



## Original Article

5 Accessibility as a Key Factor in the Clinical Evolution and Therapeutic  
6 Management of Patients With Hidradenitis Suppurativa

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## ARTICLE INFO

## ABSTRACT

**Keywords:**  
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**Background and objective:** Hidradenitis suppurativa (HS) is a chronic, progressive inflammatory disease with a substantial impact on quality of life. Accessibility to specialized units and referral methods may significantly influence clinical characteristics and therapeutic decisions. This study aims to analyze the relationship between geographical distance, referral method, and the clinical and therapeutic characteristics of patients with HS.

**Materials and methods:** This was a cross-sectional study including 557 consecutive patients treated between 2017 and 2024 at the HS Unit of Hospital Universitario Virgen de las Nieves. Clinical, demographic, and treatment-related variables were collected. Geographical distance was calculated based on postal codes, and differences between referral methods (teledermatology vs conventional) were analyzed using descriptive and comparative statistical methods.

**Results:** Patients residing at greater distances presented with more severe disease (Hurley stage III, higher IHS4 scores) and poorer quality of life (DLQI). They also required more intensive treatment regimens, with increased use of biological immunomodulatory drugs. Patients referred via teledermatology were generally younger, had a shorter disease duration, and exhibited milder disease severity at the time of consultation.

**Conclusions:** Geographical distance and referral method may significantly influence the clinical and therapeutic profiles of patients with HS. These findings underscore the need for strategies to improve accessibility and ensure equitable management. Teledermatology emerges as a valuable tool for early-stage cases, although it should be complemented with in-person assessments for more complex cases.

## 14 Introduction

15 Hidradenitis suppurativa (HS) is a chronic inflammatory disease  
16 affecting the hair follicle, predominantly involving intertriginous areas  
17 such as the axillae and the inguinal region. The prevalence of  
18 HS varies considerably and is estimated at approximately 1% of the  
19 general population. Diagnosis is often substantially delayed, with an  
20 average delay ranging from 7.2 to 10.2 years, which has important  
21 clinical implications.<sup>1,2</sup> This delay prevents the initiation of early treat-  
22 ment during the so-called “window of opportunity,” a critical period in  
23 which intervention may prevent progression to irreversible structural  
24 skin damage.<sup>3,4</sup>

25 The diagnosis of HS is based on well-established clinical criteria,  
26 including the presence of recurrent lesions in typical anatomical areas  
27 for at least 6 months.<sup>5</sup> To complement the diagnosis, several standard-  
28 ized and validated scoring systems have been developed, such as the  
29 Hurley Staging System and the International Hidradenitis Suppurativa  
30 Severity Score System (IHS4), which allow assessment of structural dis-  
31 ease severity and inflammatory burden, respectively.<sup>6</sup> These tools are  
32 essential not only for standardizing patient evaluation in clinical and  
33 epidemiological studies, but also for guiding therapeutic decisions and  
34 monitoring treatment response.<sup>5</sup>

35 The management of HS is particularly complex and requires a multi-  
36 disciplinatory approach, including a combination of medical therapies,  
37 such as retinoids, topical and systemic antibiotics, and immunomod-  
38 ulators, along with interventional and surgical procedures.<sup>4</sup> Despite  
39 therapeutic advances, the disease course remains variable and often  
40 unpredictable. Some patients exhibit a relatively stable course, whereas

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Table 1

Clinical characteristics and therapeutic decisions according to geographic distance in road kilometers of patients with HS ( $N = 557$ ).

