Case Reports in **Dermatology**

Case Rep Dermatol 2018;10:187–189

DOI: 10.1159/000490880 Published online: July 12, 2018 © 2018 The Author(s) Published by S. Karger AG, Basel www.karger.com/cde



This article is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC) (http://www.karger.com/Services/OpenAccessLicense). Usage and distribution for commercial purposes requires written permission.

Single Case

Low Back Pain in Hidradenitis Suppurativa: A Diagnosis Not to Miss!

Benjamin Schnebert^a Véronique del Marmol^b Farida Benhadou^b

^aFaculty of Medecine, Université Libre de Bruxelles, ULB, Brussels, Belgium; ^bDermatology Department, Erasme Hospital, Université Libre de Bruxelles, ULB, Brussels, Belgium

Keywords

Hidradenitis suppurativa · Acne inversa · Adalimumab · Pain · Spondylitis

Abstract

We report the case of a patient suffering from hidradenitis suppurativa since puberty and complaining of chronic low back pain associated to altered sensitivity and muscular weakness in the right leg. A diagnosis of lumbosciatica was confirmed. Symptoms were not relieved after the use of nonsteroidal anti-inflammatory drugs and analgesics. A surgical decompression was then indicated but heavily debated. Indeed, extended inflammatory and fibrotic hidradenitis suppurativa lesions were located regarding the skin area eligible for the proposed surgery. A combined therapy with clindamycine/rifampicin was started and the surgery was postponed. A complete remission of the articular symptoms was observed 1 month after the start of the antibiotherapy and the inflammatory skin lesions were greatly improved. With the presentation of this clinical case, we would like to discuss the spectrum of rheumatic disorders associated to hidradenitis suppurativa that needs to be correctly diagnosed and taken into consideration in the therapeutic management of the patient. © 2018 The Author(s)

Published by S. Karger AG, Basel



Farida Benhadou Dermatology Department, Erasme Hospital Route de Lennik 808 BE–1070 Anderlecht, Brussels (Belgium) E-Mail Farida.Benhadou@erasme.ulb.ac.be

Case Reports in **Dermatology**

Case Rep Dermatol 2018;10:187–189	
	© 2018 The Author(s). Published by S. Karger AG, Basel www.karger.com/cde

Schnebert et al.: Back Pain and Hidradenitis Suppurativa

Clinical Case

We report the case of a 43-year-old patient with a long history of hidradenitis suppurativa (HS) who developed progressive low back pain with neuropathic discharges regarding the external part of the right thigh, leg, and foot. Furthermore, the patient described a predominance of pain in the morning and during exercises and sometimes associated with paresthesia.

The physical examination revealed a decreased muscular strength and a loss of sensitivity regarding the concerned leg. A tomography was performed and showed a lumbar disk hernia regarding L5/S1 vertebrae with a right postero-lateralization. A blood test was performed and the values were within the normal range with a CRP level at 4.5 mg/L.

The chronic use of nonsteroidal anti-inflammatory drugs and analgesics was ineffective and a surgical posterior lumbar decompression was then indicated. Extended inflammatory and fibrotic HS lesions were located in the skin area eligible for the proposed surgery. The surgery was postponed to avoid postoperative complications and a combined therapy with clindamycin 600 mg/day and rifampicin 600 mg/day was started. One month after the start of antibiotics, we noticed a complete remission of the articular symptoms and a great improvement of the inflammatory skin lesions.

Interestingly, the surgery was avoided. The potent anti-inflammatory effect of antibiotics has probably helped to decrease the inflammation surrounding the discuss prolapse [1]. However, this case bring us to discuss the association with an underlying inflammatory rheumatic condition.

Discussion

Rheumatic conditions associated with HS are not widely described in the literature. Articular manifestations have the characteristics of spondyloarthritis with axial or peripheral involvement or both [2]. Their prevalence among HS patients is estimated at 3.7 to 48% [3, 4]. Dermatological lesions develop prior to articular involvement in the majority of cases. Flares and severity of arthritis are positively correlated with exacerbations of HS [4].

Recently, other rare entities related to HS and spondyloarthritis have been described, including PAPA syndrome (pyoderma gangrenosum, acne, and pyogenic arthritis), PASH syndrome (pyoderma gangrenosum, acne, and HS), PAPASH (pyoderma gangrenosum, acne, psoriasis, arthritis, and HS), PASS syndrome (pyoderma gangrenosum, acne, spondyloarthritis, and HS), and PsPASH (psoriatic arthritis, pyoderma gangrenosum, acne, and HS). These syndromes have to be integrated in the interesting auto-inflammatory concept [5, 6].

