

Notes

You may wish to use this space to write down your experiences before and after treatment. These may include notes about what activities in your daily life hyperhidrosis prevented you from doing before treatment. Your thoughts and observations may help when you discuss your condition with your doctor.

Dr M J Sheppard
West Clinic
3 Newland Street
Aldershot
Hampshire GU12 8SH
Tel: 01252 841464

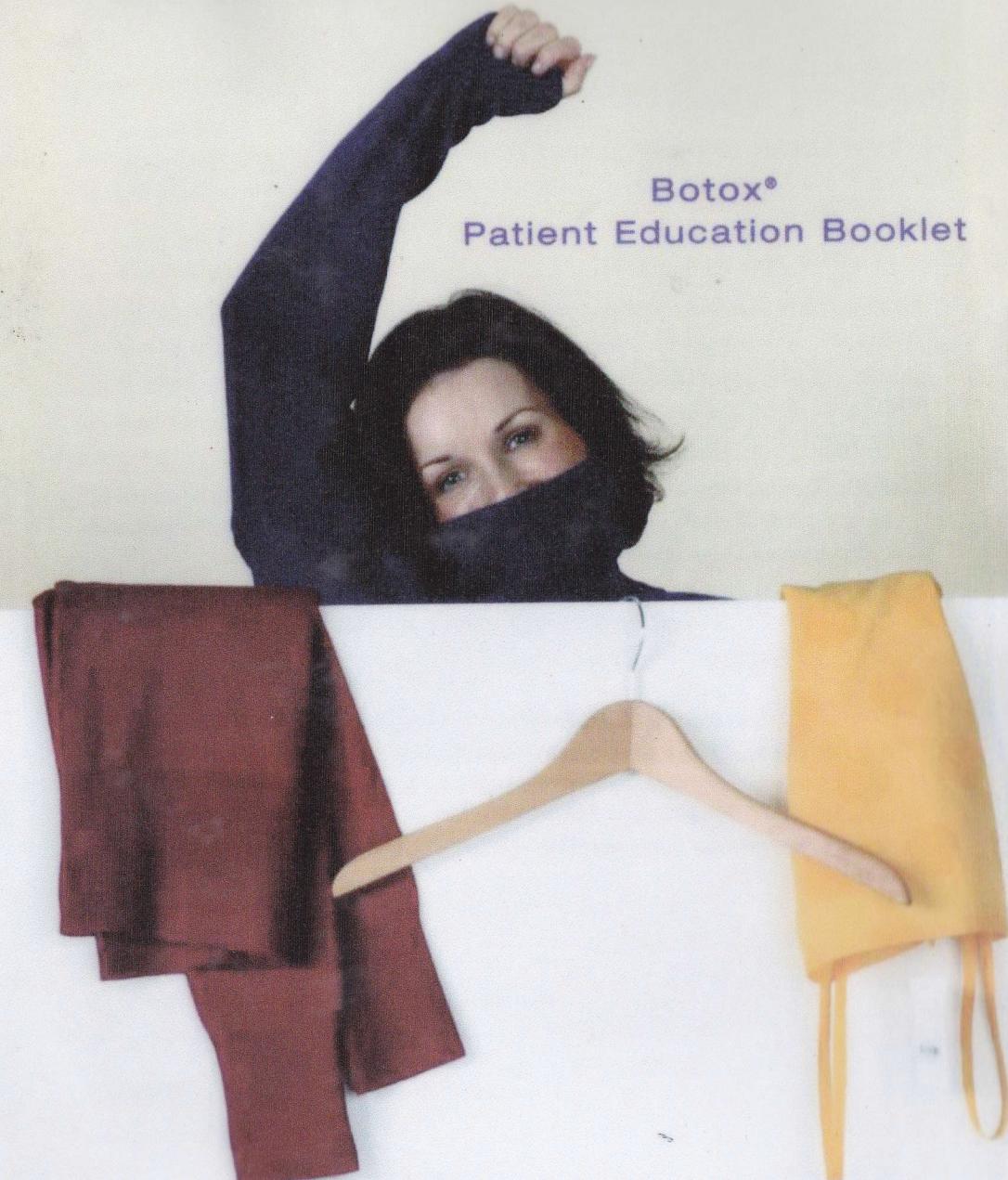
This booklet is provided as an educational service by



