

EDITORIALS

Turning ‘waiting lists’ for elective surgery into ‘preparation lists’	1
<i>N. Levy, D. A. Selwyn and D. N. Lobo</i>	
Bleeding, anaemia, and transfusion: an ounce of prevention is worth a pound of cure	5
<i>S. M. Frank and M. M. Cushing</i>	
Intravenous iron administered to anaemic patients before surgery and hospital readmission in the PREVENTT study: one answer, a potentially important health benefit, and new questions	9
<i>P. Meybohm, D. M. Baron and P. Kranke</i>	
Tranexamic acid and trauma coagulopathy: where are we now?	12
<i>C. Hanley, J. Callum and A. Jerath</i>	
Intramuscular tranexamic acid: a real-world application of pharmacokinetics	17
<i>A. Cortegiani, A. R. Absalom and B. J. Hunt</i>	
Comparative videolaryngoscope performance in children: data from the Pediatric Difficult Intubation Registry	20
<i>A. Norris and J. Armstrong</i>	
Ultrasound identification of the cricothyroid membrane: the new standard in preparing for front-of-neck airway access	22
<i>M. S. Kristensen and W. H. Teoh</i>	
Occam’s razor at the sharp end: simplified preoperative risk assessment	27
<i>S. J. Davies and G. Minto</i>	
Resisting neural inertia: an exercise in floccinaucinihilipilification?	31
<i>D. J. Eleveld, P. J. Colin, A. R. Absalom and M. M. R. F. Struys</i>	
Anaesthetic-induced developmental neurotoxicity on (neuro)steroids	34
<i>A. S. Evers</i>	
Predictive coding as a model of sensory disconnection: relevance to anaesthetic mechanisms	37
<i>R. D. Sanders, C. Casey and Y. B. Saalmann</i>	
Argon: a noble, but not inert, treatment for brain trauma?	41
<i>C. J. Edge and R. Dickinson</i>	

COVID-19 AND THE ANAESTHETIST: A SPECIAL SERIES

The ‘third wave’: impending cognitive and functional decline in COVID-19 survivors	44
<i>H. A. Baker, S. A. Safavynia and L. A. Evered</i>	
Prone positioning for patients intubated for severe acute respiratory distress syndrome (ARDS) secondary to COVID-19: a retrospective observational cohort study	48
<i>T. T. Weiss, F. Cerdá, J. B. Scott, R. Kaur, S. Sungurlu, S. H. Mirza, A. A. Alolaiwat, R. Kaur, A. E. Augustynovich and J. Li</i>	

CARDIOVASCULAR

Systematic review and consensus definitions for the Standardized Endpoints in Perioperative Medicine (StEP) initiative: cardiovascular outcomes	56
<i>W. S. Beattie, M. Lalu, M. Bocock, S. Feng, D. N. Wijeysundera, P. Nagele, L. A. Fleisher, A. Kurz, B. Biccard, K. Leslie, S. Howell, G. Landoni, H. Grocott, A. Lamy, T. Richards, P. Myles and on behalf of the StEP COMPAC Group</i>	
Cardiac output estimation using pulse wave analysis—physiology, algorithms, and technologies: a narrative review	67
<i>B. Saugel, K. Kouz, T. W. L. Scheeren, G. Greiwe, P. Hoppe, S. Romagnoli and D. de Backer</i>	
A restrictive versus liberal transfusion strategy to prevent myocardial injury in patients undergoing surgery for fractured neck of femur: a feasibility randomised trial (RESULT-NOF)	77
<i>M. A. Gillies, S. Ghaffar, I. K. Moppett, A. B. Docherty, S. Clarke, N. Rea, J. Stephen, C. Keerie, D. C. Ray, T. O. White, A. M. J. MacLullich, N. M. Mills, M. R. Rowley, K. Murthy, R. M. Pearse, S. J. Stanworth and T. S. Walsh</i>	

