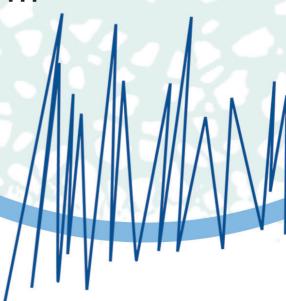


# Ablation procedures

A patient's guide and consent form





#### Instructions for clinicians

- · Apply addressograph label above and on both consent pages
- Strike through pages that do not apply to this patient
- Complete consent form indicating page numbers that refer to risks and benefits of intended procedure
- Remove copy page of consent form for filing in patient notes
- Advise patient to keep this booklet and consent form throughout their treatment pathway and to bring it to all appointments

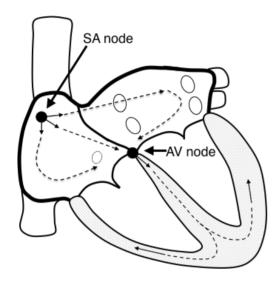
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#### **Cardiac electrophysiology**

#### Normal heart function

The heart is a muscular pump which delivers blood containing oxygen to the body. It is divided into two upper chambers, or atria, which collect blood returning via the veins, and two lower chambers, called ventricles, which pump blood to the body and lungs.



Normally, the heart beats in a regular organised way at a rate of 60 to 100 beats per minute. This is because it is driven by a specialised area of muscle in the right atrium called the sino-atrial (SA) node which emits electrical impulses.

These impulses spread through the atria making the atria contract and pump blood through to the ventricles. The impulses are channelled through another area of special cells called the atrio-ventricular (AV) node into the ventricles and then spread throughout the ventricles making them contract and pump blood to the body and lungs. The normal pathway the electrical impulses follow is called the conduction system.

The SA node controls the timing of the heart according to the needs of the body. An example of this is shown during exercise, when the heart rate speeds up.

When the heart is beating normally like this we refer to it as sinus rhythm or normal sinus rhythm.

## Heart rhythm disturbance (arrhythmia)

Sometimes the electrical impulses travel through the heart in a different direction. This can be because of extra electrical connections known as accessory pathways or sometimes changes in the heart tissue that send the electrical impulses in abnormal directions.

Often these pathways or changes are present from birth, but may start to work only in adulthood. Sometimes the heart has an extra electrical impulse that does not start from the SA node; this is called an ectopic beat.

If the abnormal rhythm involves the upper chambers of the heart, the atria, this is called a supra-ventricular tachycardia or SVT for short. This type of heart rhythm disturbance is not life threatening, but can cause unpleasant symptoms and interfere with your quality of life.

If the abnormal heart rhythm arises from the lower chambers, the ventricles, it is known as ventricular tachycardia, or VT. This can be dangerous, particularly if it is associated with fainting. VT is also explained separately later in this booklet.

Some heart rhythm disturbances can be identified by a simple heart tracing known as an ECG tracing, while others require more detailed investigation. This may include an electrophysiology study (EPS) which is explained on page four.

Your doctor or arrhythmia specialist nurse will indicate which pages of this booklet apply to your procedure.

## The catheter laboratory

All of the electrophysiology (EPS) and catheter ablation procedures described in this booklet are done in the Catheter Laboratory (Cath Lab) which is a room similar to an operating theatre.

There will be a team of people present,

some of whom you may have met before. The doctor who specialises in heart rhythm management and an electrophysiologist will carry out the procedure with the help of a cardiac physiologist, who provides technical support.

Cardiology trainees may be involved in your treatment. The nurses will look after you and assist the doctor and the radiographer, who will assist with the X-ray equipment.

#### **Electrophysiology procedures**

#### Pre-procedure preparation

Some procedures will require you to undergo additional investigations prior to or at the time of your procedure. This may include a transthoracic echo, trans-oesophageal echo, CT scan or coronary angiography.