Coronation Road, High Wycombe, Bucks HP12 3SH

Change with Confidence

Botox®
Patient Education Booklet



Print Preparation June 2004 ACA 39/2004

This booklet is intended for patients who have been recommended or prescribed Botox® and explains what Botox® is and how it is used to treat axillary hyperhidrosis. If you have any questions or are not sure about any part of your treatment, please ask your doctor or pharmacist.

of sweating that varies.

of the feet and in the arms.

found virtually all over the body surface but they are concentrated on the palms of the hands, the soles

Hyperhidrosis is caused by overactivity of one type of sweat gland, the eccrine gland. These glands are

hypothalamic have a relative with a similar problem, suggesting that there may be a genetic cause.

It is not known why some people are affected and others are not. About $\frac{1}{3}$ to $\frac{1}{2}$ of people with

What are the causes of hyperhidrosis?

It usually starts during the teens and twenties.

It has been estimated that up to 1% of the population has some form of hyperhidrosis.

How common is hyperhidrosis?

Sweating usually stops when the illness is treated.

2 Generalised hyperhidrosis affects the whole body. It is much less common and is usually caused by another illness such as an infection, diabetes or when the thyroid gland is overactive. The excessive

(axillary hyperhidrosis) when other treatments have not worked.

Botox® is indicated for the treatment of focal hyperhidrosis affecting the arms.

1 Focal hyperhidrosis is the more common type involving excessive sweating on the feet, hands and, common is gustatory hyperhidrosis, when sweating on the face is triggered by hot or spicy food.

There are two main types of hyperhidrosis:

control their temperature.

Hyperhidrosis means excessive sweating. Sweating is one of the most important ways in which the body loses heat; however, people with hyperhidrosis produce sweat in amounts far greater than needed to

What is hyperhidrosis?

Examples of triggers include:

- exercise
- heat or cold
- alcohol, coffee or tea, smoking, hot or spicy food
- stress, anxiety or strong emotions
- certain times of the day

of sweating that varies.

of the feet and in the arms.

found virtually all over the body surface but they are concentrated on the palms of the hands, the soles

Hyperhidrosis is caused by overactivity of one type of sweat gland, the eccrine gland. These glands are

hypothalamic have a relative with a similar problem, suggesting that there may be a genetic cause.

It is not known why some people are affected and others are not. About $\frac{1}{3}$ to $\frac{1}{2}$ of people with

What are the causes of hyperhidrosis?

It usually starts during the teens and twenties.

It has been estimated that up to 1% of the population has some form of hyperhidrosis.

How common is hyperhidrosis?

Sweating usually stops when the illness is treated.

2 Generalised hyperhidrosis affects the whole body. It is much less common and is usually caused by

(axillary hyperhidrosis) when other treatments have not worked.

Botox® is indicated for the treatment of focal hyperhidrosis affecting the arms.

1 Focal hyperhidrosis is the more common type involving excessive sweating on the feet, hands and,

control their temperature.

Hyperhidrosis means excessive sweating. Sweating is one of the most important ways in which the body

loses heat; however, people with hyperhidrosis produce sweat in amounts far greater than needed to

control their temperature.

of sweating that varies.

of the feet and in the arms.

found virtually all over the body surface but they are concentrated on the palms of the hands, the soles

Hyperhidrosis is caused by overactivity of one type of sweat gland, the eccrine gland. These glands are

hypothalamic have a relative with a similar problem, suggesting that there may be a genetic cause.

It is not known why some people are affected and others are not. About $\frac{1}{3}$ to $\frac{1}{2}$ of people with

What are the causes of hyperhidrosis?

It usually starts during the teens and twenties.

It has been estimated that up to 1% of the population has some form of hyperhidrosis.

How common is hyperhidrosis?

