Do you want to live life to the full? Doing the exercises in this booklet at least twice a week, in addition to taking a daily walk can help keep you strong and walk steadily, reducing the risk of falls.

These exercises have been used in strength and balance programmes across the world and are based on the Otago Exercise Programme (OEP) which has been shown to reduce falls and injuries due to falls.

Ideally, set aside a time to do all (or some) of the exercises. Alternatively, you can do these exercises as part of your everyday routine - for example, try a one leg stand while waiting for the kettle to boil, or do the sit to stand exercise during the advertisements on television.

If you choose to do the exercises throughout the day, do a little march first to warm yourself up and prepare for exercise.
Safety

Ensure that the chair you use is sturdy and stable or use a more sturdy support such as the kitchen worktop or breakfast table if your instructor/therapist recommends this. Wear comfortable clothes and supportive footwear.

Prepare a space and have your ankle weights and a glass of water (for afterwards) ready before you start.

While exercising, if you experience chest pain, dizziness or severe shortness of breath, stop immediately and contact your GP (or call an ambulance if you feel very unwell and your symptoms do not go away when you stop exercising).

If you experience pain in your joints or muscles, stop, check your position and try again. If the pain persists, seek advice from your Postural Stability Instructor.

However, feeling your muscles working or slight muscle soreness the next day after exercise is normal and shows that the exercises are working.

Breathe normally throughout and enjoy yourself.

Aim to do these exercises three times per week.

If you are using this booklet without attending a supervised exercise session, consult your GP to check it is suitable for you.

Please read disclaimer at the back of this booklet.
Warm Up Exercises

Always begin with a warm up to prepare your body for the main exercises.

There are 6 warm up exercises.

Complete them all if you are doing your exercises in one session.

If you decide to spread your exercises over the day, do the March exercise before you move on to do your strength, balance or stretch exercises.

Alongside the exercises are tips or suggestions of when you could do these exercises in your own daily routine, to help make them more of a habit.

Tip:
While seated after breakfast.
March

- Stand tall (holding your support if needed)
- Begin marching your legs
- If you feel steady, add an arm swing with one or both arms
- Continue marching for 1 - 2 minutes

**Tip:**
At the breakfast table.

**SAFETY POINT**
Hold a secure support to meet your balance needs

This exercise helps warm the muscles and prepares the body for movement.
Head Movements

- Stand tall with your feet hip width apart and arms resting loosely by your sides or hold the chair
- Turn the head slowly to the left then slowly to the right
- Ensure that the shoulders stay still so only the head is moving
- Repeat 5 times

**Tip:**
At the window and hold the sill.

This exercise helps you look over your shoulder in the car or in shops and reduces stiffness at the neck

**SAFETY POINT**
Hold a secure support to meet your balance needs
Neck Movements

- Stand tall with your feet hip width apart and arms resting loosely by your sides or hold the chair
- Place 2 fingers onto your chin then gently guide the chin back until you feel a stretch in the back of the neck
- Repeat 5 times

Tip:
While you are watching TV.

This exercise helps strengthen the back of the neck, improving posture

SAFETY POINT
Hold a secure support to meet your balance needs
Back Extension

• Stand tall with your feet hip width apart
• Place your hands onto your bottom
• Gently arch your back
• Avoid looking at the ceiling or locking out your knees
• Repeat 5 times

Tip:
While you are listening to the radio.

This exercise helps open the chest and improve posture

SAFETY POINT
Hold a secure support to meet your balance needs
Trunk Movements

- Stand tall with your feet hip width apart
- Fold the arms in front of the chest or place one hand on the chair
- Lengthen and lift the trunk upwards then slowly turn the head and shoulders to the right
- Ensure you are only turning the upper body (not the hips)
- Return to the start position and repeat to the other side
- Repeat 5 times

Tip:
At the kitchen table.

