

ICM7077 - Emergency Care

This module is designed to give students the opportunity to review a wide range of acute medical pathophysiology-disease processes that underpin acute illness, and the skills to manage them.

View Online



[1]

Acute Coronary Syndromes (ACS) in patients presenting without persistent ST-segm:
<https://www.escardio.org/Guidelines/Clinical-Practice-Guidelines/Acute-Coronary-Syndrome-s-ACS-in-patients-presenting-without-persistent-ST-segm>.

[2]

Adroque, H.J. and Madias, N.E. 2012. The Challenge of Hyponatremia. *Journal of the American Society of Nephrology*. 23, 7 (Jul. 2012), 1140–1148.
DOI:<https://doi.org/10.1681/ASN.2012020128>.

[3]

Ahmad, F.U. et al. 2016. A Randomized Clinical Trial of Hypothermia as a Preferred Second-Line Treatment for Elevated Intracranial Pressure After Traumatic Brain Injury. *Neurosurgery*. 78, 2 (Feb. 2016), N10–N11.
DOI:<https://doi.org/10.1227/NEU.0000000000001171>.

[4]

Andrews, P.J.D. et al. 2015. Hypothermia for Intracranial Hypertension after Traumatic Brain Injury. *New England Journal of Medicine*. 373, 25 (Dec. 2015), 2403–2412.
DOI:<https://doi.org/10.1056/NEJMoa1507581>.

[5]

Andrews, P.J.D. et al. 2015. Hypothermia for Intracranial Hypertension after Traumatic Brain Injury. *New England Journal of Medicine*. 373, 25 (Dec. 2015), 2403–2412.
DOI:<https://doi.org/10.1056/NEJMoa1507581>.

[6]

Ayling, O.G.S. et al. 2014. Continuous Regional Anaesthesia Provides Effective Pain Management and Reduces Opioid Requirement Following Major Lower Limb Amputation. *European Journal of Vascular and Endovascular Surgery*. 48, 5 (Nov. 2014), 559-564. DOI:<https://doi.org/10.1016/j.ejvs.2014.07.002>.

[7]

Beard, D.J. and Wood, P. 2015. Pain in complex trauma: lessons from Afghanistan. *BJA Education*. 15, 4 (Aug. 2015), 207-212. DOI:<https://doi.org/10.1093/bjaceaccp/mku035>.

[8]

Bernal, W. et al. 2015. Acute liver failure: A curable disease by 2024? *Journal of Hepatology*. 62, 1 (Apr. 2015), S112-S120. DOI:<https://doi.org/10.1016/j.jhep.2014.12.016>.

[9]

Bernal, W. and Wendon, J. 2013. Acute Liver Failure. *New England Journal of Medicine*. 369, 26 (Dec. 2013), 2525-2534. DOI:<https://doi.org/10.1056/NEJMra1208937>.

[10]

Blaivas, M. et al. 2011. A Prospective Comparison of Procedural Sedation and Ultrasound-guided Interscalene Nerve Block for Shoulder Reduction in the Emergency Department. *Academic Emergency Medicine*. 18, 9 (Sep. 2011), 922-927. DOI:<https://doi.org/10.1111/j.1553-2712.2011.01140.x>.

[11]

Brown, S.A. et al. 2018. Current and prospective therapies for acute liver failure. *Disease-a-Month*. 64, 12 (Dec. 2018), 493-522. DOI:<https://doi.org/10.1016/j.disamonth.2018.04.002>.

[12]

BTS/SIGN British guideline on the management of asthma | British Thoracic Society | Better

lung health for all:

<https://www.brit-thoracic.org.uk/standards-of-care/guidelines/btssign-british-guideline-on-the-management-of-asthma/>.

[13]

Carney, N. et al. 2016. Guidelines for the Management of Severe Traumatic Brain Injury, Fourth Edition. Neurosurgery. (Sep. 2016).
DOI:<https://doi.org/10.1227/NEU.0000000000001432>.

[14]

Carrie, C. et al. 2018. Bundle of care for blunt chest trauma patients improves analgesia but increases rates of intensive care unit admission: A retrospective case-control study. *Anaesthesia Critical Care & Pain Medicine*. 37, 3 (Jun. 2018), 211–215.
DOI:<https://doi.org/10.1016/j.accpm.2017.05.008>.

