

Exercise
Interventions to
Improve Joint
Protection for
Individuals with
Osteoarthritis

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What is Osteoarthritis?

Osteoarthritis (OA) is a nonsystemic musculoskeletal condition that includes the progressive deterioration of articular cartilage and its underlying bone.

Before the age of 50 the prevalence of OA is higher in men than women, however, after the age of 50, it is higher in women.

What are Risk Factors of Osteoarthritis?

Decreased joint proprioception

Joint instability

Obesity

History of knee pain

Genetics

Gender

Age

Effects of Osteoarthritis

Physical disability

Need for assistance while walking

Chronic pain

Fatigue

Need for assistive equipment

Swelling of cartilage

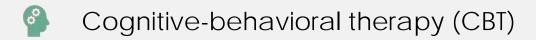
Stiffness

Decreased ROM

Interventions for OA







Educate the client on what OA is

Energy conservation

Diet management

How can CBT Improve OA?

- Cognitive-behavioral therapy (CBT) is an evidencebased psychological approach to self-management that can help people with chronic pain improve psychological and physical functioning and prevent disability.
- It involves not only education but also practice and monitoring of health behaviors, with a focus on physical activity, relaxation, and activity pacing.



Exercising Can Improve OA



Choosing an exercise that is easy on the joints can improve your OA pain, function, mood, and quality of life.



Activities include:



Biking



Walking



Swimming

Other Professions

- Physical Therapist: They use various treatments to prevent or reduce joint stiffness and restore muscle strength.
- ▶ Personal Trainer: Someone that can assist in exercises to prevent joint pain in the patient.
- Rheumatologist: Doctors who focus on conditions that affect the joints, muscles, and tissues.
- ▶ Yoga instructor: Yoga can help stretch out the joints if they are too tight.



How Can the Interventions Improve Occupational Engagement?

Reducing the pain in the patient can encourage them to participate in daily activities such as exercising, seeing friends and family, and cook.

The interventions I listed can also improve the patients' quality of life by changing their mood positively as well and decreasing the stress on their body.

Knee Exercises Video https://www.youtube.com/watch?v= RI3OkKIftsI

Resources



Arthritis Society: https://arthritis.ca/support-education/online-learning



Arthritis Foundation Program:

http://www.apta.org/uploadedFiles/APTAorg/Practice_ and_Patient_Care/Patient_Care/Arthritis/ArthritisFoundat ionExerciseProgram.pdf?utm_APTA



Walk With Ease Program

http://www.apta.org/uploadedFiles/APTAorg/Practice_and_Patient_Care/Patient_Care/Arthritis/WalkWithEase.pdf?utm_APTA

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