It is of major relevance to detect and diagnose associated rheumatic disorders in patients suffering from HS in a way to propose an adapted an adjusted therapeutic strategy. Indeed, adalimumab is the first FDA-approved TNF- α blocking agent in HS. Its efficacy has also clearly been demonstrated on HS in two randomized clinical trials, PIONEER I and PIONEER II, which showed a clinically significant response of the disease versus placebo after 12 weeks of therapy (41.8 vs. 26.0% in PIONEER I [p = 0.003] and 58.9 vs. 27.6% in PIONEER II [p < 0.001]) [7, 8].

Adalimumab has also been used for many years in rheumatology as therapeutic option for axial spondyloarthritis, rheumatoid arthritis, psoriatic arthritis, ankylosing spondylitis, and juvenile idiopathic arthritis [9]. Adalimumab represents a treatment of choice in patients suffering from HS with underlying chronic rheumatic inflammatory disease. In addition to the medical therapy, general measures have to be strictly controlled as obesity and smoking habits.



Case Rep Dermatol 2018;10:187–189	
DOI: 10.1159/000490880	$\textcircled{\sc c}$ 2018 The Author(s). Published by S. Karger AG, Basel www.karger.com/cde

Schnebert et al.: Back Pain and Hidradenitis Suppurativa

As observed through the presentation of our clinical case, the symptoms reported by the patient were corresponding to usual symptoms associated to lumbar disc extrusion. The diagnosis was confirmed by tomography images. Interestingly, night back pain associated with morning stiffness let us hypothesize the presence of an underlying inflammatory rheumatic disorder.

The rapid clearance of rheumatic symptoms 1 month after the initiation of the combined clindamycin/rifampicin therapy may be explained by the potent anti-inflammatory effect of these drugs acting directly against the inflammation surrounding the herniated disc but also against the inflamed articulations [1]. Surprisingly, we also noticed a great improvement of the inflamed HS skin lesions. The surgery was avoided in this patient and a switch to adalimumab will be proposed. However, adjustment of treatment doses may be necessary to allow adequate control of both skin and joint lesions. Adalimumab dosing should be tailored according to the more predominant features of the overlapping diseases.

The introduction of TNF- α blocking agents should be considered early in the treatment of overlapping HS and the various spectrum of chronic rheumatic conditions. A dynamic interplay between rheumatologists and dermatologists is crucial to optimize the management of HS patients with articular disease.

Statement of Ethics

Case Reports in **Dermatology**

The patient signed an informed consent form approved by the Ethics Committee of the Erasme Hospital under the reference number B2016/001.

Disclosure Statement

The authors have no conflict of interest to declare.

References

- 1 Albert HB, Sorensen JS, Christensen BS, Manniche C. Antibiotic treatment in patients with chronic low back pain and vertebral bone edema (Modic type 1 changes): a double-blind randomized clinical controlled trial of efficacy. Eur Spine J. 2013 Apr;22(4):697–707.
- 2 Rosner IA, Richter DE, Huettner TL, Kuffner GH, Wisnieski JJ, Burg CG. Spondyloarthropathy associated with hidradenitis suppurative and acne conglobata. Ann Intern Med. 1982 Oct;97(4):520–5.
- 3 Richette P, Molto A, Viguier M, Dawidowicz K, Hayem G, Nassif A, et al. Hidradenitis suppurativa associated with spondyloarthritis— results from a multicenter national prospective study. J Rheumatol. 2014 Mar;41(3):490–4.
- 4 Schneider-Burrus S, Witte-Haendel E, Christou D, Rigoni B, Sabat R, Diederichs G. High Prevalence of Back Pain and Axial Spondyloarthropathy in Patients with Hidradenitis Suppurativa. Dermatology. 2016;232(5):606–12.
- 5 Vinkel C, Thomsen SF. Autoinflammatory syndromes associated with hidradenitis suppurativa and/or acne. Int J Dermatol. 2017 Aug;56(8):811–8.
- 6 Gasparic J, Theut Riis P, Jemec GB. Recognizing syndromic hidradenitis suppurativa: a review of the literature. J Eur Acad Dermatol Venereol. 2017 Nov;31(11):1809–16.
- 7 Zouboulis CC, Desai N, Emtestam L, Hunger RE, Ioannides D, Juhász I, et al. European S1 guideline for the treatment of hidradenitis suppurativa/acne inversa. J Eur Acad Dermatol Venereol. 2015 Apr;29(4):619–44.
- 8 Kimball AB, Okun MM, Williams DA, Gottlieb AB, Papp KA, Zouboulis CC, et al. Two Phase 3 Trials of Adalimumab for Hidradenitis Suppurativa. N Engl J Med. 2016 Aug;375(5):422–34.
- 9 Lapadula G, Marchesoni A, Armuzzi A, Blandizzi C, Caporali R, Chimenti S, et al. Adalimumab in the treatment of immune-mediated diseases. Int J Immunopathol Pharmacol. 2014 Jan-Mar;27(1 Suppl):33–48.

189

KARGER