## THE KNEE INJURY AND OSTEOARTHRITIS OUTCOME SCORE (KOOS)

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Pain				
P1. How often is your knee painful?	Never, monthly, weekly, daily, always			
What degree of pain have you experienced the last week w	vhen?			
P2. Twisting/pivoting on your knee	None, mild, moderate, severe, extreme			
P3. Straightening knee fully	None, mild, moderate, severe, extreme			
P4. Bending knee fully	None, mild, moderate, severe, extreme			
P5. Walking on flat surface	None, mild, moderate, severe, extreme			
P6. Going up or down stairs	None, mild, moderate, severe, extreme			
P7. At night while in bed	None, mild, moderate, severe, extreme			
P8. Sitting or lying	None, mild, moderate, severe, extreme			
P9. Standing upright	None, mild, moderate, severe, extreme			
Symptoms				
Sy1. How severe is your knee stiffness after first				
wakening in the morning?	None, mild, moderate, severe, extreme			
Sy2. How severe is your knee stiffness after sitting, lying, or resting later in the day?	None, mild, moderate, severe, extreme			
Sy3. Do you have swelling in your knee?	Never, rarely, sometimes, often, always			
Sy4. Do you feel grinding, hear clicking or any other type of noise when your knee moves?	Never, rarely, sometimes, often, always			
Sy5. Does your knee catch or hang up when moving?	Never, rarely, sometimes, often, always			
Sy6. Can you straighten your knee fully?	Always, often sometimes, rarely, never			
Sy7. Can you bend your knee fully?	Always, often sometimes, rarely, never			
Activities of daily living				
What difficulty have you experienced the last week?				
A1. Descending stairs	None, mild, moderate, severe, extreme			
A2. Ascending stairs	None, mild, moderate, severe, extreme			
A3. Rising from sitting	None, mild, moderate, severe, extreme			
A4. Standing	None, mild, moderate, severe, extreme			
A5. Bending to floor/pick up an object	None, mild, moderate, severe, extreme			
A6. Walking on flat surface	None, mild, moderate, severe, extreme			
A7. Getting in/out of car	None, mild, moderate, severe, extreme			
A8. Going shopping	None, mild, moderate, severe, extreme			
A9. Putting on socks/stockings	None, mild, moderate, severe, extreme			

A10. Rising from bed	None, mild, moderate, severe, extreme			
A11. Taking off socks/stockings	None, mild, moderate, severe, extreme			
A12. Lying in bed (turning over, maintaining knee position) None, mild, moderate, severe, extreme				
A13. Getting in/out of bath	None, mild, moderate, severe, extreme			
A14. Sitting	None, mild, moderate, severe, extreme			
A15. Getting on/off toilet	None, mild, moderate, severe, extreme			
A16. Heavy domestic duties (shoveling, scrubbing floors, etc.	None, mild, moderate, severe, extreme			
A17. Light domestic duties (cooking, dusting, etc.)	None, mild, moderate, severe, extreme			
Sport and recreation function				
What difficulty have you experienced the last week?				
Sp1. Squatting	None, mild, moderate, severe, extreme			
Sp2. Running	None, mild, moderate, severe, extreme			
Sp3. Jumping	None, mild, moderate, severe, extreme			
Sp4. Turning/twisting on your injured knee	None, mild, moderate, severe, extreme			
Sp5. Kneeling	None, mild, moderate, severe, extreme			
Knee-related quality of life				

## ee-related quality of life

Q1. How often are you aware of your knee problems? Never, monthly, weekly, daily, always

Q2. Have you modified your lifestyle to avoid potentially damaging activities to your knee? Not at all, mildly, moderately, severely, totally

Q3. How troubled are you with lack of confidence in your knee? Not at all, mildly, moderately, severely, extremely

Q4. In general, how much difficulty do you have with your knee? None, mild, moderate, severe, extreme

Scoring: Each item is scored 0 to 4 and the raw score for each section is the sum of item scores. Scores are then transformed to a 0 to 100 scale. A higher score indicates fewer problems.

Scale	Raw score	Transformed score	$MDC_{90}$
Pain	/36	100 - Actual raw score x 100	12 points
Symptoms	/28	Possible raw score range	8 points
ADL	/68	Example: a pain raw score of 16 would be transformed as follows:	10 points
Sport/Rec	/20	1 1	19 points
QOL	/16	$100 - \frac{(16 \times 100)}{} = 56$	13 points
		36	

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