# Exploring the Persistent Questions Regarding the Long-Term Influence of Bariatric Surgery on Psoriasis

*Department of Bioinformatics, School of Basic Medical Sciences, Chongqing Medical University, Chongqing, 400016, China*

### Abstract

Upon a thorough analysis of Ali Hosseininasab's research on the relationship between bariatric surgery and psoriasis, we affirm the findings, which indicate that weight loss procedures such as gastric bypass and sleeve gastrectomy can significantly alleviate the severity of psoriasis symptoms and reduce the need for treatment. However, it is noteworthy that the effectiveness of the surgery varies significantly among individuals, with some patients experiencing a worsening of symptoms. Therefore, future treatment plans need to be more personalized1. Nevertheless, we believe that several key issues may have influenced the interpretation of the study results, which warrant further discussion.

Firstly, a high percentage of the study participants, 90.6%, were female, yet the occurrence of Polycystic Ovary Syndrome (PCOS), a common endocrine disorder, was not detailed. PCOS, characterized by hyperandrogenism, insulin resistance, and ovulatory dysfunction, is closely associated with obesity and metabolic syndrome, making patients more likely to undergo weight loss surgery. Psoriasis, a complex disease involving the interaction of genes, the immune system, and the endocrine system, is closely linked to insulin resistance and metabolic syndrome. Studies have found that women with PCOS are at a higher risk of developing psoriasis, and their skin lesions are more severe compared to those without PCOS2, and this association persists even after adjusting for metabolic syndrome-related factors such as diabetes and hypertension3. Therefore, failing to adequately consider PCOS as a variable could impact the general applicability and reliability of the study's conclusions.

Secondly, the duration of obesity may correlate with the chronic inflammatory state of psoriasis, where long-term obesity could lead to an accumulation of inflammatory responses, thereby affecting the severity of psoriasis and treatment responses4. Additionally, the duration of psoriasis itself may influence patients' responses to treatment; those with a long history of the disease may have more stubborn skin lesions and poor treatment responses. Therefore, not taking into account the age of onset and duration of both obesity and psoriasis could affect our understanding of the relationship between bariatric surgery and psoriasis, an aspect that has been proven important in previous studies5.

In summary, although the research by Ali Hosseininasab and colleagues provides valuable insights, to enhance the credibility and validity of the study's conclusions, a thorough analysis and resolution of the aforementioned issues are essential.

### Image

**Recent Publications**

1. Ali Hosseininasab., et al., 2024.The Long-Term Impact of Bariatric Surgery on Psoriasis Symptoms and Severity: A Prospective Observational Study . Surg Obes Relat Dis. [doi.org/10.1016/j.soard.2024.07.011](https://doi.org/10.1016/j.soard.2024.07.011" \o "Persistent link using digital object identifier" \t "/Users/tangweizhen/Documents\\x/_blank)
2. Moro, F., et al., 2015. Psoriasis and polycystic ovary syndrome: A new link in different phenotypes. Eur J Obstet Gynecol Reprod Biol. 191, 101-5. doi: 10.1016/j.ejogrb.2015.06.002
3. Lee, T.H., et al., 2020. Risk of psoriasis in patients with polycystic ovary syndrome: A national population-based cohort study. J Clin Med. 9, doi: 10.3390/jcm9061947
4. Maglio, C., et al., 2017. Bariatric surgery and the incidence of psoriasis and psoriatic arthritis in the swedish obese subjects study. Obesity (Silver Spring). 25, 2068-2073. doi: 10.1002/oby.21955
5. Laskowski, M., et al., 2021. Impact of bariatric surgery on moderate to severe psoriasis: A retrospective nationwide registry study. Acta Derm Venereol. 101, adv00487. doi: 10.2340/00015555-3825

**Photograph**

Biography

Weizhen Tang joined Chongqing Medical University in 2017, where he took a position in the Department of Bioinformatics, School of Basic Medicine. He primarily conducts research in the field of reproductive biology, with a focus on placenta-originated diseases. He has successively won 5 national awards, including first and second prizes (among which includes special awards), 3 national third prizes, and more than ten provincial and ministerial awards.

Email: 2021220107@stu.cqmu.edu.cn

**Notes/Comments:**