This exercise loosens the spine and helps with putting on seat belts, looking over your shoulder and turning in bed

SAFETY POINT
Hold a secure support to meet your balance needs
Ankle Movements

- Sit with your back supported by the chair back
- Straighten one leg so the foot is held off the floor
- Keep the leg in this position whilst pointing the toes forwards then pulling them back
- Do this 5 times then repeat on the other leg
- If the pull behind the knee is too intense, perform this exercise with the foot closer to the floor

**Tip:**
While watching TV.

This exercise helps loosen ankles and improves the heel/toe walking action
Strength Exercises

These are to help improve your bone and muscle strength. Complete them all, unless instructed by your Otago Exercise Leader.

If you choose to do the exercises throughout the day, do a little march first to warm yourself up and prepare for exercise.

Put your ankle weights on now.
Front Knee Strengthenener

- Sit back in the chair with your back supported and your feet under your knees
- Brush one foot along the floor then lift the weight slowly and straighten (but do not lock out) your knee
- Lower the foot with control
- Repeat 10 times on one leg then change legs
- Aim to lift for a slow count of 3 and lower for a slow count of 5 each time

**Tip:**
While watching TV.

This exercise will strengthen your leg muscles making getting out of a low chair and using stairs easier
Back Knee Strengthener

• Stand tall close to and holding your support
• Feet hip width apart and knees soft
• Brush the foot backwards along the floor then lift the heel slowly towards the bottom
• Keep the knees close together
• Lower the foot slowly
• Place the weight back over both feet to rest briefly
• Repeat 10 times on one leg then change legs
• Aim to lift for a slow count of 3 and lower for a slow count of 5 each time

Tip:
At the dining table.

This exercise strengthens the back of the leg, helping you on stairs or stepping backwards

SAFETY POINT
Hold a secure support to meet your balance needs
Side Hip Strengthenener

- Stand tall with your feet hip width apart holding your support
- Lift the leg slowly out to the side keeping the toes pointing forwards
- Avoid leaning the body to the side
- Place the weight back over both feet to rest briefly
- Repeat 10 times on one leg then change legs
- Aim to lift for a slow count of 3 and lower for a slow count of 5 each time

**Tip:**
At your kitchen worktop.

This exercise helps strengthen the side of the leg muscles so it will be easier to get out of a car or the bath or step sideways

**SAFETY POINT**
Hold a secure support to meet your balance needs
Important

Take your ankle weights off now!
Calf Raises

- Stand tall with your feet hip width apart holding your support
- Slowly lift the heels keeping the weight over the big toes
- Avoid locking the knees
- Repeat 10 - 20 times
- Aim to lift for a slow count of 3 and lower for a slow count of 5 each time

**Tip:**
At the bathroom sink.

This exercise will help your balance if you have to step over objects and improve your steadiness when walking

**SAFETY POINT**
Hold a secure support to meet your balance needs
Toe Raises

- Stand tall with the feet hip width apart, holding your support
- Slowly lift the toes keeping your knees soft
- Avoid sticking your bottom out
- Lower the toes slowly
- Aim to lift for a slow count of 3 and lower for a slow count of 5 each time
- Repeat 10 - 20 times

**Tip:**
At the window and hold the sill.

This exercise will help ensure you lift your toes more easily when stepping over things and reduce your chance of falling backwards

**SAFETY POINT**
Hold a secure support to meet your balance needs
Balance Exercises

These are to help improve your balance and stability and prevent falls.
Knee Bends Supported

• Feet should be hip width apart, toes facing forwards
• Hold your support
• Bend the knees and push your bottom backwards as though you are going to sit down
• Ensure the heels do not lift
• Make sure your knees do not turn in
• Come back up to the start position
• Repeat 10 times

Tip:
At the Kitchen sink.

This exercise will help you comfortably reach down to pick things up and improve your balance

SAFETY POINT
Hold a secure support to meet your balance needs
Knee Bends No Support

- Feet should be hip width apart, toes facing forwards
- Bend the knees and push your bottom backwards as though you are going to sit down
- Ensure the heels do not lift
- Ensure the knees do not roll inwards
- Come back up to the start position
- Repeat 10 times

Tip:
At the kitchen sink.