Sweating usually stops when the illness is treated.

2 Generalised hyperhidrosis affects the whole body. It is much less common and is usually caused by

(axillary hyperhidrosis) when other treatments have not worked.

Botox® is indicated for the treatment of focal hyperhidrosis affecting the arms.

1 Focal hyperhidrosis is the more common type involving excessive sweating on the feet, hands and,

control their temperature.

Hyperhidrosis means excessive sweating. Sweating is one of the most important ways in which the body

loses heat; however, people with hyperhidrosis produce sweat in amounts far greater than needed to

control their temperature.

of sweating that varies.

of the feet and in the arms.

found virtually all over the body surface but they are concentrated on the palms of the hands, the soles

Hyperhidrosis is caused by overactivity of one type of sweat gland, the eccrine gland. These glands are

hypothalamic have a relative with a similar problem, suggesting that there may be a genetic cause.

It is not known why some people are affected and others are not. About $\frac{1}{3}$ to $\frac{1}{2}$ of people with

What are the causes of hyperhidrosis?

It usually starts during the teens and twenties.

It has been estimated that up to 1% of the population has some form of hyperhidrosis.

How common is hyperhidrosis?

Sweating usually stops when the illness is treated.

2 Generalised hyperhidrosis affects the whole body. It is much less common and is usually caused by

(axillary hyperhidrosis) when other treatments have not worked.

Botox® is indicated for the treatment of focal hyperhidrosis affecting the arms.

1 Focal hyperhidrosis is the more common type involving excessive sweating on the feet, hands and,

control their temperature.

Hyperhidrosis means excessive sweating. Sweating is one of the most important ways in which the body

loses heat; however, people with hyperhidrosis produce sweat in amounts far greater than needed to

control their temperature.

of sweating that varies.

of the feet and in the arms.

found virtually all over the body surface but they are concentrated on the palms of the hands, the soles

Hyperhidrosis is caused by overactivity of one type of sweat gland, the eccrine gland. These glands are

hypothalamic have a relative with a similar problem, suggesting that there may be a genetic cause.

It is not known why some people are affected and others are not. About $\frac{1}{3}$ to $\frac{1}{2}$ of people with

What are the causes of hyperhidrosis?

It usually starts during the teens and twenties.

It has been estimated that up to 1% of the population has some form of hyperhidrosis.

How common is hyperhidrosis?

What are the causes of hyperhidrosis?

What is Botox® and how does it work?

Botox® is a treatment given by injection into the skin. It is indicated for the treatment of axillary hyperhidrosis and it has also been used for many years to treat muscle spasm affecting the eyes, face and neck. Botox® is also used to relieve muscle spasm in children with cerebral palsy.

Botox® is a very pure preparation of a protein, botulinum toxin type A, obtained from the bacterium Clostridium botulinum grown under modern methods of cultivation. When small doses are injected into the skin, Botox® blocks the actions of the nerves that supply the eccrine glands; this prevents the glands from producing sweat. Botox® blocks the nerve endings but over about 6-12 weeks new nerve endings grow to replace them. This means that the effects of treatment last for several months but eventually they will wear off.

What happens during a course of treatment with Botox®?

Using a very fine needle, your doctor will inject a small amount (0.1-0.2 ml) of a solution of Botox® into 10 to 15 places about 1 cm apart and spread evenly in each armpit. Sometimes a dye is used to show up the areas where sweating is greatest and where the injections should be placed. A course of treatment takes about 30 minutes.

Does it hurt?

The needles used are very fine so most people experience only mild discomfort. It is uncommon for pain relief to be required.

How quickly does it work and how long will the effects last?

You should notice some change for the better within a week of your treatment.

Different people have different responses to treatment. In a clinical trial, sweat production was reduced by 83% one week after treatment. Furthermore, sweating was reduced by at least half in 95% of patients. Your next treatment can be given when the effects of the first course wear off, this usually happens after 4 to 7 months.

Your doctor will advise you about when to return for further treatment.

What happens if I decide to stop treatment?