If you are taking anti-arrhythmic drugs (AADs) to control your symptoms, it may not be possible to start the arrhythmia. For this reason, you may be asked to stop taking your AADs for a few days prior to the EPS procedure.

If you take warfarin you may be given specific instructions about monitoring your dosage and reporting blood test results to the arrhythmia specialist nurses (ASNs). You do not have to stop warfarin unless advised to by the ASNs. If you take Apixaban, Rivaroxaban, Edoxaban or Dabigatran to thin the blood you do not have to stop unless advised to by the arrythmia specialist nurses.

It is very important to follow these instructions carefully as failing to do so may delay your EPS procedure.

## **During the procedure**

During the procedure you will be lying flat on your back and will have several sticky pads on your back and chest which allow the doctor to record the electrical activity coming from your heart. You will be covered over with sterile paper sheets but will not have your face covered.

Electrophysiology procedures are minimally invasive procedures performed either using a general anaesthetic where you are put to sleep by an anaesthetist, or using a local anaesthetic. If you have local anaesthetic you will also be given some pain relief and sedation drugs through a cannula in your arm, which make you feel relaxed and sleepy.

If you are uncomfortable during the procedure it is important that you tell the nurse immediately, so we can top up the pain relief medication.

Fine wires (catheters) are passed through a small tube into a vein (and occasionally an artery) at the top of your right leg. These are passed along the blood vessels and into your heart, using X-ray as a guide.

Once the wires are in place, the electrical activity can be mapped from inside the heart. If the abnormal rhythm is not happening already, the doctor will try to start it artificially. This is done by stimulating the heart electrically via the wires positioned in your heart.

This sometimes needs the addition of drugs that are administered via the cannula in your arm. This is likely to feel similar to your usual palpitations but sometimes can be uncomfortable and cause anxiety.

The sedative and pain relief drugs given at the start of the procedure should avoid this being too unpleasant, and you can ask for further doses if you need them. It is possible to put the heart back to a normal rhythm within a few seconds by delivering some more extra beats. After the procedure, all the catheter wires are removed, and a small dressing will be applied to the area at the top of your leg. Most of the sticky pads will be removed and you will be returned to the ward for observation and something to eat and drink before being allowed home.

#### After the procedure

Most people recover quickly from the ablation procedure and you should feel well enough to carry on with normal activities after a few days.

You may see some bruising around the groin area and may feel a small pea or marble sized lump near where the wires were put into your leg. This is normal and will disappear gradually over a few days or weeks. If the lump is any bigger than this or if you experience any pain or redness around the area, please **contact your GP**.

If your groin bleeds, please do not panic. Lie down flat and get someone to apply pressure to your groin until the bleeding stops. This can take up to 10-15 minutes.

You will have a small plaster over the incision site, which should be removed the day after your procedure. You may bath or shower the day after your procedure. Avoid putting talcum powder on or around the wound site until the wound has healed.

It is not unusual to have some chest discomfort after the procedure which should settle gradually over about a week. You can treat this with simple pain relief medication (eg paracetamol); it is usually best to take this regularly for a few days.

Most people experience some palpitations after an ablation procedure. This is a normal part of the recovery process. It occurs because the area immediately around the ablation site is inflamed and irritable, which can give rise to extra electrical impulses.

It may take a few weeks for this to settle down and rarely requires any treatment. If palpitations happen it is best to sit quietly for a few minutes and relax because anxiety can make the palpitations worse.

If the palpitations do not seem to be settling or you are concerned about how you feel you should contact the arrhythmia specialist nurse (ASN) helpline (see below).

In the very unlikely event that you feel very unwell, have chest pains or if you lose consciousness during the palpitations, you should call **999** for an ambulance.

You should avoid heavy lifting and strenuous exercise for seven to ten days to reduce the risk of bruising or bleeding to the groin site.

You are advised to have at least two days off work or a week off if you are expected to be driving or on your feet most of the time at work.

