



# **Facts about HS diagnosis**

The average time to diagnosis is up to

**10 years**.¹

At time of diagnosis, patients may have moderate or severe HS.2

Patients may see up to

providers

before receiving an accurate diagnosis.3



Many patients are led to believe that having HS is their fault. It is important to reassure your patients that HS is not their fault, but rather a chronic, inflammatory, systemic, progressive condition.<sup>4,5</sup>

## These 3 essential diagnostic criteria help distinguish HS from other skin conditions<sup>6</sup>:



#### Lesions

1 or more deep-seated, painful nodules, abscesses, sinus tracts, or linear scars.7



#### Locations

Axillae, groin, perineal region, buttocks, inframammary region, or less common areas such as face, scalp, back, chest, or legs.<sup>6,7</sup>



#### Chronicity

Recurrence (≥2 lesions within 6 months) and/or persistence (lesions lasting ≥3 months).8,9





# HS affects more than just skin

## Patients with HS may deal with debilitating burdens

Skin pain

97%

of patients experience physical pain.<sup>10</sup> 61%

of patients rated pain from moderate to "worst possible" in 1 study.1

Odor

88%

of patients experienced malodorous discharge in 1 study.11

**Flares** 

80%

of patients experienced at least 1 flare per month in 1 study. Flares can cause pain, embarrassment, and social stigma for patients.1

## HS can appear differently on skin of color



Subtle erythema<sup>12</sup>



Violaceous, dark brown, and gray lesion<sup>12</sup>



**Postinflammatory** hyperpigmentation<sup>13</sup>



Keloid<sup>14</sup>



Patients may not always mention their HS-related pain or how it affects them. It is important to ask them about it.

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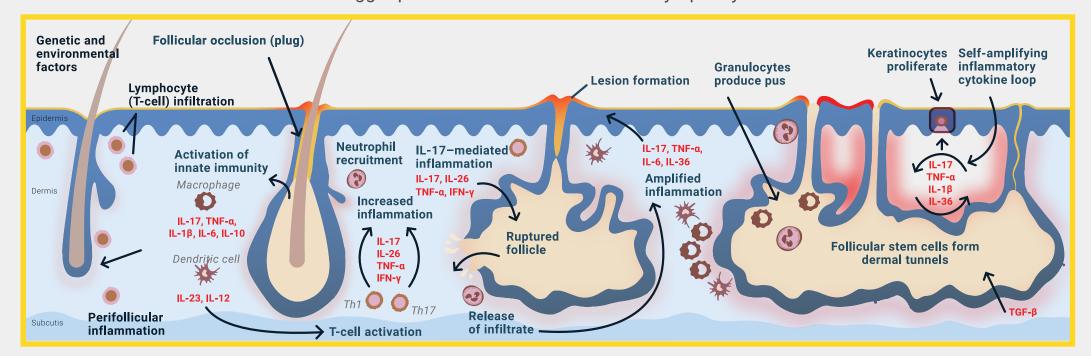
About HS



# What is the pathophysiology of HS?

## HS is an immune-mediated disease involving both innate and adaptive immune systems<sup>4,15-18</sup>

- Key cytokines involved include IL-17, TNF-α, IL-1β, IL-23, IL-12, and others.
- Genetic and environmental factors trigger perifollicular inflammation and lymphocyte infiltration.





A diagram may help patients understand the inflammatory nature of HS and make clear that HS is not their fault.

IFN- $\gamma$ , interferon gamma; IL, interleukin; TGF- $\beta$ , transforming growth factor beta; TNF- $\alpha$ , tumor necrosis factor alpha. Brought to you by Novartis in partnership with the HS Foundation.







