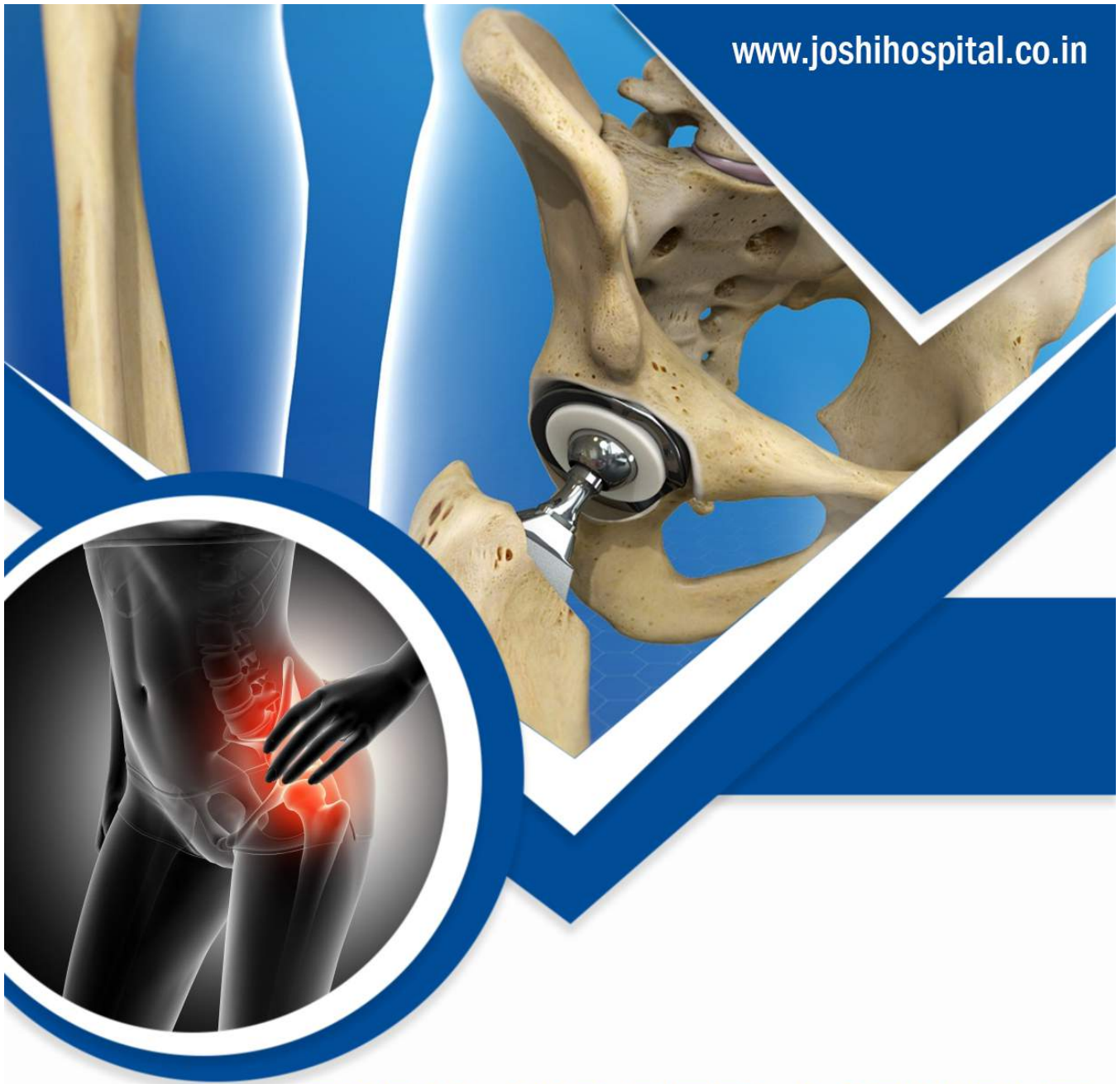


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# TOTAL HIP REPLACEMENT

(ADVICE & EXERCISE AFTER A TOTAL HIP REPLACEMENT)



