Independent Living Assistance Joint protection



What is joint protection?

Every day the body's joints (the connections between two or more bones) are put under stress and strain as daily tasks and activities are performed. With age, injury or illness, joints can become stiff and inflamed and lose their ability to tolerate as much stress.

Joint protection involves using techniques and assistive technology (aids and equipment) to minimise the stress and force placed on joints. This can help to reduce pain and protect against further joint damage.

Respect pain

Pain is the body's warning sign of excess joint stress. If pain is felt during an activity, it is advisable to immediately stop and rest.

It is important to try to understand the source of the pain and learn to distinguish between usual discomforts, which might be caused by regular conditions such as arthritis, and increased pain caused by excess joint stress. For example, if the pain lasts for more than an hour after the activity ceases, it might indicate that the activity was too stressful and needs to be modified.

Avoid deforming positions

Avoid positions that cause increased strain on joints by planning and changing the way the body is positioned during everyday activities.

Tips on how to achieve this include:

- Limit actions that involve pushing, pulling, jarring or twisting. Where possible try to avoid making a tight fist or small grips with your hands such as pinching, wringing or squeezing.
- Always perform turning motions (for example, taps, jars, lids) toward the thumb side. Try using your left hand to open or turn on, and right hand to turn off.

- Consider using assistive technology; for example, a jar opener will reduce the stress from twisting and a key turner reduces the stress from pinching.
- Avoid excess pressure against the radial (thumb side) of the fingers.
- Avoid excessive and constant pressure against the pad of the thumb or back of the fingers (such as when resting the chin on the back of fingers).
- Avoid using tight grips such as those used when holding a pen, knife, toothbrush, or gardening equipment. Use objects with larger, built up handles made from plastic or foam to reduce joint stress.
- When holding an object, use a grip that keeps the hand in alignment with the arm with the wrist bent slightly back.
- Avoid heavy lifting.
- Consider sitting instead of standing to perform activities.
- Do not force a joint beyond its limit but beware that your limits may change from day to day.

Use the strongest joint and correct body mechanics

It is important to use proper body mechanics and to avoid continuous weight bearing or awkward deforming postures.

Strain from an activity can be more easily managed by using larger, stronger joints to help distribute the load. This helps to spread the stress over a larger area and decreases the pressure on the smaller, weaker joints.

The better the body is aligned, the less strain there is on the muscles and joints and the less chance of becoming fatigued.

Independent Living Assistance Joint protection

When possible:

- Carry items on the forearm or with both hands
- Use open palms and the weight of the body to move or open things
- Use hips to push doors open
- Use correct lifting methods—lift with the legs and not the back, hold the object close to your body so that larger muscles are used
- Keep the head and trunk aligned
- Keep the shoulders and hips parallel
- Maintain good balance by keeping legs apart for a strong base of support
- Maintain the natural curves of the spine
- If possible, push rather than pull an object
- If possible, pull rather than lift an object
- Slide objects along a counter rather than lifting them
- Use slow, smooth movements
- Alter the height of furniture to avoid placing excess stress on hip and knee joints when sitting or standing
- Review workstations to minimise excess stress on the neck and back

The better the body is aligned, the less strain there is on the muscles and joints and the less chance of becoming fatigued.

Change position regularly and keep moving

Muscles become tired when kept in one position for a length of time, leading to joint stress and stiffness.

When static positions are involved, for example holding a book, peeling vegetables or playing cards, try to alter your position and/or posture every 10 to 20 minutes. Consider using assistive technology to help, such as a card holder, slipresistant mats, spiked chopping boards or a book holder. It is important to alternate between light and moderate activities throughout the day and remember to balance activities with plenty of rest to avoid overuse and exhaustion of joints. Pre-plan, set priorities, and where possible try to break larger activities into smaller steps with rest in between.

For more suggestions on energy conservation and work simplification refer to our information on Energy Conservation.

While too much activity can place excess stress on joints, a lack of movement can also cause joints and muscles to stiffen.

Maintaining exercise is an important part of strengthening the muscles around the joint and maintaining bone strength. It can also assist in maintaining an ideal body weight, as excess weight may add extra stress to joints. It is important to talk to a doctor or health professional about an appropriate exercise routine tailored to individual capabilities.

Use adaptive equipment and splints

In some cases, a splint might provide protection and additional support to weak or unstable joints. It is important to discuss this with a trained health professional before using splints.

Assistive technology can make a task easier by protecting joints and reducing the stress placed on smaller and weaker body parts. An occupational therapist can provide information and advice on equipment and techniques that may assist in performing everyday tasks.

Further information

Through My Aged Care it is possible for older people to access Australian Governmentsubsidised services including an occupational therapist assessment and physiotherapy sessions. For further information and to check eligibility, call 1800 200 422 or visit www.myagedcare.gov.au/.

Your doctor can give you specific advice for your circumstances and / or refer you to allied health



Independent Living Assistance

Joint protection

services. People aged 75 and over are eligible for an in-depth assessment to identify health issues and conditions that are potentially preventable or amenable to interventions in order to improve health and/or quality of life.

Catalyst Foundation (including Seniors Information Service) can help you to access useful resources and to locate equipment suppliers. Tel (08) 8168 8776 or email information@catalystfoundation.com.au.

The information contained here is general in nature and is not intended as health advice.

Catalyst Foundation is supported by the Australian Government Department of Health and Aged Care. Visit the website <u>www.sa.health.gov.au</u> for more information. Although funding for this publication has been provided by the Australian Government, the material contained herein does not necessarily represent the views or policies of the Australian Government.

Reviewed March 2024

