



# Critical Care Unit Rehabilitation Programme

### Information for patients from East Kent Critical Care

This booklet will guide your rehabilitation following your stay on the Critical Care Unit.

Due to a long period of inactivity whilst you were ill, your muscles have lost their strength. Do not be surprised if you feel weak and tired to begin with. Even the simplest of tasks may feel difficult, which is where this booklet can help you.

You will have made a significant amount of progress with your physiotherapist, before you left hospital. This booklet will explain how you can help yourself between leaving hospital and starting rehabilitation classes.

#### What are the benefits of exercising after leaving Critical Care?

Exercising following critical care treatment will:

- · improve your quality of life; and
- · help your physical and emotional well-being.

Some of the benefits of exercise following critical illness include:

- increased muscle strength and joint movement
- · improved stability and balance
- improved exercise tolerance and fitness
- improved circulation
- improved well-being; and
- · increased functional ability.

Following critical illness, physiotherapy can feel very demanding. By doing regular exercise as early as possible, you are more likely to achieve your goals. This may feel like a long process, but it is important that you discuss these goals with your physiotherapist. This will allow you to get the most out of your rehabilitation.

#### **Breathing exercises**

Your time on Critical Care will have affected your respiratory (breathing) muscles. This will make it difficult for you to clear chest secretions (such as phlegm).

The Active Cycle of Breathing Technique (ACBT) is a simple pattern of breathing. It can be used to help clear secretions and improve your breathing.

You can do these exercises as many times as you want during the day. There is no limit.

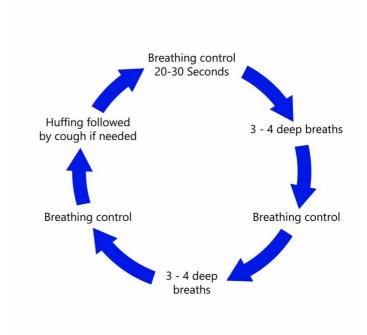
ACBT is a combination of several breathing exercises. You can inter-change these exercises, depending on what feels most helpful for you.

#### Breathing control

 Begin the circuit with normal calm breathing. Relax your shoulders and upper chest.

#### Deep breathing

- You can now move on to taking deeper breaths, which are slower than your relaxed breathing.
- When breathing in, try and hold your breath for 3 seconds before breathing out. Take these deep breaths three to four times.



The Active Cycle of Breathing Technique (ACBT)

#### Huffing

- Following on from your deep breathing, take a normal breath in and quickly force a breath out (keep your mouth open).
- It is useful to imagine that you are steaming up a glass in front of you.
- This will help to move secretions along your airways, making it easier to cough them up.

#### Coughing

- It should now be easier to cough up any secretions you have.
- Do not cough unless you can feel that the secretions are ready to be cleared.

Continue with this cycle of exercises until you feel your lungs are clear. Return to breathing control and deep breathing after each cough.

#### How can I exercise safely? When should I stop?

To keep yourself safe whilst exercising, it is important to consider the following.

Do not exercise if you feel unwell.

- Do not exercise where it is too hot or too cold.
- Do not exercise straight after a large meal. Wait for an hour before exercise.
- Always wear comfortable clothing and sensible footwear.
- Make sure you have enough space to do your exercises safely.

#### Stop exercising if:

- you have any chest pain or tightness
- · you feel dizzy; or
- you become very breathless.

After your first few exercise sessions, it is normal to have some muscle soreness. This should get better within a few days. However, if your joint or muscle pain continues, contact your GP.

#### **Exercise programme**

Your physiotherapist will go through the following exercises with you before you leave hospital. Please use this time to ask any questions or discuss any concerns you may have.

#### **Bed exercises**

#### Bridging

- Lie on your back. Squeeze your bottom and push through your feet to lift your bottom off the floor.
- Your shoulders should remain in contact with the floor at all times.
- Hold for 5 seconds. Slowly lower back to the floor.
- Repeat \_\_\_\_ times.
- Complete \_\_\_\_ times per day.





#### • Clam

- Lie on your side with your knees bent.
- Tighten your buttocks. Lift your top knee as far as you can, without letting your pelvis rotate forward or back.
- Hold for 5 seconds before lowering your knee back.
- Repeat \_\_\_ times.
- Complete \_\_\_\_ times per day.





Clam exercise (2)

#### **Knee rolls**

- Lie on your back with your knees together and bent.
- Slowly roll your knees from side to side keeping your upper trunk still.
- Repeat \_\_\_\_ times.
- Complete \_\_\_ times per day.





Knee rolls exercise (2)

#### · Straight leg raise

- Lie on your back, with your legs straight and toes pulled up towards the ceiling.
- Slowly raise one leg off the bed, keeping your leg straight. Hold for 3 seconds and slowly lower.

