SPOTLIGHT ON

Hormone Therapy for Prostate Cancer
Introduction
This booklet is to help you, your spouse or partner and your family understand more about treating your prostate cancer with hormone therapy; it explains - what it is, the different ways that it might be used, who it might be suitable for, the different types of hormone therapy, how it might be prescribed and some of the potential side-effects associated with it.

About prostate cancer
Prostate cancer occurs when the cells in the prostate develop abnormalities, multiply and grow faster than normal. This causes a growth or tumour. As the prostate is inside the body this growth can't be seen and in the early stages often causes no symptoms.

About the male hormone testosterone and its role in prostate cancer
Hormones control the activity and growth of all normal cells and so are naturally present in your body. One of the male hormones, testosterone, is mainly produced in the testes but a small amount is also made in the two adrenal glands which are just above the kidneys. Testosterone is responsible for many of the male characteristics.
Prostate cancer grows in response to testosterone, so without testosterone, prostate cells, including cancerous cells, will shrink or grow more slowly.

Aim of hormone therapy
As testosterone fuels the growth of prostate cancer, the aim of hormone therapy is to remove as much of this testosterone as possible. By reducing the amount of testosterone, cancer cells wherever they are in the body, shrink or don't grow as fast. As a result, the PSA level is most likely to fall (PSA is a protein that is produced by prostate cells and is detected in the blood). Although hormone therapy when used on its own is not a cure for prostate cancer, it may be successful in keeping the cancer in check for several, and in some cases many years.

When might hormone therapy be suggested?
- Hormone therapy alone is the standard treatment for men with advanced metastatic prostate cancer, which is cancer that has spread outside the prostate.

What are the types of hormone therapy to reduce testosterone levels?
(The information that follows about hormone therapy is meant as general guidance. As procedures may vary slightly from hospital to hospital, ask for more advice from staff at the hospital you are attending. If you have been given any specific guidance by the hospital you attend then it is important that you follow their instructions.)
LHRH agonists (luteinising hormone – releasing hormone agonists)

GnRH antagonists (gonadotrophin-releasing hormone antagonists)

Both of these medications stop the testes from making testosterone and are given by an injection. Depending on the medication, injection sites may be beneath the skin in the tummy or in the muscle of the buttock.

<table>
<thead>
<tr>
<th>Medication</th>
<th>Type</th>
<th>Brand name</th>
<th>What it does</th>
<th>How it's given</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHRH agonists</td>
<td>Leuprolein</td>
<td>Prostap SR* Prostap 3*</td>
<td>Stops testes making testosterone. Because of the way LHRH agonists work, there may be a temporary rise or flare in testosterone levels before it reduces. Anti-androgens (see overleaf) will usually be given initially.</td>
<td>Zoladex, Prostap and Decapeptyl may be given monthly or 3 monthly. Decapeptyl may also be given 6 monthly.</td>
</tr>
<tr>
<td></td>
<td>Triptorelin</td>
<td>Decapeptyl SR*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Goserelin</td>
<td>Zoladex* Zoladex LA*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GnRH antagonists</td>
<td>Degarelix</td>
<td>Firmagon®</td>
<td>Very quickly switches off the testes making testosterone. Because of the way it works, it does not cause a rise or flare in testosterone levels so anti-androgens will not be necessary.</td>
<td>Monthly injection. This will normally be started in hospital and then given by your GP. However, because of prescribing changes (2014), your GP may now start your first dose of Firmagon.</td>
</tr>
</tbody>
</table>

ii Anti-androgens

These work in a different way from LHRH agonists and GnRH antagonists. These block the cancer cells’ ability to use testosterone.