# How does HS advance if left untreated?

#### **HS** onset

**Timely diagnosis** may improve outcomes<sup>19</sup> Help improve treatment outcomes by starting systemic therapies during the optimal time, known as the

Window of opportunity<sup>19,20</sup>

#### **Delayed treatment**

Irreversible lesions: Tunnels and scarring<sup>19,20</sup>

TISSUE DAMAGE

Initiate systemic treatment →

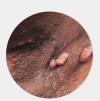
**Nodules** 



**Abscesses** 



**Nodules** 



Abscesses



**Tunnels** 



Scarring



Disability



When determining disease severity, assessing a patient's whole well-being—including pain levels and quality-of-life impact—provides a better understanding of the full burden of HS.<sup>19</sup>





# How can you be a part of a multidisciplinary approach when treating HS?





Healthcare providers outside the dermatology specialty may need to be involved in the ongoing management of comorbidities. 1,21-24

- Dermatology and rheumatology
- Gastroenterology and endocrinology
- Primary care and obstetrics/gynecology
- Infectious diseases
- Psychiatry, psychology, and other mental health specialties
- General and plastic surgery
- **Nutrition**
- Social work and support groups
- Pain management specialists



Clinical guidelines for managing HS recommend screening for comorbidities, which may require a multidisciplinary approach.<sup>21</sup>





# How does HS impact your patients' emotional and social well-being?



## The physical symptoms of HS may cause a psychosocial impact

- Recurrent or persistent HS can lead to the formation of more lesions and may cause more distress<sup>7,16</sup>
- Shame, embarrassment, and impaired sexual health may lead to depression and anxiety<sup>11,25,26</sup>
- Patients with HS may experience high levels of loneliness, which correlate with impaired quality of life<sup>27</sup>

DEPRESSION

43%

of patients with HS experience depression.<sup>28</sup>

NEGATIVE CAREER IMPACT

UP TO

25%

of patients with HS may be unemployed.<sup>29</sup> SUICIDE

OVER

2x

the risk of completed suicide in patients with HS vs the general population.<sup>30</sup> MENTAL HEALTH DETERIORATION

81%

of patients with HS may have psychological symptoms or limitations from HS skin damage.<sup>31</sup> SEXUAL HEALTH DETERIORATION

61%

of patients
with HS report
hindered sexuality
and/or sexual
dysfunction.5

CAREGIVER BURDEN

64%

of caregivers said their partner's HS had a moderate to extremely large impact on their own quality of life.<sup>32</sup>

The impacts of HS are not limited only to those listed above.



HS can impact patients physically, socially, professionally, and psychologically. It's important to talk with your patients about their support team and what they need to create a more robust support network.<sup>4</sup>



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# Patients with HS need a multimodal approach to treatment<sup>24,33</sup>

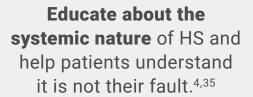


### Timely clinical strategies can light the way forward

- The physical and emotional effects of HS can be vast.<sup>34</sup> Early recognition remains critical.<sup>4</sup>
- Review some of the clinical strategies below that can shed light on better outcomes

### Support patients, their families, and their caregivers throughout treatment







**Consider the impact** on caregivers when developing a patient's treatment plan.36



**Build trust** with meaningful and empathetic conversations during each appointment.<sup>24</sup>



**Assure patients they are** not alone and provide information about HS support groups and other resources.24



Management strategies should be coordinated by a dermatology provider, and a full team may consist of numerous specialties, depending on a patient's specific needs.<sup>1,24</sup>





# 命

# Tools for education and support

## **Resources for HS management**



Educational content and downloads for you and your patients can be found by visiting **hs-awareness.com** or by scanning this code.



## **National organizations for HCPs**



See how healthcare professionals like you can have meaningful and personalized conversations with their patients. Resources are available to support you and your practice.

Visit **hs-foundation.org** to learn more.



The American Academy of Dermatology (AAD) may provide helpful information for patients living with HS and their loved ones.

Visit **aad.org** to learn more.





About HS





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# HS Conversations

НОМЕ

A TOOL FOR GUIDING OPEN CONVERSATIONS THAT SHINE A LIGHT ON HS



For more information for HCPs, scan the code or visit hs-awareness.com

# A special thank-you

to the HS Foundation for their support in creating this discussion guide for healthcare providers. Their expertise helped develop this valuable resource that may help to improve communication about HS between HCPs and patients.



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