- Repeat \_\_\_ times on both legs.
- Complete \_\_\_\_ times per day.





#### Knee bends

- Lie on your back with your legs straight.
- Slowly bend one knee, sliding your foot up the bed towards you.
- Slowly straighten your knee, and return to the start position.
- $\circ~$  Repeat \_\_\_ times on both legs.
- Complete \_\_\_ times per day.





#### · Hip abduction

- Lie on your back with your legs straight.
- Slowly take your leg out to the side, keeping it straight.
- Slowly bring your leg back towards the middle of the bed.
- Repeat \_\_\_ times on both legs.

Complete \_\_\_\_ times per day.





#### Knee extension

- Lie on your back, with a pillow under the knee to be exercised.
- Keep the back of your knee on the pillow. Straighten your knee and lift your lower leg off the bed.
- Hold for 5 seconds.
- Repeat \_\_\_ times on both legs.
- Complete \_\_\_ times per day.





#### **Seated exercises**

Choose a chair where you can sit comfortably, with your back up against the back of the chair and your feet flat on the floor. If possible, choose a chair which has arms that you can use for support.

#### · Ankle pumps

- Slowly raise your heels off the floor.
- Lower your heels to touch the floor and lift your toes up.
- Repeat \_\_\_ times.
- Complete \_\_\_ times per day.

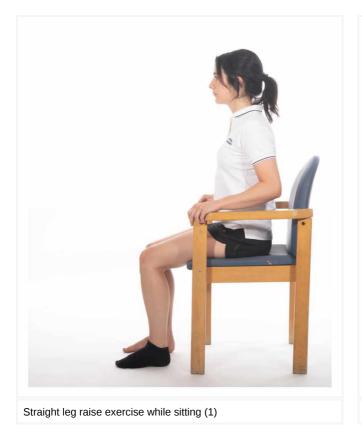




Ankle pumps exercise

#### • Straight leg raise

- Sit in a chair.
- Pull your toes up. Tighten your thigh muscle, and lift your lower leg straightening your knee. Hold for 5 seconds.
- Slowly relax and lower your leg back to the starting position.
- Repeat \_\_\_\_ times with both legs.
- Complete \_\_\_ times per day.





#### Hip flexion

- · Sit in a chair.
- Lift your leg up off the seat, keeping your knee bent. Hold for 5 seconds.
- Slowly return to the starting position.
- Repeat \_\_\_\_ times with both legs.
- Complete \_\_\_\_ times per day.



Hip flexion exercise while sitting

#### · Hip abduction

- Sit in a chair.
- Lift one leg and bring it out to the side, placing your foot on the floor.
- Lift it again and bring it back to the starting position.
- Repeat \_\_\_\_ times with both legs.
- Complete \_\_\_\_ times per day.



Hip abduction exercise while sitting

#### · Hip adduction

- Place a rolled-up towel between your knees.
- Squeeze the towel with your thighs. Hold for 5 seconds.
- Repeat \_\_\_ times.
- Complete \_\_\_ times per day.



Hip abduction exercise

#### Shoulder shrugs

- Slowly lift your shoulders up. Hold for five seconds.
- Slowly lower.
- Repeat \_\_\_\_ times.
- Complete \_\_\_ times per day.





Shoulder shrugs exercise

#### Punching

- Clench your fists and punch the ceiling. Alternate between your right and left arms.
- To make this exercise harder, hold a weight or a safe object of choice.
- Repeat \_\_\_\_ times.
- Complete \_\_\_ times per day.



Punching exercise (1)



Punching exercise (2)

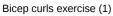


Punching exercise (3)

#### Bicep curls

- · Keeping your elbow tucked into your side.
- Bend your elbow, bringing your hand up towards your shoulder.
- Slowly straighten your elbow.
- Repeat \_\_\_\_ times with both arms.
- Complete \_\_\_ times per day.







Bicep curls exercise (2)

#### • Shoulder abduction

- $\circ\hspace{0.4cm}$  Slowly lift your arm out to the side, and up above your head.
- Slowly lower.
- Repeat \_\_\_\_ times with both arms.
- Complete \_\_\_\_ times per day.



Shoulder abduction exercise (1)



Shoulder abduction exercise (2)

#### · Tricep extension

- Bring the arm to be exercised up, with the bent elbow pointing to the ceiling.
- Slowly straighten your elbow.
- To make this exercise more challenging, hold a weight.
- Repeat \_\_\_ times.
- Complete \_\_\_ times per day.







#### · Thumb movements

- Touch your thumb to each fingertip in turn.
- Repeat \_\_\_ times.
- Complete \_\_\_ times per day.



