

## Adrenal Insufficiency / Addisonian Crisis Emergency Management

### Patients at Risk

- Pre-existing Addison's disease (primary adrenal insufficiency)
- Pituitary disease (secondary adrenal insufficiency)
- Patients on chronic steroid treatment:  $\geq 5$  mg prednisolone daily (or equivalent dose of other steroids) for  $\geq 4$  weeks in the last 3 months OR  $\geq 40$  mg prednisolone daily for  $>1$  week in the last 3 months
- Patients on immunotherapy with checkpoint inhibitors

### Precipitants:

- |               |             |                |
|---------------|-------------|----------------|
| • Infection   | • Diarrhoea | • Major stress |
| • Dehydration | • Vomiting  | • Trauma       |

Diagnostic measures should not delay treatment. If Addisonian crisis suspected, treatment should commence without delay

### Closely monitor for biochemical abnormalities

- Hyponatraemia
- Hypoglycaemia
- Hyperkalemia (not in pituitary patients) **MAY BE NONE IF CAUGHT EARLY**

### Immediate Management

- Hydrocortisone 100 mg IV/IM STAT (continue 50 mg QDS regularly)
- IV fluids: 1 L 0.9% NaCl in the first hour
- Further IV hydration (several litres may be required over 24 hours)  
Monitor for fluid overload in elderly, cardiac and renal impairment
- Monitor capillary blood glucose and treat hypoglycemia

### Clinical Features

- Hypotension
- Dizziness
- Collapse
- Hypovolemic shock
- Fatigue
- Confusion
- Delirium
- Impaired level of consciousness
- Abdominal pain/cramps
- Nausea/vomiting
- Weight loss

There are no adverse consequences of initiating life-saving hydrocortisone treatment.

If the diagnosis is unclear, it can be safely and formally established when the patient has clinically recovered.

### Seek urgent endocrine advice for patients on DDAVP (desmopressin)

Report all incidents of Addisonian crisis for patients with known adrenal insufficiency or hypopituitarism on the DATIX system