 Association between postoperative haemoglobin concentrations and composite of non-fatal myocardial infarction and all-cause mortality in noncardiac surgical patients: post hoc analysis of the POISE-2 trial	87
A. Turan, E. Rivas, P.J. Devereaux, M. Bravo, G. Mao, B. Cohen, K. Maheshwari, X. Pu, K. Ruetzler, K. Li and D. I. Sessler	
 Association between postoperative haemoglobin and myocardial injury after noncardiac surgery: a retrospective cohort analysis	94
A. Turan, B. Cohen, E. Rivas, L. Liu, X. Pu, K. Maheshwari, E. Farag, O. Onal, J. Wang, K. Ruetzler, P.J. Devereaux and D. I. Sessler	
Association between self-reported functional capacity and major adverse cardiac events in patients at elevated risk undergoing noncardiac surgery: a prospective diagnostic cohort study	102
G. A. L. Lurati Buse, C. Puelacher, D. Menosi Gualandro, A. S. Genini, R. Hidvegi, D. Bolliger, K. Arslani, L. A. Steiner, C. Kindler, C. Mueller and for the BASEL-PMI Investigators	
New algorithm to quantify cardiopulmonary interaction in patients with atrial fibrillation: a proof-of-concept study	111
P. A. H. Wyffels, S. De Hert and P. F. Wouters	

CLINICAL PRACTICE

Consensus guidelines on perioperative management of malignant hyperthermia suspected or susceptible patients from the European Malignant Hyperthermia Group	
H. Rüffert, B. Bastian, D. Bendixen, T. Girard, S. Heiderich, A. Hellblom, P. M. Hopkins, S. Johannsen, M. M. Snoeck, A. Urwyler, K. P. E. Glahn and on behalf of the European Malignant Hyperthermia Group	120
Pharmacological interventions for the prevention of renal injury in surgical patients: a systematic literature review and meta-analysis	131
S. Pathak, G. Olivieri, W. Mohamed, R. Abbasciano, M. Roman, S. Tomassini, F. Lai, M. Wozniak and G. J. Murphy	
Patient-maintained propofol sedation for adult patients undergoing surgical or medical procedures: a scoping review of current evidence and technology	139
D. W. Hewson, J. G. Hardman and N. M. Bedforth	
Patient blood management interventions do not lead to important clinical benefits or cost-effectiveness for major surgery: a network meta-analysis	149
M. A. Roman, R. G. Abbasciano, S. Pathak, S. Oo, S. Yusoff, M. Wozniak, S. Qureshi, F. Y. Lai, T. Kumar, T. Richards, G. Yao, L. Estcourt and G. J. Murphy	
The PREVENNT randomised, double-blind, controlled trial of preoperative intravenous iron to treat anaemia before major abdominal surgery: an independent discussion	157
T. E. F. Abbott and M. A. Gillies	

 Bleeding Independently associated with Mortality after noncardiac Surgery (BIMS): an international prospective cohort study establishing diagnostic criteria and prognostic importance	163
P. S. Roshanov, J. W. Eikelboom, D. I. Sessler, C. Kearon, G. H. Guyatt, M. Crowther, V. Tandon, F. K. Borges, A. Lamy, R. Whitlock, B. M. Biccard, W. Szczeklik, M. Panju, J. Spence, A. X. Garg, M. McGillion, T. VanHelder, P. A. Kavak, J. de Beer, M. Winemaker, Y. Le Manach, T. Sheth, J. H. Pinthus, D. Siegal, L. Thabane, M. R. I. Simunovic, R. Mizera, S. Ribas and P. J. Devereaux	

 Preoperative prediction of Bleeding Independently associated with Mortality after noncardiac Surgery (BIMS): an international prospective cohort study	172
P. S. Roshanov, G. H. Guyatt, V. Tandon, F. K. Borges, A. Lamy, R. Whitlock, B. M. Biccard, W. Szczeklik, M. Panju, J. Spence, A. X. Garg, M. McGillion, J. W. Eikelboom, D. I. Sessler, C. Kearon, M. Crowther, T. VanHelder, P. A. Kavak, J. de Beer, M. Winemaker, Y. Le Manach, T. Sheth, J. H. Pinthus, D. Siegal, L. Thabane, M. R. I. Simunovic, R. Mizera, S. Ribas and P. J. Devereaux	