Thumb movements exercise (2)



Thumb movements exercise (3)



(4)

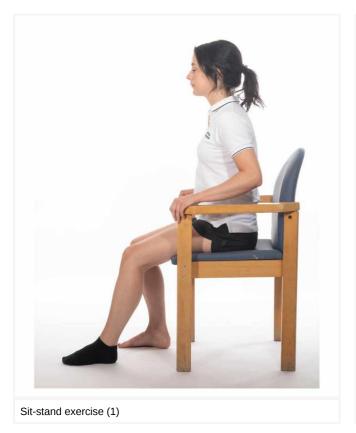
#### Grip

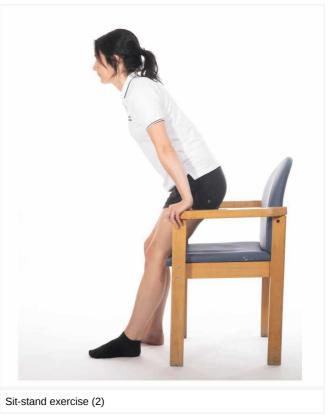
- Hold a rolled-up towel with both hands and squeeze.
- Hold the squeeze for 5 seconds.
- Repeat \_\_\_\_ times.
- Complete \_\_\_ times per day.

## **Standing exercises**

- Sit-stand
  - Sit in a chair. Use the arms of the chair to push up and slowly stand.

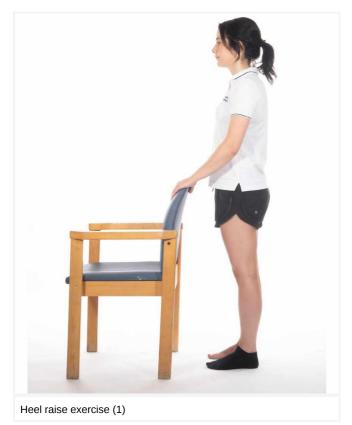
- Using the arms of the chair, slowly sit down.
- Repeat \_\_\_ times.
- Complete \_\_\_\_ times per day.
- To make it harder, try not using the arms of the chair to help.





#### • Heel raises

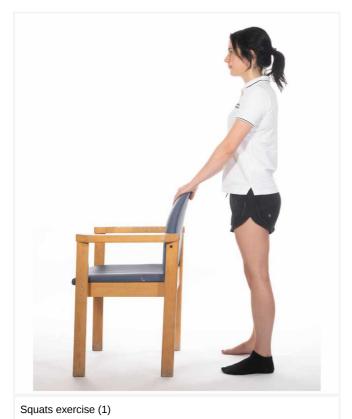
- Hold on to the back of a chair for support.
- Slowly lift your heels off the floor, and come up on to your tiptoes.
- Hold for 5 seconds. Slowly lower.
- Repeat \_\_\_ times.
- Complete \_\_\_ times per day.





#### • Squats

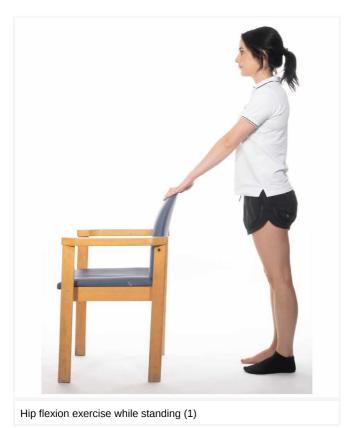
- Hold on to the back of a chair for support.
- Slowly bend your knees, as if you were to sit down.
- Hold for 5 seconds. Slowly stand up tall.
- Repeat \_\_\_ times.
- Complete \_\_\_\_ times per day.





#### • Hip flexion

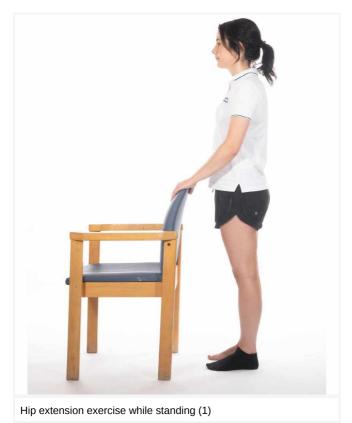
- Hold on to the back of a chair for support.
- Slowly lift one knee, bringing your foot up off the floor.
- Hold for 5 seconds. Slowly lower your foot to the floor.
- Repeat \_\_\_ times with both legs.
- Complete \_\_\_\_ times per day.