DVLA guidance states that you must not drive for two days after a catheter ablation. If you hold a group 2 vocational driving licence, there are greater restrictions on resuming driving. You should discuss the rules about this with your doctor or the arrhythmia specialist nurse (ASN).

The team of people involved in your care will include your doctor and arrhythmia specialist nurses (ASNs) at Royal Papworth, a cardiologist at another hospital if you have one, and your GP.

If you take blood thinning drugs the team will also include your local anticoagulant service.

If you have a pacemaker you will also see a cardiac physiologist who will check your device either at Royal Papworth or your local hospital.

Arrangements will be made for you to be followed up by the most appropriate members of this team. This will involve either an outpatient clinic visit or by a telephone consultation.

When you leave hospital, you will be given written instructions about specific aftercare. Within one to two weeks, your doctor will write to your GP about your procedure and ongoing management arrangements and you will receive a copy of that letter.

#### **Risks**

All medical procedures carry some risks and electrophysiology studies and catheter ablations are no exception. The risks will vary depending on which procedure you are having and are highlighted individually.

## Further help and advice

If you have questions, concerns or are having on-going symptoms please contact the arrhythmia specialist nurse (ASN) helpline on **01223 638947**.

## **Diagnostic procedures**

## **Electrophysiology study**

If it is not clear from the ECG tracing where the heart rhythm disturbance is coming from, your doctor may choose to map the electrical activity from inside your heart.

This process is called an electrophysiology study (EPS). This may be done as a single procedure, so the best course of treatment can be discussed with you.

Alternatively, if you are having an ablation, which is explained separately in this booklet, you may have an EPS at the beginning of that procedure.

#### **Benefits**

The benefit of having an EPS is to determine where the abnormal electrical activity is coming from. This will help us to offer the most appropriate treatment and to plan an ablation procedure if this is recommended.

#### **Risks**

• Groin bleeding/vascular damage 1% (1/100)

The procedure typically takes one hour.

## **Diagnostic procedures**

## Ventricular tachycardia stimulation

Another form of diagnostic study is called a ventricular tachycardia stimulation (VT Stim). This is performed as a single procedure to see how easily a fast and potentially dangerous rhythm can be induced.

#### **Benefits**

The benefit is to determine the likelihood of spontaneously developing dangerous heart rhythms and to enable the most appropriate treatment plan to be discussed with you.

#### **Risks**

- Groin bleeding/vascular damage 1% (1/100)
- Arrhythmia requiring shock 10% (1/10)

The procedure typically takes one hour.

#### **Catheter ablation**

Once we know the origin of your arrhythmia, either by ECG or EPS, an ablation procedure may be recommended to reduce or stop your symptoms.

Heart rhythm disturbances may be treated in a variety of ways and for many years drugs have been used to suppress fast heart beats.

Over the past 25 years a technique called **catheter ablation** has been developed as a treatment for a variety of heart rhythm problems. Catheter ablation aims to cure or reduce the abnormal heart rhythm by destroying or blocking the abnormal pathway that the impulses are following which should stop or reduce the palpitations.

The catheters positioned in your heart can be used to ablate the abnormal pathway or tissue by delivering a form of energy down the catheter to the target area within your heart.

The energy used could be a heat source called radio frequency energy which burns the tissue, or cryotherapy which freezes the area.

Both methods destroy a small targeted area by changing the muscle tissue into scar tissue which is unable to conduct the electrical impulses.

Usually the ablation is done in stages so there can be periods during the procedure where it may seem nothing is happening. This is because it is necessary to wait to see if there is a recurrence of the abnormal rhythm after some ablation has been done, before going on to do some more.

There are several different ablation procedures used to treat different heart rhythm disturbances detailed in the following pages. Your doctor or nurse will have indicated which pages you should read and have crossed through those which do not apply to you.

If you are unsure, please contact the arrhythmia specialist nurse help line on 01223 638947 for further advice.

