



Incipient osteoarthritis Exercises to maintain joint function

Information sheets 2 Osteoarthritis of the knee

exercise 1

Strengthening the **auadriceps**

Why is this exercise useful?

- Strengthens the quadriceps muscles against their own resistance (self-resistance) and the hamstrings of the opposite leg.
- Improves the stability of the knee on an anteroposterior level and gives it better halance.

How do you do the exercise correctly?

- Sitting, thighs resting entirely on the chair.
- Place one ankle on top of the other.
- · Raise the leg underneath and oppose it with the one placed above it.

TIP Work on the area closest to the extension for the bottom leg.



DURATION OF EXERCISES

of five movements with a longer rest

exercise 2

Strengthening the abductors and the adductors

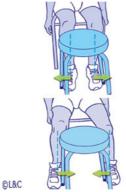
Why is this exercise useful?

 Strengthens the vastus lateralis and vastus medialis muscles (located inside and outside of the knee) which ensure the stability of the knee.

How do you do the exercise correctly?

- Sitting with a chair placed in front of you.
- Place your toes inside the legs of the chair and trying to push them outwards.
- Repeat the manoeuvre by placing your feet on the outside and pushing inwards.

• TTP Be careful not to move your knees.



Stretching movements: you can hold the position for

(about twice as long as the duration of the movement). We also recommend that you change position between

in order to relax the muscles that have just been working.

Strengthening movements: you can perform sets

exercises (from one foot to the other, for example)

several seconds (6-10), stopping if it becomes too painful.

exercise 3

quadriceps

Why is this exercise useful?

 Promotes stretching of the muscle at the front of the

This "spares" the patella and prevents pain when going down stairs.

How do you do the exercise correctly?

· Kneeling on one knee, move your foot towards your buttocks using your hand to help you.

Be careful not to bend over to grab your foot, it is preferable to use a strap.

TIP

Your upper body should remain straight.



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SOME SIMPLE RULES TO FOLLOW DURING THESE

- · Work at your own pace, calmly and steadily.
- · Breathe during the exercises.
- Do not force it and follow the pause time.
- · Gradually increase the number of sets.

Authors

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EXERCISES

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Stretching the

Proprioception

exercise 4

Why is this exercise useful?

 Tones and strengthens the knee.

The knee is a pivotal hinge joint which means it always has to adapt to changes both of the ground as well as the positions of the body. A toned knee strengthens and helps to spare the other joints (ankles, hips).

How do you do the exercise correctly?

- Stand on one foot, leg extended, swing your arms in all directions.
- Do the same thing with your knee flexed (less than 30°).

You can increase the difficulty by putting a cushion under vour foot.