 A simplified (modified) Duke Activity Status Index (M-DASI) to characterise functional capacity: a secondary analysis of the Measurement of Exercise Tolerance before Surgery (METS) study	181
B. Riedel, M. H.-G. Li, C. H. A. Lee, H. Ismail, B. H. Cuthbertson, D. N. Wijeyesundara, K. M. Ho and for the METS Study Investigators	
Outcomes after endoscopic retrograde cholangiopancreatography with general anaesthesia versus sedation	191
F. C. Althoff, A. Agnihotri, S. D. Grabitz, P. Santer, S. Nabel, T. Tran, T. M. Berzin, E. Sundar, X. Xu, M. S. Sawhney and M. Eikermann	

CRITICAL CARE

 Pharmacokinetics of intramuscular tranexamic acid in bleeding trauma patients: a clinical trial	
S. Grassin-Delyle, H. Shakur-Still, R. Picetti, L. Frimley, H. Jarman, R. Davenport, W. McGuinness, P. Moss, J. Pott, N. Tai, E. Lamy, S. Urien, D. Prowse, A. Thayne, C. Gilliam, H. Pynn and I. Roberts	201
Automated closed-loop versus manually controlled norepinephrine infusion in patients undergoing intermediate- to high-risk abdominal surgery: a randomised controlled trial	210
A. Joosten, D. Chirnoaga, P. Van der Linden, L. Barvais, B. Alexander, J. Duranteau, J.-L. Vincent, M. Cannesson and J. Rinehart	

NEUROSCIENCE AND NEUROANAESTHESIA

Comparison of anaesthetic- and seizure-induced states of unconsciousness: a narrative review	
B. F. Gruenbaum	219
Abnormal preoperative cognitive screening in aged surgical patients: a retrospective cohort analysis	
S. H. Gregory, C. R. King, A. Ben Abdallah, A. Kronzer and T. S. Wildes	230
Effects of sevoflurane anaesthesia on radioligand binding to monoamine oxidase-B <i>in vivo</i>	
K. Varnäs, S. J. Finnema, P. Johnström, R. Arakawa, C. Halldin, L. I. Eriksson and L. Farde	238
The T-type calcium channel isoform $\text{Ca}_v3.1$ is a target for the hypnotic effect of the anaesthetic neurosteroid $(3\beta,5\beta,17\beta)$-3-hydroxyandrostan-17-carbonitrile	
T. Timic Stamenic, S. Feseha, F. M. Manzella, D. Wallace, D. Wilkey, T. Corrigan, H. Fiedler, P. Doerr, K. Krishnan, Y. H. Raol, D. F. Covey, V. Jevtovic-Todorovic and S. M. Todorovic	245
Efficacy of acute administration of inhaled argon on traumatic brain injury in mice	
F. Moro, F. Fossi, A. Magliocca, R. Pascente, E. Sammali, F. Baldini, D. Tolomeo, E. Micotti, G. Citerio, N. Stocchetti, F. Fumagalli, S. Magnoni, R. Latini, G. Ristagno and E. R. Zanier	256
Explaining anaesthetic hysteresis with effect-site equilibration	
A. Proekt and M. B. Kelz	265
Selective optogenetic activation of orexinergic terminals in the basal forebrain and locus coeruleus promotes emergence from isoflurane anaesthesia in rats	
D. Wang, Y. Guo, H. Li, J. Li, M. Ran, J. Guo, L. Yin, S. Zhao, Q. Yang and H. Dong	279

PAEDIATRIC ANAESTHESIA

Frontal electroencephalogram activity during emergence from general anaesthesia in children with and without emergence delirium
J. Kim, H.-C. Lee, S.-H. Byun, H. Lim, M. Lee, Y. Choung and E. Kim