#### **AV** node ablation

AV node ablation is used to manage atrial fibrillation (AF) by completely stopping the AF impulses from reaching the ventricles.

This procedure is chosen when other AF treatments are either inappropriate or have been unsuccessful. A permanent pacemaker must be inserted either at the time of or prior to your AV node ablation.

Your doctor will decide on the most appropriate timing for your individual circumstances.

A pacemaker is implanted under the skin, usually on the left side of your chest below your collar bone, with wires threaded along inside a vein and down into your heart.

Once in position, the pacemaker is ready to send electrical impulses to stimulate your heart to beat regularly after the ablation procedure.

The pacemaker will need to be checked at least once each year which can be done at your local hospital.

The device lasts for approximately **seven to ten years** and will need to be replaced at these intervals.

The aim of the AV node ablation is to ablate all the conducting tissue at the AV node to prevent any impulse from reaching the ventricles.

Once this has been done, the heart is stimulated to beat by the pacemaker alone.

#### **Benefits**

The benefit of having a pacemaker and AV node ablation is that it may stop the irregular heart beat and associated symptoms of AF.

You may also be able to discontinue the drugs used to control your heart rhythm.

#### **Riks**

#### Risks of AV node ablation:

- Groin bleeding/vascular damage 1% (1/100)
- Pericardial effusion 1% (1/100)

#### Risks of pacemaker implantation:

- Localised bleeding/bruising 1% (1/100)
- Infection 1% (1/100)
- Pneumothorax 1% (1/100)
- Lead displacement 1% (1/100)
- Infection (subsequent generator change) 2% (2/100)

These procedures typically take one to two hours.

## Supraventricular tachycardia

Usually the electrical impulses in SVT are organised and follow one of a number of defined pathways. Once the pathway is identified it can be ablated or removed.

The success rate of SVT ablation at Royal Papworth Hospital is considered to be **90 to 95**% with a single procedure. However, the ability to ablate certain types of SVT is dependent upon your heart arrhythmia being triggered on the day.

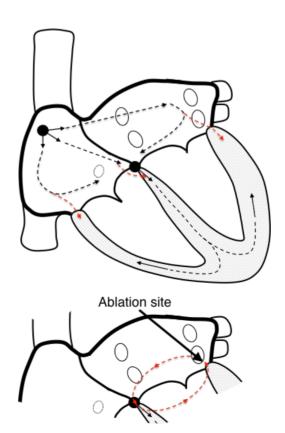
#### **Benefits**

The benefit of having a catheter ablation for SVT is that it may cure the heart rhythm disturbance completely and prevent the need to take medication to control palpitations and associated symptoms.

