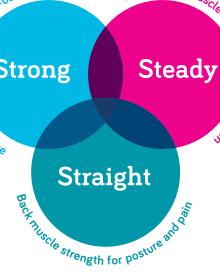


Strong, Steady and Straight: Physical Activity and Exercise for Osteoporosis Quick guide: summary (for use in conjunction with full Expert Consensus Statement)



STRAIGHT – a focus on 'spine care', keeping the back straight. A positive approach to bending, moving and lifting safely to reduce the risk of vertebral fracture. improve posture and relieve pain after vertebral fracture.



Key Principles

Physical activity and exercise has an important role in the management of osteoporosis – promoting bone strength, reducing falls risk and managing symptoms.

People with osteoporosis should be encouraged to do more rather than less. Adopt a positive and encouraging approach - 'how to' rather than 'don't do'.

Physical activity and exercise is not associated with significant harm including vertebral fracture - though some caution is advised, the benefits of physical activity and exercise outweigh the risks.

Professionals should avoid restricting physical activity and exercise unnecessarily according to bone mineral density (BMD).

People with painful vertebral fractures need clear and prompt guidance on how to adapt movements involved in day-to-day living, and exercises for posture and pain.

Strong – for bone strength

Weight-bearing/impact exercise

- Most days of the week; build up to 50 moderate impacts (i.e. low level jumping, jogging, dancing, hopping).
- If frail, less mobile or has vertebral or multiple low trauma fractures - up to 20 minutes of lower impact activity (e.g. walking).
- Avoid sitting for long periods.

strength for falls prevent

Muscle strengthening (with increasing resistance)

- On 2-3 days a week activities or exercise to feel a push or pull on the muscles (explain mild discomfort afterwards is normal). For maximum benefit, depending on fitness levels, recommend increasing the intensity of exercise to work muscles harder using weights or resistance bands. Build up to 3 sets of exercises with 8-12 repetitions of the maximum weight that can be lifted safely.
- Exercises to strengthen back muscles will promote bone strength in the spine.

Steady - to reduce falls

- If unsteady, over 65 and not taking regular exercise - do some challenging balance exercises 2-3 davs a week.
- If repeated faller consider referral to falls service/physiotherapist.
- Posture training and back exercises to improve kyphosis may reduce falls risk.

Straight - a 'spine caring' approach

- Correct techniques for moving and lifting including the 'hip hinge'.
- On 2-3 days a week exercises to strengthen back muscles to help with posture with a focus on endurance by exercising at low intensity - up to 10 repetitions, held for 3-5 seconds. Daily exercises to relieve back pain.
- Consider physiotherapy referral for painful fractures or mobility problems.

SAFETY - Adopt a positive encouraging approach - explain that fractures are rarely caused by exercise and the benefits outweigh the risks.