293

PAIN

Perioperative Pain and Addiction Interdisciplinary Network (PAIN): consensus recommendations for perioperative management of cannabis and cannabinoid-based medicine users by a modified Delphi process
--

K. S. Ladha, A. McLaren-Blades, A. Goel, M. J. Buys, P. Farquhar-Smith, S. Haroutounian, Y. Kotteeswaran, K. Kwofie, B. Le Foll, N. J. Lightfoot, J. Loiselle, H. Mace, J. Nicholls, A. Regev, L. A. Rosseland, H. Shanthanna, A. Sinha, A. Sutherland, R. Tanguay, S. Yafai, M. Glenny, P. Choi, S. S. J. Ladak, T. S. Leroux, I. Kawpeng, B. Samman, R. Singh and H. Clarke

304

RESPIRATION AND THE AIRWAY

Association of weaning failure from mechanical ventilation with transthoracic echocardiography parameters: a systematic review and meta-analysis

F. Sanfilippo, D. Di Falco, A. Noto, C. Santonocito, A. Morelli, E. Bignami, S. Scalletta, A. Vieillard-Baron and M. Astuto

319

A comparison of videolaryngoscopy using standard blades or non-standard blades in children in the Paediatric Difficult Intubation Registry

J. Peyton, R. Park, S. J. Staffa, S. Sabato, T. W. Templeton, M. L. Stein, A. G. Garcia-Marcinkiewicz, E. Kiss, J. E. Fiadjoe, B. von Ungern-Sternberg, F. Chiao, P. Olomu, D. Zurakowski, P. G. Kovatsis and On behalf of the PeDI Collaborative Investigators

331

CORRESPONDENCE

Network meta-analysis of isolated patient blood management interventions leads to uncertain interpretation. Comment on Br J Anaesth 2021; 126: 149–56
--

D. Faraoni, I. Gross and A. Shander

e1

Interpretation of network meta-analysis of isolated patient blood management interventions.
--

Response to Br J Anaesth 2021; 126: e1–2

M. A. Roman, R. G. Abbasciano, F. Y. Lai and G. J. Murphy

e2

Patient blood management interventions lead to important benefits for major surgery. Comment on Br J Anaesth 2021; 126: 149–56

M. Javidroozi, J.-F. Hardy and S. Ozawa

e4

Is patient blood management cost-effective? Response to Br J Anaesth 2021; 126: e7–9

M. A. Roman, R. G. Abbasciano, G. Yao and G. J. Murphy

e6

Is patient blood management cost-effective? Comment on Br J Anaesth 2021; 126: 149–56
--