<table>
<thead>
<tr>
<th>Medication</th>
<th>Type</th>
<th>Brand name</th>
<th>What it does</th>
<th>How it's given</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-androgen (nonsteroidal)</td>
<td>Bicalutamide Flutamide</td>
<td>Casodex* Chimax® Drogenil®</td>
<td>Block the action of testosterone and the ability of the cancer cell to use it.</td>
<td>As a tablet.</td>
</tr>
<tr>
<td>Anti-androgen (steroidal)</td>
<td>Cyproterone acetate</td>
<td>Cyprostat®</td>
<td>Block cancer cells ability to use testosterone and reduces amount produced in adrenal glands.</td>
<td>As a tablet. It's taken after meals and tablets should be spread evenly throughout the day if taking more than one tablet.</td>
</tr>
</tbody>
</table>

Your doctor may suggest one of the drug treatments above on its own in the first instance. If you have already been treated with one type of hormone treatment your doctor may advise you to change to a different type.

**Dual androgen blockade**

This is usually used if you have been on a single hormone treatment and it stops working. The doctor may recommend you take LHRH agonists and anti-androgens together.

**Surgical treatment or orchidectomy**

This means that all the testes or the parts of the testes which make testosterone are taken away during an operation. This type of treatment is permanent and can't be reversed. Although this used to be the standard treatment, it is...
much less common now because LHRH agonists give similar results. Reducing testosterone through medication rather than through surgery may be preferable for some men.

**Prescribing hormone therapy**
In some situations, doctors may prescribe hormone therapy for you to take all the time. This is continuous hormone therapy.

In other situations, doctors may prefer to give 9 - 12 months of treatment until the PSA level is low and will then discuss stopping the hormone therapy until the PSA level starts to rise again as testosterone levels rise. This is intermittent hormone therapy.

**Are there side-effects with hormone therapy?**
Yes, as with any drugs, there are potential side-effects (or unwanted changes in your body) brought about by hormone therapy, but, there are ways to deal with most of the side-effects. The side-effect(s) that you might get depends on:

- The type of hormone therapy that you are prescribed;
- Your health generally.

The side-effects of hormone therapy are due to the lowering of the testosterone level and can vary from man to man. Some men say they hardly notice any side-effects but for others the side-effects have a big impact on their quality of life. Unfortunately, there is no way of telling which of the side-effects you might get or how much they might affect you.

Before starting treatment, it might help to know what the side-effects are likely to be so you can talk over any worries with the CNS or oncologist. You and the clinical staff treating you will need to strike a balance between the benefits of controlling the cancer and symptoms and the impact that the side-effects of hormone therapy might have on your quality of life.

You may notice some of the following side-effects after starting your treatment:

**Sweats and hot flushes**
These are often one of the first side-effects you may have and are one of the most common complaints from men on hormone therapy. A hot flush is a sudden, strong feeling of heat in your face, neck, chest or back and can happen even if the temperature in the room has not changed. Hot flushes are most common with LHRH agonists, since these medicines stop your body from making testosterone. (See page 4 for more information on these). The flushes and sweating can last for just a few minutes or can go on for up to a few hours. Some men find night sweats to be a problem too. These are really just hot flushes that occur when you are sleeping and can stop you from getting a good nights’ sleep. For some, hot flushes and sweats get a bit easier as time goes on and so may not need any treatment.

Let the CNS or cancer specialist know as there are treatments that can help but you could also try the following:

- Cutting down on alcohol and caffeine and stopping smoking;
- Keeping active during the day and even trying to take some regular exercise (see page 12);
- Having a healthy diet with small regular meals but avoiding spicy foods;
- Keep your room at a cool, comfortable temperature and possibly having a fan in the bedroom if you suffer from night sweats;
- Keeping up your fluid intake by drinking at least eight glasses/cups of liquid or water each day;
- Having a warm bath or shower instead of having these very hot;
- Your oncologist may try you on cyproterone acetate Cyprostat® for a few weeks as around 50% of men find this helps. If you are prescribed Cyprostat®, always follow your oncologist or CNS instructions carefully;
- A herbal remedy that might be helpful is sage in the form of sage tablets. Before starting to take these, check with your CNS or oncologist if these are suitable for you.
**Loss of libido**

Another common side-effect is losing interest in having sexual intercourse. Rather than trying to avoid the issue, talk to your spouse or partner about your worries and anxieties. Perhaps you may want to speak to the CNS or doctor about this together.

