## **Pharmaceuticals**

## Steroid cover

Sir, patients with Addison's disease are at risk of an adrenal crisis and require consideration for steroid cover during dental procedures. Adrenal suppression secondary to systemic glucocorticoid use is the most common cause of adrenal insufficiency. Most recent evidence suggests that patients taking 5 mg prednisolone or more, for one month or longer, may be at risk.¹ Approximately seven in 1,000 people are prescribed long-term glucocorticoids, creating a large population of patients that require further consideration in dentistry.²

Guidance for the management of patients with Addison's disease and other forms of adrenal insufficiency in the dental setting was proposed by Gibson *et al.* in 2004 and remains a primary reference for dentists.<sup>3</sup>

In 2020, guidelines for the management of glucocorticoids during the peri-operative period for patients with adrenal insufficiency were published by the Association of Anaesthetists. This guidance provides a framework for prevention of adrenal crisis in at-risk patients undergoing surgery; however, dental surgery is not considered.<sup>4</sup>

We wish to bring the recently published Addison's Self-Help Group's surgical guidelines to the attention of your readers.<sup>5</sup> Interpretation of this guidance suggests that patients should have 100 mg IM hydrocortisone administered prior to all dental extractions in patients with or at risk of adrenal insufficiency. This guidance does not allow dentists to assess the invasiveness of the procedure, as most dental extractions are considered to be minor surgery that does not result in significant surgical stress.

This guidance has implications for the management of patients at risk of adrenal crisis within the dental setting. It is widely accepted that the risk of adrenal insufficiency for dental treatment under local anaesthetic is low, and the vast majority of these patients are managed safely within primary dental care.

There is a lack of evidence on this clinical problem and advice given to patients.

We would welcome a joint dentist- and

endocrinologist-led review on the prevention of adrenal crisis in at-risk patient groups, and recommendations that consider the most appropriate steroid cover regime for procedures routinely performed in primary and secondary care dentistry.

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