

Anaesthetic Crisis Handbook

V1. Oct 15 -Original document

V2. Feb 17 – Multiple changes. See below

v2.1 Oct 17 – Minor additions mostly to do with adding in more paed's emergency information. 1 major correction on infraglottic rescue: 2nd breath via cannula should be 500ml not 250ml

v2.2 Nov 17 – Improvements to formulary terminology & dosing as well as some phrasing used throughout the book. Major changes to CICO supraglottic airway page - full rollout of the Vortex approach. New ALS pages with better flow depending on what type of airway strategy is used.

v2.3 Jan 18 – Added severe bronchospasm on 28d Low EtCO₂ as a cause for no EtCO₂.

v2.4 Apr 18 - Changes to bronchospasm. Decr max pressures, removed “listed in priority order”, changed LV failure to pulmonary oedema, improved suggestions around ventilatory strategies. Changes to low EtCO₂ page: reordered differential diagnosis lists.

v2.5 May 18 - Changed hyperkalaemia page to dosing in mls & undiluted insulin. Correction to instruction page formatting. Slight correction on eclampsia magnesium regimes for local hospitals

v2.6 Jun 18 - Updates to vortex page courtesy of Dr Chrimes with thanks

Version 2 Change Log

General Changes

- A new name = Handbook
- Changed layout of book into 2 separate books - “Treating known Emergencies” & “Diagnosing Problems”. The print version is intended to be made as 2 books into 1 in a topsy turvy fashion. Flip end over end to look at the other book:
- Updated title pages with new colours to reflect different books
- Updated instructions pages
- Updated acknowledgements & thanks
- Whole new design to contents page with discrete arrows to tabs, colours on stems to reflect whether contents of emergencies or diagnosing, re-ordered pages into A>B>C>E>O approach (page changes below relate to old page numbers)
- Removed all shadowing from the pages for a cleaner, more modern look
- Updated digital links
- Updated all tag links within book
- added 🤔 icon to symbolise paed's dosing

New Pages

- Failure to Wake
- Airway & Patient Fire
- Amniotic Fluid Embolism
- Peri-partum seizure
- Telephone Directory

Version 3 Change Log

General changes

- Change design of front pages - cleaned up colours
- Rename desaturation to Low SpO₂
- Re-written instructions on approaching problems
- Removed all “see” Tab x
- Changed all “mls” to “ml”
- Added prompt on title pages to find drug formularies
- Changed Emergencies Contents colours and colours of all pages to follow ABCEO categories
- Updated cover page clickable links for digital version

Individual Page Changes

OLD PAGES	CHANGES
11e	Change title
12e	Added paed's dosing & link to starship MTP
15a	Remove reduced adrenaline dosing
16e	Added Na bicarb paed's dose
17e	Change to IV salbutamol
19e	Formatting changes Change to Mg loading dose infusion
19e	Change to alteplase dosing
1e	Better optimisation matrix Better CICO priming explanation
20e	Added better graded incr in FiO ₂ Removed "consider" inflation breaths Added EtCO ₂ prompt for airway support Removed NSL flush from ETT adrenaline Changed compression speed to 100/min Corrected ETT length at lips
23e	Change to magnesium dosing Change to hydralazine regime Change to labetalol dosing
25d	Simplified algorithm and emphasised bronchoscope exam
26d	pulmonary oedema - added prompt for acute or negative pressure Simplified algorithm incl excluding pneumothorax
35r	Change alteplase dosing Change to labetalol, magnesium dose Added hydralazine dosing
36r	Updated salbutamol dosing bolus & infusion Mg iv dose Aminophylline dosing Ketamine dose Corrected buccal midazolam dose to mg/kg Added "non-emergency" to reduced dose sux in larygospasm Update vasopressin
3e	Change to phrasing around low dose & full dose muscle relaxation with removal of absolute need for intubation
4e	Aligning further with paed's starship guidelines: - salbutamol IV bolus dose - mg IV bolus dose - Aminophylline dosing - Salbutamol infusion - Ketamine dose Reordered green box
6e	Change to simplified bolus alteplase dose

OLD PAGES	CHANGES
7e	Change to simplified bolus alteplase dose
8e	Changed compressions to 120 (although guidelines say 100-120)
Emerg contents	Change Myocardial Ischaemia title

V3.1 Changes

- Corrected emergency tab colours

OLD PAGES	CHANGES
10e	Aligned with new ANZAAG guidelines: Added SBP<50 to prompt CPR. More closely aligned paed doses Added in peripheral nor/adrenaline concentration Removed prompt to minimise volatiles Removed prompt to send ABG, FBC, UE, coags Moved tryptase timings to yellow box
36r	Adrenaline dosing closer to ANZAAG
35r	Peripheral adrenaline dosing to fit with ANZAAG
6e	Changed “therapeutic normothermia” to: avoid >37.5 for 72hrs
7e	Changed “therapeutic normothermia” to: avoid >37.5 for 72hrs
29d	Added anaphylaxis to differential
26d	Added oesophageal intubation to airway differential

V3.2 Changes

- Updated all pages referencing MTP with new NZ MHP protocol

OLD PAGES	CHANGES
12e	Total re-writte to reference MHP
19e	Includes ref to obstetric stat pack etc
22e	Rationalised to align with MHP Updated to new NZ national PPH guideline - oxytocin infusion into 500ml
23e	References to NZ MHP including prompt to stat pack and MHP activation
35r	Oxytocin infusion update

V3.3 Changes

- Given the now v NZ specific MHP protocols - have changed generic name to include NZ
- Updated all pages referencing MTP with new NZ MHP protocol

OLD PAGES	CHANGES
29d	Changed amiodarone dosing instructions and said can give earlier Updated sync shock joules in line with UK resus guidelines Changed approach to complex tachy to start with broad vs narrow Updated adenosine dosing
30d	Added max dose atropine Added glyco as an option Removed isoprenaline bolus option Added dopamine in line with UK guidelines
35r & 36r	Adjusted to accommodate above incl adding dopamine to adult form.
13e	Typo
28d	Added suggestion to send an ABG if not urgent Moved cardiac arrest to low EtCO ₂ trace & included explanation in yellow box = digital capnography should show some CO ₂ for upto 30mins if ETT in the correct place, even without CPR