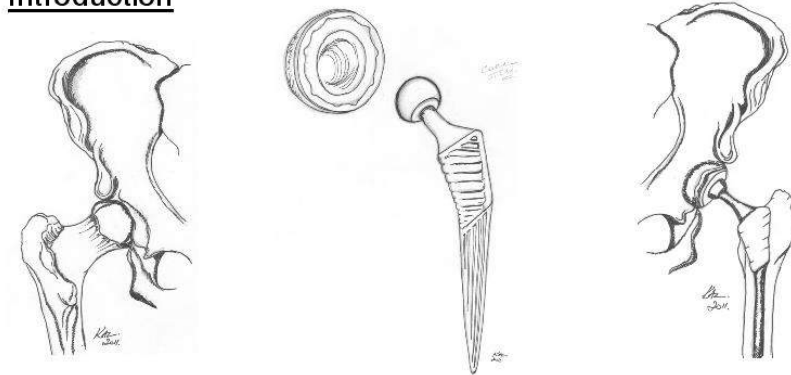
**JOSHI HOSPITAL MULTI SUPER SPECIALITY & TRAUMA CENTER**

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## Advice & exercises after a total hip replacement (THR)

### Introduction



The hip joint is a type of joint known as a ball and socket joint. The cup side of the joint is known as the acetabulum and the ball side as the head of femur. This joint is particularly prone to arthritis as it is one of the main weight bearing joints of the body. Both the surfaces of the cup and the head have a thin layer of cartilage covering them. In arthritis this erodes away and the bone surfaces begin to rub against each other causing pain and stiffness. In a total hip replacement the acetabulum is replaced either with a plastic or ceramic component and the head of the femur is replaced with a metal stem with either a metal or ceramic head which is inserted into the shaft of the femur.

Because of the position of the wound there is a slight risk of the hip dislocating until the soft tissue around the new hip has healed.

The advice in this booklet is designed to help reduce this risk and to help you to get the maximum benefit from your new hip.

To reduce the risk of dislocation we ask that you do not cross your legs for 6 weeks.

### General advice

#### Pain

- Having a joint replacement will relieve the arthritic pain from the joint itself. However, because of the trauma to the soft tissues surrounding the joint during surgery you should expect some pain.
- Taking your medication regularly and following the guidelines in this booklet should help to minimise this.
- On discharge some pain may persist for a further few weeks and you should use this as a guide when increasing your daily activities.
- A moderate ache which settles quickly is acceptable, severe pain which takes hours to settle is not.



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- If you experience a sharp pain, stop activity immediately.
- If symptoms persist, contact your GP for advice.

#### **Swelling**

- The swelling in the leg may persist for three months or more.
- If the leg is very swollen resting on the bed for an hour or so in the afternoons will help.
- If you wish you may also ice your thigh to help the swelling. You may use crushed ice, a gel pack or a pack of frozen peas which must be wrapped in a damp towel or tea towel before being placed on your thigh.
- Do not keep the ice pack on any longer than 10 minutes. Any longer than this and the body will increase the blood flow to the area in an attempt to warm the tissues up again. This will make the swelling worse. You can have a little as 20 minutes between ice packs.

#### **Infection**

- If the area around the wound becomes red, increasingly more painful, discharges pus or you become unwell with a high temperature contact your GP immediately.
- You must also contact your surgeon to organize an early review.

#### **Mobilising**

- If you have your operation in the morning you will be able to get out of bed in the afternoon, otherwise you will get up the next morning. You will initially be given a frame and will be progressed to crutches as soon as possible. How much weight you can put through your new hip is determined by your consultant. Most patients are allowed to fully weight bear but this will be confirmed by your physiotherapist when they see you after your surgery.
- You must initially use two crutches both indoors and out until you are confident to mobilise around the house with only one (held in the opposite hand) or none.
- Outdoors it is advisable to keep two crutches until you can mobilise without a pronounced limp. You may then use one or none depending on confidence.
- At your physio follow up your physiotherapist may progress you onto sticks when they feel it is appropriate; again you can go without these once you are walking without a limp or feel confident to do so.