[15]

Chauny, J.-M. et al. 2016. Risk of Delayed Intracranial Hemorrhage in Anticoagulated Patients with Mild Traumatic Brain Injury: Systematic Review and Meta-Analysis. *The Journal of Emergency Medicine*. 51, 5 (Nov. 2016), 519–528.
DOI:<https://doi.org/10.1016/j.jemermed.2016.05.045>.

[16]

Chris Lipp Analgesia in the emergency department: a GRADE-based evaluation of research evidence and recommendations for practice. *Critical Care*. 17, 2.
DOI:<https://doi.org/10.1186/cc12521>.

[17]

Costantino, G. et al. 2016. Syncope clinical management in the emergency department: a consensus from the first international workshop on syncope risk stratification in the emergency department. *European Heart Journal*. 37, 19 (May 2016), 1493–1498.
DOI:<https://doi.org/10.1093/eurheartj/ehv378>.

[18]

Cremers, A.J.H. et al. 2014. Effect of antibiotic streamlining on patient outcome in

pneumococcal bacteraemia. *Journal of Antimicrobial Chemotherapy*. 69, 8 (Aug. 2014), 2258–2264. DOI:<https://doi.org/10.1093/jac/dku109>.

[19]

Crompton, E.M. et al. 2017. Meta-Analysis of Therapeutic Hypothermia for Traumatic Brain Injury in Adult and Pediatric Patients*. *Critical Care Medicine*. 45, 4 (Apr. 2017), 575–583. DOI:<https://doi.org/10.1097/CCM.0000000000002205>.

[20]

D'Ascenzo, F. et al. 2013. Incidence, etiology and predictors of adverse outcomes in 43,315 patients presenting to the Emergency Department with syncope: An international meta-analysis. *International Journal of Cardiology*. 167, 1 (Jul. 2013), 57–62. DOI:<https://doi.org/10.1016/j.ijcard.2011.11.083>.

[21]

Diabetic Ketoacidosis and Hyperglycaemic Hyperosmolar State - Acute and chronic complications of diabetes - Diapedia, The Living Textbook of Diabetes: <https://www.diapedia.org/acute-and-chronic-complications-of-diabetes/71040851425/diabetic-ketoacidosis-and-hyperglycaemic-hyperosmolar-state>.

[22]

Ducros, A. and Boussier, M.-G. 2013. Thunderclap headache. *BMJ*. 346, jan08 15 (Jan. 2013), e8557–e8557. DOI:<https://doi.org/10.1136/bmj.e8557>.

[23]

Edlow, J.A. and Caplan, L.R. 2000. Avoiding Pitfalls in the Diagnosis of Subarachnoid Hemorrhage. *New England Journal of Medicine*. 342, 1 (Jan. 2000), 29–36. DOI:<https://doi.org/10.1056/NEJM200001063420106>.

[24]

Fernandes, P.M. et al. 2013. Strokes: mimics and chameleons. *Practical Neurology*. 13, 1 (Feb. 2013), 21–28. DOI:<https://doi.org/10.1136/practneurol-2012-000465>.

[25]

Fever Control Management Is Preferable to Mild Therapeutic Hypothermia in Traumatic Brain Injury Patients with Abbreviated Injury Scale 3–4: A Multi-Center, Randomized Controlled Trial | Journal of Neurotrauma:
<https://www.liebertpub.com/doi/abs/10.1089/neu.2015.4033>.

[26]

Fever in the returning traveller - Initial assessment and triage:
https://www.bmj.com/content/bmj/suppl/2018/01/25/bmj.j5773.DC1/fever_diff_v38_web.pdf.

[27]

Fink, D. et al. 2018. Fever in the returning traveller. BMJ. (Jan. 2018).
DOI:<https://doi.org/10.1136/bmj.j5773>.

[28]

Fleming, I. and Egeler, C. 2014. Regional anaesthesia for trauma: an update. Continuing Education in Anaesthesia Critical Care & Pain. 14, 3 (Jun. 2014), 136–141.
DOI:<https://doi.org/10.1093/bjaceaccp/mkt048>.

[29]

Franko, J. et al. 2006. Advanced Age and Preinjury Warfarin Anticoagulation Increase the Risk of Mortality After Head Trauma. The Journal of Trauma: Injury, Infection, and Critical Care. 61, 1 (Jul. 2006), 107–110. DOI:<https://doi.org/10.1097/01.ta.0000224220.89528.fc>.

