A positive approach to psoriasis and psoriatic arthritis

Treatments for Psoriatic Arthritis: An overview
What are the aims of this leaflet?

This leaflet has been written to help you understand the treatments that are currently available to treat psoriatic arthritis. The material is not designed as a replacement for your doctor’s advice and we are not recommending any single treatment in preference to any other; the best treatment schedule is the one which you and your doctor have agreed is most suitable for your particular situation.

About psoriasis and psoriatic arthritis

Psoriasis (sor-i’ah-sis) is a long-term (chronic) scaling disease of the skin, which affects 2%-3% of the UK population. It usually appears as red, raised, scaly patches known as plaques. Any part of the skin surface may be involved but the plaques most commonly appear on the elbows, knees and scalp. About 10% to 20% of people with psoriasis may develop an associated psoriatic arthritis, which causes pain, inflammation and swelling in the joints and tendons, accompanied by stiffness, particularly in the mornings.

What happens in psoriatic arthritis?

In psoriatic arthritis and some inflammatory diseases the immune system doesn’t work properly and this may cause inflammation to trigger damage by working against the body’s own tissues. In psoriatic arthritis inflammation is
characterised by redness, warmth, swelling and pain. Inflammation is a process by which the body's inner defense mechanisms, the white blood cells and other substances, protect the body against infection and foreign invaders such as bacteria and viruses.

The most commonly affected sites in psoriatic arthritis are the hands, feet, lower back, neck and knees, with movement in these areas becoming severely limited. Some people often complain of other symptoms, which in themselves are less easy to diagnose as psoriatic arthritis, such as fatigue, tiredness and exhaustion. People with psoriatic arthritis will also often have nail psoriasis\(^2\), with little or no involvement of the skin elsewhere.

For more detailed information on psoriasis and psoriatic arthritis see our leaflets *What is psoriasis?* and *What is psoriatic arthritis?*

Although there are no cures for psoriatic arthritis, it can be controlled and go into remission. Not everyone will be affected in the same way and doctors will class the condition as mild, moderate or severe. The types of treatments offered can vary from mild drug therapies to physical therapies and surgery.

**Please note:** *The treatments are listed alphabetically and not in the order of use or preference. The list is for reference only and you should always follow your healthcare provider's advice.*

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**Biologics**

Biologic agents are relatively new in the field of psoriatic arthritis management. They are made from biological (human or animal-based) proteins rather than artificial chemicals, much in the way that insulin was made from animal sources in the past.

Biologic agents are different from other psoriatic arthritis medications as they are designed specifically to block a particular part of the immune system, unlike some older disease-modifying drugs, like methotrexate, which generally suppress the immune system, or anti-
It is thought that overactive cells in the immune system set off a series of events in the body, eventually causing psoriatic arthritis to develop in the joints and connective tissue.

Biologic agents work by blocking the action of specific immune messengers. These messengers cause certain cells to misbehave by reducing the level of the messenger chemicals in the joints and blood. Alternatively, they block the activation of the immune cells or the release of chemicals from them.

Biologic agents target overactive cells in the body. Some target a type of immune cell called a T cell, while others target the chemical messages they release. They act by copying the effects of substances naturally made by the immune system.

In the UK they are not considered first-line therapy. There are recommendations from the National Institute for Health and Care Excellence (NICE), the Scottish Medicines Consortium (SMC) and the All Wales Medicines Strategy Group (AWMSG) which define who can access these treatments, generally following the use of other systemic therapies such as methotrexate.

Biologic agents are given by injection or infusion and usually work quickly to relieve the symptoms and swelling associated with psoriatic arthritis. Although studies show that most people will improve within four to six weeks of treatment, a majority will notice some improvement after the first or second injection or infusion. Some people, however, can take the full 12 weeks to notice a response.

The most common side effects seen with all injectable medicines include skin reactions at the injection site. These occur in fewer than 30% of people and may last for up to two weeks. The most significant side
effect of these medications is an increase in the risk of all types of infections, including tuberculosis (TB). Before starting an anti-TNF (tumour necrosis factor) medication, an assessment for your risk of TB is done and a TB skin or blood test is often done. The British Thoracic Society (BTS) guidelines state that Caucasian patients who are UK-born should not be tested as the risk of TB prophylaxis (measures designed to preserve health) is higher than the risk of TB\textsuperscript{3}. Treatment with these agents should be stopped while you have an active infection and are taking an antibiotic or if you have a high fever. People with significant congestive heart failure should not take the anti-TNF agents.

