

*SUPPLEMENTARY MATERIAL*

**A qualitative study of Patient-Reported Outcome Measures in  
orthopaedics**

**CONTENTS**

Supplementary material I: PATOS as presented to patients during completion

Supplementary material II: PATOS overview as presented to surgeons

Supplementary material III: Interview guides

**Supplementary material I:** Screenshots of The Patient Activity Treatment Outcome Scale (PATOS) as presented to patients during completion. It should be noted that the English version presented has undergone a brief translation from Danish to English by the authors solely for illustrative purposes of the patients' view. The English version provided below has not undergone validation.

## What activities are you having difficulty performing because of your health?

Think about what you do in your daily life. Write down the **activities** you are having difficulty performing due to your health. It can be:

- activities that you can not perform as you would like
- activities that cause pain or discomfort

We have divided everyday **activities** into 3 areas "Yourself", "Work and duties", and "Leisure". As an aid, we have provided examples of activities within each area. You can write **one** activity in each field (eg "Sleep", "Take a bath", "Travel on vacation").

### Yourself

**Taking care of oneself, Getting around and participating** (Eg "Sleeping", "Taking a bath", "Walking on stairs", "Driving a car")

You can write **one** activity in each field.

1. activity (yourself)

Required

2. activity (yourself)

3. activity (yourself)

## Work and duties

**Working, Taking care of other duties** ("Taking care of my work", "Getting on the tractor/truck", "Cleaning", "Taking care of grandchildren")

You can write **one** activity in each field.

1. activity (work/duties)

Required

Hiking (my hobby)

2. activity (work/duties)

3. activity (work/duties)

## Leisure

**Participating in sports and cultural activities, Participating in social activities** ("Playing tennis", "Going to an art museum", "Traveling on holiday", "Throw a birthday party")

You can write **one** activity in each field.

1. activity (leisure time)

Required

Sitting at the desk at work

2. activity (leisure time)

3. activity (leisure time)

# How important are the activities to you?

Mark on a scale of 1-10 how important each activity is. Think about what it means for your daily life / quality of life.

**1** means that activity is **NOT important**.

**10** means that activity is **very important**.

## Yourself

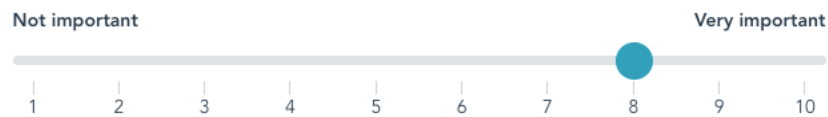
Driving a car

Please place a marker on the line



Walking on stairs

Please place a marker on the line



## Work and duties

Hiking (my hobby)

Please place a marker on the line



## Leisure

Sitting at the desk at work

Please place a marker on the line



## What activities should the treatment focus on?

Which activities do you want the treatment to focus on improving:

Select maximum 3 option(s)

- Driving a car
- Walking on stairs
- Hiking (my hobby)
- Sitting at the desk at work

## How do you carry out the activities??

The activities you selected are listed below.

On a scale of 1-10, indicate **how to perform the activity today**.

**1** means I **can not** perform the activity

**10** means I **perform** the activity completely **normally**

### Yourself

Driving a car

Please place a marker on the line



### Work and duties

Hiking (my hobby)

Please place a marker on the line



### Leisure

Sitting at the desk at work

Please place a marker on the line



# Do you have pain or discomfort when performing the activities?

The activities you selected are again listed below.

On a scale of 1-10, indicate whether **you can perform the activities without experiencing pain or discomfort.**

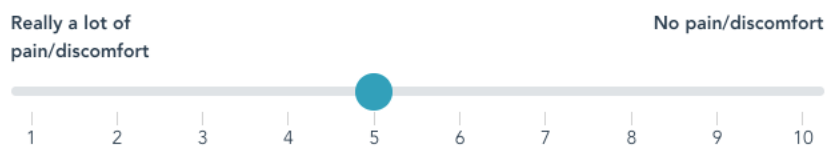
**1** means you have **a lot of pain / discomfort** when performing the activity

**10** means you have **no pain / discomfort** when performing the activity

## Yourself

Driving a car

Please place a marker on the line



## Work and duties

Hiking (my hobby)

Please place a marker on the line



## Leisure

Sitting at the desk at work

Please place a marker on the line



**Supplementary material II:** Screenshots of PROMs overviews for individual patients, including PATOS, are presented to surgeons after patients have completed PROMs. PROMs are accessible to surgeons through the electronic database provided in the Procordo Software. Surgeons also utilize Procordo for mandatory reporting of pre- and perioperative data, which is stored in Procordo and automatically transmitted to the national registries: The Danish Knee Arthroplasty Register and The Danish Hip Arthroplasty Register. Surgeons concurrently use the Procordo software alongside the electronic medical record system.