This exercise will help you comfortably reach down to pick things up and improve your balance

SAFETY POINT
Hold a secure support to meet your balance needs
Toe Walking Supported

- Stand side on to a support with feet hip width apart
- Lift the heels keeping the weight over the big toes
- Walk up to 10 steps forwards on your toes
- Bring the feet level before lowering the heels to the floor
- Turn around towards the support then repeat the toe walking in the other direction
- Move steadily and with control

**Tip:**
Along your kitchen worktop.

This exercise will help your balance if you have to step over objects and improve your steadiness when walking

**SAFETY POINT**
Hold a secure support to meet your balance needs
Toe Walking No Support

• Stand with feet hip width apart
• Lift the heels keeping the weight over the big toes
• Walk up to 10 steps forwards on your toes
• Bring the feet level before lowering the heels to the floor
• Turn around then repeat the toe walking in the other direction
• Move steadily and with control

Tip:
Along your kitchen worktop.

This exercise will help your balance if you have to step over objects and improve your steadiness when walking

SAFETY POINT
Hold a secure support to meet your balance needs
Heel Toe Stand Supported

• Stand tall, side on to the support

• Place one foot directly in front of the other so that the feet form a straight line

• Look ahead and balance for 10 seconds

• Take the feet back to hip width apart before placing the other foot in front and balancing for another 10 seconds

**Tip:**
At the dining table.

This exercise helps improve balance when you have a narrow base of support (in crowds or narrow spaces)

**SAFETY POINT**
Hold a secure support to meet your balance needs
Heel Toe Stand No Support

- Stand tall
- Place one foot directly in front of the other so that the feet form a straight line
- Look ahead and balance for 10 seconds
- Take the feet back to hip width apart before placing the other foot in front and balancing for another 10 seconds

Tip:
At the dining table.

This exercise helps improve balance when you have a narrow base of support (in crowds or narrow spaces)

SAFETY POINT
Hold a secure support to meet your balance needs
Heel Toe Walking Supported

• Stand tall, side on to the support

• Walk up to 10 steps forwards placing one foot directly in front of the other so that the feet form a straight line

• Look ahead and aim for a steady walking action

• Take the feet back to hip width apart before turning towards your support then repeat the steps in the other direction

Tip:
Along your kitchen worktop.

This exercise will help your balance when you walk in narrow spaces or in crowds

SAFETY POINT
Hold a secure support to meet your balance needs
Heel Toe Walking No Support

• Stand tall
• Walk up to 10 steps forwards placing one foot directly in front of the other so that the feet form a straight line
• Look ahead and aim for a steady walking action
• Take the feet back to hip width apart before turning around then repeat the steps in the other direction

Tip:
Along your kitchen worktop.

This exercise will help your balance when you walk in narrow spaces or in crowds

SAFETY POINT
Hold a secure support to meet your balance needs
One Leg Stand Supported

- Stand close to and holding on to your support
- Balance on one leg keeping the support knee soft and upright posture
- Hold the position for 10 seconds
- Repeat on the other leg

**Tip:**
At the Kitchen sink.

This exercise will help your balance and strength around the hip

**SAFETY POINT**
Hold a secure support to meet your balance needs
One Leg Stand No Support

• Stand tall

• Balance on one leg keeping the support knee soft and upright posture

• Hold the position for 10 seconds

• Repeat on the other leg

Tip:
At the Kitchen sink.

This exercise will help your balance and strength around the hip

SAFETY POINT
Hold a secure support to meet your balance needs
Sideways Walking Supported

- Stand tall facing a support
- Take up to 10 sideways steps keeping the hips forward and the knees soft
- Repeat the other way

Tip:
Along your kitchen worktop

This exercise will help you step sideways safely to avoid things and improve your balance

SAFETY POINT
Hold a secure support to meet your balance needs
Sideways Walking No Support

- Stand tall
- Take up to 10 sideways steps keeping the hips forward and the knees soft
- Repeat the other way

Tip:
Along your kitchen worktop.