#### **Risks**

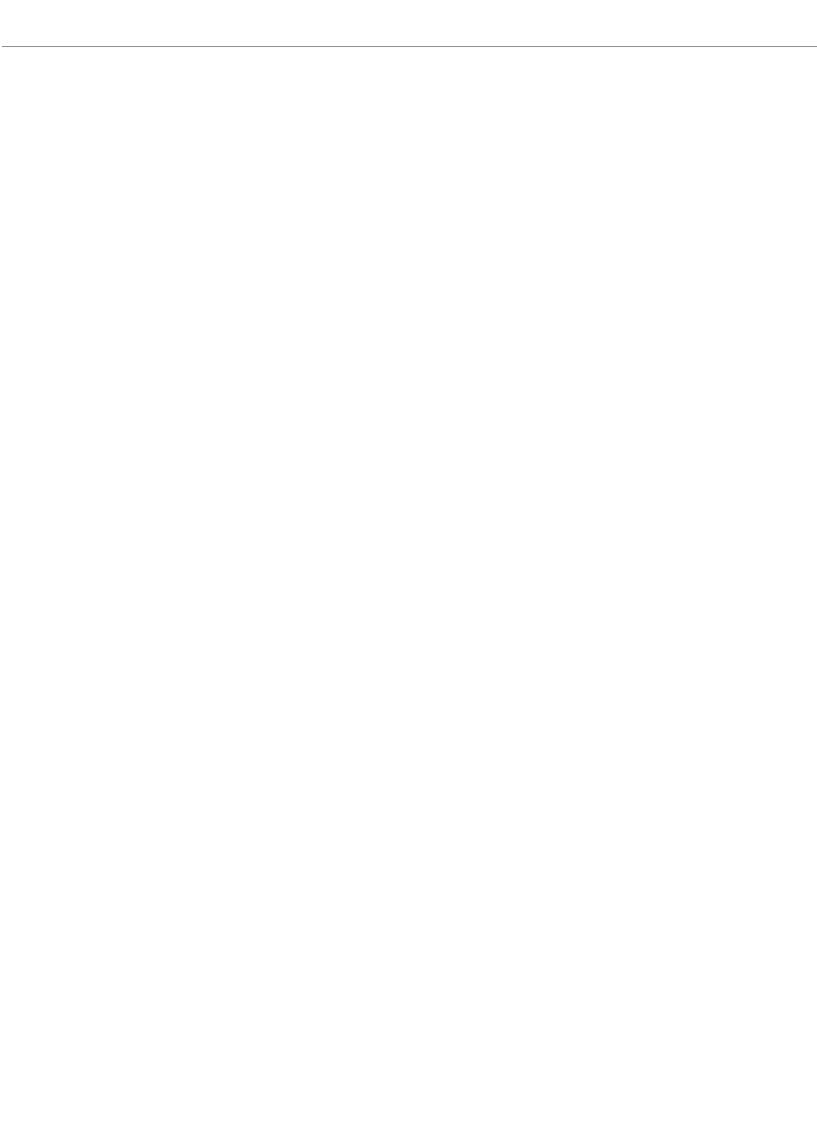
- Groin bleeding/vascular damage 1% (1/100)
- Need for permanent pacemaker 1% (1/100)
- Pericardial effusion (bleeding around the heart) 0.2% (1/500)
- Stroke 0.1% (1/1000)

The procedure typically takes two hours.



Please affix patient label or complete details below. Full name:	PIC 127: patient agreement to PI 127 - electrophysiology procedure			
Hospital number:	Intended procedure/surgery			
NHS number:  DOB:				
Statement of health professional (To be filled in by health professional with appropriate knowledge of proposed proce as specified in consent policy). I have explained the procedure to the patient. In particular have explained:  The intended benefits:  As detailed on page of this booklet	edure, ained · I	Statement of patient Please read the patient information and this form carefully.  If your treatment has been planned in advance, you should already have your own copy which describes the benefits and risks of the proposed treatment. If not, you will be offered a copy now.		
Significant, unavoidable or frequently occurring risks: As detailed on page of this booklet		If you have any further questions, do ask - we are here to help you. You have the right to change your mind at any time, including after you have signed this form.		
Any extra procedures, which may become necessary during the procedure:  Blood transfusion		<ul> <li>I understand what the procedure is and I know why it is being done, including the risks and benefits.</li> </ul>		
Other procedure - please specify	below: 	<ul> <li>I agree to the procedure or course of treatment described on this form and have read this information leaflet on ablation procedures (PI 127) and had the opportunity to ask questions.</li> </ul>		
I have also discussed what the procedure is to involve, the benefits and risks of any av- alternative treatments (including no treatment and any particular concerns of this patient	vailable ment)	<ul> <li>I agree to the use of photography for the purpose of diagnosis and treatment and I agree to photographs being used for medical teaching and education.</li> </ul>		
This procedure will involve:		I understand that any tissue removed as		
General anaesthesia		part of the procedure or treatment may be used for diagnosis, stored or disposed of as appropriate and in a manner regulated by		
Local anaesthesia and sedation		appropriate, ethical, legal and		
Consultant/Performer		professional standards.		
Signed:	<ul> <li>I understand that any procedure in addition to those described on this form will be carried out only if necessary to save my life or to prevent serious harm to my health.</li> </ul>			
Date:				
Name (PRINT):		<ul> <li>I have listed below any procedures which</li> </ul>		
Job title:	I have listed below any procedures which I do not wish to be carried out without further discussion:			
Contact details (If patient wishes to discuss options later)				