#### **Points to aim for when walking**

- Make sure that both steps are equal in length.
- Try to spend the same amount of time on each leg.
- Always put the heel of each foot to the ground first.
- Gradually increase your walking distance and amount of activity that you do each day.





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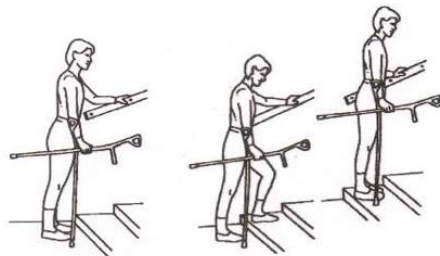
### Advice and exercises after a total hip replacement

#### Sitting

- To sit down, stand close enough to feel the chair against the back of your legs. Either let go of the walking frame and reach back to the arms of the chair with both hands or place both walking aids in one hand and place the other on the arm of the chair. Step your operated leg forward and gently lower yourself into the chair.
- To stand up place the operated leg out in front of you, push up with both hands on the arms of the chair, once balanced place hands on the frame or push up with one hand on the arm of the chair holding your walking aids in the other. Once balanced place crutches or sticks in both hands.
- Do not use the frame to pull yourself up or stand up or sit down with your hands still in the crutches.

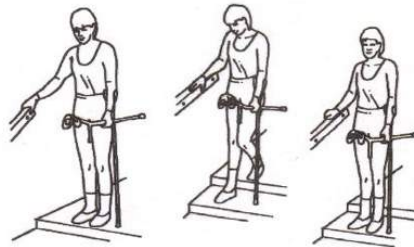
#### Stairs

To begin with it is better to go up or down the stairs one step at a time. Place the crutches or sticks in one hand and hold onto the rail with the other.



Going up you should place the un-operated leg on the step above first, followed by your operated leg and crutch or stick.

Coming down stairs you should place your operated leg together with your crutch/stick onto the step below first, followed by your un-operated leg last.



#### Getting in and out of bed

It is not necessary to get out of bed the same side as your operated hip and in the other side as long as you are careful to prevent yourself crossing your leg beyond the midline.

#### Getting in and out of the car

- Positioning the car: you should sit in the front passenger seat of the car after your operation as there is more leg room. Make sure the car is parked away from the kerb, so



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you can be on the same level as the car before you try to get in.

- Push the seat back as far as possible and slightly reclined. Go bottom first into the car and lower yourself slowly to the edge of the seat. Use your arms and lift your bottom further across the seat towards the driver's side. Lift your legs into the car slowly.
- A plastic bag will help you swivel your legs in more slowly, but must be removed before you drive off.
- Reverse this procedure to get out.

### Functional activities

- When dressing there are several aids which may be of benefit but these are not essential i.e. a helping hand, sock aid or long handled shoe horn. The occupational therapist (OT) will give you information on where these aids can be obtained.
- If your toilet is particularly low you might like to purchase a raised toilet seat to use for the first week or so but again this is not essential.
- Use the armrests to get in and out of your chair.
- Follow the advice from your occupational therapist on how to manage in the kitchen and bathroom.
- Washing: for the first 6-8 weeks after your operation you may struggle to get in the bath. If your shower is in the bath, once you are comfortable enough to stand on the new hip to get into the bath you may have a shower. Having a bath is more likely to take 6-8 weeks as it is the standing up from sitting which is the problem. If you do not have a walk in shower or access to one, you will have to have a stand up strip wash until you can get in the bath. You may initially require help to wash and dry your feet or may manage with a combination of a helping hand and/or a long handled brush/sponge.
- Dressing: before you come into hospital arrange your clothes so that you can reach them easily for the first week or so till the hip becomes less painful and more flexible. The dressing aids recommended by the occupational therapist will make dressing easier initially. If you have bought these aids it is advisable to use them for the minimal amount of time possible, as you want to be able to regain your flexibility as soon as possible.

