

# Interventions for hyperhidrosis in secondary care: a systematic review and value-of-information analysis

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## Plain English summary

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## Plain English summary

**H**yperhidrosis is characterised by uncontrollable and excessive sweating that occurs at rest, regardless of temperature, and has a major impact on quality of life.

The aim of this project was to summarise the evidence on the clinical effectiveness and cost-effectiveness of treatments for primary hyperhidrosis and assess the need for and value of further research.

We systematically reviewed studies of the effectiveness of treatments to be prescribed by dermatologists and minor surgical treatments for hyperhidrosis of the hands, feet and armpits; as 'endoscopic thoracic sympathectomy' (ETS) surgery is established as an end-of-line treatment, we did not review this further. We analysed the cost-effectiveness of the treatments for the armpit. We also investigated the value and cost-effectiveness of conducting further research for the armpit. We consulted patients about our analysis and findings.

The evidence on treatments for hyperhidrosis was of limited quality and insufficient to draw firm conclusions. There was consistent weak evidence of some benefit from iontophoresis (a process in which an electrical field is used to deliver drugs through the skin) for hyperhidrosis of the hands, and botulinum toxin (BTX) injections were found to be effective for patients with hyperhidrosis of the armpit. For armpit hyperhidrosis, our analyses suggested that using treatments in the following order would be the most cost-effective: iontophoresis, BTX, medication, curettage, ETS.

Combining the evidence and patient advisor input, we established that further research on the clinical effectiveness and cost-effectiveness of BTX (with anaesthetic) compared with iontophoresis for hyperhidrosis of the hand would be useful. The Hyperhidrosis Quality of Life Index tool appears to be the best questionnaire for measuring the impact of treatments on quality of life in future studies. The results of ongoing studies of new technologies that damage the sweat glands, and of new formulations of anticholinergic medications, may be informative.

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