

PITYRIASIS RUBRA PILARIS

What are the aims of this leaflet?

This leaflet has been written to help you understand more about pityriasis rubra pilaris (PRP). It tells you what it is, what causes it, what can be done about it, and where you can find out more about it.

What is pityriasis rubra pilaris?

Pityriasis rubra pilaris is a rare long-term inflammatory skin condition. The name means scaling (pityriasis), redness (rubra) and involvement of the hair follicles (pilaris). It affects all races and sexes equally.

It is classified into 6 clinical types:

- Type I is the most common and is called 'classic adult type'.
- Type II is a variation of type I, known as atypical adult onset.
- Type III, IV and V represent classical, circumscribed and atypical juvenile forms.
- Type VI is associated with HIV-associated PRP (human immunodeficiency virus infection).

What causes pityriasis rubra pilaris?

The cause of pityriasis rubra pilaris is not known. It is not an infection and therefore cannot be passed on to others.

Is pityriasis rubra pilaris hereditary?

Pityriasis rubra pilaris is usually not hereditary but there are family cases described associated with a genetic predisposition.

What are the symptoms of pityriasis rubra pilaris?

- A rash which can be itchy in its early stages.
- Thick skin on the palms and soles that splits and becomes painful. Walking may be difficult.
- Shivering, heat and fluid loss may occur if the rash covers large areas of skin.

What does pityriasis rubra pilaris look like?

The main features of the most common – Type I (classic adult) of pityriasis rubra pilaris are as follows:

- The rash usually starts suddenly on the scalp and spreads to cover much of the chest and abdomen.
- The patches are dry, scaly and red with an orange tinge and have well-defined edges. Smaller patches may join together to cover large areas of skin. Occasionally, people with pityriasis rubra pilaris can become red all over; this is called erythroderma.
- Areas of normal looking skin, where there is no rash, known as 'spared areas', can often be seen lying between larger red patches.
- The hair follicles in the affected areas can feel rough to the touch because of build-up of scale at their base (follicle plugs).
- The skin on the palms and soles may become thickened and have an orange colour. The nails may thicken and be discoloured and sometimes shed.

The Type II (atypical adult) accounts for 5% of all PRP cases and does not follow the head to toe progression described above. It typically affects the legs with thickening of the skin on the palms and soles. It can also be associated with hair loss on the body.

Type III accounts for 10% of all cases. Presentation is similar to Type I, but starts in childhood.

Type IV (circumscribed juvenile) accounts for 25% of cases. It affects children before puberty and is characterised by well-defined red patches, hair follicle plugs on the knees and elbows, as well as thickening of the skin on the palms and soles.

Type V represents 5% of cases. It is commonly familial, i.e. there are other family members affected. It starts early in life with dryness, hair follicle plugs and sometimes thickened skin on the hands and feet.

Type VI is seen in people with HIV and is characterised by red, scaly spots around the hair follicles and may or may not involve the palms and soles.

How will pityriasis rubra pilaris be diagnosed?

The diagnosis is made by examination of the skin and nails by a doctor or nurse. A skin biopsy is not necessary, but may be done to exclude other causes of widespread redness. Skin biopsy is where a small piece of skin is removed under a local anaesthetic and examined under a microscope. A referral to a skin specialist may be made by the doctor to confirm a diagnosis. There are no specific blood tests to confirm pityriasis rubra pilaris. The different types of pityriasis rubra pilaris may look like psoriasis and are often mistaken for psoriasis especially at the early stages.

Can pityriasis rubra pilaris be cured?

The natural history of pityriasis rubra pilaris depends on the type. Due to its rarity, no large size studies which include patients have been possible, and there is no consensus on treatment. Multiple topical and systemic treatments can be used and there is a tendency, in the majority of cases, towards a natural sudden resolution.

The 'classic adult type' has the best prognosis with up to 80% spontaneously resolving within 3 years.

How can pityriasis rubra pilaris be treated?

There are no treatment guidelines for PRP. Topical and systemic treatments alone or in combination are commonly used.

Creams or ointments applied to the skin may be all that is required if the pityriasis rubra pilaris is affecting small areas of the body:

- Steroid creams and ointments can improve the redness and scaling, but probably do not alter the duration of the rash.
- Emollients (moisturisers) recommended by the doctor or specialist are a very important part of treatment to help moisten dry skin and restore the barrier function of the skin. The emollient should be applied liberally and regularly.

Tablet medications may be needed if the pityriasis rubra pilaris is very extensive. These medications should only be prescribed by a dermatologist after skin assessment and confirmation of the diagnosis. The most commonly used are: acitretin and methotrexate tablets. Phototherapy (light therapy) is also used in some cases.

CAUTION: This leaflet mentions 'emollients' (moisturisers). Emollients, creams, lotions and ointments contain oils which can make it easier for dressings, clothing, bed linen or hair to catch fire. To reduce the fire risk, patients using these moisturising products are advised to be very careful near naked flames to reduce the risk of clothing, hair or bedding catching fire. In particular, smoking cigarettes should be avoided and being near people who are smoking or using naked flames, especially in bed. Candles may also risk fire. Daily washing is advisable for clothing which is in regular contact with emollients and bed linen.

Where can I get more information about pityriasis rubra pilaris?

Web links for further information:

www.pcds.org.uk/clinical-guidance/pityriasis-rubra-pilaris www.prp-support.org/index.php www.prpalliance.org www.rareconnect.org/en/community/pityriasis-rubra-pilaris

For details of source materials used please contact the Clinical Standards Unit (clinicalstandards@bad.org.uk).

This leaflet aims to provide accurate information about the subject and is a consensus of the views held by representatives of the British Association of Dermatologists: individual patient circumstances may differ, which might alter both the advice and course of therapy given to you by your doctor.

This leaflet has been assessed for readability by the British Association of Dermatologists' Patient Information Lay Review Panel

BRITISH ASSOCIATION OF DERMATOLOGISTS
PATIENT INFORMATION LEAFLET
PRODUCED DECEMBER 2004
UPDATED MAY 2010, APRIL 2013, MAY 2016, SEPTEMBER 2019
REVIEW DATE SEPTEMBER 2022