**Corticosteroids**

Corticosteroids are synthetic drugs that closely resemble cortisol, a hormone that the body produces naturally. They work by reducing inflammation and the activity of the immune system. They are used to treat a variety of inflammatory diseases and conditions.

Steroids reduce the production of inflammatory chemicals to help minimise tissue damage. They also reduce the activity of the immune system by affecting the function of white blood cells.

Examples of corticosteroid medications include cortisone, prednisolone and methylprednisolone. However, they should not be confused with anabolic steroids, which are a different group of drugs used by some athletes and weightlifters to build bigger muscles.

Steroids can be given orally or by injection. Depending on the site of the inflammation, they can be injected into a vein or muscle, directly into a joint or bursa (the lubricating sac between certain tendons and the bones beneath them) or around tendons and other soft tissue areas.

In low doses, steroid tablets may provide significant relief from pain and stiffness for people with psoriatic arthritis. Temporary use of higher doses of steroids may help a person recover from a severe flare-up of the condition.
Steroid injections can be added to other interventions, including anti-inflammatory painkiller medications and physiotherapy. Whether one or more of these treatment methods are used depends on the nature of the problem.

Steroid injections can be one of the most effective ways to decrease pain and improve function, yet they generally do not cure the illness.

Some people might develop side effects, although these will vary from person to person. If steroid injections are infrequent (less than every three to four months) it is probable that side effects will not occur.

Disease-modifying anti-rheumatic drugs (DMARDs)

If a person has persistent inflammation in several joints for longer than six weeks then the doctor might prescribe a medication called a DMARD (pronounced dee-mard). They are usually prescribed in addition to non-steroid anti-inflammatory drugs (NSAIDs) as NSAIDs are designed to reduce the day-to-day inflammation and the DMARD slows down the biological processes that cause the persistent inflammation.

The choice of a specific DMARD will depend upon the type of inflammatory arthritis. Sometimes finding the appropriate maintenance dosage can be a matter of trial and error, so the response may not be rapid. DMARDs are a diverse class of medications that approach the task of controlling persistent inflammation through different pathways, but each has been proven effective in its own way. The most commonly prescribed are: methotrexate, sulfasalasine, azathioprine, gold therapy, hydroxychloroquine and chloroquine.

In psoriatic arthritis there is a risk of significant damage
in the first two to three years before the disease is controlled. Doctors are prescribing DMARDs much earlier than in the past because the benefits of controlling damaging inflammation far outweigh the risks of reversible side effects.

These medications are routinely monitored by a doctor in order to minimise the risks of the side effects. These medications can take up to several months before a person begins to feel sustained benefits. Speed of relief isn’t the main driver of these medications. Rather, it is the medication’s ability to control symptoms and an individual’s ability to tolerate the medication over a long period of time that is important. The goal is to use the least amount of drug necessary to keep the inflammatory arthritis under control and to reduce any potential side effects.

DMARDs come as tablets, capsules and, in some cases, injections; doses can range from once or twice daily to once a week. A doctor will likely have to adjust the medication from time to time, depending on the results of regular monitoring.

The greater benefits offered by DMARDs carry an increased risk of side effects. The vast majority of side effects are rare and virtually all are reversible by adjusting the daily dose or switching DMARDs. Still, some side effects are common, such as flu-like symptoms, mouth sores, diarrhoea and nausea.

**Mechanical pain relief**

TENS (Transcutaneous Electrical Nerve Stimulation) is a simple, non-invasive technique in which electrical currents, generated by a portable stimulating unit powered by small, low-voltage batteries, are passed through the surface via two or four electrodes to activate underlying nerves. Conductive gel or pre-gelled electrodes are used to decrease resistance across the skin-electrode connection and the electrodes can be concealed under clothing if necessary.
TENS produces a tingling sensation (electrical paraesthesia) within the painful area and the intensity and quality of electrical paraesthesia (ie pulse intensity, pulse frequency and pulse pattern) can be varied and controlled by the patient according to his or her requirements. TENS has been shown to produce useful analgesic effects in all types of patients suffering from acute or chronic pain and has gained worldwide attention and use. TENS has many advantages over conventional treatment for pain. It does not require surgical intervention and, unlike analgesic drugs, has no serious adverse effects. It can be used long-term and if necessary in conjunction with other analgesics, such as drugs. Not every person responds to TENS treatment however, the efficacy is approximately 60%. The reason for non-response to TENS by the other 40% is unknown at this point in time. TENS machines are often available through the pain management service or from physiotherapists and are widely available from larger chemists or pharmacies.

