



REMAP-CAP CORTICOSTEROID DOMAIN

This domain aims to determine the effectiveness of different strategies of corticosteroid utilisation in the treatment of CAP. In this domain, patients are randomised to receive:

- No corticosteroid, including hydrocortisone or dexamethasone (without administration of placebo)
- Fixed duration hydrocortisone for 7 days
- Shock-dependent hydrocortisone while the patient is in septic shock
- Fixed duration dexamethasone for 10 days

Your site may be participating in all four interventions in this domain or only two or three, depending on local practice. You may choose to participate in different interventions in the Moderate and Severe illness severity states.

NO CORTICOSTEROID INTERVENTION

Intervention

In this intervention, patients are not to receive <u>any</u> systemic corticosteroid (including hydrocortisone or dexamethasone) for this episode of Community-Acquired Pneumonia (CAP) or its direct complications.

Discontinuation of Intervention

The withholding of corticosteroids for this episode of CAP or its complications is to continue until the end of study day 28 or hospital discharge, whichever occurs first.

FIXED DURATION HYDROCORTISONE INTERVENTION

Intervention

In this intervention, patients are to receive a course of hydrocortisone 50mg IV every 6 hours, for 7 days.

Commencement of Intervention

Administration is to commence immediately after allocation is revealed at the time of randomisation. It will be considered a protocol deviation if during the 7 day course more than two sequential doses of hydrocortisone are missed, or if three or more individual doses are missed.

Discontinuation of Intervention

The seven-day course will be administered until <u>at least the end of study day 7</u>, and <u>no longer than the end of study day 8</u> (<u>i.e. it is intended that 28 doses are administered</u>). For patients discharged from hospital before the end of the seven day course, hydrocortisone should be discontinued at hospital discharge.

SHOCK-DEPENDENT HYDROCORTISONE INTERVENTION

Intervention

Patients randomised to the shock-dependent hydrocortisone intervention are to receive <u>50mg IV hydrocortisone every 6</u> hours while the patient is in septic shock.

Commencement of Intervention

The intervention is to commence as soon as septic shock is diagnosed, including immediately after randomisation if septic shock has already been diagnosed.

Definition of shock

For the purposes of this intervention, septic shock is defined as:

- Administration of any vasopressor by continuous infusion, AND
- The treating clinician believes that the vasopressor requirement is due to the CAP, and not for another reason such as untreated hypovolaemia or solely to offset the effects of other ICU interventions (such as administration of sedation or mechanical ventilation).

The exact dose of vasopressor that defines septic shock is not defined by the protocol, but is based on the judgement of the treating clinician.





SHOCK-DEPENDENT HYDROCORTISONE INTERVENTION (CONTINUED.)

Discontinuation of Intervention

Hydrocortisone administration is to cease when the clinician believes that septic shock has resolved. Septic shock would always be regarded as being resolved if vasopressor infusion has not been administered in the preceding 24 hours.

A clinician may regard septic shock to have resolved if vasopressors are being administered intermittently or at a low dose.

If, during the same ICU admission and within 28 days of randomisation, hydrocortisone is ceased and shock due to CAP or its direct complications reoccurs, then the intervention is to be <u>recommenced until resolution of shock</u>.

Hydrocortisone should be ceased prior to ICU discharge.

FIXED DURATION DEXAMETHASONE INTERVENTION

Intervention

In this intervention, patients are to receive a course of <u>dexamethasone 6mg (IV or enteral) daily for 10 days</u>. In children, the allocated intervention should be replaced by dexamethasone 0.15 mg/kg to a maximum dose of 6mg/day for 10 days. In pregnancy, dexamethasone should be replaced by oral prednisolone 40mg once daily, or IV hydrocortisone 50mg every 6 hours, for 10 days.

Commencement of Intervention

Administration is to commence immediately after allocation is revealed at the time of randomisation. It will be considered a protocol deviation if during the 10 day course more than two sequential doses of dexamethasone are missed, or if three or more individual doses are missed.

Discontinuation of Intervention

The ten-day course will be administered until <u>at least the end of study day 10</u>, and <u>no longer than the end of study day 11</u> (<u>i.e. it is intended that 10 doses are administered</u>). For patients discharged from hospital before the end of the ten day course, dexamethasone should be discontinued at hospital discharge.

For patients allocated to the fixed duration dexamethasone intervention who later develop septic shock, a decision to cease dexamethasone and commence a course of hydrocortisone will be at the discretion of the treating clinician, and will <u>not</u> be considered a protocol deviation.

CONCOMITANT CARE AND PROTOCOL DEVIATIONS

The administration of Etomidate after enrolment is not permitted and will be considered a protocol deviation.

For patients who are allocated to a fixed course of hydrocortisone or dexamethasone and are discharged from the randomising location (i.e. ward or ICU) before the end of the allocated course of corticosteroids, it is the responsibility of the treating clinician to prescribe the allocated corticosteroid to complete the course. However, it is not the responsibility of the treating clinician or research staff to ensure continuation of the allocated corticosteroid after discharge from the randomising location. It is not a protocol deviation if the allocated course of corticosteroids is not completed after discharge from the randomising ward or ICU, and continuation of the allocated interventions is a clinical decision at the discretion of the treating clinician in the new location.

Administration of a non-allocated systemic corticosteroid is permitted for the treatment of new illnesses that develop in the course of a patient's hospital stay (e.g. asthma, treatment of an allergic reaction, new episode of septic shock from hospital-acquired infection). For patients who have received an allocation in this domain who remain in hospital after study day 28, administration of corticosteroids is at the discretion of the treating clinician.