**Erectile dysfunction (ED)**

This is sometimes called impotence. Because hormone treatment works by switching off or blocking testosterone, a common side-effect is not being able to get or keep an erection firm enough to have sexual intercourse. Although you may feel upset by this and perhaps a bit embarrassed talking about something as personal as ED, doctors and CNS's are used to hearing about this and helping men with these difficulties. There are a number of treatments that may help.

Treatments might include medication as a tablet, by injection, using a cream, using an applicator or using a vacuum pump. For more information there is a booklet ‘Spotlight on Prostate conditions and erectile dysfunction’ available to download from our website or by calling us and a copy can be sent to you.

**Breast swelling and tenderness (also called gynaecomastia)**

Hormone therapy can cause one or both breasts to swell, become tender and may also cause nipple tenderness or sensitivity. For some men who take bicalutamide, this can mean just a slight tenderness but for others it can be quite painful. There are treatments available such as a small, one off dose of radiation which helps pain but not swelling. There are some medications such as Tamoxifen available to help (the medication prescribed varies from hospital to hospital). Alternatively any painful swollen areas may be removed by surgery. Speak to the cancer specialist or CNS if breast swelling and tenderness is a difficulty for you.

**Fatigue or tiredness**

You may find that you get very tired quite easily, even doing your normal day-to-day activities because of the drop in your testosterone level. Fatigue is often the one symptom that many men consider to be their worst problem.

- Don’t overdo it. Take plenty of rest when you need to but no more than you have to. Resting too much can in fact lower your energy level, so the more you rest the more tired you can feel. Try to plan your day so you have times where you can rest and times when you can be more active using more energy;
- During hormone treatment, exercise or activity has been shown to be an effective self-help for fatigue. (For more information on exercise see page 12);
- If you have trouble sleeping at night, let your doctor or CNS know.

**Changes to your body shape**

You may find that you gain some weight and some men notice this especially around their middle. At the same time you might notice that you lose some muscle tissue. Having a healthy well-balanced diet combined with some regular, resistance exercise may help deal with these difficulties. Taking some regular exercise, such as brisk walking, can also help with any feelings of tiredness (fatigue) that you may have.

If weight gain becomes a problem for you then your CNS, cancer specialist or physiotherapist will give you more advice on suitable exercises to do. You may be referred to a weight loss clinic for advice on changes to make to your diet to help manage your weight.

**Bone thinning**

Because bones need testosterone to keep them healthy and strong, over time hormone therapy can cause bones to thin and become weak or brittle so they may break more easily.

Men at particular risk are those who are on long-term steroids or drink excessive amounts of alcohol.

To help prevent this make sure you:

- Have enough calcium in your diet, the main sources being from dairy products, such as milk, cheese and yoghurt. Calcium is also found in green
Hair loss
Men who have hormone therapy for just short periods may not notice any difference to body hair. However, long-term hormone therapy may lead to a loss of hair on your arms, legs, underarms and genital area and you may not need to shave facial hair as often.

Heart problems
When your testosterone level drops, your blood pressure and cholesterol level may increase and some studies suggest that this may put the man at greater risk of developing heart problems. The longer you are on hormone therapy the greater the risk becomes. The team looking after you will respond to any concerns that might arise.
It may be helpful to think about some healthy lifestyle changes such as stopping smoking, not drinking more alcohol than the healthy guideline limits, having a well-balanced diet and taking exercise.

What should I tell the doctor or CNS about when I go to my appointment?
It’s only by telling the doctor or CNS about any side-effects, changes in your body or in how you are feeling that they may be able to help you. It may be helpful to make a note of any of the following before going to your appointment or indeed writing down any questions that you have so you and the doctor make the most out of your appointment.
- Any symptoms that are bothering you;
- Any pain that is bothering you or is new to you;
- Any difficulties such as tiredness or fatigue, hot flushes, trouble sleeping and weight gain/loss that are keeping you from getting on with day-to-day life;
- Any worries or anxiety that you may have, feeling very low or down or being very tearful or upset more easily.

