

# **APLS 6e manual updates**

The following are changes made following publication of the APLS 6e manual. Some of these may be incorporated in reprints, but a full list is included here for completeness.

# 2021 ILCOR updates for APLS and PLS

Click here for the 2021 ILCOR Summary on APLS and PLS

August 2016	Updates after first publish of 6e
January 2017	Resuscitation Council update – NLS algorithm
December 2018	Reprinted with amendments
August 2019	Reprinted with amendments
June 2021	Revised Appendix F: Resuscitation of the Neonate with new NLS algorithm
April 2022	New Status Epilepticus Algorithm
Nov 2022	New 7e Algorithms for Anaphylaxis, Asthma, Aystole/PEA, Bradycardia, Cardiac Arrest,
	Massive Haemorrhage in Trauma, SVT, VF/pVT and VT. Available to download here

Chapter	Dates of changes noted below
Chapter 1 - Introduction	
Chapter 2 - Structured approach to paediatric emergencies	
Chapter 3 - Human factors	
Chapter 4 - The structured approach to the seriously ill child	
<u>Chapter 5 - The child with breathing difficulties</u>	August 2016
<u>Chapter 6 - The child in shock</u>	August 2016
Chapter 7 - The child with an abnormal pulse rate or rhythm	
Chapter 8 - The child with a decreased conscious level	
<u>Chapter 9 - The convulsing child</u>	August 2016, December 2018
Chapter 10 - Introduction to the seriously injured child	
Chapter 11 - Structured approach to the seriously injured child	August 2016
Chapter 12 - The child with chest injury	
Chapter 13 - The child with abdominal injury	
Chapter 14 - The child with traumatic brain injury	August 2016
Chapter 15 - The child with injuries to the extremities or the spine	
Chapter 16 - The burned or scalded child	
Chapter 17 - The child with an electrical injury or drowning	September 2019
Chapter 18 - Basic life support	
<u>Chapter 19 - Support of the airway and ventilation</u>	December 2017, April 2018
<u>Chapter 20 - Management of cardiac arrest</u>	December 2017, April 2019
Chapter 21 - Practical procedures: airway and breathing	
<u>Chapter 22 - Practical procedures: circulation</u>	July 2017, November 2018
Chapter 23 - Practical procedures: trauma	



Chapter 24 - Imaging in trauma	
Chapter 25 - Structured approach to stabilisation and transfer	
Appendix A - Acid-base balance	
Appendix B - Fluid and electrolyte management	
Appendix C - Child abuse and neglect	
Appendix D - When a child dies	
Appendix E - General approach to poisoning and envenomation	
Appendix F - Resuscitation of the baby at birth	June 2021
Appendix G - Formulary	April 2018

[Back to top]

## **Chapter 5**

Page	Change	Date
56	Text should read "The majority of foreign bodies are radio-lucent and	August 2016
	therefore not visible"	

[Back to top]

