

## Hereditary Angioedema: Case Presentation and Review of Anaesthetic Implications

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**Abstract :** Background: Hereditary angioedema (HAE) or C1 esterase deficiency is a relatively rare entity that has a potential for significant anesthetic complications. Methods: A literature review was performed of published cases of surgery in patients with HAE. Results were limited to English language only and cases were examined for management strategies and successful prevention of acute attacks. Results: The literature revealed the successful use of C1 esterase inhibitors as the most common agent in surgical prophylaxis therapy. Other therapeutic targets described included kallikrein inhibitors and bradykinin B2 receptor antagonists. Conclusions: Therapeutic targets that exist for the management of acute attacks in HAE have been successfully employed in the setting of surgery. The data is currently limited and could not be used as a firm evidence base, but the limited outcomes seen are positive and reassuring for the prospective anesthetic management of this potentially fatal condition.

**Keywords :** anesthesia, C1 esterase deficiency, hereditary angioedema, surgical prophylaxis

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