Exercise
Throughout the booklet, mention has been made to the importance of vegetables such as cabbage and broccoli and fish such as sardines and pilchards (where the bones are eaten):
- Vitamin D is needed in order for your body to use calcium. Our bodies naturally make vitamin D when the sun shines on our skin; this is the main source of our vitamin D. So being outside in the summer months for short periods of time without sun screen will probably give enough vitamin D. (But be mindful about sun safety – the information given is only for short periods a few days a week).

Vitamin D is found in margarine, oily fish, salmon, and egg yolk. Your doctor may suggest taking a supplement of 400 units of vitamin D and 500 mg of calcium in addition to the calcium you get from your daily diet;
- Cut down on caffeine and alcohol. Too much caffeine or alcohol can keep your body from getting the calcium it needs to strengthen your bones;
- Don’t smoke. Smoking is associated with an increased risk of bone thinning and low bone density;
- Again taking some regular, resistance and weight bearing exercise may help. However, if this does not help there may be the option of medication;
- For some men at high risk of osteoporosis, the oncologist may prescribe Adcal tablets.

Mood swings
It is understandable that men who are having treatment for prostate cancer (and their families) are going through a very difficult time. You may feel angry, depressed and worried about what the future holds. Hormone therapy can also make you much more emotional and you may get upset more easily and feel quite tearful. So speak to your doctor or CNS early on if you feel very low as it may be possible to change your treatment or get some additional help. It may help to go along to a support group to chat with other men and their families who have been in a similar situation.
Resistance type exercises may help reduce symptoms of fatigue as well as strengthening muscles that may have become weak because of hormone therapy.

Weight bearing type exercises are good for bones by strengthening bones.

Please check with the CNS or oncology team if these exercises might be suitable in your particular circumstances:

For more information, you might the following websites helpful:
http://www.nhs.uk/Livewell/fitness/Pages/strength-exercises-for-older-people.aspx
http://www.nhs.uk/Livewell/fitness/Pages/flexibility-exercises-for-older-people.aspx
http://www.nhs.uk/Livewell/fitness/Pages/sitting-exercises-for-older-people.aspx
http://www.nhs.uk/Livewell/fitness/Pages/balance-exercises-for-older-people.aspx

How do I know if hormone therapy is working?
The doctor or CNS will continue to check your PSA level which often falls quickly and then stays at a lower level for as long as the treatment is working effectively.

Other tests you might have

Bone scan
Your doctor may want you to have a bone scan to check whether the cancer has spread to the bones. A bone scan may be done if new symptoms develop or if a new treatment such as radiotherapy is planned.

CT scan or MRI scan
Both of these scans are used to get detailed pictures of your prostate and surrounding areas to check whether the cancer has spread outside the prostate.
**HORMONE THERAPY FOR PROSTATE CANCER**

**Steroids**

Sometimes an addition of a small dose of steroid such as dexamethasone to the injections can bring about a fall in PSA. Normally side-effects are minimal as only a small dose is used but the man may experience indigestion and weight gain.

**Novel hormonal therapies**

<table>
<thead>
<tr>
<th>Medication</th>
<th>Type</th>
<th>Brand name</th>
<th>What it does</th>
<th>How it's given</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-androgen</td>
<td>Block the action of testosterone</td>
<td>Enzalutamide</td>
<td>As a tablet.</td>
<td></td>
</tr>
<tr>
<td>(nonsteroidal)</td>
<td></td>
<td>Xtandi®</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abiraterone</td>
<td>Blocks cancer cells ability to use testosterone and reduces amount produced in adrenal glands</td>
<td>Zytiga®</td>
<td>As a tablet. It's taken after meals and tablets should be spread evenly throughout the day if taking more than one tablet</td>
<td></td>
</tr>
</tbody>
</table>

**Hormone resistant prostate cancer**

Once hormone therapy has been started it is usually ongoing. However, over time, prostate cancer may start to grow again even if the testosterone levels are low. The usual sign is a rising PSA level. This is called castrate-resistant prostate cancer. The treatments available at this stage will therefore be dependent on any previous treatments and on individual circumstances.