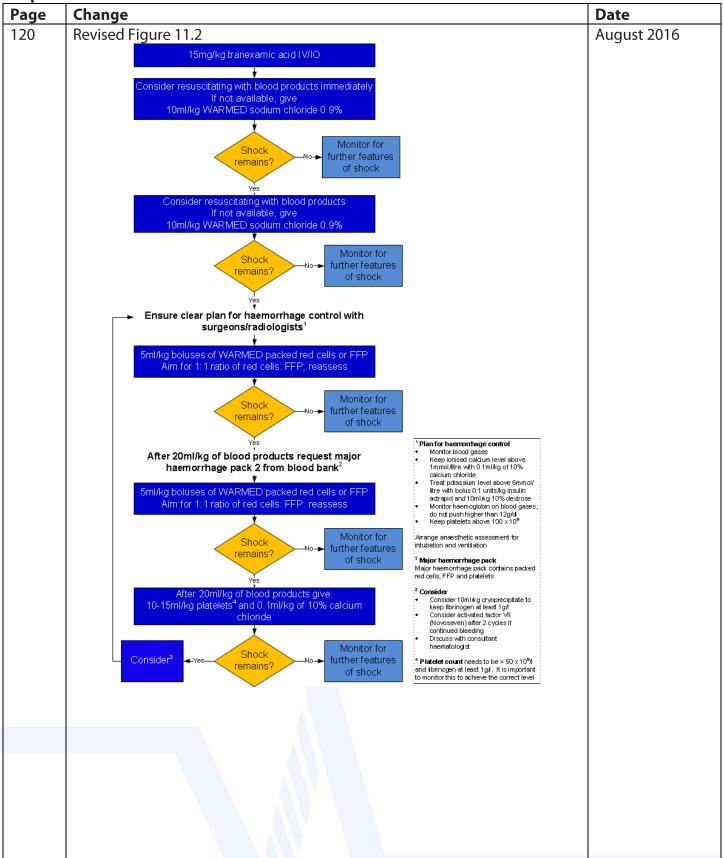
#### **Chapter 6**

Page	Change	Date
73	Instead of 0.3 mg/kg for the Dopamine dose, it should be 30 mg/kg	August 2016
77	Update text dinoprostone or alprostadil	August 2016

[Back to top]

Page	Change	Date
102	Update 'APLS Status Epilepticus' algorithm to add PR after the dose of	August 2016
	Paraldehyde	
102	Max doses added to algorithm	December 2018
102	New Status Epilepticus algorithm	April 2022







## **Chapter 14**

Page	Change	Date
144	Second paragraph regarding neuroprotection should read "Hypertonic saline 3%"	August 2016
	Sainte 5%	

[Back to top]

#### **Chapter 17**

Page	Change	Date
165	Change to statement on prophylactic antibiotics:	September 2019
	Prophylactic antibiotics have not been shown to be helpful but are often given after immersion in severely contaminated water. Fever is common during the first 24 hours but is not necessarily a sign of infection, which usually becomes manifest later. When an infection is suspected broadspectrum intravenous antibiotic therapy (such as cefotaxime) should be started after repeating blood and sputum cultures. Gram-negative organisms, especially <i>Pseudomonas aeruginosa</i> , are common and <i>Aspergillus</i> species have been reported, in which case, a combination antibiotic treatment is advised with reference to local guidelines.	

Chapte	Chapter 19		
Page	Change	Date	
129	The manual refers to the use of an occlusive dressing for a sucking chest wound, this should be a 3-sided dressing	December 2017	
190	Replacement figure 19.2	April 2018	



**Chapter 20** 

Page	Change	Date
205	The manual refers to the use of defibrillator paddles for neonates because the hands-free pads are too big. If there are small enough pads available, then these should be used. If not, then manual paddles would be used.	December 2017
Page	Change	Date
206	Replacement paragraph on Capnography	April 2019
	Capnography	
	'Monitoring of exhaled, end-tidal CO2 (ETCO2) can be helpful in the management of cardiac arrest. The presence of ETCO2 is expected during CPR, although it is likely to be much lower than normal due to poor pulmonary perfusion. An ETCO2 of less than 2kPa (15mmHg) should prompt immediate review of the adequacy of chest compressions. However, the complete absence of ETCO2 is highly indicative of an oesophageal intubation and immediate attention must be given to securing the airway and establishing effective ventilation. A sudden, significant rise in ETCO2 suggests a concomitant increase in cardiac output due to the return of spontaneous circulation (ROSC). Adrenaline may decrease and bicarbonate may increase the measured ETCO2, but these effects are usually minor compared to a major change in cardiac output.'	

Page	Change	Date
226	The EZ-IO® needles for paediatrics are in two sizes: under 40 kg (pink 15mm) and over 40kg (blue 25mm). The larger yellow needle (45mm) is for adult use especially when there is extra tissue to penetrate.	July 2017
227	Sentence underneath the procedure for insertion "It should be noted that" replaced with the following text "In extremis this should not be required, however manufacturers suggest that aspiration and infusion of fluid may be painful for the conscious patient and if this proves to be the case 0.5 mg/kg of 2% lidocaine (not to exceed 40mg) may be infused slowly to combat this. It is important to note that the paediatric doses required are very small in volume and as such require specific consideration of the administration technique and referring to trust	November 2018
	policies where available and/ or the manufacturer's guidance. If a decision is	
	taken to do this then cardiac monitoring is recommended."	
	An example can be found here http://www.eziocomfort.com/ezio-comfort.html#dosing-&-administration [last accessed 06/11/2018]	



# Appendix F

Page	Change	Date
332	Figure F.8	January 2017
332	Updated Resuscitation of the neonate at birth chapter and new accompanying algorithm  Algorithm	June 2021

## **Appendix G Formulary**

Page	Change	Date
343	Lorazepam max dose should be 4 mg	April 2018

[Back to top]