K. M. Trentino, D. R. Spahn, H. S. Mace, H. Gombotz and A. Hofmann

e7

 Comparison between ultrasound-guided and digital palpation techniques for identification of the cricothyroid membrane: a meta-analysis K.-C. Hung, I.-W. Chen, C.-M. Lin and C.-K. Sun	e9
Entrainment of brain network oscillations in anaesthesia. Comment on <i>Br J Anaesth</i> 2020; 125: 330–335 F. Lersch, D. Hight and F. Frohlich	e11
Brainwave entrainment to minimise sedative drug doses in paediatric surgery. Response to <i>Br J Anaesth</i> 2021; 126: e11–2 W. Schmid, P. Marhofer and W. Klug	e13
Counting the train-of-four twitch response: comparison of palpation with mechanomyography, acceleromyography, and electromyography. Comment on <i>Br J Anaesth</i> 2020; 124: 712–7 T. Fuchs-Buder	e14
Visualising the pressure-time burden of elevated intracranial pressure after severe traumatic brain injury: a retrospective confirmatory study J. Donnelly, F. Güiza, B. Depreitere, G. Meyfroidt, M. Czosnyka and P. Smielewski	e15
Overfatigue amongst Chinese anaesthesiologists from 2017 to 2019 Y.-J. Du, X.-Q. Zhang, L.-D. Liu, J.-Y. Zhang, N. Han and G.-Y. Wang	e17
State of the anaesthesia workforce in the United States: trends and geographic variation in nurse anaesthetist to physician anaesthesiologist ratios L. A. Wilson, J. Poeran, J. Liu, H. Zhong and S. G. Memtsoudis	e19
Self-citation policies in anaesthesiology journals F. Sanfilippo, S. Tigano, A. Morgana, P. Murabito and M. Astuto	e21
Use of sphenopalatine ganglion block in patients with postdural puncture headache: a pilot meta-analysis K.-C. Hung, J.-Y. Chen, C.-N. Ho and C.-K. Sun	e25
Immunoglobulin E cross-linking or MRGPRX2 activation: clinical insights from rocuronium hypersensitivity D. G. Ebo, M.-L. Van der Poorten, J. Elst, A. L. Van Gasse, C. Mertens, C. Bridts, L. H. Garvey, T. Horiuchi and V. Sabato	e27
Factors affecting need for manipulation after total knee arthroplasty: a retrospective case-control cohort study S. B. Porter, H. Zhong, C. B. Robards, J. Liu, J. Poeran and S. Memtsoudis	e29
Normalising renal tissue oxygen tension with higher inspired oxygen concentration may be falsely reassuring. Comment on <i>Br J Anaesth</i> 2020; 125: 192–200 A. Ercole	e32

COVID-19 CORRESPONDENCE

Potential therapeutic value of dexmedetomidine in COVID-19 patients admitted to ICU H. Zhao, R. Davies and D. Ma	e33
Dexmedetomidine: another arrow in the quiver to fight COVID-19 in intensive care units A. Jain, M. Lamperti and D. J. Doyle	e35
High fresh gas flow during non-inhalational anaesthesia during the COVID-19 pandemic. Comment on <i>Br J Anaesth</i> 2020; 125: 773–778 A. Hall and A. Chakladar	e38
Psychological impact of COVID-19 on staff working in paediatric and adult critical care R. ffrench-O'Carroll, T. Feeley, M. H. Tan, C. Magner, K. L'Estrange, C.-I. Efrimescu, E. O'Connor, B. Lyons, S. Crowe and Collaborators	e39
Trials in pandemics: here we go again? S. Harris, E. Palmer and K. Fong	e42
Inhaled nitric oxide minimally improves oxygenation in COVID-19 related acute respiratory distress syndrome A. Longobardo, C. Montanari, R. Shulman, S. Benhalim, M. Singer and N. Arulkumaran	e44
Response of US hospitals to elective surgical cases in the COVID-19 pandemic R. Pirracchio, O. Mavrothalassitis, M. Mathis, S. Kheterpal and M. Legrand	e46
Respiratory personal protective equipment for healthcare workers: impact of sex differences on respirator fit test results A. Ascott, P. Crowest, E. de Saussarez, M. Khan and A. Chakladar	e48
Influence of room ventilation settings on aerosol clearance and distribution N. H. Sperna Weiland, R. A. A. L. Traversari, J. S. Sinnige, F. van Someren Gréve, A. Timmermans, I. J. B. Spijkerman, W. Ganzevoort and M. W. Hollmann	e49

CORRIGENDUM

Corrigendum to ‘Propofol-based anaesthesia versus sevoflurane-based anaesthesia for living donor kidney transplantation: results of the VAPOR-I randomized controlled trial’ (*Br J Anaesth* 2017; 118: 720–32)

G. J. Nieuwenhuijs-Moeke, V. B. Nieuwenhuijs, M. A. J. Seelen, S. P. Berger, M. C. van den Heuvel, J. G. M. Burgerhof, P. J. Ottens, R. J. Ploeg,
H. G. D. Leuvenink and M. M. R. F. Struys

340

Articles highlighted in blue are Editor’s Choice articles. Editor’s Choices are free online.

 Indicates articles accompanied by an editorial.