To get dressed: collect your clothes and your three dressing aids (if using them) and sit somewhere comfortable before you start.

If you have purchased the dressing aids:

- 1) The helping hand can be useful initially for putting on underwear, trousers and skirts until you can bend far enough to do it yourself.
- 2) It is easier to put your operated leg in first when dressing and last when undressing.
- 3) The sock aid can be useful for putting on socks until you are flexible enough to do it yourself.





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- 4) The long handled shoe horn can be useful initially to put your shoes on, and to push your socks, stockings or tights off until you are flexible enough to do it yourself.
- In the kitchen: rearrange the contents of your fridge and cupboards so you can reach the more essential items without bending down; stocking the freezer with pre-cooked meals that can be reheated is also useful. A high stool is useful to sit on, for example, when you are preparing vegetables or for eating meals if you are unable to carry it to the dining table.
  - All heavy work i.e. vacuuming, making beds and cleaning should be done by somebody else.



### Driving

- In order to drive you need to be nearly pain free, not be dependent on walking aids, have a good range of movement and have sufficient reflexes to manage an emergency stop this is usually six weeks after your operation.
- Remember to have a “test drive” and practice an emergency stop with an experienced driver before driving on your own.
- It is advisable to contact your insurance company before you start driving as this may affect your policy.

### Work

- Check with the surgeon when you can go back to work.
- If you need a medical certificate for your employer, please ask the nurses before you leave hospital. Further certificates can be obtained from your GP.
- If you have a desk job you will be able to return sooner than if you have a very active job, this will be about 4-8 weeks as compared to 3 months for a physical job.
- Returning to a job that involves some light labour is permitted but those that involve heavy labour are not recommended.

### Sports and hobbies

- Recommended activities include walking, swimming, static bike, golf and dancing.
- Sports which involve high impact such as running and jumping should be avoided i.e. jogging, singles tennis, basketball, football.
- Activities such as roller skating, ice skating, horse riding, cycling on the road, downhill skiing maybe recommenced if you have participated in these activities before but they are considered high risk and should not be taken up as a new activity after a total hip replacement.
- Gardening is fine. Long handled tools may be useful when weeding etc and the heavy work should be left for 3 months.





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#### **Sex**

You should be the passive partner while you are recovering.

If you would like further advice please ask the OT.

#### **Travelling**

It is not advisable to fly within 6 weeks of having a joint replacement due to the increased risk of deep vein thrombosis (blood clot).

#### **Follow up on discharge**

- Your clinic appointment should be made by ward staff for 6-8 weeks after your operation.
- Physiotherapy follow-up is also arranged dependent on circumstances and where you live.

As discussed prior to your discharge to maximise the benefit gained from your joint replacement it is advisable to be reviewed by physiotherapy before your 6 week clinic appointment. To enable this review you must contact the appropriate physiotherapy department listed below to book an appointment. Please do not ring them before 2 weeks after discharge as they are unlikely to have your paperwork; but these appointments quickly become fully booked so do not leave it to the last minute.

You may be seen at the following hospitals, this being dependent on where you live and your ease of access to these hospitals.

If you live in central Reading, Tilehurst, Pangbourne, Theale, Mortimer, Burghfield, Earley, Lower Earley, Wokingham or Winnersh you may wish to contact:

Physiotherapy Department

Royal Berkshire Hospital

London Road

Reading

RG1 5AN

Tel: 0188 322 7812

If you live in Wokingham, Winnersh, Earley, Lower Earley, Woodley, Wargrave, Twyford or Crowthorne you may wish to contact:

Physiotherapy Department

Wokingham Community Hospital

41 Barkham Road

Wokingham RG41 2RE



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If you live in West Berkshire i.e. Newbury, Thatcham, Hungerford, Highclere you may wish to contact:

Physiotherapy Department  
West Berkshire Community Hospital  
London Road  
Benham Hill  
Thatcham RG18 2AS  
Tel: 01635 273362.

