

**Table SI. Summary of the different studies focusing on bariatric surgery (BS) in the context of hidradenitis suppurativa (HS)**

	Kromann et al. (4)	Garcovich et al. (7)	Canard et al. (present study)
Type of study	Retrospective and monocentric	Retrospective and bicentric	Retrospective and monocentric
Methods	Mailed questionnaire sent to 383 obese patients treated by BS	Examination of medical records of patients with HS who underwent BS	Administration of a standardized phone call questionnaire in patients with HS treated by BS
Aims	To identify patients with HS, and then evaluate HS evolution after BS	To describe BS effect on HS course	To evaluate HS evolution after BS
HS diagnosis confirmed by dermatologist	No	Yes	Yes
Number of patients with HS who underwent BS	45 patients, with HS diagnosis prior to BS or with HS developed after BS	12 patients, with HS diagnosis prior to BS or with HS developed after BS	12 patients, with HS diagnosis prior to BS
Control group	No control group	62 patients with HS with mean BMI $25.9 \pm 5.5$ kg/m <sup>2</sup>	7 HS obese patients, receiving only nutritional care
Types of BS	Gastric bypass Gastric banding	Bilio-pancreatic diversion Mini-gastric bypass	Gastric bypass Sleeve gastrectomy
HS evolution after BS	For 35 patients with active HS before BS and significant weight loss: <ul style="list-style-type: none"> <li>• No HS symptoms: 49%</li> <li>• Less severe HS symptoms: 20%</li> <li>• Unchanged HS severity: 20%</li> <li>• Increased severity of HS: 11%</li> </ul> In 5 other patients: HS developed after BS	For the 2 patients with HS before BS: <ul style="list-style-type: none"> <li>• Stable disease activity in 1 patient</li> <li>• Increased disease activity 1 patient</li> </ul> In 10 other patients: HS developed after BS	For the BS group: <ul style="list-style-type: none"> <li>• Significant weight loss</li> <li>• Significant decreased number of HS affected sites</li> <li>• Significant decrease of HS activity based on VAS</li> <li>• Significant lower DLQI, than the control group</li> </ul>
Other findings		Median serum zinc levels significantly lower in post-BS patients with HS than in the control group	No significant improvement of HS in the control group

BS: Bariatric surgery; DLQI: Dermatology Life Quality Index; HS: Hidradenitis suppurativa; VAS: visual analogue scale.