Variables	Geographic distance in road kilometers	p value
Age (years) <sup>a</sup>	-0.25 (SD, 0.19)	0.19
Sex <sup>b</sup>		
Male	45.92 (SD, 3.93)	0.12
Female	54.47 (SD, 3.88)	
Smoking <sup>b</sup>		
Yes	50 (SD, 3.62)	0.91
No	50.64 (SD, 4.26)	
Disease duration (years) <sup>a</sup>	0.2 (SD, 0.24)	0.39
Age at onset (years) <sup>a</sup>	-0.51 (SD, 0.22)	0.02
Martorell phenotype <sup>b</sup>		0.21
	Follicular: 37.14 (SD, 9.38)	
	Inflammatory: 50.62 (SD, 3.01)	
	Mixed: 60.88 (SD, 9.8)	
Hurley stage <sup>b</sup>		< 0.0001
	Hurley I: 35.41 (SD, 4.43)	
	Hurley II: 52.7 (SD, 3.9)	
	Hurley III: 77 (SD, 6.6)	
Pilonidal sinus <sup>b</sup>	59.17 (SD, 4.88)	0.028
Number of affected areas <sup>a</sup>	10.69 (SD, 2.63)	< 0.0001
Inflammatory nodules <sup>a</sup>	0.86 (SD, 2.24)	0.44
Abscesses <sup>a</sup>	0.65 (SD, 1.58)	0.68
Inflammatory or draining tunnels <sup>a</sup>	9.23 (SD, 1.43)	< 0.0001
Pain VAS 0–10 <sup>a</sup>	2.41 (SD, 0.96)	0.012
Malodor VAS 0–10 <sup>a</sup>	2.20 (SD, 0.76)	0.004
Drainage VAS 0–10 <sup>a</sup>	1.79 (SD, 0.79)	0.024
Pruritus VAS 0–10 <sup>a</sup>	1.82 (SD, 0.79)	0.021
Global VAS 0–10 <sup>a</sup>	2.45 (SD, 0.96)	0.011
IHS4 <sup>a</sup>	1.83 (SD, 0.29)	< 0.0001
DLQI <sup>a</sup>	1.55 (SD, 0.38)	< 0.0001
Therapeutic burden <sup>a</sup>	7.74 (SD, 1.18)	< 0.0001
Prior biologic treatment <sup>b</sup>	46.19 (SD, 2.85)	< 0.0001
Prescription of biologic treatment <sup>b</sup>		< 0.0001
Yes	90.68 (SD, 6.76)	
No	42.87 (SD, 2.89)	
Indication for dermatologic surgery <sup>b</sup>	70.48 (SD, 8.65)	0.014

HS, hidradenitis suppurativa; SD, standard deviation; BMI, body mass index; IBD, inflammatory bowel disease; IHS4, International Hidradenitis Suppurativa Severity Score System; DLQI, Dermatology Life Quality Index.

Values in bold indicate  $p < 0.05$ .

<sup>a</sup> Continuous variables were analyzed using simple linear regression and expressed as Beta (SD).

<sup>b</sup> Categorical variables were analyzed using Student's *t* test and expressed as mean distance in kilometers for each category. Correlations between geographic distance and continuous variables are expressed as Beta (SD), and categorical data as % (proportion).

others develop early and progressive structural damage.<sup>7</sup> Therefore, ensuring early access to specialized HS units is essential. These units not only facilitate a faster and more accurate diagnosis, but also enable the implementation of personalized therapeutic strategies that optimize comprehensive disease management and improve patient prognosis.<sup>4,8</sup>

The objectives of this study were (a) to analyze the influence of geographic distance from patients' place of origin on their clinical characteristics and on therapeutic decisions made during the first visit to the Hidradenitis Suppurativa Unit of *Hospital Virgen de las Nieves* (Granada, Spain), and (b) to explore the relationship between clinical characteristics and therapeutic decisions according to the referral method, either via teledermatology or conventional referral.

## Materials and methods

The *Materials and Methods* section is described in detail in the Appendices (Appendix 5.1, Materials and Methods).

