

# ADRENAL SUPPRESSION



## Definition

Adrenal suppression refers to decreased cortisol production as a result of negative feedback on the hypothalamic-pituitary-adrenal axis, caused by excess glucocorticoids

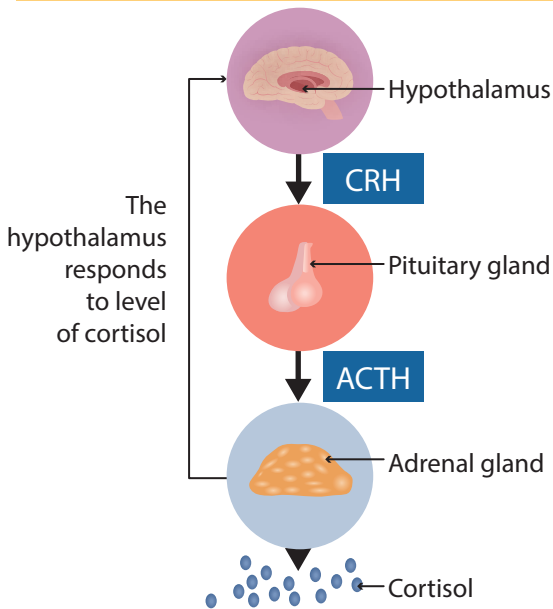
## Causes of adrenal suppression

- Sudden cessation of exogenous glucocorticoids
- Can also occur when endogenous glucocorticoid excess is corrected

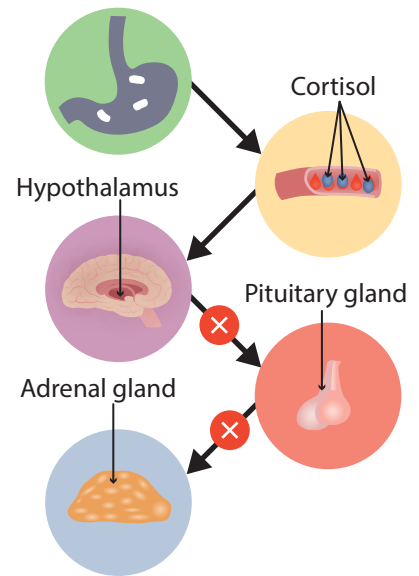
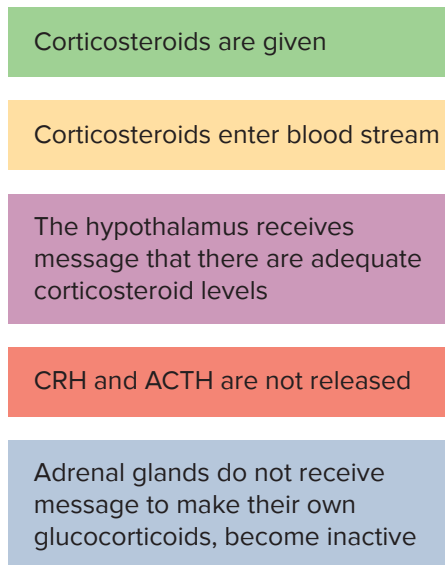
## Risk factors

- The higher the dose, the longer the therapy, the greater the risk
- Can develop after > 1 week of high dose steroids
- Oral and IV corticosteroids have greater risk than topical or inhaled

## Normal feedback loop



## Adrenal suppression



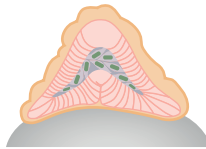
## Effects of adrenal suppression

- Hypotension
- Nausea, vomiting
- Body hair loss
- Hypoglycemia
- Extreme fatigue
- Weight loss
- Decreased appetite
- Irregular, or absent, menses
- Salt cravings



## Acute adrenal insufficiency

Adrenal suppression can lead to adrenal insufficiency, a potentially life-threatening side effect of corticosteroid use



When adrenal insufficiency occurs, the adrenal gland atrophies and fails to make corticosteroids. Exogenous glucocorticoids may be needed.

## Client Education



Stress importance of following tapering regimen. Client should not abruptly stop medications.



Explain need to wake adrenal glands up slowly, gently encouraging glands to produce corticosteroids again



In some cases of long-term, high dose steroid use, recovery can take months. Client should be aware of acute symptoms requiring follow-up.

## NOTES