<table>
<thead>
<tr>
<th>Hormone treatment you had first (first line treatment)</th>
<th>Hormone treatment to try next (second line treatment)</th>
<th>How it works</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHRH agonists</td>
<td>Add or change anti-androgens</td>
<td>Block the action of any remaining testosterone.</td>
</tr>
<tr>
<td>Dual androgen blockade</td>
<td>Stop anti-androgens completely</td>
<td>Anti-androgens can change from 'switching off' testosterone receptors to switching them 'on'. Sometimes by withdrawing the anti-androgen this can slow down the growth of the cancer.</td>
</tr>
<tr>
<td>Orchidectomy</td>
<td>Anti-androgen tablets</td>
<td>Block the action of any remaining testosterone.</td>
</tr>
</tbody>
</table>

**Enzalutamide and Abiraterone**

These newer types of hormone therapy are being used for men with advanced prostate cancer. These work in a different way from other hormone therapies. Enzalutamide and Abiraterone are usually given when hormone therapies alone, such as LHRH injections, are not working any longer. It is likely that you would be recommended to receive one but not both drugs as the use of Enzalutamide after Abiraterone or vice versa has not been well studied. Because Enzalutamide and Abiraterone work differently one of these will be given in combination with the LHRH injections detailed earlier.
Both Enzalutamide and Abiraterone seem to have much the same benefits; generally, an increased feeling of well-being, a better chance of living longer, pain may be reduced, possible delay in the tumour(s) growing and a possible improvement in quality of life. Your oncologist or CNS will most likely go over with you the reasons for suggesting one of these drugs.

**Enzalutamide (Xtandi®)**
Enzalutamide is available in Scotland for men with advanced prostate cancer where the cancer has spread and become resistant to standard hormone therapy (the monthly/3 monthly injections).

Enzalutamide can be prescribed, depending on clinical need, **before** the man starts chemotherapy or **after** a course of chemotherapy.

The option of when to consider Enzalutamide or other alternatives will be discussed with you by your oncology team.

**About Enzalutamide**
Enzalutamide is provided as a capsule with the usual dose being 4 capsules once a day. These should be taken at the same time each day with a full glass of water and should be swallowed whole. As you need close monitoring initially when taking Enzalutamide, it will be prescribed by your cancer specialist. As he/she may alter the dose you have it’s very important that you follow exactly the instructions from the cancer specialist or CNS on how to take the medication.

Possible side-effects may include:
- Fatigue, feeling much more tired than usual and muscle weakness;
- Back pain, pain in your joints, muscle or bone pain;
- Swelling in your hands, arms, legs or feet;
- Dizziness, high blood pressure;
- Some men report headaches and poorer concentration/memory.

Just as with any other medicines, side-effects can affect some men more than others. Most likely you will not experience all the symptoms listed above and there may be other side-effects not mentioned here that your oncologist or CNS will speak to you about.

Always let your oncologist or CNS know about any side-effect(s) that is troublesome, or bothering you or doesn’t go away.

Most likely your oncologist will want to see you regularly to check how you are, ask about any side-effects and do some blood tests to check that your kidneys and liver are working well while you’re taking Enzalutamide.

**Abiraterone or Abiraterone acetate (Zytiga®)**
Abiraterone is available via the NHS in Scotland for men with advanced prostate cancer where the cancer has spread and become resistant to standard hormone therapy (the monthly/3 monthly injections).

Abiraterone can be prescribed, depending on clinical need, **before** the man starts chemotherapy or **after** a course of chemotherapy.

