM platform acceptable?

YES	NO

Were there any bugs that prevented the progress of teleconsultation?

YES	NO

• Was the image quality acceptable?

VEO	NO
YES	NO

• Was the sound quality acceptable?

YES	NO

Was the data transmission acceptable?

YES	NO
•	

ACCEPTABILITY:

I am satisfied with the patients follow up remotely via TM

Completely disagree

completely agree

1	2	3	4	5	6	7	8	9	10



Comments :

I have adopted this method of care for my patients on a regular basis.

Completely disagree completely ag									agree		
	1	2	3	4	5	6	7	8	9	10	

Comments :

If not on a regular basis, I will be happy to repeat this experience.

Complete	ly disagr	ee					C	complete	ly agree
1	2	3	4	5	6	7	8	9	10
Comment	S:								



QUALITY OF CARE:

• Compared to classical care, I felt to be more available for my patients while using TM.

Completely disagree completely age									ly agree		
	1	2	3	4	5	6	7	8	9	10	

Comments :

Since your last teleconsultation (or last telemonitoring), was there any type of emergency or hospitalization scheduled for your patient?

	YES	NO
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If yes, how many times:
Consultation:
Unscheduled hospitalization:
Admission to the emergency room:

Teleconsultation or telemonitoring allowed me to take care of my patient in an appropriate way.

Complet	Completely disagree completely agree									
1	2	3	4	5	6	7	8	9	10	
				<u> </u>					1	

Comments :



TM has a positive impact on patient care. Do you agree?

omplete	ly disagre	ee					(complete	ly agree
1	2	3	4	5	6	7	8	9	10
omment	is :								

ACCESSIBILITY:

Compared to routine/classical care, teleconsultation/telemonitoring is more convenient in terms of scheduling an appointment

Complete	ly disagr	ee			complet				
1	2	3	4	5	6	7	8	9	10
Comment	S :								



Compared to routine/classical care, teleconsultation/telemonitoring is more convenient in terms of workspace dedicated to consultation.

Completely disagree complete									ly agree
1	2	3	4	5	6	7	8	9	10

Comments :

Compared to routine/classical care, teleconsultation/telemonitoring allows me to be on time for the teleconsultations.

omplete	ly disagre		C	complete	ly agree				
1	2	3	4	5	6	7	8	9	10

Comments :

GLOBAL APPRECIATION:

I am generally satisfied with TM experience

Completely disagree									completely agree		
	1	2	3	4	5	6	7	8	9	10	

Comments



Please specify below what was the unmet need while using TM

Comments :

Thank you for your valuable participation to this survey!



Network Neuromuscular Diseases (ERN EURO-NMD)