Non-steroidal anti-inflammatory drugs (NSAIDs)

NSAIDs are commonly prescribed for the treatment of psoriatic arthritis and are symptom-modifying drugs. They act by reducing inflammation and suppressing prostoglandins. Prostoglandins play a valuable role within the body, but also drive the inflammatory process in arthritis. Many well-known products, such as aspirin and ibuprofen, are types of NSAIDs and are used for milder disease. Stronger drugs, only available on prescription from a doctor, might be offered if the milder treatments provide little or no benefit. It takes time to find the most effective treatment and doctors may try various doses and products before establishing the optimum regime. Because prostaglandins also provide other useful functions, suppressing their action can cause unwanted side effects, particularly on the stomach. Long-term use of
NSAIDs has led to some individuals developing stomach ulcers. Some drugs have a special enteric coating that prevents the drug from dissolving in the stomach but allows absorption in the small intestine, which makes it less irritating. For the same reason, a stomach-protecting medication might be offered to counteract this negative outcome or a selective NSAID that only targets certain elements of the inflammatory process may be considered.

Occupational therapy and rehabilitation

Occupational therapy helps people to manage, to the best of their ability, all types of daily activities and tasks that may have been impaired by physical or mental illness.

An occupational therapist works as part of a multidisciplinary team. They either work for the health service or for social services. The two services work slightly differently but occupational therapists are all concerned with promoting a person’s independence in everyday tasks to give the best possible quality of life.

To see an occupational therapist you will normally need a referral from a GP or consultant.

When someone has psoriatic arthritis, pain and stiffness may make everyday tasks more difficult. Occupational therapists aim to reduce the amount of stress placed on the joints. They will look at how an individual carries out daily tasks, assessing their physical restrictions as well as listening to how they are coping emotionally with them. They will then explore new ways to carry out the tasks or suggest equipment that can help lessen stress to the joints or generally make life easier. For more information, see our Occupational Therapy & Psoriatic Arthritis leaflet.
Pain management

Pain management is offered to people for both acute and chronic pain. In the UK there are about 300 pain management clinics, each run by a team of clinicians, including: occupational therapists, psychologists, doctors, nurses and physiotherapists.

Treatment is often combined to create a pain management programme, which can include group sessions aimed at teaching individuals how to live with pain by using a variety of techniques in conjunction with their drug regime. A referral from a GP or hospital specialist is required to see a pain management specialist or to join a pain management programme.

Podiatry

A podiatrist or a chiropodist specialises in the treatment of problems associated with the foot and lower leg, most commonly the treatment of minor problems such as verrucas, athlete’s foot and ingrowing toenails. For some people with psoriatic arthritis, podiatry can be a very useful service not only for the obvious problems associated with nail psoriasis, but in assessing other problems associated with arthritis and providing simple solutions. These include orthotic devices or foot appliances such as inserts for shoes, which can help foot function, ease pain, improve gait and, most importantly, enable walking with reduced discomfort. Podiatrists work in a number of settings and individuals can be referred by a doctor or make appointments independently.

Physiotherapy

Psoriatic arthritis can lead to pain, swelling and stiffness in joints. You can prevent stiffness in a joint by putting it through a full range of movement on a daily basis. Regular exercise can also help maintain strength in the muscles, which makes daily tasks easier and can help you to maintain good posture. It has also been shown to reduce...
stress and improve mood, maintain bone density and reduce fatigue. So it is important to have an exercise programme you perform on a daily basis to ensure you remain as fit and healthy as possible.5

Physiotherapists work both in the NHS and privately. They are experts in the examination and treatment of muscles and joints. Some physiotherapists have a special interest in conditions like psoriatic arthritis and will work closely with the local consultant rheumatologist. Your GP or consultant can refer you to see a physiotherapist in the NHS or you can self-refer to a private clinic.

Hydrotherapy is exercise in a warm pool. It is supervised by a physiotherapist who uses the properties of water to help ease stiff joints and strengthen weak muscles. This service is not widely available in all areas of the UK. For more information see our Physiotherapy & Exercise: Psoriatic Arthritis leaflet.

Surgery

It has to be remembered that in most cases psoriatic arthritis can be managed with early diagnosis and certain drug therapies, but unfortunately some individuals may end up with a joint that has been so badly affected by the condition that it requires surgery.

Surgery can include very minor procedures, such as releasing a trapped nerve or removing painful linings to joints. The most common and radical surgery is to replace a full joint such as a knee or hip, but other joints, including fingers, wrists, elbows, ankles and shoulders, can also be replaced if they are badly damaged.

