

Department of Anaesthesia, RUH

Research and QI Outputs 2017-2018 (Jan 2017-Feb 2019)

	2017-8	2015-16	2014-15
Grant awards	11 (≈ £6.6 M)	6 (≈ £5.4 million)	not captured
Papers	66	53 (and 13 in progress)	42
Editorials	19 (+3 in progress)	18	14
Reviews	10	6	4
Case reports	4	-	-
Correspondence	24	36	35
National reports/guidance	13 (+1 in progress)	8	-
Posters	31	40	21
Books	3	3 (and 2 in progress)	5
Chapters	35	20	27
On line resources	13		
Presentations	154	99	82
Awards and prizes	20	22	13
 <u>Who was involved?</u>			
Trainees	46	45	56
Consultants + CRRG	21 + 3	17 + 0	20 + 1
Others	20		

Research activity at RUH

Research is always a team effort and always takes more effort and longer than expected or appreciated by those who don't do it! With that in mind I'm delighted by the strides forward we've made with anaesthesia and ICU related research in 2017-18. The team undertaking research is wide but special mention goes to the research nursing staff, Fiona Kelly, Lesley Jordan, Stuart Younie, Ian Kerslake, Andy Georgiou. and Chris March.

HSRC research fellow

We have successfully bid for an HSRC research fellow for 2017-18. We are the only DGH in the scheme which has been London-centric for some time. This fellowship is jointly funded by R&D funds and the department. Sara-Catrin Cook is the incumbent and is involved in HSRC research, supporting local research and QI, grant writing and research write-ups. She has been very successful in all domains. The post has been renewed.

Academic trainee

Based on our research culture and past success were the DGH chosen by the deanery to host an academic trainee for two years. While the trainee does their research in Bristol the post-holder provides significant funded service delivery of clear benefit to the department, reducing otherwise inevitable rota gaps.

Trainees and fellows

Trainees continue to want to come to Bath to engage in the research and QI projects, which it is renowned for. Trainees regularly contact the department seeking projects before they arrive. This reputation continues to contribute to the high-quality applicants we have for fellow jobs and for rotating registrars.

NIHR portfolio work

We have significantly increased involvement in NIHR portfolio studies this year. These have included (*indicates the study is NIHR portfolio). This has included collaborative studies with surgeons, orthogeriatricians and obstetricians.

In 2019 we plan to start the following studies

PQIP - perioperative quality improvement project. NIHR portfolio

GAP – studying gabapentin in the perioperative period for GI surgery. NIHR portfolio.

INTUBE – and ESICM study of ICU airway management

A cohort evaluation of the Protector LMA – a multicentre study run via the ADEPT process of the DAS.

Establish the Bath airway database

Evaluate patterns of anaesthesia litigation activity in England. 2005-2017

Systematic review of AAGA using the Brice questionnaire

Increased research nurse support

The support of the research nurses is greatly appreciated and finally we are making (some) progress in matching resource to activity. Despite this research nurse time remains a limiting factor in performing research.