The option of when to consider Abiraterone or other alternatives will be discussed with you by your oncology team.

**About Abiraterone**
The usual dose is 4 tablets, once a day. These should be taken 2 hours after eating and you must wait an hour after taking them before eating food.

As you need close monitoring initially when taking Abiraterone, it will be prescribed by your cancer specialist. As he/she may alter the dose you have it’s very important that you follow exactly the instructions from the cancer specialist or CNS on how to take the medication.

Possible side-effects may include:
- Fatigue, feeling much more tired than usual and muscle weakness;
- Back pain, pain in your joints, muscle or bone pain;
- Swelling in your hands, arms, legs or feet;
- Dizziness, high blood pressure;
- Some men report headaches and poorer concentration/memory.

Just as with any other medicines, side-effects can affect some men more than others. Most likely you will not experience all the symptoms listed above and there may be other side-effects not mentioned here that your oncologist or CNS will speak to you about.

Always let your oncologist or CNS know about any side-effect(s) that is troublesome, or bothering you or doesn’t go away.

Most likely your oncologist will want to see you regularly to check how you are, ask about any side-effects and do some blood tests to check that your kidneys and liver are working well while you’re taking Abiraterone.
Just as with any other medicines, side-effects can affect some men more than others. Most likely you will not experience all the symptoms listed overleaf and there may be other side-effects not mentioned here that your oncologist or CNS will speak to you about.

Always let your oncologist or CNS know about any side-effect(s) that is troublesome, or bothering you or doesn’t go away.

To help reduce these side-effects your doctor will also prescribe steroid tablets called prednisolone or prednisone which you should take every morning after breakfast. Just as with Abiraterone, it’s important that you follow exactly the instructions from your cancer specialist or CNS and don’t stop taking the prednisone tablets unless your doctor has told you to stop.

Your doctor will most likely keep a check on:

- Your blood with regular blood tests. Blood tests to check on your liver function and the level of potassium in your blood are usually done 2 weekly for 3 months then checked weekly. (Potassium is a salt found in your blood). These tests are done as Abiraterone can sometimes interfere with liver function and cause a drop in the potassium level in your blood;
- Any rise in blood pressure. Most likely this will be checked in partnership with your GP.

Enzalutamide and Abiraterone can have an unwanted or possibly harmful effect with some other medicines. So if you are taking medicines that have been prescribed, other over-the-counter medicines, herbal medications, vitamins or if you are started on a new medicine, you should let your oncologist or CNS know about these. It might even be a good idea to keep an up-to-date list of all the medicines that you take to show the list to the oncologist or CNS so you won’t forget to mention any.

**What happens if you forget to take Enzalutamide or Abiraterone?**

If you forget to take your dose at your usual time, then you can take them as soon as you remember that same day. If you forget to take them completely, take your normal dose at your usual time the next day. Do not try to make up for missing the previous days tablets/capsules by taking double or extra doses the next day. If you are at all unsure, check with your oncologist or CNS what to do.

**Questions you may want to ask your cancer specialist or CNS**
Before starting on hormone therapy, you may have some questions to ask your oncologist or CNS. A list of possible questions is given below.

Think about what you would like to know, so perhaps you would only need to ask a few of these, or you may have questions of your own.

- Why have you recommended hormone therapy?
- What do you expect hormone therapy to do to the cancer?
- Why do you think this might be the best option for me?
- Could having hormone therapy make me feel worse?
- Can you explain what the potential side-effects are likely to be? Are these likely to affect me in the short-term or are they more likely to be longer term?
- Is there anything I could do to help with any potential side-effects?
- When and where would I have hormone therapy?
- What type of hormone therapy are you recommending for me and why?
- For how long am I likely to have hormone therapy?
- What check-ups would I have, how often would I need check-ups and where would I have these? What would be done at the check-ups – PSA, scan, etc?
- If hormone therapy doesn’t work for me or stops working then what would be my options?
- Are there other suitable treatment choices that I could think about?
- What is the outlook for me?
- Is there someone that I can talk to who has had the same treatment that I am thinking about?
For more information.................
If you have any questions, then you can speak to your CNS, consultant oncologist or GP. It may also help to look at the following websites or contact the organisation by phone or email. These organisations also have information leaflets available and some offer telephone helplines which you can contact for support or to answer your questions. There may be a prostate cancer support group in your area where you can talk to other men (and often their family) who have been diagnosed with prostate cancer. These support groups may provide you with additional information.