[30]

Fu, P. et al. 2017. Case Report of Serratus Plane Catheter for Pain Management in a Patient With Multiple Rib Fractures and an Inferior Scapular Fracture. A & A Case Reports. 8, 6 (Mar. 2017), 132–135. DOI:<https://doi.org/10.1213/XAA.0000000000000431>.

[31]

Galvagno, S.M. et al. 2016. Pain management for blunt thoracic trauma. Journal of Trauma

and Acute Care Surgery. 81, 5 (Nov. 2016), 936–951.
DOI:<https://doi.org/10.1097/TA.0000000000001209>.

[32]

Goldstein, L.E. and McKee, A.C. 2017. Shining (Laser) Light on Traumatic Brain Injury Blood Biomarkers. *JAMA Neurology*. 74, 9 (Sep. 2017).
DOI:<https://doi.org/10.1001/jamaneurol.2017.0800>.

[33]

Hankey, G.J. 2002. *Stroke: your questions answered*. Churchill Livingstone.

[34]

Hasan, T.F. et al. 2018. Diagnosis and Management of Acute Ischemic Stroke. *Mayo Clinic Proceedings*. 93, 4 (Apr. 2018), 523–538.
DOI:<https://doi.org/10.1016/j.mayocp.2018.02.013>.

[35]

Hawker, J.I. et al. 2014. Trends in antibiotic prescribing in primary care for clinical syndromes subject to national recommendations to reduce antibiotic resistance, UK 1995-2011: analysis of a large database of primary care consultations. *Journal of Antimicrobial Chemotherapy*. 69, 12 (Dec. 2014), 3423–3430.
DOI:<https://doi.org/10.1093/jac/dku291>.

[36]

HEART Score: <http://www.heartscore.nl/>.

[37]

HEART Score for Major Cardiac Events - MDCalc:
<https://www.mdcalc.com/heart-score-major-cardiac-events#next-steps>.

[38]

Howard, J.L. et al. 2009. Preinjury Warfarin Worsens Outcome in Elderly Patients Who Fall From Standing. *The Journal of Trauma: Injury, Infection, and Critical Care*. 66, 6 (Jun. 2009), 1518–1524. DOI:<https://doi.org/10.1097/TA.0b013e3181a59728>.

[39]

IAP publish information sharing statement « Independent Advisory Panel on Deaths in Custody: <https://www.iapondeathsincustody.org/s/IAP-Information-Sharing-Statement.pdf>.

[40]

Johnston, V. et al. 2009. Fever in returned travellers presenting in the United Kingdom: Recommendations for investigation and initial management. *Journal of Infection*. 59, 1 (Jul. 2009), 1–18. DOI:<https://doi.org/10.1016/j.jinf.2009.05.005>.

[41]

Larsen, F.S. et al. 2016. High-volume plasma exchange in patients with acute liver failure: An open randomised controlled trial. *Journal of Hepatology*. 64, 1 (Jan. 2016), 69–78. DOI:<https://doi.org/10.1016/j.jhep.2015.08.018>.

[42]

Lecky, F.E. et al. 2015. The effect of preinjury warfarin use on mortality rates in trauma patients: a European multicentre study. *Emergency Medicine Journal*. 32, 12 (Dec. 2015), 916–920. DOI:<https://doi.org/10.1136/emered-2014-203959>.

[43]

Maas, A.I.R. et al. 2017. Traumatic brain injury: integrated approaches to improve prevention, clinical care, and research. *The Lancet Neurology*. 16, 12 (Dec. 2017), 987–1048. DOI:[https://doi.org/10.1016/S1474-4422\(17\)30371-X](https://doi.org/10.1016/S1474-4422(17)30371-X).

[44]

Maisel, A.S. et al. 2002. Rapid Measurement of B-Type Natriuretic Peptide in the Emergency Diagnosis of Heart Failure. *New England Journal of Medicine*. 347, 3 (Jul. 2002), 161–167. DOI:<https://doi.org/10.1056/NEJMoa020233>.

[45]

Mason, S. et al. 2017. AHEAD Study: an observational study of the management of anticoagulated patients who suffer head injury. *BMJ Open*. 7, 1 (Jan. 2017). DOI:<https://doi.org/10.1136/bmjopen-2016-014324>.

