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#### APPENDIX 1 - information letter

Frozen Shoulder: subject's perspective, feelings, and expectations

#### Dear Sir/Madam,

We are a research team from the Master's program in Musculoskeletal and Rheumatology Physiotherapy at the University of Molise. We are conducting a study focused on individuals with frozen shoulder (adhesive capsulitis).

## **Objective of the Project**

This survey aims to explore patients' beliefs about physiotherapy, including preferred therapies and explanations provided. We will also examine the psychological aspects of living with frozen shoulder, such as expectations, fears, priorities, needs, coping strategies during discouraging episodes, and the importance of the therapeutic relationship with the physiotherapist.

### **Participation Details**

To assist with our research, please complete the survey, which will take approximately 10-15 minutes. You can fill it out using your phone or computer, and you can withdraw at any time without any consequences.

### **Voluntary and Anonymous Participation**

Your participation is **VOLUNTARY** and **ANONYMOUS**. We will collect only brief demographic information at the beginning of the survey to understand the sample characteristics. Your individual responses will not be linked to your identity. There are no right or wrong answers; we are interested in your personal perspective.

## **Who Can Participate**

To participate, you must: a) Be diagnosed with frozen shoulder by a healthcare professional, b) Speak, read, and understand Italian.

The data collected will be used solely for scientific purposes to improve the management of frozen shoulder by physiotherapists.

#### **Submission Instructions**

After completing the survey, click "submit" to send your answers. If you do not submit on the final page, your responses will not be recorded.

#### **Contact Information**

For any questions or further information, please contact our research team at fabrizio.brindisino@unimol.it.

## Consent

Do you voluntarily agree to participate in this study? By clicking the "OK" button, you confirm your consent.

Mark only one option:

- o Yes, I want to be directed to the questionnaire
- o No, Thanks

Thank you for your collaboration.

# Appendix 2 – THE SURVEY

	Frozen Shoulder: subject's perspective, feelings, and expectations
Demo	graphics data
1.	Participant's e-mail
2. Do	you want to complete the survey?
	O Yes O No
3.	Gender
	O Male O Female
4.	Italian Region of provenience
	O Northern Italy O Central Italy O Southern Italy
5.	Age
	$O \le 39$ years old O 40 - 50 years old O 51 - 60 years old O 61 - 65 years old $O \ge 66$ years old
6.	Educational level
	O Elementary school O Middle school O High school

# 7. Work type

O University Degree

O Mainly inactive (most of the time spent in the same position)

	O Mainly dynamic (most of the time spent during different activities/often changing position)		
8.	. For how long have you been experiencing frozen shoulder?		
	O Less than a month or a month O More than a month and less than 3 months O 3 months or less than 5 months O More than 5 months		
9.	How many doctors examined you before you were diagnosed with frozen shoulder?		
	O 1 O 2 O 3 O > 3		
10.	On a scale from 0 to 10, where 0 means no pain and 10 means the worst pain you have ever felt, how would you rate your DAY-TIME pain?		
	O 0 no pain O 1 O 2 O 3 O 4 O 5 O 6 O 7 O 8 O 9 O 10 worst pain ever		
11.	On a scale from 0 to 10, where 0 means no pain and 10 means the worst pain you have ever felt, how would you rate your NIGHT-TIME pain? $^{\star}$		
	O 0 no pain O 1 O 2 O 3 O 4 O 5 O 6 O 7 O 8 O 9 O 10 worst pain ever		
12.	On a scale from 0 to 10, where 0 means no stiffness and 10 means the worst stiffness		

imaginable, how would you rate your STIFFNESS? \*

16. In your opinion, what is the most important factor for your physiotherapist to consider?

and treating the frozen shoulder.

