

Ensuring future resuscitation needs are MET

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BACKGROUND

Timely and effective recognition and treatment of patients whose condition is deteriorating is imperative for positive outcomes. To ensure high quality resuscitation services The Australian Resuscitation Council (ARC) recommends ensuring there is appropriate provision, maintenance and access to resuscitation medications, with an accompanying governance structure¹.

An audit of existing resuscitation trolleys identified that not all Advanced Life Support medications were available in regular trolleys, critical care areas had inconsistencies relating to medication contents within resuscitation trolleys and documentation of regular checking of trolley contents and expiry dates was variable. There were also several kits being utilised, which included stock that could be rationalised into a trolley instead.

OBJECTIVE

To standardise the access to emergency medications across the organisation and implement a robust governance structure, in accordance with ARC recommendations and in consultation with the Standard 4 Medication Safety and Standard 8 Clinical Deterioration Committees. Also, to improve general security of the trolleys in areas where they may be potentially accessible to patients.

METHOD

Phase One of the project entailed:

- Generation of specific medication inventories for general (designated GREEN trolleys) and critical care (designated RED trolleys) areas following agreement between pharmacy, critical care areas and Standard 4/Standard 8 Committees.
- Improving safety and usability via implementation of a colour-coded system for the medication drawers, mirroring the National Standard for Line-Labeling colours. The medication drawer was also standardised to be the top drawer in all trolleys and have look-a-like/sound-a-like medications separated where possible.
- Addition of a pin-lock system in areas where the trolleys were potentially easily accessible to patients, with regular and recorded code changes for the locks.
- Updating of guidelines and standardisation of ward checking procedures
- Implementation of monthly expiry/contents checks of trolleys by Pharmacy, and updating of ward imprests to ensure access to all required medications.
- Removal of unnecessary medication kits
- Staff education

Glucagon HypoKit 1mg IU	Atropine 1200mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 600mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 300mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 150mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 75mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 37.5mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 18.75mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 9.375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.6875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.34375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.171875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.5859375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.29296875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.146484375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.0732421875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.03662109375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.018310546875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.0091552734375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.00457763671875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.002288818359375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.0011444091796875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.00057220458984375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.000286102294921875mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 0.0001430511474609375mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 7.15255763671875e-05mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.576278818359375e-05mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.7881394091796875e-05mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 8.9406970458984375e-06mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.47034852294921875e-06mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.235174261474609375e-06mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.1175871307373046875e-06mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 5.5879356536865234375e-07mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.79396782684326171875e-07mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.396983913421630859375e-07mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 6.984919567108154296875e-08mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.4924597835540771484375e-08mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.74622989177703857421875e-08mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 8.73114945888519287109375e-09mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.365574729442596435546875e-09mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.1827873647212982177734375e-09mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.09139368236064910888671875e-09mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 5.4569684118032455444334375e-10mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.72848420590162277221671875e-10mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.36424210295081138610834375e-10mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 6.821210514754056930541671875e-11mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.410605257377028465270834375e-11mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.70530262868851423263541671875e-11mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 8.5265131434425711631770834375e-12mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.263256571721285581588891671875e-12mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.131628285860642790794445834375e-12mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.06581414293032139539722291671875e-12mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 5.32907071465160697698611145834375e-13mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.6645353573258034884930557291671875e-13mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.3322676786629017442465278645834375e-13mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 6.661338393314508721232633922291671875e-14mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.330669196657254360616316961145834375e-14mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.66533459832862718030815784057291671875e-14mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 8.3266727916431359015407892028645834375e-15mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.163336395821567950770394601432291671875e-15mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.0816681979107839753851973007161145834375e-15mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.0408340989553919876925986503578291671875e-15mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 5.2041704947769599384612992501789145834375e-16mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.6020852473884799692306496250944791671875e-16mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.3010426236942399846153248125472395834375e-16mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 6.505213118471199973076624062523619791671875e-17mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.252606559235599986538312031261809895834375e-17mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.62630327961779999326915601563090494791671875e-17mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 8.1315163980888999663457800781545472395834375e-18mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.065758199044449983172890039077273619791671875e-18mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.0328790995222249915864450195386363695834375e-18mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.01643954976111249579322250976931818291671875e-18mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 5.0821977488055624789661112548465909145834375e-19mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.5410988744027812394833056274232954791671875e-19mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.2705494372013906197416528137116477395834375e-19mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 6.352747186006953098700826468558238895834375e-20mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.1763735930034765493504132342791194791671875e-20mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.5881867965017382746752066171395597395834375e-20mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 7.9409339825086913733376033085779895834375e-21mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.970466991254345686668801654288994791671875e-21mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.985233495627172843334400827144497395834375e-21mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 9.9261674781358642166720041357224895834375e-22mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.9630837390679321083360020678611244791671875e-22mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.481541869533966054166801033930562395834375e-22mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.24077093476698302708340051696528119791671875e-22mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 6.2038546738349151354170025848264059791671875e-23mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.1019273369174575677085012924132029791671875e-23mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.5509636684587287838542506462066014791671875e-23mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 7.7548183422936439192712503231033007395834375e-24mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.8774091711468219596356251615165003695834375e-24mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.93870458557341097981781257825775001895834375e-24mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 9.6935229278670548990890628912887500095834375e-25mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 4.8467614639335274495445314456443750004791671875e-25mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 2.42338073196676372477226572282218750002395834375e-25mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.21169036598338186238613286141109375000119791671875e-25mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 6.05845182991690931193066430705546875000059791671875e-26mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.029225914958454655965332153527734375000029791671875e-26mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 1.5146129574792273279826660767638671875000014791671875e-26mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 7.5730647873961136399133303833819375000007395834375e-27mcg/mL	Propofol 200mg/20mL	Red Syringes	Rocuronium 100mg/2mL
Glucagon HypoKit 1mg IU	Atropine 3.7865323936980568199566			