If you cannot arrange transport to any of these hospitals then a community visit can be arranged and in this case it is the community physiotherapist's responsibility to contact you. In order to arrange this visit we must know prior to your discharge that a home visit is necessary, but please be aware that the community physiotherapist's waiting list are usually 6 weeks or more.

If you do not live in any of the above areas physio follow-ups are done by the community physiotherapists or as an outpatient and it is their responsibility to contact you.

If you have any queries please do not hesitate to contact us on the phone number at the back of this booklet.

### Exercises

#### Day 0/1

The following exercises need to be done regularly throughout the day to reduce the risk of chest infection or blood clots in the blood vessels of the calf.

#### Deep breathing

Breathe in through the nose.

Hold for 2-3 seconds.

Breathe out through the mouth.

Do 3 or 4 deep breaths then rest.

Repeat 3 or 4 more deep breaths then relax.

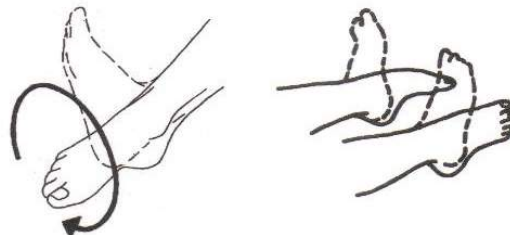
Repeat once more.

#### Circulatory exercises

Point and bend your ankles.

Circle you ankles in both directions.

Do a minimum of 10 of each exercise.



The following exercises need to be done 10 times each at least four times a day.





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#### Hip flexion on the bed

Sit or lie with your legs stretched out in front of you.

Slide the heel of your operated leg towards your bottom and allow your hip and knee to bend.

Slide your heel back down again.

Relax completely, repeat 10 times.



#### Hip abduction on the bed

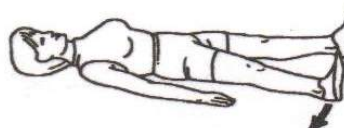
Sit or lie with your legs stretched out in front of you.

Keep both legs straight and your toes pointed towards the ceiling throughout the exercise.

Move your operated leg out to the side.

Return to the start position.

Relax completely, repeat 10 times.



#### Static quads

Sit or lie with your legs stretched out in front of you.

Tense your quadriceps muscles on the front of your thigh by pushing the back of your knee down into the bed and pulling your toes towards you.

Hold for a count of five. Relax completely. Repeat 10 times.

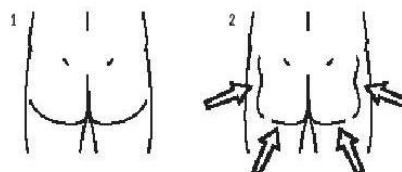


#### Static gluts

Squeeze your buttock muscles together.

Hold for 5 seconds, relax.

Repeat 10 times.



#### Mobilising

You will be able to get up on the same day as your surgery if your operation was in the morning but it is more likely that you would get up the day after your surgery. You can begin to mobilise with a frame, usually full weight bearing but this will be determined by your consultant.

It is likely that on your first time out of bed you will do little more than sit in your chair for a few hours or for as long as you feel comfortable. If you feel well enough to do so, you will be encouraged to mobilise to the toilet with a frame. It is possible for some patients to be good enough to progress to crutches within 24 hours of their surgery and even to manage stairs and be discharged from physio. Most patients will progress onto crutches and stairs and be discharged 2-3 days after their operation.

You can also try the following exercises:



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#### Full range quads

Sitting in the chair, pull the toes of the operated leg towards you.  
Tense the muscles at the front of the thigh and straighten the knee.  
Hold for a slow count of 10 then relax.  
Repeat 10 times.



