*Figure 1: Procedural Algorithm*

Patient Selection

Consent obtained and patient information given

Randomisation

No Oxygenation device

CONTROL GROUP

Apply nasal prongs

Oxygen 15L/Min

Apply nasopharyngeal catheter Oxygen 15L/min

Apply facemask

Pre-Oxygenate WITH 100% O2 for 3 minutes

Induce anaesthesia

Including

non-depolarising muscle relaxant

Start timer at onset of apnoea

NO MASK VENTILATION

ABORT STUDY AND SECURE AIRWAY

ABORT

 STUDY

Perform laryngoscopy

Acceptable view at laryngoscopy

Predicted difficult intubation or requirement of non-conventional intubation technique

O2

 SATS

≤

94%

Insert gas sampling line into laryngeal inlet

Relax laryngoscope in position

Maintain patent airway

At 2 minutes

Record Fi02 from pharyngeal inlet

At 3 minutes

Record Fi02 from pharyngeal inlet

Intubate