This exercise will help you step sideways safely to avoid things and improve your balance

SAFETY POINT
Hold a secure support to meet your balance needs
Heel Walking Supported

• Stand side on to the support
• Lift the toes keeping the knees soft and the bottom tucked in
• Walk up to 10 steps on your heels
• Move steadily and with control
• Keep looking ahead
• Bring the feet together before lowering the toes to the floor
• Repeat the other way

Tip:
Along your kitchen worktop.

This exercise will help your balance and ankle strength when in a crowd or stepping over things

SAFETY POINT
Hold a secure support to meet your balance needs
Heel Walking No Support

• Stand tall
• Lift the toes keeping the knees soft and the bottom tucked in
• Walk up to 10 steps on your heels
• Move steadily and with control
• Keep looking ahead
• Bring the feet together before lowering the toes to the floor
• Repeat the other way

Tip:
Along your kitchen worktop.

This exercise will help your balance and ankle strength when in a crowd or stepping over things

SAFETY POINT
Hold a secure support to meet your balance needs
Sit To Stand Using Hands

- Sit tall near the front of the chair
- Place your feet slightly back
- Lean forwards slightly
- Stand up (using your hands on the chair if needed)
- Step back until your legs touch the chair
- Slowly lower your bottom back into the chair, reaching for the chair as you lower if needed
- Repeat slowly up to 10 times

**Tip:**
At the end of a TV Programme.

This exercise will help improve the ease you can get out of a chair or squat to do things.
Sit To Stand No Hands

- Sit tall near the front of the chair with your hands on your thighs or folded across your chest
- Place your feet slightly back
- Lean forwards slightly
- Stand up
- Step back until your legs touch the chair then slowly lower your bottom back into the chair
- Repeat slowly up to 10 times

Tip:
At the end of a TV Programme.

This exercise will help improve the ease you can get out of a chair or squat to do things
Backwards Walking Supported

- Stand side on to the support
- Walk backwards up to 10 steps
- Keep the back tall and look straight ahead throughout the exercise
- Use a toe through to heel action
- Keep the pace steady and controlled
- Repeat the other way

**Tip:**
Along your kitchen worktop.

This exercise will help you be more steady taking backward steps to avoid something or regain your balance

**SAFETY POINT**
Hold a secure support to meet your balance needs
Backwards Walking No Support

- Stand tall
- Walk backwards up to 10 steps
- Keep the back tall and look straight ahead throughout the exercise
- Use a toe through to heel action
- Keep the pace steady and controlled
- Repeat the other way

Tip:
Along your kitchen worktop.

This exercise will help you be more steady taking backward steps to avoid something or regain your balance

SAFETY POINT
Hold a secure support to meet your balance needs
Heel Toe Walking Backwards

• Stand tall
• Look straight ahead
• Place one foot directly behind the other touching the toe against the heel so the feet are in a straight line
• Continue walking backwards in this way for up to 10 steps
• Aim for a smooth walking action, rolling through the foot from toe to heel
• Place your feet hip width apart before turning then repeat in the other direction

Tip:
Along your kitchen worktop.

This exercise will help you be more steady taking backward steps to avoid something or regain your balance

SAFETY POINT
Hold a secure support to meet your balance needs
Walk And Turn

• Walk at your usual pace in a figure of 8 shape (around 2 chairs if this is easier for you)

• Try to maintain upright posture as you walk

• Repeat this exercise twice only

Tip: Between your kitchen chairs.

