Rapid Improvement of Hidradenitis Suppurativa Following Sleeve Gastrectomy

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Abstract

Severe obesity is commonly associated with dermatologic disorders such as intertrigo, psoriasis and hidradenitis suppurativa (HS). HS is a chronic inflammatory skin disease characterized by clusters of nodules, cysts, and abscesses that commonly affects hair bearing areas such as axilla, groin and perianal regions. Treatments of HS are complicated and vary depending on presentation and severity of the disease. We report here, the case of a 36-year-old female who showed rapid improvement of long-standing treatment-refractory HS following laparoscopic sleeve gastrectomy and subsequent weight loss. This severely obese patient had previously shown little response to multiple treatment modalities, including antibiotic therapies, isotretinoin, and surgical removal of abscess. Rapid improvement of lymphedema and abscess at axilla areas was observed during 12 months postoperatively. Weight loss may be of value in the treatment of HS, and bariatric surgery may be considered in cases of complicated HS with morbid obesity.

Keywords

Morbid obesity, Hidradenitis suppurativa, Sleeve gastrectomy

Introduction

Hidradenitis Suppurativa (HS) is a chronic disorder of the terminal follicular epithelium in the apocrine sweat gland bearing areas such as axilla, groin and perianal regions [1]. This condition is characterized by comedo-like follicular occlusion, chronic inflammation, papules, nodules, tunnels, and progressive scarring [1, 2]. HS is more common in obese people and cigarette smokers [3-5]. Obesity and smoking are not direct causes. However, they can be regarded as risk factors. Medical treatment of HS is difficult, and it is sometimes refractory to medical treatment. Therefore, weight loss and stopping smoking are required for medical treatment of HS. In general, long-standing HS usually requires surgery. The surgical procedures including laser treatment and wide excision chosen depend on the severity or extent of HS. However, the prognosis is variable. Treatment-refractory HS can disrupt working and activities as well as causes psychological and sexual relationship difficulties [6]. In this case study, we report on a patient with long-standing treatment-refractory HS, which showed rapid improvement following laparoscopic sleeve gastrectomy (LSG) with dramatic weight loss.

Case Report

A 36-year-old female presented to our out-patient clinic with a history of axillary pain and recurrent abscess with severe obesity. The patient had been diagnosed with HS 20 years earlier, at the age of 16 years. After puberty, the patient had undergone medical treatments including antibiotics and isotretinoin (Roaccutane) for several years. However, the grade or extents of HS were not improved. Therefore, the patient had undergone several surgical treatments including excision and drainage for 20 years. Nevertheless, the patient experienced recurrent episodes of foul odor and pus discharge. Quality of life was markedly reduced by discomfort and unpleasant discharge of pus from an axillary abscess. Height and weight were 153 cm and 76.3 kg and body mass index (BMI) was 32.6 kg/m². The patient had hypertension and dyslipidemia with obesity. On physical examination, there was evidence of active HS with follicular papules and nodules affecting the axilla (Figure 1). In spite of repeat treatments including antibiotics, isotretinoin and surgical excision of abscesses, HS was not improved. Therefore, the patient was referred by a dermatologist due to failure of medical treatment. Weight loss was considered the only solution to end the vicious cycle. The patient

Figure 1: Preoperative picture showing comedo-like follicular occlusion, mucopurulent discharge, and numous scaring at left axilla.
severity. When HS progress into the skin, medical treatment alone more than 15% is associated with a significant reduction of disease weight loss. From a severity of HS perspective, a weight loss of involved sites was reduced from 1.93 to 1.22 (p = 0.003) following after weight loss surgery decreased by 35% and the mean number of al. [4] reported that the number of patients reporting HS symptoms occurring after weight loss. In our case, she had received medical treatments including antibiotics and acitretin for several years but the activity of HS was not improved. The weight loss procedure does not directly affect treatment of HS; however her HS activity showed rapid improvement after LSG. Three months later, foul odor and pus discharge at axilla ceased and no new abscesses appeared. She did not take medications during postoperative 1 year and was very satisfied with significant weight loss and resolution.

LSG is currently the most frequently performed procedure for weight loss in USA/Canada and in the Asia/Pacific regions, and second to Roux-en Y gastric bypass in Europe [10]. LSG is the first choice for treatment of obesity with lower BMI (30-35 kg/m²) in our clinic [11]. In this case of refractory HS with severe obesity, losing weight following bariatric surgery may be an effective treatment option. Therefore, bariatric surgeons should not hesitate to perform a bariatric procedure for treatment of complicated or refractory HS with severe obesity. Furthermore, diet and lifestyle change should have accompanied after LSG.

References