Grants

Total £6,644,545

1. £4632 C Gough, P le Fevre, F Kelly, TM Cook DAS/NIAAS small project grant. For fat FONA Dec 2017
2. £4882 R Penders, SC Cook, F Kelly, TM Cook. AAGBI/NIAA small project grant for VL database Dec 2018
3. £17,479 R Awan, SC Cook, L Jordan. AAGBI/NIAA small project grant. Improving outcomes for frail patients undergoing elective colorectal cancer surgery.
4. £850, Alzheimers Research UK, 12th December 2018. G Walkden
5. £1000 Penders R Does virtual reality reduce anxiety during awake hand surgery? Clinical society of Bath Undergraduate Prize
6. £383,865 J Nolan. Co-applicant for NIHR Health Service and Delivery Research Programme Grant (HS&DR – 12/178/18) Avoidable mortality from in-hospital cardiac arrest: Have interventions aimed at recognising and rescuing deteriorating patients made an impact on incidence and outcomes? 2014 – 2018 Chief Investigator Dr Helen Hogan, London School of Hygiene & Tropical Medicine.
7. £2,724,486.00 J Nolan Co-applicant for NIHR Health Technology Assessment Programme Grant (HTA - 12/127/126) for a randomised placebo controlled trial of adrenaline for out of hospital cardiac arrest. Chief Investigator Prof. Gavin D Perkins, University of Warwick. 2014 – 2019
8. £2,099,812 J Nolan. Co-applicant for NIHR Health Technology Assessment Programme Grant (HTA-12/167/102) for a randomised trial of the effectiveness of a supraglottic airway device versus tracheal intubation in the initial airway management of out of hospital cardiac arrest (AIRWAYS-2). Chief Investigator Prof. Jonathan Benger, University Hospitals Bristol NHS Foundation Trust. 2014 – 2018
9. £261,240 J Nolan. Co-applicant NIHR Health Services & Delivery Research (HS&DR 14/19/06) Risk modelling for quality improvement in the critically ill: making best use of routinely available data. Chief Investigator David Harrison Intensive Care National Audit and Research Centre 2015–2018.
10. £12,803 J Nolan. Co-applicant, Resuscitation Council (UK) Grant. Effect of hospital resuscitation service provision on survival from in hospital cardiac arrest. Chief Investigator Prof. Gavin D Perkins, University of Warwick. 2017–2018.
11. £950,497 J Nolan. Co-applicant, British Heart Foundation Grant CS/16/3/32615. A Randomised tRial of Expedited transfer to a cardiac arrest centre for non-ST elevation out of hospital cardiac arrest. The ARREST trial. ISRCTN 96585404. Chief Investigator Prof. Simon Redwood, Kings College London. 2017–2021
12. £11,684.85 TM Cook (Co-applicant with Dr Alex Loosley) [NIAA/AAGBI] Satisfaction and Wellbeing in Anaesthetic Training (SWeAT) 2016-18
13. £8,750 over 5 years TM Cook. [APAGBI] UK-Paediatric Difficult Airway Registry [PeDI (UK)] 2018 (Co-applicant with N Disma, T Englehardt)
14. £170,000 TM Cook, S Moonesinghe Funding for NAP7 after successful proposal bid to RCoA by

PUBLICATIONS

Original articles

1. Le Fevre P, Gough C, Hearne B, Corbett L, Seller C, Cook TM, Kelly FE. A trial comparing emergency Front of Neck Airway performance in a novel obese-synthetic neck, meat-modified obese neck and conventional slim manikin. *Anaesthesia* 2019; 74: 480-7.
2. Foy KE, Mew E, Cook TM, Bower J, Knight P, Dean S, Herneman K, Marden B, Kelly FE. United Kingdom paediatric and neonatal intensive care airway management: the PICNIC survey. *Anaesthesia* 2018; 73: 1337-44. Accompanying editorial in *Archives of Child Health* planned.
3. Walkden GJ, Pickering AE, Gill H. Assessing long-term neurodevelopmental outcome following general anesthesia in early childhood: challenges and opportunities. *Anesthesia & Analgesia*. (accepted Dec 2018, for publication Apr 2019).
4. Walkden GJ, Anderson EL, Vink MP, Tilling K, Howe LD & Ben-Shlomo Y (2018). Frailty in older-age European migrants: cross-sectional and longitudinal analyses of the Survey of Health, Aging and Retirement in Europe (SHARE). *Social Science & Medicine* 213. DOI: 10.1016/j.socscimed.2018.07.033.
5. Walkden GJ, Anderson EL, Vink MP, Tilling K, Howe LD & Ben-Shlomo Y (2018). 4.2-O4Frailty in older-age European migrants: cross-sectional and longitudinal analyses of the survey of health, aging and retirement in Europe (SHARE). *European Journal of Public Health* 28(suppl_1). DOI: 10.1093/eurpub/cky047.128.
6. Jones L, Mulcahy K, Fox J, Cook TM, Kelly FE. C-MAC[®] videolaryngoscopy: the anaesthetic assistant's view. *Journal of Perioperative Practice* 2018; 28: 83-89
7. Cook TM, Boniface NJ, Seller C, Hughes J, Damen C, MacDonald L, Kelly FE. Universal videolaryngoscopy: a structured approach to conversion to videolaryngoscopy for all intubations in an anaesthetic and intensive care department. *British Journal of Anaesthesia* 2018; 120: 173-80. [with Editorial]
8. Edwards RM, Currigan DA, Bradbeer S, Mitchell C. Does a catheter over needle system reduce infusate leak in continuous peripheral nerve blockade: a randomised controlled trial. *Anaesthesia and Intensive Care*, 2018: 46: 468-473
9. Armstrong RA, Kane C, Oglesby F, et al. The incidence of cardiac arrest in the intensive care unit: a systematic review and meta-analysis. *J Intensive Care Soc* 2018. First online May 2018. <https://doi.org/10.1177/1751143718774713>
10. Cook TM, Kelly FE. A national survey of videolaryngoscopy in the United Kingdom. *British Journal of Anaesthesia* 2017; 118: 593-600.
11. Fothergill RT, Emmerson AC, Iyer R, Lazarus J, Whitbread M, Nolan JP, Deakin CD, Perkins GD. Repeated adrenaline doses and survival from an out-of-hospital cardiac arrest. *Resuscitation*. 2019 Jan 29. pii: S0300-9572(19)30007-3. doi: 10.1016/j.resuscitation.2019.01.022