## Results

### General characteristics of the study population

The cohort included a total of 557 patients diagnosed with hidradenitis suppurativa. Sex distribution was balanced, with 49.19% men ( $n = 274$ ) and 50.81% women ( $n = 283$ ). The mean age was 41.87 years (SD, 14.19). A total of 58.17% of patients were smokers ( $n = 324$ ), and the mean body mass index (BMI) was 29.64 (SD, 6.89). Family history of the disease was reported in 40.93% of patients ( $n = 228$ ). The mean disease duration was 17.52 years (SD, 11.5), and the mean age at disease onset was 24.34 years (SD, 12.35). According to the Hurley classification, 37.16% ( $n = 207$ ) were classified as stage I, 46.49% ( $n = 259$ ) as stage II, and 16.34% ( $n = 91$ ) as stage III (Appendices, Table A.1).

At the index visit to the HS unit, patients exhibited a mean of 1.05 abscesses (SD, 1.75) and 1.17 inflammatory or draining tunnels (SD, 1.86). The mean IHS4 score was 8.45 (SD, 9.11), and the mean number of affected areas was 1.83 (SD, 1.03). Regarding therapeutic decisions, 9.69% of patients ( $n = 54$ ) had previously received biologic

Table 2

Clinical characteristics and therapeutic decisions according to referral method to the HS Unit of Hospital Universitario Virgen de las Nieves (N = 557).

Referral method	Conventional referral (N = 510)	Teledermatology (N = 47)	p value
<b>Age (years)</b>	42.48 (SD, 0.62)	35.25 (SD, 2.05)	< 0.001
<b>Sex (male/female)</b>	49.61% (253/510)/50.39% (257/510)	44.68% (21/47)/55.32% (26/47)	0.418
<b>Smoking</b>	58.04% (296/510)	59.57% (28/47)	0.838
<b>BMI</b>	29.59 (SD, 0.30)	30.10 (SD, 1.00)	0.629
<b>Disease duration (years)</b>	17.84 (SD, 0.50)	14.06 (SD, 1.67)	0.031
<b>Age at onset (years)</b>	24.63 (SD, 0.54)	21.19 (SD, 1.79)	0.033
<b>Martorell phenotype</b>	Follicular: 7.84% (40/510) Inflammatory: 85.49% (436/510) Mixed: 6.67% (34/510)	Follicular: 19.15% (9/47) Inflammatory: 59.57% (28/47) Mixed: 21.28% (10/47)	< 0.0001
<b>Hurley stage</b>	Hurley I: 36.27% (185/510) Hurley II: 46.86% (239/510) Hurley III: 16.87% (86/510)	Hurley I: 46.81% (22/47) Hurley II: 42.55% (20/47) Hurley III: 10.64% (5/47)	0.289
<b>Pilonidal sinus</b>	30.98% (158/510)	38.30% (18/47)	0.301
<b>Number of affected areas</b>	1.82 (SD, 0.04)	1.93 (SD, 0.15)	0.467
<b>Inflammatory nodules</b>	1.60 (SD, 0.18)	2.23 (SD, 0.60)	0.305
<b>Abscesses</b>	1.09 (SD, 0.07)	0.61 (SD, 0.25)	0.072
<b>Inflammatory or draining tunnels</b>	1.20 (SD, 0.08)	0.85 (SD, 0.27)	0.214
<b>Pain VAS 0–10</b>	4.86 (SD, 0.12)	3.53 (SD, 0.41)	0.002
<b>Global VAS 0–10</b>	4.85 (SD, 0.12)	3.51 (SD, 0.41)	0.002
<b>IHS4</b>	8.60 (SD, 0.40)	6.87 (SD, 1.32)	0.213
<b>DLQI</b>	10.73 (SD, 0.31)	7.78 (SD, 1.03)	0.006
<b>Therapeutic burden</b>	2.52 (SD, 0.09)	1.32 (SD, 0.32)	< 0.001
<b>Prior biologic treatment</b>	10.59% (54/510)	0% (0/47)	0.019
<b>Prescription of biologic treatment</b>	16.27% (83/510)	6.38% (3/47)	0.072
<b>Indication for dermatologic surgery</b>	10.39% (53/510)	6.38% (3/47)	0.381