Please affix patient label or complete details below.  Full name:  Hospital number:  NHS number:  DOB:	Royal Papworth Hospita  NHS Foundation Trust		
I have been told in the past by Public Health that I am at increased risk of CJD (Creutzfeldt-Jakob disease) or vCJD (variant Creutzfeldt-Jakob disease).  Yes (Health professional to refer to Trust CJD procedure DN92.)  No	Confirmation of consent  (To be completed by a health professional when the patient is admitted for the procedure, if the patient has signed the form in advance).  On behalf of the team treating the patient, I have confirmed with the patient that they have no further questions and wish the procedure to go ahead.		
Patient  Patient signature:  Date:  Name (PRINT):	Signed:		
Statement of interpreter (where appropriate).  I have interpreted the information above to the patient to the best of my ability and in a way which I believe he/she can understand.  Signed:  Date:  Name (PRINT):	Important notes (tick if applicable).  Patient has advance decision to refuse treatment (e.g. Jehovah's Witness form)  Patient has withdrawn consent (ask patient to sign/date here)  Patient signature:		
A witness should sign below if the patient is unable to sign but has indicated his or her consent. Young people/children may also like a parent to sign here (see notes).  Signed:	Name (PRINT):		
Name (PRINT):			



## **Typical atrial flutter**

The electrical impulses in typical artrial flutter are organised and follow a defined circuit around the right top chamber. Ablation across a section of the circuit blocks the electrical impulse and prevents it from recurring.

The success rate of atrial flutter ablation at Royal Papworth Hospital is considered to be 95% with a single procedure.

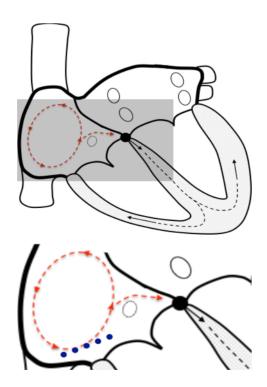
#### **Benefits**

The benefit of having a catheter ablation for atrial flutter is that it may cure the heart rhythm disturbance completely and prevent the need to take medication to control palpitations and associated symptoms. Some patients who have had successful ablation for typical atrial flutter can later develop atrial fibrillation (AF).

#### **Risks**

- Groin bleeding/vascular damage 1% (1/100)
- Need for permanent pacemaker <1% (1/100)</li>
- Pericardial effusion (bleeding around the heart) 0.2% (1/500)

The procedure typically takes two hours.



## **Atypical atrial flutter**

The electrical impulses in atypical atrial flutter may take a less well-defined circuit. It is necessary then to first identify (map) the abnormal circuit or location of abnormal impulses before determining the area for ablation.

The success rate of atypical atrial flutter ablation at Royal Papworth Hospital is considered to be 80 to 90% with a single procedure. However, the ability to ablate certain types of arrhythmia is dependent upon your heart arrhythmia being triggered on the day.

#### **Benefits**

The benefit of having a catheter ablation for atrial arrhythmias is that it may cure the heart rhythm disturbance completely and prevent the need to take medication to control palpitations and associated symptoms.

#### **Risks**

- Groin bleeding/vascular damage 1% (1/100)
- Need for permanent pacemaker <1% (1/100)</li>
- Stroke <1% (1/100)</li>
- Pericardial effusion (bleeding around the heart) 0.2% (1/500)

The procedure typically takes two to three hours.