12. Thomas M, Voss S, Bengler J, Kirby K, Nolan JP. Cluster randomised comparison of the effectiveness of 100% oxygen versus titrated oxygen in patients with a sustained return of spontaneous circulation following out of hospital cardiac arrest: a feasibility study. PROXY: post ROSC OXYgenation study. BMC Emergency Medicine 2019;19:116.
13. Soar J, Perkins GD, Maconochie I, Böttiger BW, Deakin CD, Sandroni C, Olasveengen TM, Wyllie J, Greif R, Lockey A, Semeraro F, Van de Voorde P, Lott C, Bossaert L, Monsieurs KG, **Nolan JP**; European Resuscitation Council. European Resuscitation Council Guidelines for Resuscitation: 2018 Update – Antiarrhythmic drugs for cardiac arrest. Resuscitation 2019; 134: 99–103
14. Soar J, Donnino MW, Maconochie I, Aickin R, Atkins DL, Andersen LW, Berg KM, Bingham R, Böttiger BW, Callaway CW, Couper K, Couto TB, de Caen AR, Deakin CD, Drennan IR, Guerguerian AM, Lavonas EJ, Meaney PA, Nadkarni VM, Neumar RW, Ng KC, Nicholson TC, Nuthall GA, Ohshimo S, O'Neil BJ, Ong GY, Paiva EF, Parr MJ, Reis AG, Reynolds JC, Ristagno G, Sandroni C, Schexnayder SM, Scholefield BR, Shimizu N, Tijssen JA, Van de Voorde P, Wang TL, Welsford M, Hazinski MF, **Nolan JP**, Morley PT; ILCOR Collaborators. 2018 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations Summary. Circulation 2018; 138: e714–e730.
15. Soar J, Donnino MW, Maconochie I, Aickin R, Atkins DL, Andersen LW, Berg KM, Bingham R, Böttiger BW, Callaway CW, Couper K, Couto TB, de Caen AR, Deakin CD, Drennan IR, Guerguerian AM, Lavonas EJ, Meaney PA, Nadkarni VM, Neumar RW, Ng KC, Nicholson TC, Nuthall GA, Ohshimo S, O'Neil BJ, Ong GY, Paiva EF, Parr MJ, Reis AG, Reynolds JC, Ristagno G, Sandroni C, Schexnayder SM, Scholefield BR, Shimizu N, Tijssen JA, Van de Voorde P, Wang TL, Welsford M, Hazinski MF, **Nolan JP**, Morley PT; ILCOR Collaborators. 2018 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations Summary. Resuscitation 2018; 133: 194–206.
16. Bengler JR, Kirby K, Black S, Brett SJ, Clout M, Lazaroo MJ, **Nolan JP**, Reeves BC, Robinson M, Scott LJ, Smartt H, South A, Stokes EA, Taylor J, Thomas M, Voss S, Wordsworth S, Rogers CA. Effect of a Strategy of a Supraglottic Airway Device vs Tracheal Intubation During Out-of-Hospital Cardiac Arrest on Functional Outcome: The AIRWAYS-2 Randomized Clinical Trial. JAMA 2018; 320: 779–791.
17. Perkins GD, Ji C, Deakin CD, Quinn T, **Nolan JP**, Scomparin C, Regan S, Long J, Slowther A, Pocock H, Black JJM, Moore F, Fothergill RT, Rees N, O'Shea L, Docherty M, Gunson I, Han K, Charlton K, Finn J, Petrou S, Stallard N, Gates S, Lall R; PARAMEDIC2 Collaborators. A randomized trial of epinephrine in out-of-hospital cardiac arrest. N Engl J Med. 2018; 379: 711–721.
18. Patterson T, Perkins A, Perkins GD, Clayton C, Evans R, Nguyen H, Wilson K, Whitbread M, Hughes J, Fothergill R, Nevett J, Mosweu I, McCrone P, Dalby M, Rakhit R, MacCarthy P, Perera D, **Nolan JP**, Redwood SR. Rationale and design of: A Randomised tRial of Expedited transfer to a cardiac arrest center for non-ST elevation out-of-hospital cardiac arrest: The ARREST randomized controlled trial. American Heart Journal 2018; 204: 92–101.