HS, hidradenitis suppurativa; SD, standard deviation; BMI, body mass index; VAS, Visual Analog Scale; IHS4, International Hidradenitis Suppurativa Severity Score System; DLQI, Dermatology Life Quality Index. Continuous data are expressed as mean (SD) and categorical data as % (proportion). Values in bold indicate  $p < 0.05$ . Q6

73 therapy for HS, whereas 15.44% ( $n = 86$ ) were prescribed biologic treatment  
74 during the index to the HS unit. In addition, 10.05% of patients  
75 ( $n = 56$ ) were considered candidates for dermatologic surgery (Appendices, Table A.1).

77 **Clinical characteristics and therapeutic decisions according to  
78 geographic distance (road distance in kilometers) from patients' place of  
79 origin to Hospital Universitario Virgen de las Nieves**

80 Patients living farther away showed a higher proportion of advanced  
81 Hurley stage III disease ( $\beta$  coefficient = 77; SD, 6.6;  $P < .0001$ ). Similarly,  
82 the number of affected areas ( $\beta = 10.69$ ; SD, 2.63;  $P < .0001$ ),  
83 the number of inflammatory or draining tunnels ( $\beta = 9.23$ ; SD, 1.43;  
84  $P < .0001$ ), and scores on the visual analog scales (VAS) for pain  
85 ( $\beta = 2.41$ ; SD, 0.96;  $P = .012$ ), malodor ( $\beta = 2.20$ ; SD, 0.76;  $P = .004$ ),  
86 suppuration ( $\beta = 1.79$ ; SD, 0.79;  $P = .024$ ), pruritus ( $\beta = 1.82$ ; SD,  
87 0.79;  $P = .021$ ), and overall VAS ( $\beta = 2.45$ ; SD, 0.96;  $P = .011$ ) were  
88 significantly higher among patients living farther from the hospital  
89 (Table 1; Fig. 1).

90 Furthermore, DLQI ( $\beta = 1.55$ ; SD, 0.38;  $P < .0001$ ), IHS4 ( $\beta = 1.83$ ;  
91 SD, 0.29;  $P < .0001$ ), and therapeutic burden ( $\beta = 7.74$ ; SD, 1.18;  
92  $P < .0001$ ) increased significantly with distance. Patients living  
93 farther away were more likely to have received prior biologic treatments  
94 ( $\beta = 46.19$ ; SD, 2.85;  $P < .0001$ ), to be prescribed biologic therapy  
95 ( $\beta = 90.68$ ; SD, 6.76;  $P < .0001$ ), or to be referred for dermatologic  
96 surgery ( $\beta = 70.48$ ; SD, 8.65;  $P = .014$ ) at the index visit to the HS unit  
97 (Table 1; Fig. 1).

