

Minimum Guidelines For Adults



5 days a week for 30 minutes which increases heart rate and breathing so you can talk but not sing



Strength activities 2-3 x a week for large muscle groups at a level where you need a short rest before repeating the activity



If over 65 years old, do activities that challenge balance 2 x a week

- 1. Choose an activity and do it several times a week
- 2. Increase the amount of time per session
- 3. Make it more challenging i.e. adding speed, walking up hills, adding a weight

Evidence for benefits in neurological cancer

Research has shown people who participate in physical activity have better quality of life and lower brain cancer treatment-associated symptoms.

People who are already active

Encourage people who have been recently regularly physically active to continue with their physical activity. They may need to adapt to do a little less during 'not so good' phases of treatment.

Refer to physiotherapist for more advice.

Surgery

Exercise before and after surgery will help recovery. The amount and type of exercise will depend on symptoms. Seek advice from a physiotherapist if needed.

Practical advice:

- **Before surgery:** Walking, running, cycling and strength exercises are great examples of how to build fitness before surgery.
- Recommendations: Refer to prehabilitation (if available) or physiotherapist.
- After surgery: Take pain control as advised. Start by marching on the spot and then build to regular walks on the ward. Once home, build up daily walks at a pace where you feeling slightly out of breath but are still able to talk.
- Movement: Do range of movement exercises as prescribed by the physiotherapy team to support recovery.
- Strength training: After 6 weeks, low level strength training can begin. Encourage to start at a lower than normal level and build up slowly.
- Surgical recommendations: Follow advice from the surgical team regarding returning to contacting sports or heavy lifting after surgery.

Chemotherapy

Physical activity can help with chemotherapy tolerance and reduce side effects.

- Bone health: Weight-bearing plus impact exercises (stairs, walking, jumping, running) are important for bone health as chemotherapy can cause bone loss.
- Joint & muscle pain? Physical activity can help. Warm up and cool down helps the body to prepare and recover from activity.
- Muscle strength: Exercises are important as chemotherapy can cause muscle loss.

Look out for:

- Cardiotoxicity? Consider referral to cancer physiotherapist for physical activity support.
- Chemotherapy-induced peripheral neuropathy (CIPN): Refer to cancer physiotherapist if CIPN impacts walking, balance, activities of daily living (ADLs) or falls.
 - A stationary bike, arm bike or seated exercises may be safer option.
 - o If CIPN is painful, swimming or cycling may be more comfortable.
- Platelets low: Physical activity is good, but avoid activities which cause external impact i.e. risk of falls or bruising.
- Low haemoglobin: Do multiple short periods of daily physical activities rather than longer and fewer spells. Aim to work to a level where you are able to talk but not sing rather than use a heart rate monitor or smart watches.
- **Neutropenic:** Avoid busy or poorly ventilated gyms or pools during time of neutropenia. Try outdoors or home exercise instead. Avoid high intensity exercise until counts improve.

• PICC line:

- Avoid swimming with PICC line in situ.
- For strength training refer to physiotherapist for supervised training while
 PICC line is in situ.

Radiotherapy

Regular physical activity can help manage and reduce radiotherapy side effects.

• Muscle strength: Exercise is important as radiotherapy can cause loss of muscle strength.

Practical advice

- Side effects peak: Plan lower levels of physical activity for when the side effects peak.
- **Swimming:** is safe during radiotherapy. Do shower & moisturise. If skin is irritated, stop swimming.
- Clothing: Wear loose and comfortable clothing to avoid irritation and rubbing.
- Hydration: Drink more water than usual radiotherapy can cause dehydration.
- Protection: wear sun protection as required.

Functional Defecits

There are benefits to being active if functional deficits occur secondary to treatment or the cancer. Refer to physiotherapist to work on an exercise programme.

For example:

- Low tone: Physical activity can help to pump blood and fluids around the body and reduce risk of or actual swelling.
- Poor balance: Exercise can help the body to build compensatory strategies to support balance and independence.
- Reduce function: Physical activity can help to optimise the body and stay strong.

Fatigue

Regular physical activity and exercise is the best treatment for fatigue.

• As little as 30 minutes a day 3 days a week of moderate physical activity can show benefits.

Practical advice

- Short sessions: Start off with short sessions of physical activity and build up.
- Avoid 'boom or bust': On good days do 80% of physical activity, and on 'not so good' days do 40%.
- **Bedrest**: Avoid total sedentary rest.
- Record: Keep a diary on how the fatigue responds to different activities.

Seizures

- **Swimming:** If swimming, seizures need to be well controlled. Go to where there is a life guard and inform them about the risk of seizures.
- **Head position:** Avoid activities in which you are spending long periods with your head lower than your knees i.e. head close to the ground with knees/legs above.
- Triggers: Avoid activities/environments which are known to trigger seizures.
- **Safety:** If at high risk of seizures, suggest modifications to increase safety i.e. stationary cycling rather than road cycling or rather than exercising alone, exercise with a friend.



Bone Mets/Lesions

Exercise can be safe and is beneficial for improving function, quality of life and reducing risk of falls & fractures.

Practical advice:

- Fracture risk: If at risk of fracture or are concerned, please refer to cancer physiotherapist for guidance.
- Prevent falls: Encourage to exercise in a safe environment to prevent falls and support with another person.
- Stop and seek advice: If they feel anything uncomfortable or out of the ordinary and speak to their cancer nurse specialist (CNS), cancer doctor or physiotherapist.

***if bone mets present in area being exercised please refer to physiotherapist.

