

CMG 3(a) - RAPID SEQUENCE INTUBATION (RSI)

(Revised: January 2014)



ALL INTUBATIONS (EXCLUDING PATIENTS IN CARDIAC ARREST) WILL FOLLOW THIS PROCEDURE

~ THIS IS AN ICP ONLY CMG ~

INDICATIONS:

The patient with unequivocal life threatening airway compromise and clinical evidence of severe hypoxia, where the airway cannot be managed by less aggressive means.

OR

The patient with potential airway compromise where extrication will make it impossible to maintain adequate airway control, or where the airway cannot be managed by less aggressive means and where time to hospital (including extrication, load and transport times) is more than 10 minutes.

CONSIDERATIONS IN APPLYING THE INDICATIONS

The following must be considered prior to utilisation of this guideline:

Response to basic treatment: ability to oxygenate, ventilate and protect the airway by less aggressive means.

Remember the primary goals of airway management.

Consider the risks and benefits of intubation.

Clinical needs are influenced by the following:

- clear and obvious airway compromise
- significantly decreased level of consciousness (GCS <9/abnormal response to painful stimuli)
- hypoxia – SpO₂ <90% *OR* centrally cyanosed
- time to hospital (including extrication, load & transport time).

Apparent difficulty of intubation:

- anatomy
- acquired and situational factors
- confidence and experience of operator

Caution:

- hypothermic patient
- fitting patient
- patient with reversible pathology

continues over

CMG 3(a) - RAPID SEQUENCE INTUBATION (RS) cont.

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PROCEDURE

Basic airway management –
Posture, suction, oral/nasal airway, LMA

Oxygenation –
Aim for the highest SpO₂ by the most efficient method.
High flow oxygen by nasal prongs is mandatory throughout this procedure.

IV / IO access –
Establish a fast flowing line that is reliable and secure.
A second line is desirable

- Prepare patient –**
1. Correct any hypotension / hypovolaemia prior to / concurrently with this procedure (10ml/kg normal saline unless in pulmonary oedema)
 2. Pre-oxygenate
 3. Monitor patient: ECG, SpO₂, EtCO₂.
 4. Execute Intubation Algorithm (CMG 3b)

DRUG SEQUENCE

Adult:

- ketamine 1mg/kg fast push
- suxamethonium 1.5mg/kg over 30–60 seconds

Post intubation to maintain tube and level of sedation:

- Ketamine, up to 1mg/kg at one to five minute intervals, titrated to effect
- if adequate sedation not achieved after second post-intubation ketamine dose, consider midazolam 0.05mg/kg.

Suxamethonium may cause bradycardia, if patient is bradycardic once ETT is tied in, consider a dose of atropine.

If suxamethonium is contraindicated:

- reconsider the need for intubation
- if intubation is required, administer 2mg/kg ketamine IV and attempt intubation.

Note: laryngospasm following ketamine is rare, but may occur. Also, intubation conditions will be less than ideal – consider carefully if other airway management options are appropriate.

IF INTUBATION FAILS

Re-oxygenate / re-ventilate the patient – utilise basic techniques

There is **no second dose** of suxamethonium

Execute Intubation Algorithm (CMG 3b)

FOLLOW UP

1. All relevant details will be carefully documented on the PCR. This especially applies to details concerning the need for sedation, the checks on correct placement of the ETT and the results of the procedure.
2. All additional RSI paperwork must be sent to CGU by the end of the shift. **There are no exceptions.**
3. All pharmacologically facilitated intubations will be subject to routine, mandatory review.