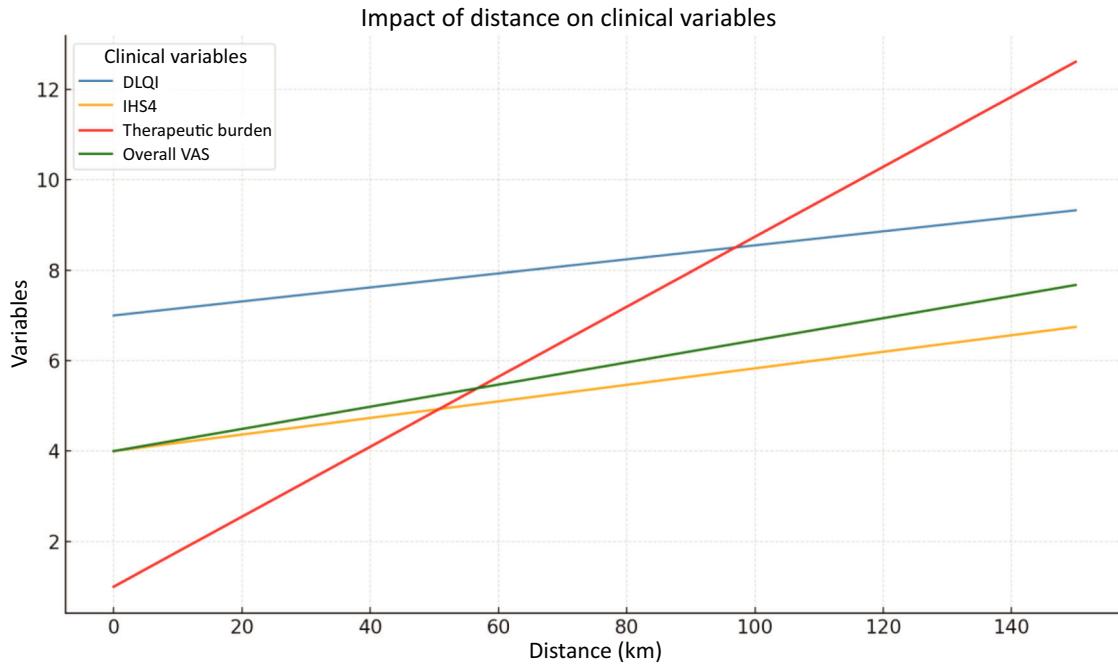
98 **Comparison according to province of origin of patients with HS**

99 Patients residing outside the province of Granada (Spain) ( $n = 139$ )  
100 showed significant differences vs those living in Granada ( $n = 418$ ). The  
101 former had a longer disease duration (19.28 vs 16.94 years;  $P = .037$ ),  
102 an earlier age at onset (22.43 vs 24.98 years;  $P = .034$ ), and a greater  
103 number of affected areas (2.20 vs 1.71;  $P < .0001$ ). Furthermore, they  
104 showed a higher prevalence of pilonidal sinus (41.73% vs 28.23%;  
105  $P = .003$ ), a higher proportion of Hurley stage III disease (32.37%  
106 vs 11.00%;  $P < .0001$ ), and higher IHS4 (13.43 vs 6.80;  $P < .0001$ ),  
107 DLQI (12.77 vs 9.72;  $P < .0001$ ), and overall VAS scores (5.28 vs 4.56;  
108  $P = .009$ ) (Appendices, Table A.2).

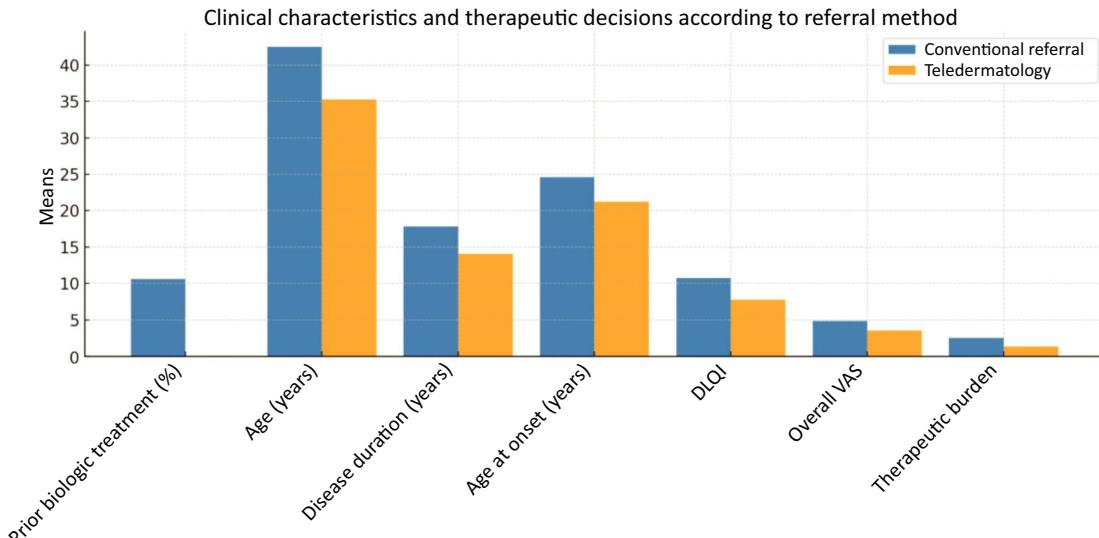
109 Regarding therapeutic decisions, patients from outside Granada  
110 more frequently had prior biologic therapy (21.58% vs 5.74%;  
111  $P < .0001$ ), were prescribed biologic treatment (33.81% vs 9.33%;  
112  $P < .0001$ ), and were referred for dermatologic surgery (15.11% vs  
113 8.37%;  $P = .022$ ) at the first visit to the HS unit (Appendices, Table A.2).