[46]

Mason, S. et al. 2014. THE AHEAD STUDY: MANAGING ANTICOAGULATED PATIENTS WHO SUFFER HEAD INJURY. *Emergency Medicine Journal*. 31, 9 (Sep. 2014), 775.1-775. DOI:<https://doi.org/10.1136/emmermed-2014-204221.1>.

[47]

Mason, S. et al. 2014. THE AHEAD STUDY: MANAGING ANTICOAGULATED PATIENTS WHO SUFFER HEAD INJURY. *Emergency Medicine Journal*. 31, 9 (Sep. 2014), 775.1-775. DOI:<https://doi.org/10.1136/emmermed-2014-204221.1>.

[48]

Montague, B.T. et al. 2008. Retrospective Review of the Frequency of ECG Changes in Hyperkalemia. *Clinical Journal of the American Society of Nephrology*. 3, 2 (Feb. 2008), 324-330. DOI:<https://doi.org/10.2215/CJN.04611007>.

[49]

Moss, A.J. et al. 2017. The Updated NICE Guidelines: Cardiac CT as the First-Line Test for Coronary Artery Disease. *Current Cardiovascular Imaging Reports*. 10, 5 (May 2017). DOI:<https://doi.org/10.1007/s12410-017-9412-6>.

[50]

Moya, A. et al. 2009. Guidelines for the diagnosis and management of syncope (version 2009): The Task Force for the Diagnosis and Management of Syncope of the European Society of Cardiology (ESC). *European Heart Journal*. 30, 21 (Nov. 2009), 2631-2671. DOI:<https://doi.org/10.1093/eurheartj/ehp298>.

[51]

Muir, K.W. et al. 2017. Endovascular therapy for acute ischaemic stroke: the Pragmatic Ischaemic Stroke Thrombectomy Evaluation (PISTE) randomised, controlled trial. *Journal of Neurology, Neurosurgery & Psychiatry*. 88, 1 (Jan. 2017), 38–44.
DOI:<https://doi.org/10.1136/jnnp-2016-314117>.

[52]

NaTHNaC | Launchpad to services: <https://nathnac.net/>.

[53]

National Review of Asthma Deaths | RCP London:
<https://www.rcplondon.ac.uk/projects/national-review-asthma-deaths>.

[54]

NCEPOD - Non-Invasive Ventilation: Inspiring Change (2017):
<http://www.ncepod.org.uk/2017niv.html>.

[55]

Oram, R.A. et al. 2013. Investigating hypokalaemia. *BMJ*. 347, sep24 1 (Sep. 2013), f5137–f5137. DOI:<https://doi.org/10.1136/bmj.f5137>.

[56]

Pieracci, F.M. et al. 2007. Degree of Anticoagulation, but Not Warfarin Use Itself, Predicts Adverse Outcomes After Traumatic Brain Injury in Elderly Trauma Patients. *The Journal of Trauma: Injury, Infection, and Critical Care*. 63, 3 (Sep. 2007), 525–530.
DOI:<https://doi.org/10.1097/TA.0b013e31812e5216>.

[57]

Pocket Guide to COPD Diagnosis, Management, and Prevention - 2017 - Global Initiative for Chronic Obstructive Lung Disease - GOLD:
<http://goldcopd.org/pocket-guide-copd-diagnosis-management-prevention-2016/>.

[58]

Ponikowski, P. et al. 2016. 2016 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. *European Heart Journal*. 37, 27 (Jul. 2016), 2129–2200. DOI:<https://doi.org/10.1093/eurheartj/ehw128>.

[59]

Post Cardiac Arrest Care:

<https://lifeinthefastlane.com/ccr/post-cardiac-arrest-resuscitation-care/>.

[60]

ProMED-mail: <https://www.promedmail.org/>.

[61]

Published Guidelines | British Infection Association (BIA):

<https://www.britishinfection.org/guidelines-resources/published-guidelines/>.

[62]

Resuscitation to recovery: <https://www.resus.org.uk/publications/resuscitation-to-recovery/>

[63]

Richman, J.M. et al. 2006. Does Continuous Peripheral Nerve Block Provide Superior Pain Control to Opioids? A Meta-Analysis. *Anesthesia & Analgesia*. 102, 1 (Jan. 2006), 248–257. DOI:<https://doi.org/10.1213/01.ANE.0000181289.09675.7D>.

[64]

Roffi, M. et al. 2016. 2015 ESC Guidelines for the management of acute coronary syndromes in patients presenting without persistent ST-segment elevation. *European Heart Journal*. 37, 3 (Jan. 2016), 267–315. DOI:<https://doi.org/10.1093/eurheartj/ehv320>.