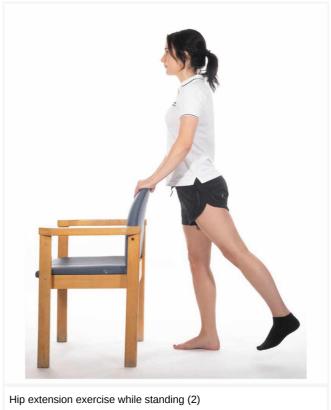




#### • Hip extension

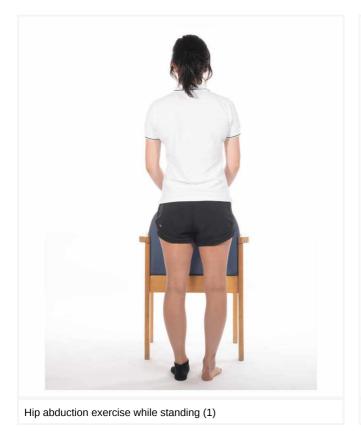
- Hold on to the back of a chair for support.
- Squeeze your bottom muscles, and slowly lift one leg behind you. Keep your toes up towards your shin. Remain standing upright.
- Hold for 5 seconds. Slowly lower your foot back down to the floor.
- Repeat \_\_\_\_ times with both legs.
- Complete \_\_\_ times per day.

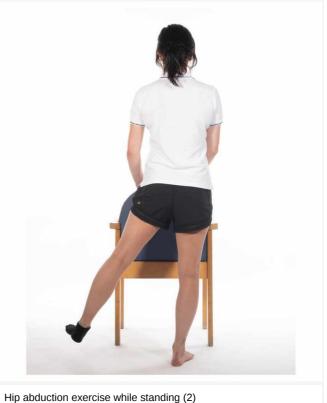




### • Hip abduction

- Hold on to the back of a chair for support.
- Slowly lift one leg out to the side. Keep your toes up towards your shin. Remain standing upright.
- Hold for 5 seconds. Slowly lower your foot back down to the floor.
- $\circ~$  Repeat \_\_\_ times with both legs.
- $\circ~$  Complete \_\_\_ times per day.





#### • Balance exercise (1)

- Stand close to something stable to hold on to. Place your feet together.
- Stand like this for 1 minute.
- Complete \_\_\_\_ times per day.
- To make this harder, close your eyes or reduce your hold on the stable surface.

#### • Balance exercise (2)

- Stand close to something stable to hold on to. Place one foot in front of the other.
- Hold for 1 minute.
- Complete \_\_\_\_ times per day.
- To make this harder, close your eyes or reduce your hold on the stable surface.

#### What if I have further concerns or questions?

For any help and advice do not hesitate to contact the Critical Care Unit on one of the numbers below.

- Critical Care Unit, Kent and Canterbury Hospital, Canterbury Telephone: 01227 783104
- Critical Care Unit, **Queen Elizabeth the Queen Mother (QEQM) Hospital**, Margate Telephone: 01843 234415

• Critical Care Unit, William Harvey Hospital, Ashford

Telephone: 01233 616114

• Critical Care Outreach Follow-Up and Rehabilitation Sister

Mobile: 07771 378331

Email (lucymummery@nhs.net)

#### References

• National Institute for Health and Care Excellence (NICE). Rehabilitation after critical illness in adults. Clinical Guidelines (CG83). March 2009. (https://www.nice.org.uk/guidance/cg83)

#### What do you think of this leaflet?

We welcome feedback, whether positive or negative, as it helps us to improve our care and services.

If you would like to give us feedback about this leaflet, please fill in our short online survey. Either scan the QR code below, or use the web link. We do not record your personal information, unless you provide contact details and would like to talk to us some more.

#### Giving feedback about this leaflet



https://www.smartsurvey.co.uk/s/MDOBU4

If you would rather talk to someone instead of filling in a survey, please call the Patient Voice Team.

• Patient Voice Team

Telephone: 01227 868605

Email (ekhuft.patientvoice@nhs.net)

#### This leaflet has been produced with and for patients.

#### Please let us know:

- If you have any accessibility needs; this includes needing a hearing loop or wanting someone to come with you to your appointment.
- · If you need an interpreter.
- If you need this information in another format (such as Braille, audio, large print or Easy Read).

#### You can let us know this by:

- Visiting the Trust web site (https://www.ekhuft.nhs.uk/ais).
- Calling the number at the top of your appointment letter.
- Adding this information to the Patient Portal (https://pp.ekhuft.nhs.uk/login).
- Telling a member of staff at your next appointment.

Any complaints, comments, concerns or compliments, please speak to a member of your healthcare team. Or contact the Patient Advice and Liaison Service on 01227 783145 or email (ekhtr.pals@nhs.net).

Patients should not bring large sums of money or valuables into hospital. Please note that East Kent Hospitals accepts no responsibility for the loss or damage to personal property, unless the property has been handed into Trust staff for safe-keeping.

**Further patient information leaflets** are available via the East Kent Hospitals' web site (https://www.ekhuft.nhs.uk/patient-information).

Reference number: Web 379

First published: Last reviewed: Next review date: December 2017 April 2025 August 2028



Illustrations and Photographs created by the Medical Photography Department.

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