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Michael L. Granda MSc, Liwei E. Huang MD



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# Silicone injection-related granulomatous hypercalcemia: case report and current clinical and scientific understanding

Michael L Granda, MSc; Liwei E Huang, MD.

Eastern Virginia Medical School, Norfolk, VA

## **ABSTRACT:**

Cosmetic filler injections are known to cause a number of acute and chronic effects, including local inflammation, nodule formation, and granulomatous reaction. The timeline of these events is highly variable, occurring from hours to decades following injection. In a minority of cases, systemic effects have been observed. We report a case of granulomatous disease secondary to illicit silicone injection causing recalcitrant hypercalcemia. Additionally, we review the pathophysiology of inflammation in cosmetic filler injections, the prevailing understanding of hypercalcemia in granulomatous disease, and summarize the most effective treatment modalities for this rare condition.

**KEY WORDS:** silicone, hypercalcemia, granulomatous disease, granuloma

## **INTRODUCTION:**

Cosmetic injections, both professional and illicit, are known to cause a number of local reactions contributing to poor cosmetic outcome, ulceration, and nodule formation. Silicone has been used for several decades due to its

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