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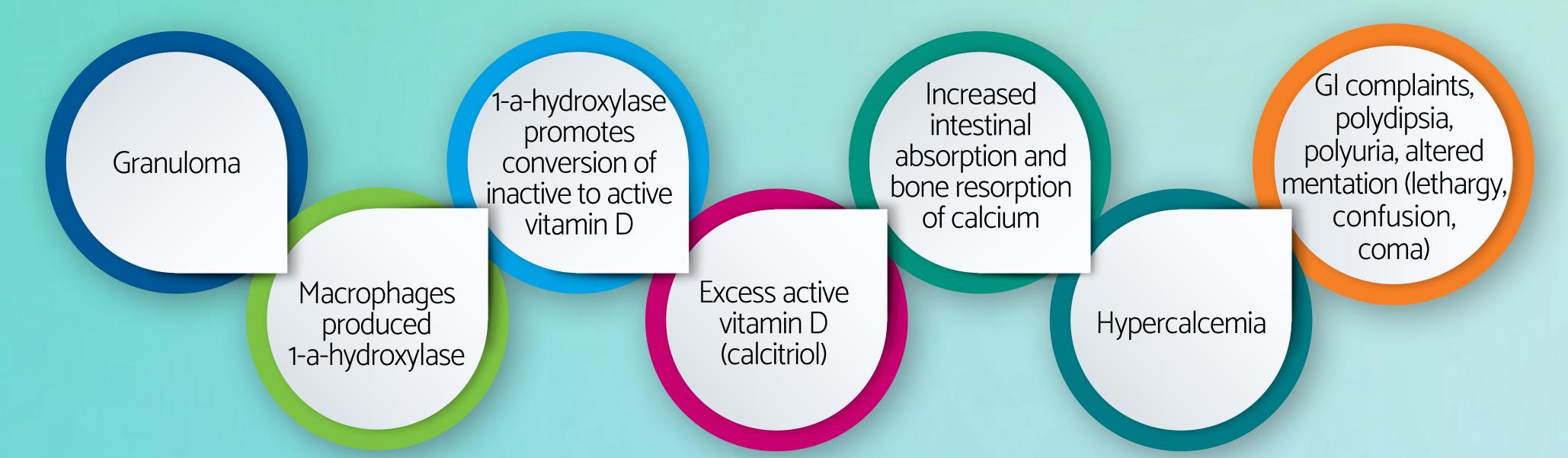
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Case of Altered Mental Status Secondary to Hypercalcemia from Granulomatous Reaction to Silicone Injections

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Introduction

Reported cases of hypercalcemia from silicone-induced granulomas have been increasing over the last decade.2



- Hypercalcemia from cosmetic surgery is a rare but potentially emerging cause of delirium.
- We present a case of hypoactive delirium from hypercalcemia secondary to granulomatous reaction to silicone injections.

Case Presentation

- Patient was a 39-year-old Hispanic woman with history of gluteal silicone injections 20 years prior.
- · She presented with gastrointestinal symptoms, cachexia, anorexia, withdrawn behavior, and dysphoric affect.
- Psychiatry was consulted to evaluate for possible depression and eating disorder.

- On exam, she was dysphoric, lethargic, and confused with waxing and waning alertness.
- She denied any psychiatric history and was reluctant to discuss psychological matters.
- · She denied symptoms meeting criteria for MDD, eating disorder, and body dysmorphic disorder.
- EEG revealed encephalopathy.
- Calcium, calcitriol, and PTHrP were elevated, while PTH was low.
- Imaging showed calcifications in gluteal and thigh regions – the sites of her silicone injections.

Patient's Value	Ref
17.2	8.5–10.1
1.89	1.18-1.32
280	19.9-9.3
8.0	0.0-3.4
9.6	18.5-88.0
	17.2 1.89 280 8.0

- She was diagnosed with hypoactive delirium secondary to hypercalcemia from silicone-induced granulomas.
- Aripiprazole was initiated to improve mentation, mood, and energy to good effect.
- However, she became noncompliant as she denied needing psychotropic medications.
- Her calcium levels remained high (12.6, ionized 1.59), and her cachexia worsened over time.
- Although medically unstable with persisting delirium, she was brought home by family against medical advice.

Discussion

- · Silicone-induced granulomas is an unusual but rising cause of hypercalcemia.
- Unfortunately, treatment is often difficult and noncurative.
- Mainstay treatment with fluids and steroids temporarily improves hypercalcemia.²
- Excising the granulomas often fails as granulomas migrate.⁴
- Both medical and surgical treatments were unsuccessful for our patient.
- Studies show that neuropsychiatric disturbances may persist even when hypercalcemia resolves,3 but aripiprazole may improve hypoactive delirium1 as briefly seen in our patient.

Conclusion

- · Cases of granulomatous reactions to silicone injections are rare but increasing.
- · Therefore, all CL psychiatrists should consider hypercalcemia from granulomatous reactions in patients with prior cosmetic surgeries presenting with altered mentation.
- · Although delirium can persist after correcting hypercalcemia, aripiprazole may be used supportively for hypoactive delirium.

REFERENCES

¹Boettger, S., & Breitbart, W. (2011). An open trial of aripiprazole for the treatment of delirium in hospitalized cancer patients. *Palliative and* Supportive Care, 9(4), 351-357. doi:10.1017/s1478951511000368

²Dangol, G. M., & Negrete, H. (2019). Silicone-induced granulomatous reaction causing severe hypercalcemia: Case report and literature review. Case Reports in Nephrology, 2019, 1-6. doi:10.1155/2019/9126172

³Melnick, S., Abaroa-Salvatierra, A., Deshmukh, M., & Patel, A. (2016). Calcitriol mediated hypercalcaemia with silicone granulomas due to cosmetic injection. BMJ case reports, 2016, bcr2016217269. https://doi.org/10.1136/bcr-2016-217269

⁴Yedla, N., Perez, E., Lagari, V., & Ayala, A. (2019). Silicone granulomatous inflammation resulting in hypercalcemia: A review of the literature. AACE Clinical Case Reports, 5(2). doi:10.4158/accr-2018-0277