The effects of Botox® wear off over a period of several months. If you decide not to have any further treatment there will be no lasting change in the areas treated. Sweating will gradually return to the level it was before you started treatment.

Are there any side effects?

Every treatment has side effects in at least some patients. In clinical trials of the treatment of *axillary hyperhidrosis* with Botox®, 11% of patients reported a side effect. About 4.5% of patients experienced an increase in sweating in another part of the body.

Since the injection is made only into the skin, the effects of Botox® will be limited to the nerves supplying the sweat glands. Occasionally, a very small amount of Botox® may spread out from the injection site and affect a nearby nerve that supplies a muscle. In clinical trials, about 0.7% of patients experienced mild weakness of the arms; this did not last and got better without any treatment.

Because Botox® is a protein, there is a small chance that 'flu-like' symptoms (tiredness, mild fever, muscle aches) may occur; these will disappear within a few days. You may also feel a little discomfort at the injection sites.

If any of these effects become troublesome or you notice other effects you think might be caused by your treatment, consult your doctor.

- **Lontophoresis** is the passage of a weak electric current through a water bath (it may also be called an electrogalvanic bath). The area affected by sweating is immersed in the water and electrically charged particles (ions) block the activity of sweat glands. The effects last for 3-4 days but the effects last longer with repeated treatment.
- **Antimuscarinic drugs** reduce the activity of the nerves supplying the sweat glands. These drugs affect the body's entire nervous system and side effects such as dry mouth, drooling and constipation can be troublesome.
- **Anxiolytics (tranquillisers)** may help if anxiety is found to be a problem but side effects are common and long-term use is not usually recommended.
- **Relaxation, psychotherapy or acupuncture** are other ways that some people find helpful. Discuss these treatments with your doctor before trying them.
- **Surgery** can provide a permanent solution but the side effects can be serious and the result may anaesthetise. Surgery is usually considered when other methods of treatment have not worked. There are several types:
 - **Sympathectomy** means blocking or cutting the nerve supply to the sweat glands. Blocking the nerve supply lasts 1-2 years and should always be tried first; cutting the nerve supply is permanent. With both methods, compensatory sweating may develop in other parts of the body.
 - **Curettage** means removing the sweat glands, possible problems include incomplete removal (so sweating still occurs) and poor healing.
 - **Excision** means cutting away the skin; this can cause large scars and there is a risk that the wounds will not heal well.
- Please remember: if you have any questions about hyperhidrosis or its treatment, always ask your doctor.

- **Aluminium chloride** is the active ingredient of some roll-on or aerosol antiperspirants. It is used in stronger solutions to treat hyperhidrosis; it works quite well on sweating in the armpits and is easy to use. Its effects last for only 48 hours but it is usually applied daily. You may continue to use this treatment while you are being treated with Botox® (but not in the first days after the injections in use).
 - There are several other treatments for hyperhidrosis, some of which you may have tried already:
- What other treatments are there for hyperhidrosis**

- You must not breast feed during treatment.
- You must avoid becoming pregnant, so make sure that you use effective contraception.
- Check with your doctor or pharmacist if you need to take any medicines and tell them you are being treated with Botox®.
- If you find that your arms are affected, for instance if they feel weak, this may impair your ability to drive or use machinery so avoid doing so until you feel better.
- If you find your arms are affected, for instance if they feel weak, this may impair your ability to drive or use machinery so avoid doing so until you feel better.

I'm being treated with Botox®?

Should I do anything special while

- If you think you may be allergic to Botox® or anything in the preparation to take special care. You should tell your doctor.
- You should not have Botox® if you have certain conditions and there are circumstances when you need to take special care. You should tell your doctor.
- If you are suffering from any muscle problems
- If you are using any antihistotics or drugs to relax muscles
- If you have had any problems with Botox® treatment in the past
- If you are taking any medicines, including any that have not been prescribed by your doctor
- If you have had some types of surgery to your armpits

You should not have Botox® if you have certain conditions and there are circumstances when you need to take special care. You should tell your doctor.

Is there any reason why I should not have Botox® treatment?