

NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE**Health Technology Evaluation****Bimekizumab for treating moderate to severe hidradenitis suppurativa****Final scope****Remit/evaluation objective**

To appraise the clinical and cost effectiveness of bimekizumab within its marketing authorisation for treating moderate to severe hidradenitis suppurativa.

Background

Hidradenitis suppurativa (HS), also known as acne inversa or Verneuil's disease, is a chronic disorder of the skin. HS is caused by blocked hair follicles which are connected to apocrine sweat glands. This stops sweat from escaping onto the skin and leads to the formation of pus-filled abscesses. These can be extremely painful and cause itching, redness and burning. In severe cases the pus tunnels deep under the surface of the skin and forms widespread networks of interconnected channels that can break out on the surface and leak pus. The abscesses may result in scarring which can limit movement and the ability to work or study. People may require extensive surgery to reverse the scarring. Symptoms of HS begin around puberty and most commonly appear in the second or third decade of life. The disease affects areas with apocrine sweat glands such as the groin and genitals, buttocks and inner thighs, armpits and below the breasts. The cause of HS is unclear but may be hormonal or the result of an underlying autoimmune disorder.

HS affects around 1 in 130 people in the United Kingdom, although approximately one in three cases go unrecognised.¹ There are approximately 435,000 people with HS in England.^{1,2} Real world data suggests that 45.3% of people with HS have moderate to severe HS, defined as Hurley Stage II or III.³ The disease is more common in women than in men. People of African-Caribbean family background have a higher incidence than people of European family background.

There are no tests used to diagnose HS and a diagnosis is usually based on the typical signs or symptoms of the disease, although a GP may do tests to rule out other conditions with similar signs and symptoms.⁴ The British Association of Dermatologists (BAD) guidelines recommend initial treatment with oral tetracyclines (such as doxycycline or lymecycline), followed by combination treatment with oral clindamycin and rifampicin in people whose disease has not responded. Retinoids (such as acitretin) and dapsone are recommended for people whose disease does not respond to antibiotic therapy.⁵ [NICE technology appraisal 392](#) recommends adalimumab as an option for treating active moderate to severe HS in adults whose disease has not responded to conventional systemic therapy. In some people, adalimumab is not suitable, not effective or becomes less effective over time. For these people [NICE technology appraisal 935](#) recommends secukinumab. The BAD guidelines suggest infliximab is considered for people whose disease does not respond to adalimumab, but the [NHS England Clinical Commissioning Policy](#) states that there is not enough evidence to make infliximab available to treat HS. Surgery may also be considered for people with chronic HS that cannot be controlled by medicine.^{4,5}

Final scope for the evaluation of bimekizumab for treating moderate to severe hidradenitis suppurativa

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The technology

Bimekizumab (Bimzelx) does not currently have a marketing authorisation in the UK for HS. It is being studied in clinical trials, compared to placebo, in adults with moderate to severe HS.

Bimekizumab currently has market authorization for the treatment of moderate to severe plaque psoriasis in adults who are candidates for systemic therapy.

Intervention(s)	Bimekizumab
Population(s)	People with moderate to severe hidradenitis suppurativa
Comparators	<ul style="list-style-type: none"> • Adalimumab • Secukinumab (where adalimumab is not suitable, did not work or has stopped working) • Best supportive care
Outcomes	<p>The outcome measures to be considered include:</p> <ul style="list-style-type: none"> • disease severity • disease progression • clinical response • inflammation and fibrosis • discomfort and pain • adverse effects of treatment • health-related quality of life
Economic analysis	<p>The reference case stipulates that the cost effectiveness of treatments should be expressed in terms of incremental cost per quality-adjusted life year.</p> <p>If the technology is likely to provide similar or greater health benefits at similar or lower cost than technologies recommended in published NICE technology appraisal guidance for the same indication, a cost comparison may be carried out.</p> <p>The reference case stipulates that the time horizon for estimating clinical and cost effectiveness should be sufficiently long to reflect any differences in costs or outcomes between the technologies being compared.</p> <p>Costs will be considered from an NHS and Personal Social Services perspective.</p> <p>The availability of any commercial arrangements for the intervention, comparator and subsequent treatment technologies will be taken into account. The availability and</p>

	cost of biosimilar and generic products should be taken into account.
Other considerations	Guidance will only be issued in accordance with the marketing authorisation. Where the wording of the therapeutic indication does not include specific treatment combinations, guidance will be issued only in the context of the evidence that has underpinned the marketing authorisation granted by the regulator.
Related NICE recommendations	Related technology appraisals: <ul style="list-style-type: none"> • Adalimumab for treating moderate to severe hidradenitis suppurativa (2016) NICE technology appraisal guidance 392. • Secukinumab for treating moderate to severe hidradenitis suppurativa. NICE technology appraisal guidance 935.
Related National Policy	<p>The NHS Long Term Plan (2019) NHS Long Term Plan</p> <p>NHS England (2016). Infliximab for the treatment of hidradenitis suppurativa. Clinical Commissioning Policy. Reference 16018/P.</p> <p>NHS England (2013) 2013/14 NHS standard contract for specialised dermatology services (all ages). Service specification no. A12/S/a</p>

1 Ingram JR, Jenkins-Jones S, Knipe DW et al. (2018) Population-based Clinical Practice Research Datalink study using algorithm modelling to identify the true burden of hidradenitis suppurativa. *British Journal of Dermatology* 178(4):917-924.

2 Office for National Statistics (21 December 2022) Population estimates for the UK, England and Wales, Scotland and Northern Ireland: mid-2021

3 Ingram, J. R., et al. (2022). Unmet clinical needs and burden of disease in hidradenitis suppurativa: real-world experience from EU5 and US. *Journal of the European Academy of Dermatology and Venereology*, 36(9), 1597-1605.

4 NHS (2019). [Hidradenitis Suppurativa](#). Accessed January 2023.

5 Ingram JR, Collier F, Brown D et al. (2019) British Association of Dermatologists guidelines for the management of hidradenitis suppurativa (acne inversa) 2018. *British Journal of Dermatology* 180(5):1009-1017.