O I prefer a straightforward approach where the physiotherapist focuses solely on assessing

O Functional outcomes (range of movement, pain, stiffness) about frozen shoulder O Both functional and psychological (fear, worry, anxiety, anger, no confidence) aspects of frozen shoulder O More psychological aspect than anatomical one O More anatomical aspect than psychological one
<ul> <li>17. How did clinicians explain the development of your frozen shoulder?</li> <li>O I received a satisfactory explanation about my condition, but no mention of phases.</li> <li>O They provided a detailed explanation, including the two phases of frozen shoulder, timing, and therapies.</li> <li>O They provided a detailed explanation, including the three phases of frozen shoulder, timing, and therapies.</li> <li>O They gave a brief explanation, including the two phases of frozen shoulder, timing, and therapies.</li> <li>O They gave a brief explanation, including the three phases of frozen shoulder, timing, and therapies.</li> <li>O I did not receive a clear explanation about my condition.</li> <li>O Different clinicians told me different explanations</li> </ul>
How much do you agree with the following sentences:  18. I was not informed about my pathology
O I totally agree O I agree O Neither agree nor disagree O I disagree O I totally disagree
<ul> <li>19. I received unhelpful explanations that did not improve my ability to manage my condition.</li> <li>O I totally agree</li> <li>O I agree</li> <li>O Neither agree nor disagree</li> <li>O I disagree</li> <li>O I totally disagree</li> </ul>
20. I received explanations that increase my anxiety and they worried me about the potential for recovery failure.
O I totally agree
O I agree
O Neither agree nor disagree
O I disagree

	O I totally disagree
21.	I received explanations that helped me cope with discouragement, reassured me, encouraged me, and allowed me to manage pessimistic thoughts about my condition.
	O I totally agree
	O I agree
	O Neither agree nor disagree
	O I disagree
	O I totally disagree
	22. I received encouraging explanations that reduced my fear of movement as much as possible.
	O I totally agree O I agree O Neither agree nor disagree O I disagree O I totally disagree
	23. Who do you believe is best equipped to manage your frozen shoulder?
	O Physiotherapist
	O Medical doctor (orthopedic, general practitioner)
	O Psychologist
	O Medical doctor expert in pain management (algologist)
	O All aforementioned professionals when their expertise is needed
То	what extent do you agree with the following statements:
	24. If I put all my efforts into physiotherapy, I am confident I will fully recover from frozen shoulder
	O I totally agree
	O I agree
	O Neither agree nor disagree
	O I disagree
	O I totally disagree

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	condition
	O I totally agree
	O I agree
	O Neither agree nor disagree
	O I disagree
	O I totally disagree
	26. If I put all my efforts in physiotherapy treatment, I will improve my situation even if don't achieve a complete recovery.
	O I totally agree
	O I agree
	O Neither agree nor disagree
	O I disagree
	O I totally disagree
Н	low much is important for you to achieve these results?
	27. Manage DAY-TIME pain
	O Not important at all
	O Unimportant
	O Neutral
	O Important
	O Very important
	28. Manage NIGHT pain
	O Not important at all
	O Unimportant
	O Neutral
	O Important
	O Very important

29. Restore the full range of movement		
O Not important at all		
O Unimportant		
O Neutral		
O Important		
O Very important		
30. Improve sleep quality		
O Not important at all		
O Unimportant		
O Neutral		
O Important		
O Very important		
31. Improve autonomy in activities of daily living (showering, getting dressed, driving etc)		
O Not important at all		
O Unimportant		
O Neutral		
O Important		
O Very important		
32. Improve occupational, leisure and social activities		
O Not important at all		
O Unimportant		
O Neutral		
O Important		

O Very much

clinical condition?
O Not important at all
O Unimportant
O Neutral
O Important
O Very important
hich of these following sentences better describes your mood about frozen noulder/adhesive capsulitis?
34. I'm feeling angry
O Not at all
O A little
O Moderately
O A lot
O Very much
35. I'm feeling sad/overcome
O Not at all
O A little
O Moderately
O A lot
O Very much
36. I'm feeling blue/low mood
O Not at all
O A little
O Moderately
O A lot