Success rates in joint replacement is variable; function and pain are the important drivers and hand operations in particular are difficult to weigh up as function can be much worse after surgery.
and very occasionally the replacement joint has to be removed. This can lead to considerable disability, so risk and benefit must be carefully considered before these types of procedure are considered.

**Topical analgesics**

Topical analgesics are creams or ointments for the treatment of acute musculoskeletal injuries and mild to moderate pain caused by arthritis. These products may have local analgesic, anaesthetic and anti-itch capabilities. Their use, and therefore benefit, is limited by an inability to be absorbed beyond the upper layers of the skin.

**Lifestyle**

Maintaining a healthier lifestyle is beneficial for anyone with psoriatic arthritis but it is easy to lose confidence when you are in pain or have restricted mobility. It is also often difficult to keep fit under such circumstances, but avoiding exercise can increase the risk of associated conditions such as diabetes and cardiac disease. If you are worried about the effect that exercise may have because of any pre-existing conditions, speak to your doctor for advice, and if you have not exercised for a while, start slowly and carefully and then build up. If you have swollen joints, it’s best to take exercise which is low impact, such as cycling, swimming and using a cross-trainer machine rather than running.

**Other forms of treatment**

Complementary therapies are increasingly popular. Some therapies which are commonly classed as complementary or alternative therapies include: acupuncture, the
Alexander technique, aromatherapy, chiropractic, herbalism, homeopathy, osteopathy, reflexology and yoga.

**REMEMBER:** Check the therapist’s qualifications. The umbrella organisation for each therapy can tell you what training their members have undertaken, their code of ethics and refer you to qualified practitioners in your area. If you are on conventional medicine or treatments tell your doctor you are also using complementary approaches. Check with your doctor if you are unsure about the safety of any complementary or alternative treatment.

**Further reading**

Research and development of new treatments is ongoing. To learn how a new therapy is developed and trialled see our *Clinical Trials* leaflet.

**Summary**

For any treatment to work it is essential to follow the guidance given by your healthcare provider. Always read the product labels and the Patient Information Leaflet (PIL) that is supplied with your medication.

Occasionally, treatments suddenly stop working (tachyphylaxis) or feel less therapeutic. With no known cure at present, psoriatic arthritis is likely to be a lifelong disease, so it may be necessary for your doctor to change your medication or treatment regime from time to time.

Whatever treatment you and your healthcare provider decide is an appropriate course, make sure you report the benefits, improvement and any adverse reactions as this will ensure you get the very best level of care.

**References**


5. There is a large body of evidence for the benefits of exercise in inflammatory arthritis. It has usually been studied using rheumatoid arthritis (RA).
   a. NICE guidelines 2009 state that exercise is beneficial for most individuals with RA.
   b. Evidence for exact prescription, modes of exercise delivery and improving compliance with an exercise programme are limited. The current knowledge is summarised in:

About this information
This material was produced by PAPAA. Please be aware research and development of treatments are ongoing.

For the latest information or any amendments to this material please contact us or visit our website. The site contains information on treatments and includes patient experiences and case histories.
This edition reviewed and revised by Dr Laura Coates, rheumatologist and NIHR clinical lecturer, University of Leeds, Chapel Allerton Hospital, January 2013.

A lay and peer review panel has provided key feedback on this leaflet. The panel includes people with or affected by psoriasis and/or psoriatic arthritis.

Published April 2013

Review date December 2014

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The Information Standard scheme was developed by the Department of Health to help the public identify trustworthy health and social care information easily. At the heart of the scheme is the standard itself – a set of criteria that defines good quality health or social care information and the methods needed to produce it. To achieve the standard, organisations have to show that their processes and systems produce information that is:

- accurate
- impartial
- balanced
- evidence-based
- accessible
- well-written.

The assessment of information producers is provided by independent certification bodies accredited by The United Kingdom Accreditation Service (UKAS). Organisations that meet The Standard can place the quality mark on their information materials and their website - a reliable symbol of quality and assurance.
The charity for people with psoriasis and psoriatic arthritis

PAPAA, the single identity of the Psoriatic Arthropathy Alliance and the Psoriasis Support Trust.

The organisation is independently funded and is a principal source of information and educational material for people with psoriasis and psoriatic arthritis in the UK.

PAPAA supports both patients and professionals by providing material that can be trusted (evidence-based), which has been approved and contains no bias or agendas.

PAPAA provides positive advice that enables people to be involved, as they move through their healthcare journey, in an informed way which is appropriate for their needs and any changing circumstances.

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