[65]

Scottish Intercollegiate Guidelines Network: 148. Acute coronary syndrome. A National Clinical Guideline: <https://www.sign.ac.uk/assets/sign148.pdf>.

[66]

Slack, A.J. et al. 2014. Ammonia clearance with haemofiltration in adults with liver disease. *Liver International*. 34, 1 (Jan. 2014), 42–48. DOI:<https://doi.org/10.1111/liv.12221>.

[67]

SSNAP - Home: <https://www.strokeaudit.org/>.

[68]

Sun, B.C. et al. 2014. Priorities for Emergency Department Syncope Research. *Annals of Emergency Medicine*. 64, 6 (Dec. 2014), 649-655.e2. DOI:<https://doi.org/10.1016/j.annemergmed.2014.04.014>.

[69]

Teasdale, G. et al. 2014. The Glasgow Coma Scale at 40 years: standing the test of time. *The Lancet Neurology*. 13, 8 (Aug. 2014), 844–854. DOI:[https://doi.org/10.1016/S1474-4422\(14\)70120-6](https://doi.org/10.1016/S1474-4422(14)70120-6).

[70]

The patient with collapse: in association with the *Emergency Medicine Journal*: <http://learning.bmj.com/learning/search-result.html?moduleId=5004329>.

[71]

Trovato, F.M. et al. 2019. Update on the management of acute liver failure. *Current Opinion in Critical Care*. 25, 2 (Apr. 2019), 157–164. DOI:<https://doi.org/10.1097/MCC.0000000000000583>.

[72]

Viral haemorrhagic fever: ACDP algorithm and guidance on management of patients -

GOV.UK:

<https://www.gov.uk/government/publications/viral-haemorrhagic-fever-algorithm-and-guidance-on-management-of-patients>.

[73]

Wakil, A. et al. 2011. Investigating hyponatraemia. *BMJ*. 342, mar07 2 (Mar. 2011), d1118–d1118. DOI:<https://doi.org/10.1136/bmj.d1118>.

[74]

Wendon, J. et al. 2017. EASL Clinical Practical Guidelines on the management of acute (fulminant) liver failure. *Journal of Hepatology*. 66, 5 (May 2017), 1047–1081. DOI:<https://doi.org/10.1016/j.jhep.2016.12.003>.

[75]

Williams, M.C. et al. 2018. Assessment of patients with stable chest pain. *Heart*. 104, 8 (Apr. 2018), 691–699. DOI:<https://doi.org/10.1136/heartjnl-2017-311212>.

[76]

A universal FGM flowchart and reporting tool.

[77]

Chapter 11. Use of hyperosmolar therapy in the management of severe pediatric traumatic brain injury. *Pediatric Critical Care Medicine*. 4, 3.

[78]

Consent in Adults, Adolescents and Children in Emergency Departments.

[79]

Diabetic foot problems: prevention and management | Guidance and guidelines | NICE.

[80]

ED Patients in Police Custody.

[81]

Efficacy of Postoperative Patient-controlled and Continuous Infusion Epidural Analgesia versus Intravenous Patient-controlled Analgesia with Opioids: A Meta-analysis. *Anesthesiology*. 103, 5, 1079–1088.

[82]

Guidelines for the Management of Excited Delirium / Acute Behavioural Disturbance (ABD).

[83]

Information sharing to reduce Community Violence.

[84]

Management of Domestic Abuse.

[85]

Management of hyperkalaemia.

[86]

Memorandum of Understanding – The Police Use of Restraint in Mental Health & Learning Disability Settings.

[87]

2007. Saline or Albumin for Fluid Resuscitation in Patients with Traumatic Brain Injury. *New England Journal of Medicine*. 357, 9 (Aug. 2007), 874–884.

DOI:<https://doi.org/10.1056/NEJMoa067514>.

[88]

Sensitivity of computed tomography performed within six hours of onset of headache for diagnosis of subarachnoid haemorrhage: prospective cohort study.

[89]

The Management of Diabetic Ketoacidosis in Adults.

[90]

The management of the hyperosmolar hyperglycaemic state (HHS) in adults with diabetes.

[91]

The Mental Capacity Act in Emergency Medicine Practice.

[92]

The Patient Who Absconds.

[93]

WHO | Antimicrobial resistance.