Who are the hidradenitis suppurativa patients aged 50 and over?



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Background

Hidradenitis suppurativa (HS), is a chronic inflammatory skin disease characterized by recurrent abscesses and fistulas located in the major folds of the body¹. It is often associated with comorbidities such as metabolic syndrome¹, depression¹, or inflammatory bowel disease (IBD)². Diagnostic challenges are not uncommon, leading to delayed diagnosis and intervention. Typically, the disease onset occurs after puberty, around the age of 22, and is considered as "late" if it occurs after 28 years⁴. HS usually attenuates after the age of 50¹ and after menopause³. However, patients over 50 with an active disease are not uncommon, and available data outside the usual range of age, particularly for the elderly patient, are limited⁴. Moreover, after this age, cardiovascular diseases and other comorbidities become significantly more frequent than in the general population⁵, complicating patient management and follow-up.

We aim to study a population of HS patients aged 50 and over to better characterize their comorbidities, associated pathologies, risk factors, and clinical phenotypes of their HS. The goal is to anticipate and better adapt their management.

Materials and methods

Data was extracted from the **European Registry for Hidradenis Suppuraiva (ERHS-Be)** completed by dermatologists during consultations with HS patents from *Erasme Hospital*. Our analysis focuses on HS patents that were registered in the ERHS after the age of 50.

Results

Demographic datas				Comorbidities and cardiovascular disease			
Total of patients		of 700 pa	tients)		Yes	Total	%
included				Diabetes	14	68	20 %
Mean age	57.8 y			Dyslipidemia	17	68	25 %
Mean age at onset	30 y			Hypertension	22	68	32.4 %
Mean diagnostic delay	20 y			Cardiac arrhythmia	8	68	11.8 %
Sex ratio	42.6 % Men 57.4 % Women			Ischemic heart disease	4	68	5.9 %
BMI	29.1 kg/m ²			Smoking status:			
Family History of HS	35 %			Never smoking	6	65	9.2%
Others comorbidities				Quit smoking	13	65	20 %
	Yes	Total	%	Current smoker	46	65	70.8 %
Inflammatory bowel disease	6	60	10 %				
History of depression	29	69	45.3 %	Tre	eatments		
Other dermatoses :					Yes	Total	%
- Eczema - Psoriasis	10 13	68 64	14.7 % 20.3 %	Systemics antibiotics	29	68	58.8%
Arthritis / painful joints	32	64	50 %	Adalimumab	8	68	11.8 %
Pilonidal cyst	16	64	25 %	Wide excisions	12	68	17.6 %



Discussion

The age of HS-onset is later, around **30 years**, with a significant **diagnostic delay** of **20 years**. Even though these data are self-reported by patients, this trend is observed in studies focusing on older HS-patients⁶. HS typically attenuates after the age of fifty¹, but 79.4% of the studied patients have a Hurley score⁷ of II or III, and 2/3 are moderate to severe according to the IHS4 score⁷, revealing a highly active disease. There are also more Hurley III than in our all-ages total cohort from this registry (ERHS) ⁸. HS attenuates with menopause³, which may explain the slight decrease in the female predominance. The **phenotypes** according to Dudink⁹ are almost distributed as in literature, except the "conglobata" type which is more frequent⁹, also compared with our all-ages HS-cohort⁸. A family history of HS is present in 35%, slightly higher than the standard HS population, and once again found in older HS-patients⁶. Contrary to our expectation, the frequency of cardiovascular diseases isn't particularly high compared to the general population in Belgium considering the middle age of our population⁵. These comorbidities are probably under-diagnosed in our patients. **Diabetes**, however, is slightly above the norm for age, also well above the 6% found in our all-ages registry⁸. There is also a very high prevalence of patients with a history of **depression** and/or **arthritis**.

The well-known association between HS and **inflammatory bowel disease (IBD)**² is more important here, with 10% of patients studied having IBD. Despite recruitment bias (our hospital is a reference center for IBD), the importance of this association would require regular screening for digestive symptoms, especially since anti-IL 17 drugs (contraindicated in IBD¹⁰) are increasingly prescribed for HS.

A longer exposure period to risk factors in older individuals can explain the frequency of comorbidities compared to younger ones. Moreover, like many other inflammatory dermatoses, inflammation is not confined to the skin and has a systemic impact¹.

Regarding treatments, only few patients have benefited of biological therapy (exclusively Adalimumab) and wide excision, which are nevertheless considered among the most effective long-term treatments.

Conclusion

HS patients aged 50 and over seem to differ by their later age of onset, the significant delay in diagnosis, their comorbidities and the type of involvement. Defining precisely this population requires a comparative study with a younger HS-cohort, which we are currently working on, thanks to the ERHS. This would allow us to detect comorbidities earlier and anticipate them through primary prevention. This would also help to design an appropriate and more specific care pathway.

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