Patientstatus	
Patientstatus	
Question	03.05.2024
PATOS <b>Which activities do you want the treatment to focus on improving:</b>	Drive a car Sitting at the desk at work Hiking (my hobby)
score-118: Oxford Knee Score <b>(Problems with your knee (0 worst - 48 best))</b>	13
score-162: EQ-5D VAS <b>Your health today (0 worst - 100 best)</b>	50
score-168: UCLA Activity Scale <b>Activity level (1 low - 10 high)</b>	3
score-200: PCS painscore <b>Thoughts and feelings when you have pain (0 not at all - 52 all the time)</b>	21



**Supplementary material III:** The interview guides used for individual interviews with patients and surgeons. The interview guides were translated into English for publication purposes.

<b>INTERVIEWGUIDE - Patients</b>			
<b>Aim</b>	To investigate the patients' experiences with the use of PATOS in the outpatient clinic.		
<b>Introduction</b>	Inform the participant about the project and the research question: This interview aims to investigate user perspectives on PATOS in a clinical hospital setting. We are interested in how PATOS effects (or does not affect) the consultation and clinical practice for you as a patient.		
<b>About PATOS</b>	<p>Could you start by telling me a bit about the background of your trajectory and treatment in the orthopedic surgery department?</p> <p>What does patient-involvement mean to you? What are your expectations for involvement during your treatment in the orthopedic surgery department?</p> <p>You received the PATOS questionnaire before your appointment at the hospital. What are your thoughts on it? How was it to complete the questionnaire?</p> <p>How long time did it take you to complete the PATOS questionnaire? Was there anything difficult to complete/answer? What was easy to complete/answer?</p> <p>Did PATOS help you to specify or describe your situation? Did you get a chance to address what is most important to you through PATOS?</p> <p>Did you experience that the PATOS tool was mentioned and/or used during your consultation with the orthopedic surgeon?</p>		
	↓ Yes		
	↓ No		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>How was PATOS used or discussed during your consultation with the surgeon?</p> <p>Did you have any questions or comments during or after completing PATOS? Did you receive answers to those questions? Why or why not?</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Did you mention PATOS during your consultation with the surgeon? How?</p> <p>Did you have any questions or comments about PATOS? Were you allowed to address these?</p> <p>In your opinion, would it have been relevant to discuss your responses related to PATOS?</p> </td> </tr> </table>	<p>How was PATOS used or discussed during your consultation with the surgeon?</p> <p>Did you have any questions or comments during or after completing PATOS? Did you receive answers to those questions? Why or why not?</p>	<p>Did you mention PATOS during your consultation with the surgeon? How?</p> <p>Did you have any questions or comments about PATOS? Were you allowed to address these?</p> <p>In your opinion, would it have been relevant to discuss your responses related to PATOS?</p>
<p>How was PATOS used or discussed during your consultation with the surgeon?</p> <p>Did you have any questions or comments during or after completing PATOS? Did you receive answers to those questions? Why or why not?</p>	<p>Did you mention PATOS during your consultation with the surgeon? How?</p> <p>Did you have any questions or comments about PATOS? Were you allowed to address these?</p> <p>In your opinion, would it have been relevant to discuss your responses related to PATOS?</p>		
	<p>What do you think of the overall questionnaire package?</p> <p>Is PATOS a useful supplement to the existing collection of PROMs?</p> <p>Do you think PATOS could replace one or more of the other scales in the questionnaire package?</p> <p>Is there anything about PATOS that you wish were different?</p> <p>Is there anything else you would like to add?</p>		

<b>INTERVIEWGUIDE - Surgeons</b>		
<b>Aim</b>	To investigate the orthopedic surgeons' experiences with PATOS in clinical practice	
<b>Introduction</b>	Inform the participant about the project and the research question. This interview aims to investigate user perspectives on PATOS in clinical practice. We are interested in how PATOS effects (or does not affect) the consultation and clinical practice for you as a surgeon.	
<b>About PATOS</b>	Please tell me about how long you have worked in the department and what are your responsibilities? What does patient involvement or a person-centered approach mean to you? How/can PATOS support this? Do you use the PATOS tool in your consultations with patients after it has been introduced?	
	↓ Yes	↓ No
	How do you use PATOS related to: <ul style="list-style-type: none"> <li>• Your preparation for the consultation?</li> <li>• Your meeting with the patient?</li> <li>• Making decisions about treatment?</li> <li>• Other?</li> <li>• How much time do you spend reviewing the patient's PATOS response?</li> </ul> Does PATOS provide you with knowledge about the patient that you would not otherwise have? Is this knowledge relevant to the consultation with the patient?  Do you mention or discuss PATOS with the patients? Why/Why not?  What is difficult about using the PATOS tool? Is there anything that hinders or complicates its use?	Why do you not use PATOS?  Have you received training on how to use PATOS?  What barriers or worries do you have regarding the use of PATOS?  Do you think that the intentions behind the PATOS tool is relevant to your clinical practice with patients?  What could make PATOS more applicable for your meetings with patients in clinical practice?
	What do you think about the overall questionnaire/PROM package? Is PATOS a suitable supplement to the rest of the PROM battery? Do you think PATOS can replace one or more of the other scales in the questionnaire package? Is there anything about PATOS that you wish were different? Is there anything else you would like to add?	