#### Knee flexion in sitting

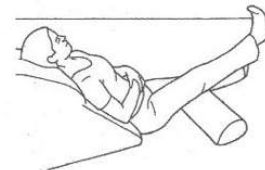
Sitting in the chair, with the foot on the floor bend the knee as far as possible.  
Hold for 2-3 seconds, then relax.  
Repeat 10 times.



The following exercises can be started once you are confident enough to do so.

#### Inner Range Quads

With a rolled up towel under your knee.  
Tighten your thigh muscles to lift your heel off the bed.  
Hold for 10 seconds. Relax.  
Repeat 10 times.



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#### Abduction in standing

Hold onto a support, stand on your good leg and lift the operated leg out to the side.  
Then lower slowly and relax.  
When doing this exercise keep your toes pointing forwards and do not lean over to the other side.  
Repeat 10 times.



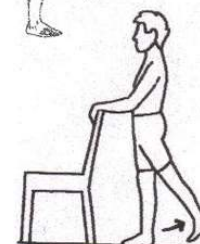
#### Hip flexion in standing

Hold onto a support.  
Bend your knee up towards your chest as far as you can.  
Relax. Repeat 10 times.



#### Hip extension in standing

Holding onto a support, take your operated leg backwards as far as possible.  
Hold for a few seconds and then relax.  
When doing this exercise keep your trunk upright and avoid leaning forward.  
Hold for a few seconds, relax, repeat 10 times.





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The following information and exercises are guidelines only. Everybody is an individual, some of you will find that you meet the targets documented easily and some of you will never achieve them. The same applies to the exercises; some of you will find them easy and others will not be able to manage them particularly the advanced ones. Only do those you feel comfortable with.

#### Discharge – 2 weeks

Continue the exercises that you were shown in hospital. Be aware now that you are home you may feel more tired, this is normal and may take a few weeks to go away. You may still need to rest for part of the day.

You should be confident mobilising around the house and should be able to begin mobilising outside. Mobilise as far as you feel comfortable doing so, there is no minimal or maximal distance.

When negotiating a kerb place both crutches down first, then the operated leg followed by the non-operated leg. Going up the kerb, put the non-operated leg first followed by the operated leg and then the crutches (the same as you would for stairs).

#### 2-3 weeks post op

At this point all total hips should continue to use to crutches outside but you may find that you can manage with 1 crutch around the house (held in the opposite hand to your hip replacement). Continue to increase the distance you walk each day.

Once the clips have been removed or the wound fully healed if it has been glued you may start to massage the scar if you wish, this will help loosen and soften the scar.

Massage the scar with your thumb, making small circular movements along the incision. Change direction of the circles frequently. Do 10-15 circles in each area, then move about one inch along the scar and repeat.

Use of creams such as body lotion, vitamin E cream or E45 is purely one of personal choice; they will not harm the scar and will probably make the massage more comfortable.

You can now try the following exercises as well if you wish.

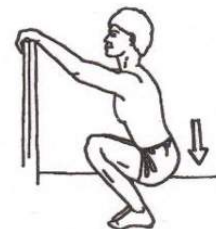
#### Half squats

Stand holding onto something solid.

Bend both knees.

Go as far as you can comfortably then return to the upright position.

Repeat 10 times.



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#### Heel raises in standing

Stand, holding onto something solid.

Rise up and down on your toes, lifting your heels off the ground.

Repeat 10 times.



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#### 3-4 weeks post-op

Continue with the above exercises and continue to increase the distance that you walk outside, some patients by this time may be comfortable walking as much as a mile a day.

Hopefully you may feel confident enough to go to the local shop or supermarket. A handy tip when shopping is to use a trolley as a walking frame.

If you have an automatic car and have had a left hip replacement and are comfortable to do so you may be able to drive.