With osteoporosis

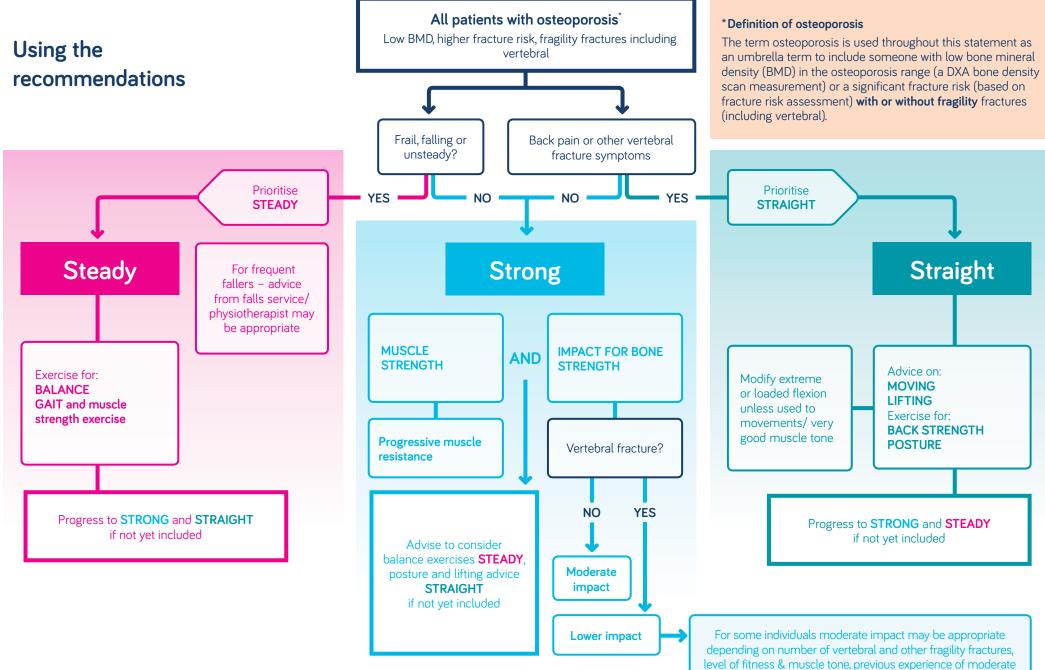
- Recommend correct techniques when using weights or resistance bands, gym equipment get specialist advice if unsure.
- Recommend modification of exercises that involve end range sustained repeated forward bending unless you are using the 'hip hinge'/are very experienced/have very good muscle tone and control.
- Always increase intensity gradually and tailor according to individual fitness and ability.

With vertebral or multiple low trauma fractures

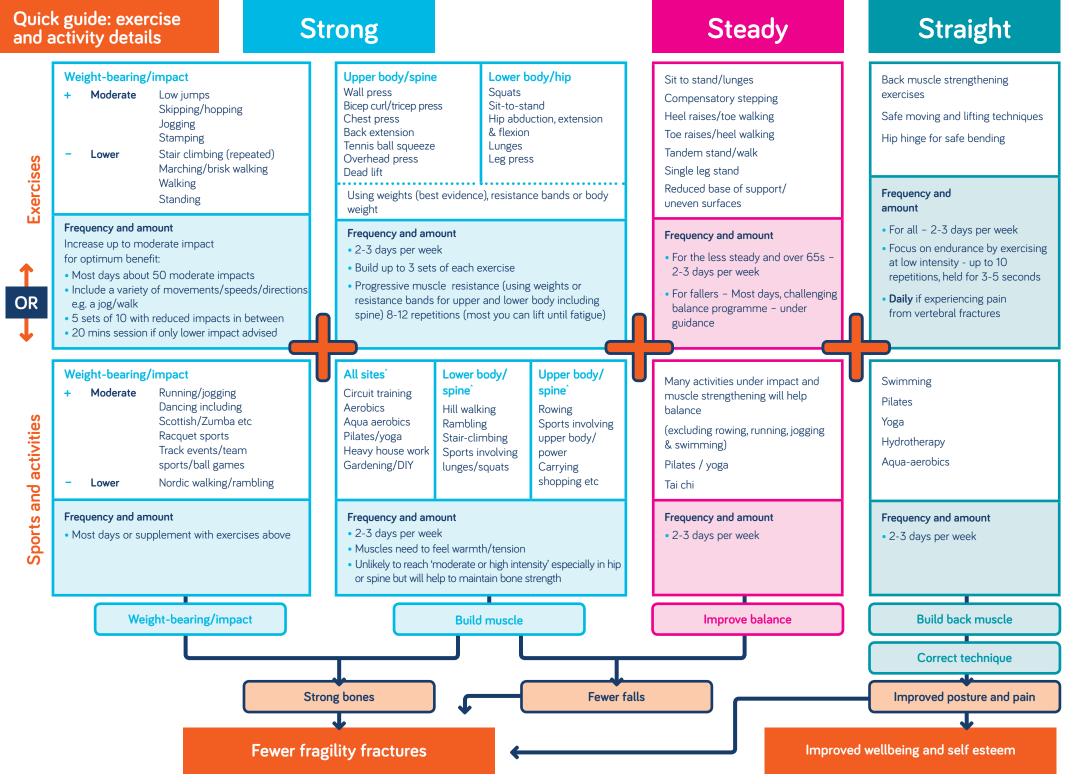
 Recommend lower impact rather than moderate impact exercise (jogging, low level jumping) as a general rule. May be appropriate to increase after individualised discussion.