Often these men share their experiences when they were diagnosed with prostate cancer, how they decided on treatment and about the various types of treatment they are having or have had.

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Website</th>
<th>Contact number</th>
<th>Helpline available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prostate Scotland</td>
<td><a href="http://www.prostatescotland.org.uk">www.prostatescotland.org.uk</a></td>
<td>031 603 8660</td>
<td>Telephone information service (not a helpline) 0300 666 0236</td>
</tr>
<tr>
<td>NHS 24</td>
<td><a href="http://www.nhs24.com">www.nhs24.com</a></td>
<td>111</td>
<td>√</td>
</tr>
<tr>
<td>Prostate Link UK</td>
<td><a href="http://www.prostate-link.org.uk">www.prostate-link.org.uk</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prostate Cancer UK</td>
<td><a href="http://www.prostatecancer.org.uk">www.prostatecancer.org.uk</a></td>
<td>0141 314 0050</td>
<td>√</td>
</tr>
<tr>
<td>Macmillan Cancer Support</td>
<td><a href="http://www.macmillan.org.uk">www.macmillan.org.uk</a></td>
<td>020 7840 7840 0808 808 0000</td>
<td>√</td>
</tr>
<tr>
<td>Cancer Research UK</td>
<td><a href="http://www.cancerresearchuk.org">www.cancerresearchuk.org</a></td>
<td>020 7242 0200 0808 800 4040</td>
<td>√</td>
</tr>
<tr>
<td>Edinburgh and Lothian Prostate Cancer Support Group. West Lothian Group</td>
<td><a href="http://www.elprostatecancersupport.co.uk">www.elprostatecancersupport.co.uk</a></td>
<td>07933 260 066</td>
<td>√</td>
</tr>
<tr>
<td>Email: <a href="mailto:charliehogg@blueyonder.co.uk">charliehogg@blueyonder.co.uk</a></td>
<td></td>
<td>01506 845 981</td>
<td></td>
</tr>
<tr>
<td>Organisation</td>
<td>Website</td>
<td>Contact number</td>
<td>Helpline available</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>----------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>Prostate Cancer Support Group, Maggie’s Dundee</td>
<td>Email <a href="mailto:Lorna.McGoldrick@maggiescentres.org">Lorna.McGoldrick@maggiescentres.org</a></td>
<td>01382 632999</td>
<td></td>
</tr>
<tr>
<td>Prostate Cancer Support Group, Maggie’s Gartnavel General Hospital, 1053 Great Western Road Glasgow G12 0YN</td>
<td><a href="mailto:glasgow@maggiescentres.org">glasgow@maggiescentres.org</a></td>
<td>0141 357 2269</td>
<td></td>
</tr>
<tr>
<td>UCAN Care Centre Ward 209, Aberdeen Royal Infirmary</td>
<td><a href="http://www.ucanhelp.org.uk">www.ucanhelp.org.uk</a></td>
<td>01224 550333 (voicemail)</td>
<td></td>
</tr>
<tr>
<td>Prostate Cancer Support Network Fife</td>
<td>Maggie’s Centre, Victoria Infirmary, Kirkcaldy</td>
<td>01592 647 997</td>
<td></td>
</tr>
<tr>
<td>Scottish Borders Prostate Cancer Support Group</td>
<td>Macmillan Centre Borders General Hospital</td>
<td>01721 722 655</td>
<td></td>
</tr>
<tr>
<td>Highland Prostate Cancer Support Network</td>
<td>Maggie’s Centre, Raigmore Hospital, Inverness</td>
<td>01463 706306</td>
<td></td>
</tr>
<tr>
<td>Webmd</td>
<td><a href="http://www.webmd.com">www.webmd.com</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient UK</td>
<td><a href="http://www.patient.co.uk">www.patient.co.uk</a></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medicine net</td>
<td><a href="http://www.medicinenet.com">www.medicinenet.com</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Maggie’s Aberdeen**, Aberdeen Royal Infirmary, Elizabeth Montgomerie Building, Westburn Road, Foresterhill, Aberdeen, AB25 2UZ, telephone 01224 645928, email aberdeen@maggiescentres.org