#### 4-6 weeks post op

You should have an outpatient physio appointment arranged where your progress will be reviewed and further advice and exercises provided. Some patients if you have no limp will be able to manage no walking aids or 1 stick only at this point some may still require two. You hopefully should be confident to mobilise outside on your own with or without walking aids. Around the house you may be able to manage without any walking aids. Travelling as a passenger in a car should now be more comfortable over short distances but longer distances may still be uncomfortable. You may be able to drive at this point if you have little or no pain and have sufficient reflexes to be able to do an emergency stop. If you have a static bike you may be able to start using this now. It is advisable to have the seat slightly higher than you would normally for comfort. Start with no resistance initially and increase this as you become stronger. If at first you cannot make a full revolution of the pedals spend a few minutes rocking the pedals backwards and forwards as a warm up. If after the warm up you still cannot pedal correctly continue with the rocking motion pushing to end of range and holding for a few seconds; rock or pedal for 5-10 minutes three times a day and gradually increase the length of time as the hip becomes more comfortable.

If the wound has completely healed and you can get into a swimming pool safely you may like to do the following exercises in water but you cannot start breast stroke until 6 weeks after your operation.

How long you exercise will be dependent on the temperature of the water and your exercise tolerance.



#### Marching on the spot

Stand holding onto the edge if necessary.

March on the spot.

Do this for a few minutes.



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### Advice and exercises after a total hip replacement

#### Half squats

Stand, holding onto the edge if necessary.

Bend both knees as far as comfortable. Repeat 10 times.

If you wish to make this exercise harder do it as a single leg squat.



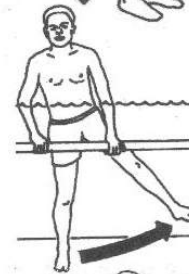
#### Hip abduction in standing

Stand holding onto the edge if necessary.

Take the operated leg out to the side, hold for a few seconds, relax and return to the middle.

Make sure that the toes remain pointing forward and you do not lean to the opposite side.

Repeat 10 times.

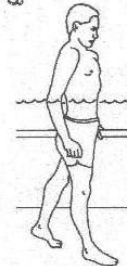


#### Hip extension in standing

Stand, holding onto the edge if necessary.

Take the operated leg out behind you, taking care not to lean forward at the same time.

Hold for a few seconds, relax and repeat 10 times.



#### External rotation in standing

Stand holding onto the edge if necessary.

Bend your hip as far as possible but not beyond 90 degrees for the first 6 weeks.

Twist your knee outwards keeping your foot next to your other knee.

Return to the middle, repeat 10 times.

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#### Walking exercises

- Walking forwards – concentrate on spending equal time on each foot.
- Walking backwards – good for strengthening the buttock muscles and the muscles at the back of the thigh.
- Walking sideways – take one leg out to the side, then bring the other towards it. Practice leading with both the right and the left leg.

#### Floating exercises

If you are comfortable floating you can try the following exercises. Holding onto the side of the pool or placing a float around your waist will help keep you on the surface.



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#### Hip extension

Floating on your back, try and lower your operated leg towards the bottom of the pool, return to the surface, repeat 10 times.

#### Knee towards chest

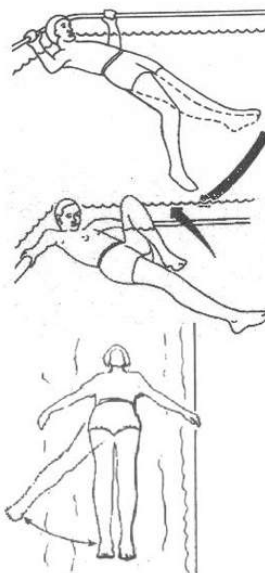
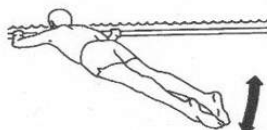
Bring your knee towards your chest, push out straight, repeat 10 times.

#### Hip abduction

Take your leg out to the side as far as possible, return to the middle, repeat 10 times.

#### Floating on your front

Hold onto the side of the pool, pull your knees towards your chest then push your legs straight as hard as you can. Repeat 10 times.