With poor balance

Recommend improving balance and muscle strength before increasing physical activity levels.



of fitness & muscle tone, previous experience of model impact exercise, back pain from fractures etc.

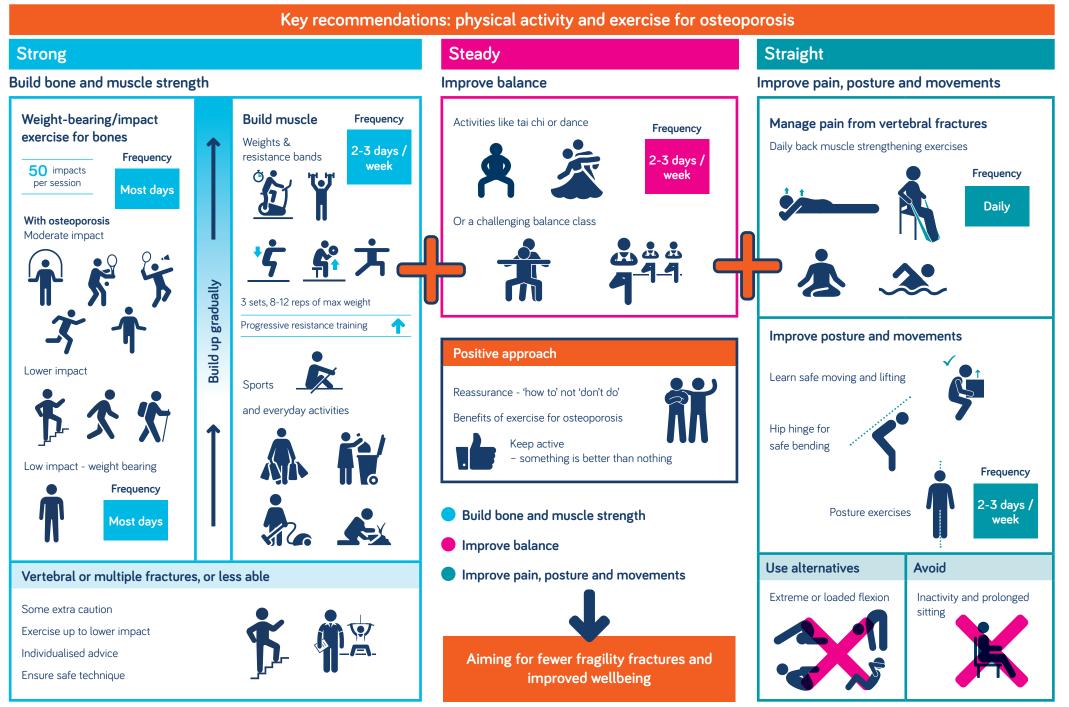


Quick guide: visual reference

4

01761 471771

Statement visit theros.org.uk/HCPexercise



President: HRH The Duchess of Cornwall. Royal Osteoporosis Society is a registered charity no. 1102712 in England and Wales, no. SC039755 in Scotland, no. (pending) in Guernsey and no. (pending) in Isle of Man. Registered as a company limited by guarantee in England and Wales no. 4995013, and no. (pending) in Isle of Man. Registered address: Camerton, Bath BA2 OPJ. Formerly the National Osteoporosis Society. Published December 2018. V2 February 2019.