This exercise will help your balance when you are turning and manoeuvring.
Stair Walking

• Hold the rail if you usually do, but try not to pull too much with your arms

• Use the strongest leg to lead on each step

• Place the foot fully on the stair

• Look down with the eyes (rather than bending forwards from the waist) to check your foot position

• At the top, take a rest then come back down leading with your weaker leg on each step

• Repeat up to 3 times up + down

**Tip:**
Perhaps do in the morning when you first come downstairs

This exercise over time will make it easier to use the stairs
Ending The Session

Perform the following stretches to improve your flexibility and reduce stiffness

Ensure you are warm, perhaps do a brief march before your stretch
Calf Stretch

- Sit forwards in the chair and hold on
- Keep one knee bent and directly above the ankle
- Straighten the other leg with the heel resting on the floor
- Pull the toes back towards the shin until you feel a stretch in the calf
- Hold for 10 - 20 seconds, making sure the knee is not locked out
- Release and repeat on the other side

**Tip:**

Do at the kitchen table.

This stretch will help ensure you lift your toes when walking and get your shoes and socks on more easily.
Back of Thigh Stretch

• Make sure you are right at the front of the chair
• Straighten one leg placing the heel on the floor
• Place both hands on the other leg then sit really tall
• Lean forwards with a straight back until you feel the stretch in the back of your thigh
• Hold for 10 - 20 seconds
• Repeat on the other leg

Tip:
Do at the kitchen table.

This stretch will help you put your shoes and socks on more easily and lengthen your stride when walking
Walking

• Wear loose, comfortable clothing and flat, supportive shoes.

• Aim for two 30 minute walks per week.

• 5 or 10 minute walks are an ideal way to get started.

• Progress the time until 30 minutes of continuous walking is achieved.

• If possible, try to walk at a pace that makes you feel warmer and increases your breathing. You should still be able to talk as you walk. If you feel too puffed to talk, you are going too fast and need to slow down a little.

• If you find you are catching your toes or scuffing your feet you are getting tired, so slow down and deliberately lift the knee a bit more with each step.
Finished!

Well done! You have finished your exercises.

Try to do these exercises three times a week. Set a day and a time aside for a second session now, or try to do the exercises as part of your daily routine. Our tips may give you some ideas. It would be best if these exercises become a habit!

Regular performance of these exercises will, over time, make you feel stronger and steadier. They have also been shown to help your brain, reduce injuries and improve quality of life. Why not get exercising with your family or a friend.

Balance Progression
Once you are performing the balance exercises with confidence on a regular basis, you should aim to GRADUALLY reduce the amount of hand support you use. This can be done by releasing your little fingers to see if you can still maintain your balance. The next step is to release your ring fingers and when you have mastered this, your middle fingers so that you are now balancing by supporting only with your index fingers. Make sure you master balancing at each stage before progressing to the next.

Sit Less
We now know that long periods of sitting, like watching the television all evening, are not good for our health. The more we sit, the more likely we are to get thicker around the waist, develop diabetes, become less mobile and have a low mood.

People who get up more regularly and break up long periods of sitting (every 1 - 2 hours at least) are more mobile and healthy.

Tips to break up long periods of sitting
• Stand up after a few chapters of your book
• Remain standing while the kettle boils
• Do one of the standing exercises in this booklet
It helps to keep an **exercise diary**. This will remind you when you last did your exercises and is a place to note anything you want to ask or tell your exercise instructor.

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<td>(eg. Monday 2nd January)</td>
<td>(eg. Did not do a specific exercise, feel you have improved doing a particular exercise, did some walking today)</td>
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Disclaimer

You take responsibility for your own exercise programme. The authors and advisers of the exercises in this programme accept no liability. All content is provided for general information only, and should not be treated as a substitute for the medical advice of your own GP or any other health care professional. Health care professionals using these exercises do so at their own risk.

While exercises have been used in research trials and many thousands of older people do similar exercises from other home exercise booklets, the authors do not know you, your medical conditions or physical fitness and cannot give advice tailored to you, your medical condition or physical function. The authors cannot guarantee the safety or effectiveness of this program of exercises for you. Any noticeable changes in health, pain, mobility or falls should prompt a visit to your GP.

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