These exercises can be advanced by increasing the number of repetitions of each exercise or by increasing the speed at which you do them. It is also possible to make them harder by placing a float (i.e. a child's armband or small rubber ring around your ankle or by wearing fins. Most public pools do not allow the use of fins so check with the pool first. More advanced pool exercises include:

- Jumping up and down in the pool.
- Crunch jumps – jumping up and down, but bringing your knees towards your chest.
- Running on the spot.
- Hopping side to side on both legs.
- Hopping forwards and backwards on both legs.
- Star jumps.

#### 6-8 weeks

You should now be able to mobilise around the house and outside without walking aids if you are not doing so already.

If not doing so already you should be able to drive a manual car if you meet the criteria detailed in the introduction.

You may also return to a sedentary job, if you can get to work.

It is no longer necessary to avoid crossing your legs.

If you would like a bath please try it first with no water and fully dressed to make sure that you can get out easily.





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### Advice and exercises after a total hip replacement

The following exercises can now be tried, but they are quite difficult and you may not succeed initially but persevere.

#### Single leg balance

Hold onto something solid.

Put all of your weight onto the operated leg and lift your good leg backwards off the ground by bending your knee.

To make this exercise harder, let go of your support.

Aim to build up to holding this position for up to 30 seconds, repeat 5 times.



#### Step ups

Stand facing the stairs.

Place operated leg on the bottom step.

Hold onto the banister, and try and lift your weight up on the operated leg and place your other foot on the bottom step.

Lower the good foot back down to the floor.

Repeat 10 times.



#### Step downs

Stand on the bottom step facing down the stairs.

Hold onto the rail.

Try and lower your good leg to the floor.

Straighten up and return foot to the bottom step.

Repeat 10 times.



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#### Hip extension in prone

Lying on your front try and lift the operated leg towards the ceiling.

Hold for a few seconds, relax.

Repeat 10 times.



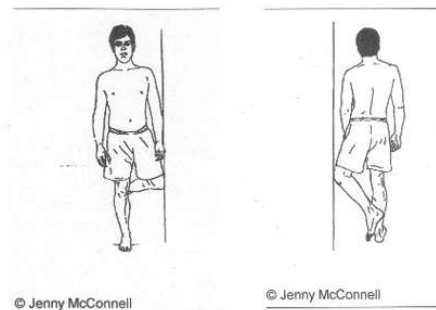
#### External rotation against a wall

Stand with your good leg against the wall.

Bend the knee of your good leg and rest your good foot against the knee of your operated leg.

Twist your good leg outwards pushing your knee into the wall.

Hold for 10 seconds, relax, repeat 10 times.



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### Advice and exercises after a total hip replacement

#### Bridging

Lie on your back with your knees bent.

Tuck your hips under and lift your bottom off the bed until your hips are in a straight line with your knees and shoulders.

Hold for a slow count of 10.

Relax and repeat.



#### Clam shell

Lie on your opposite side.

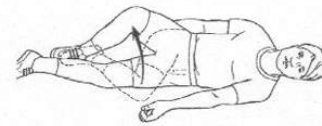
Bend both knees.

Twist your top leg until your knee is pointing towards the ceiling or as far as you can.

Do not allow your hips to roll backwards.

Hold for a few seconds, relax.

Repeat 10 times.



#### Hip abduction in side lying

Lie on your good side, with the knee of your operated leg straight or only slightly bent. Lift your leg towards the ceiling taking care to not turn the toes towards the ceiling or to roll backwards.

Hold for a slow count of 10, relax and repeat 10 times.

### 3-6 months

Continue with the exercises that you find of most benefit.

Most of the swelling should now have resolved but some may remain.

It may also be possible to do the stairs normally.

You can now also return to golf, cycling on the road, doubles tennis, dancing, gardening including cutting the grass and light digging.

You may also return to light physical work.

### 6 months

You should now be back to full activities with the exception of high impact sports.

All swelling and stiffness should have resolved, but there may still be some weakness of the muscles of the hip.



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### 1 year

You should now be fully recovered and able to carry out all activities of daily living without problems.