	37. I'm feeling powerless
	O Not at all
	O A little
	O Moderately
	O A lot
	O Very much
	38. I feel like I can react
	O Not at all
	O A little
	O Moderately
	O A lot
	O Very much
Н	ow many times, <u>BEFORE</u> the onset of frozen shoulder/adhesive capsulitis, did you feel
	39. Angry
	O Never
	O Rarely O Sometimes
	O Often
	O Always  40. Sad/overcome
	40. Gad/overcome
	O Never
	O Rarely
	O Sometimes
	O Often
	O Always
	41. Blue/low mood
	O Never
	O Rarely

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O Sometimes		
O Often		
O Always		
42. Powerless		
O Never		
O Rarely		
O Sometimes		
O Often		
O Always		
How much do you agree with the following sentences?		
43. I'm afraid that moving my shoulder will make my condition worse.		
O I totally agree		
O I agree		
O Neither agree nor disagree		
O I disagree		
O I totally disagree		
44. I fear that frozen shoulder will cause irreversible damage to my shoulder		
O I totally agree		
O I agree		
O Neither agree nor disagree		
O I disagree		
O I totally disagree		
45. I fear I will never be able to return to my previous activities.		
O I totally agree		
O I agree		
O Neither agree nor disagree		

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	O I disagree		
	O I totally disagree		
	How often have you had these thoughts?		
	46. I will never raise my arm as I used to do before		
	O Never		
	O Rarely		
	O Sometimes		
	O Often		
	O Always		
	47. Pain is terrible and it will never end		
	O Never		
	O Rarely		
	O Sometimes		
	O Often		
	O Always		
	48. All I do to heal is useless		
	O Never		
	O Rarely		
	O Sometimes		
	O Often		
	O Always		
	49. My life is ruined		
	O Never		
	O Rarely		
	O Sometimes		
	O Often		

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	O Always		
	50. I'm feeling overwhelmed by this condition		
	O Never		
	O Rarely		
	O Sometimes		
	O Often		
	O Always		
	51. I'm worried because I know this is a long-term pathology		
	O Never		
	O Rarely		
	O Sometimes		
	O Often		
	O Always		
	52. If you have experienced moments of demoralization or discouragement about your situation, how did you manage them?		
	O I have never had moments of demoralization/discouragement		
	O I felt abandoned and unable to manage those moments		
	O I have taken the initiative to call a psychologist		
	O I asked for advice to a clinician. He/she listened to me		
	O I asked for advice to a clinician. He/she did not listen to me		
	O I let off steam with a loved one		
	O I didn't share my discomfort with anyone		
	53. How well do you think people around you understand the seriousness of your situation? Are they supporting you in managing pathology?		
	O Not at all		
	O A little		
	O Moderately O A lot		

O Very much

	How much do	ou agree with the	following sentences?
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54. Other people fully understand my condition and they support me
O I totally agree
O I agree
O Neither agree nor disagree
O I disagree
O I totally disagree
55. Other people fully understand my condition, but they don't support me as I wish
O I totally agree
O I agree
O Neither agree nor disagree
O I disagree
O I totally disagree
56. Nobody really understands my situation
O I totally agree
O I agree
O Neither agree nor disagree
O I disagree
O I totally disagree
57. I don't feel supported at all
O I totally agree
O I agree
O Neither agree nor disagree
O I disagree
O I totally disagree

method would you prefer to remember how to perform them?	
O Video with a phone and text messages	
O Booklet	
O Draw made by your physiotherapist	
O No one preferred	
59. Which additional therapy would you prefer to combine with physiotherapy to bett manage your painful phase?	te
O Therapeutic modalities (laser, diathermy, transcutaneous electrical nerve stimulation shockwave therapy)	on
O Cortisone (oral or injection)	
O Massage	
O Non-steroidal anti-inflammatory drugs	
O No one preferred	

58. If clinicians provide you with home exercises during the rehabilitation process, which