## **Atrial tachycardia**

The electrical impulses in atrial tachycardia arise from an abnormal focus in the top chambers of the heart. It is necessary then to first identify (map) the location of abnormal impulses before determining the area for ablation.

The success rate of atrial tachycardia ablation at Royal Papworth Hospital is considered to be 80% with a single procedure. However, the ability to ablate certain types of arrhythmia is dependent upon your heart arrhythmia being triggered on the day and this type of arrhythmia can be difficult to trigger.

#### **Benefits**

The benefit of having a catheter ablation for atrial arrhythmias is that it may cure the heart rhythm disturbance completely and prevent the need to take medication to control palpitations and associated symptoms.

#### Risks

- Groin bleeding/vascular damage 1% (1/100)
- Need for permanent pacemaker <1% (1/100)</li>
- Stroke <1% (1/100)</li>
- Pericardial effusion (bleeding around the heart) 0.2% (1/500)

The procedure typically takes two to three hours.

## **Atrial fibrillation**

The abnormal electrical activity in AF is triggered and sustained from openings in the left atrium where the pulmonary veins return blood from the lungs. Hundreds of abnormal impulses occur in a random and chaotic manner, bombing the AV node continuously.

The AV node allows as many impulses as possible to go through to the ventricles but there is no pattern to this which causes the ventricles to pump in an irregular manner. This rhythm may cause symptoms including palpitations, fatigue and breathlessness. This is when AF ablation may be of benefit.

#### AF classification:

Paroxysmal AF - starts/stops spontaneously

**Persistent AF** - does not stop spontaneously

Permanent AF - continues despite treatment

Catheter ablation for AF involves electrically isolating the pulmonary veins from the surrounding atria. Pulmonary vein isolation (PVI) is the procedure used for an AF ablation and the two terms are often interchanged.

#### There are several techniques used to achieve PVI:

Single closely spaced ablations, continuous lines created by ablation, freezing or electrophoresis are used depending on several factors which will be discussed prior to your procedure.

PVI does not stop the abnormal impulses occurring, but the aim is to block them with a line of scar tissue in order to stop them stimulating the rest of the heart.

In general, antiarrhythmic drugs and blood thinning drugs are continued after the ablation for at least two to three months. Individual instructions may be given following the procedure and documented in the discharge summary.

The success rate of AF ablation at Royal Papworth Hospital is different for paroxysmal and persistent AF:

- In paroxysmal AF, the success rate is considered to be 70 to 75% with a single procedure.
- For persistent AF the success rate for a single procedure is lower, at 50 to 60%.
- When needed, the success rate following a second procedure is 80%.

Success refers to symptom reduction rather than cure.

A small number of patients suffer with headaches/migraines for a week or two after the ablation likely due to the small puncture made from the right atrium to the left atrium during the procedure. Regular pain relief is recommended.

Some patients may find their resting heart rate sits 10 – 20 beats per minute higher than before

the ablation and this generally settles with time. Dry cough is rare and settles with time.

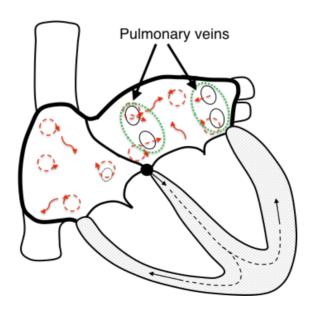
#### **Benefits**

The benefit of having a catheter ablation for atrial fibrillation is that it may control the heart rhythm disturbance and prevent the need to take medication to control palpitations and associated symptoms.

#### **Risks**

- Groin bleeding/vascular damage 2% (1/50)
- Stroke 1% (1/100)
- Pericardial effusion (bleeding around the heart) 1% (1/100)
- Vagus nerve injury 2% (1/50) (gastric symptoms)
- Phrenic nerve injury 1% (1/100) (to the diaphragm)
- Pulmonary vein narrowing <1% (1/100)</li>
- Atrio-oesophageal fistula (hole between heart and gullet) 0.1% (1/1000)
- Death 0.05% (1/2000)

The procedure typically takes three hours.