114 **Comparison according to referral method to the HS unit at Hospital  
115 Universitario Virgen de las Nieves**

116 Significant differences were observed between patients referred via  
117 teledermatology ( $n = 47$ ) and those referred through the conventional  
118 pathway ( $n = 510$ ). Patients referred via teledermatology were younger  
119 (35.25 vs 42.48 years;  $P < .001$ ), had a shorter disease duration (14.06  
120 vs 17.84 years;  $P = .031$ ), and an earlier age at onset (21.19 vs 24.63  
121 years;  $P = .033$ ). Moreover, these patients showed lower scores for VAS  
122 pain (3.53 vs 4.86;  $P = .002$ ), overall VAS (3.51 vs 4.85;  $P = .002$ ), DLQI  
123 (7.78 vs 10.73;  $P = .006$ ), and IHS4 (6.87 vs 8.60;  $P = .213$ ). In addition,



**Fig. 1.** Impact of road distance in kilometers on different clinical variables in patients with HS.



**Fig. 2.** Clinical characteristics and therapeutic decisions according to referral method.

<sup>124</sup> teledermatology-referred patients had a lower therapeutic burden (1.32  
<sup>125</sup> vs 2.52;  $P < .001$ ) and no past medical history of prior biologic therapy  
<sup>126</sup> (0% vs 10.59%;  $P = .019$ ) (Table 2; Fig. 2).

## 127 Discussion

<sup>128</sup> This study provides evidence on the potential influence of geo-  
<sup>129</sup> graphic distance and referral method on the clinical characteristics and  
<sup>130</sup> therapeutic decisions of patients with HS. Our findings suggest the  
<sup>131</sup> importance of adopting strategies to improve accessibility to special-  
<sup>132</sup> ized units, highlighting the impact that such accessibility has on the  
<sup>133</sup> comprehensive management of this complex disease.<sup>9</sup>

<sup>134</sup> Regarding geographic distance and province of origin, patients from  
<sup>135</sup> more distant areas showed a more severe clinical profile, characterized  
<sup>136</sup> by a higher proportion of advanced Hurley stages, a greater number of  
<sup>137</sup> inflammatory or draining tunnels and affected areas, as well as worse

<sup>138</sup> scores on quality-of-life indices and visual analog scales. These results  
<sup>139</sup> are consistent with former studies suggesting that geographic barriers  
<sup>140</sup> may delay access to specialized care, resulting in delayed diagnosis and  
<sup>141</sup> treatment.<sup>10,11</sup> In addition, patients living farther away had a higher  
<sup>142</sup> therapeutic burden and were more likely to require biologic therapies or  
<sup>143</sup> dermatologic surgery, underscoring the importance of early accessibility  
<sup>144</sup> to prevent disease progression and improve prognosis. The increased  
<sup>145</sup> proportion of patients from distant areas treated with biologic drugs  
<sup>146</sup> may be explained by greater disease severity and the need for advanced  
<sup>147</sup> therapeutic options.<sup>4</sup>