**Maggie’s Dundee**, Ninewells Hospital, Tom McDonald Avenue, Dundee, DD2 1NH, telephone 01382 632999, email dundee@maggiescentres.org

**Maggie’s Edinburgh**, The Stables, Western General Hospital, Crewe Road, Edinburgh, EH4 2XU, telephone 0131 537 3131, email edinburgh@maggiescentres.org

**Maggie’s Fife**, Victoria Hospital, Hayfield Road, Kirkcaldy, KY2 5AH, telephone 01592 647997, email fife@maggiescentres.org

**Maggie’s Centre Forth Valley**, Forth Valley Royal Hospital, Stirling Road, Larbert, Stirlingshire, FK5 4WR, telephone 01324 868 069, email forthvalley@maggiescentres.org

**Maggie’s Glasgow**, Gartnavel General, 1053 Great Western Road, Glasgow, G12 0YN, telephone 0141 357 2269, email glasgow@maggiescentres.org

**Maggie’s Highlands**, Raigmore Hospital, Old Perth Road, Inverness, IV2 3FL, telephone 01463 706306, email highlands@maggiescentres.org

**Maggie’s Lanarkshire**, Monklands Hospital, Monkscourt Avenue, Airdrie, ML6 0JS, telephone 01236 771199, email lanarkshire@maggiescentres.org

Please note Prostate Scotland is not responsible for the content of any of the external websites.

Other booklets from Prostate Scotland that you might find helpful:
- **Advanced prostate cancer explained**
- **Prostate conditions and erectile dysfunction**
- **Prostate logbook**
This booklet has been compiled by Prostate Scotland with advice from PAGES (Prostate Advisory Group Prostate Scotland).

Prostate Scotland acknowledges the help and support from the members of the group:

Professor Alan McNeill, Consultant Urologist, Western General Hospital, Edinburgh (Chair of PAGES)
Brian Corr, Urology Clinical Nurse Specialist, Raigmore Hospital, Inverness
Mr Graham Hollins, Consultant Urologist, University Hospital, Ayr
Rob Lester
Scott Little, Clinical Nurse Specialist, Western General Hospital, Edinburgh
Lesley McKinlay, Lecturer in Nursing, Queen Margaret University, Edinburgh
Peter Phillips
Mr. Ben Thomas, Consultant Urologist, Borders General Hospital/Western General Hospital, Edinburgh
Prostate Scotland staff: Adam Gaines, Director. Mae Bell, Information and Advice Coordinator

We would also like to acknowledge support from:

Mr David Douglas, Consultant Urologist, Raigmore Hospital, Inverness
Dr Alastair Law, Consultant Oncologist, Western General Hospital, Edinburgh
Dr Duncan McLaren, Consultant Oncologist, Western General Hospital, Edinburgh
Dr Nicholas McLeod, Consultant Oncologist, The Beatson West of Scotland Cancer Centre, Glasgow

The information contained in this leaflet has been developed by Prostate Scotland and reviewed by its Advisory Group of doctors, nurses and patients. This leaflet is not intended to replace medical advice or seeing a doctor for specific illnesses or symptoms.

The Information and Advice Project was originally funded in 2009 thanks to initial grants from the Scottish Government and Sir Tom Farmer through the Farmer Foundation.