#### Premature ventricular contractions

Premature Ventricular Contractions (PVCs) or ventricular ectopics are spontaneous extra beats arising from the bottom chambers of the heart. They are most often completely safe and do not need any specific treatment. However, if they occur in sufficient numbers they can cause uncomfortable symptoms and in rare occasions impair the overall function of the heart. In these situations, ablation may be recommended.

It is necessary to first identify (map) the location of the abnormal impulses responsible for the extra beats which then can be targeted with ablation.

The success rate of ablation of these extra beats at Royal Papworth Hospital is considered to be 80% with a single procedure. However, the ability to ablate them is dependent on their frequency at the time of ablation to allow accurate mapping.

#### **Benefits**

The benefit of having a catheter ablation for PVCs is that it may cure the heart rhythm disturbance completely and prevent the need to take medication to control palpitations and associated symptoms. In addition, any impairment of heart function may improve.

#### **Risks**

- Groin bleeding/vascular damage 1% (1/100)
- Pericardial effusion (bleeding around the heart) 1% (1/100)
- Stroke 0.1% (1/1000)
- Heart attack <0.1% (1/1000)</li>

The procedure typically takes two to three hours.

## Ventricular tachycardia

Ventricular tachycardia (VT) can occur in patients with inherited cardiac conditions or as a result of scarring caused by heart attacks (ischaemic heart disease) but can also occur in a structurally normal heart (idiopathic VT).

As these arrhythmias can be dangerous, patients may have an Implantable Cardioverter Defibrillator (ICD) to treat episodes of VT when it occurs.

In some situations, catheter ablation may be recommended to prevent episodes occurring in the first place.

The success rate of ablation for ventricular tachycardia at Royal Papworth Hospital will depend on the underlying cause but is considered to be 60-70% with a single procedure.

#### **Benefits**

The benefit of having a VT ablation procedure is that it should stop the ectopic beats or very rapid heart rhythms.

You may be able to discontinue the drugs used to control your heart rhythm. If you have an ICD you are likely to have less frequent therapies from the ICD.

#### **Risks**

The exact risks may vary depending on the type of VT that you have. Additional risks apply if epicardial access is needed.

- Groin bleeding/vascular damage 1% (1/100)
- Pericardial effusion (bleeding around the heart) 2% (1/50)
- Stroke 1% (1/100)
- Heart attack 1% (1/100)
- Need for permanent pacemaker <1% (1/100)</li>
- Death <1% (1/100)</li>

#### Risks of epicardial access:

- Pericardial effusion (bleeding around the heart) 10% (1/10)
- Intra-abdominal bleeding <1% (1/100)mm</li>
- Liver laceration <1% (1/100)</li>

The procedure typically takes three to four hours.

#### Further help and advice

If you have questions, concerns or are having ongoing symptoms please contact:

## Arrhythmia specialist nurse (ASN)

Help line: 01223 638947 Monday to Friday 09:00 - 17:00

Arrhythmia Alliance the heart rhythm charity PO Box 3697 Stratford-Upon-Avon Warwickshire CV37 8YL

24hr Helpline: 01789 450787

Website: www.heartrhythmcharity.org.uk

The British Heart Foundation (BHF)
Greater London House
180 Hampstead Road
London NW1 7AW

Heart Helpline: 0300 330 3311 Email: supportservices@bhf.org.uk

Website: www.bhf.org.uk

DVLA
Drivers Medical Group
Swansea
SA99 1TY

Tel: 0300 790 6806

Email: eftd@dvla.gsi.gov.uk Website: www.dft.gov.uk/dvla

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01223 638000

Large print copies and alternative language versions of this leaflet can be made available on request.

View a digital version of this leaflet by scanning the QR code.



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