<sup>148</sup> With respect to the referral method to the HS unit, patients referred  
<sup>149</sup> via teledermatology exhibited milder clinical characteristics compared  
<sup>150</sup> with those referred via conventional pathways. These patients were  
<sup>151</sup> younger, had a shorter disease duration, and lower scores on sever-  
<sup>152</sup> ity scales such as the DLQI and VAS. These findings suggest that  
<sup>153</sup> teledermatology may facilitate earlier detection of less severe cases,

allowing timely intervention before disease progression. Moreover, teledermatology-referred patients showed a lower therapeutic burden and no prior biologic treatments, indicating that this referral method may be particularly useful for identifying patients in the early stages of the disease.

Early care in HS is essential to prevent disease progression, given its progressive and irreversible nature. This approach is comparable to the protocolized management of critical conditions such as stroke and myocardial infarction, in which immediate care is vital to minimize tissue damage. In stroke, for example, reperfusion therapies administered within the first few hours have been shown to significantly reduce long-term disability.<sup>12</sup> Similarly, in myocardial infarction, timely primary angioplasty is associated with lower mortality and improved cardiac function.<sup>13</sup> In dermatology, this principle of early detection and intervention is evident in melanoma management, where early diagnosis increases survival rates and allows less invasive interventions.<sup>14</sup> These comparisons highlight the need to implement systems that prioritize early care for patients with hidradenitis suppurativa. Ensuring early access to specialized units is essential to achieve accurate and timely diagnoses and to establish effective therapeutic strategies capable of halting disease progression and reducing long-term complications. This approach not only optimizes comprehensive patient management but also helps minimize the physical and psychosocial impact of the disease.<sup>11</sup>

Our findings are consistent with international studies highlighting the clinical heterogeneity of HS and the influence of sociodemographic factors on its management.<sup>15,16</sup> Recent studies have emphasized the importance of addressing geographic and economic inequalities to improve outcomes in patients with HS.<sup>11,17</sup> In addition, the usefulness of teledermatology as a tool to improve accessibility and early detection has been previously documented,<sup>18-20</sup> although our study is among the few to specifically evaluate its impact on HS.

One of the main strengths of our study is the inclusion of a large and representative cohort, allowing for an in-depth analysis of the impact of geographic and referral-related factors on clinical characteristics and therapeutic decisions. Furthermore, the use of validated tools to assess disease severity, such as IHS4, Hurley stages, and DLQI, reinforces the robustness of the data obtained.

Nevertheless, the cross-sectional design of the study limits the ability to establish causal relationships. In addition, the smaller sample size of the teledermatology-referred group ( $n = 47$ ) vs the conventionally referred group ( $n = 510$ ) introduces an asymmetry that may limit statistical power to detect subtle differences between groups and may affect the generalizability of these findings.

Finally, although our results are applicable to the context of a specialized unit, their generalization to other settings may be limited due to differences in health care organization and available resources.

In conclusion, this study highlights the potential influence of geographic distance and referral method on the clinical characteristics and therapeutic decisions of patients with HS. Patients living farther away present with greater clinical severity and require more advanced therapeutic strategies, underscoring the need to ensure equitable access to specialized units and to promote the development of additional specialized centers within hospitals. On the other hand, teledermatology emerges as a valuable tool for early case detection with the aim of reducing therapeutic delay.

Overall, our findings reinforce the importance of adopting multidisciplinary strategies that address geographic barriers and optimize patient referral pathways to improve clinical outcomes and quality of life for patients with HS. Future longitudinal studies will be necessary to confirm our observations and to evaluate the impact of specific interventions on HS patient care.

## Conflict of interest

The authors declare that they have no conflict of interest.

## Appendix A. Supplementary data

Supplementary data associated with this article can be found, in the online version, at [doi:10.1016/j.ad.2025.104589](https://doi.org/10.1016/j.ad.2025.104589).

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