19. Ali MU, Fitzpatrick-Lewis D, Kenny M, Raina P, Atkins DL, Soar J, **Nolan J**, Ristagno G, Sherifali D. Effectiveness of antiarrhythmic drugs for shockable cardiac arrest: A systematic review. *Resuscitation* 2018; 132: 63–72.
20. Holmberg MJ, Geri G, Wiberg S, Guerguerian A-Marie, Donnino MW, **Nolan JP**, Deakin CD, Andersen LW. Extracorporeal cardiopulmonary resuscitation for cardiac arrest: a systematic review. *Resuscitation* 2018; 131: 91–100.
21. **Nolan JP**, Berg RA, Callaway CW, Morrison LJ, Nadkarni V, Perkins GD, Sandroni C, Skrifvars MB, Soar J, Sunde K, Cariou A. The present and future of cardiac arrest care – international experts reach out to caregivers and healthcare authorities. *Intensive Care Med* 2018; 44: 823–832.
22. Patterson T, Perkins GD, Hassan Y, Moschonas K, Gray H, Curzen N, de Belder M, **Nolan JP**, Ludman P, Redwood SR Temporal Trends in Identification, Management, and Clinical Outcomes After Out-of-Hospital Cardiac Arrest Insights From the Myocardial Ischaemia National Audit Project Database. *Circ Cardiovasc Interv* 2018; 11: e005346.
23. Kleinman ME, Perkins GD, Bhanji F, Billi JE, Bray J, Callaway CW, de Caen A, Finn J, Hazinski MF, Lim SH, Maconochie I, Morley P, Nadkarni V, Neumar RW, Nikolaou N, **Nolan JP**, Reis A, Sierra AF, Singletary EM, Soar J, Stanton D, Travers A, Welsford M, Zideman D. ILCOR Scientific Knowledge Gaps and Clinical Research Priorities for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care: A Consensus Statement. *Circulation* 2018; 2018; 137: e802-e819.
24. Perkins GD, Olasveengen TM, Maconochie I, Soar J, Wyllie J, Greif R, Lockey A, Semeraro F, Van de Voorde P, Lott C, Monsieurs KG, **Nolan JP**; European Resuscitation Council. European Resuscitation Council Guidelines for Resuscitation: 2017 update. *Resuscitation* 2018; 123: 43–50.
25. Olasveengen TM, de Caen AR, Mancini ME, Maconochie IK, Aickin R, Atkins DL, Berg RA, Bingham RM, Brooks SC, Castrén M, Chung SP, Considine J, Couto TB, Escalante R, Gazmuri RJ, Guerguerian AM, Hatanaka T, Koster RW, Kudenchuk PJ, Lang E, Lim SH, Løfgren B, Meaney PA, Montgomery WH, Morley PT, Morrison LJ, Nation KJ, Ng KC, Nadkarni VM, Nishiyama C, Nuthall G, Ong GY, Perkins GD, Reis AG, Ristagno G, Sakamoto T, Sayre MR, Schexnayder SM, Sierra AF, Singletary EM, Shimizu N, Smyth MA, Stanton D, Tijssen JA, Travers A, Vaillancourt C, Van de Voorde P, Hazinski MF, **Nolan JP**; ILCOR Collaborators. 2017 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations Summary. *Circulation* 2017; 136: e424–e440.
26. Olasveengen TM, de Caen AR, Mancini ME, Maconochie IK, Aickin R, Atkins DL, Berg RA, Bingham RM, Brooks SC, Castrén M, Chung SP, Considine J, Couto TB, Escalante R, Gazmuri RJ, Guerguerian AM, Hatanaka T, Koster RW, Kudenchuk PJ, Lang E, Lim SH, Løfgren B, Meaney PA, Montgomery WH, Morley PT, Morrison LJ, Nation KJ, Ng KC, Nadkarni VM, Nishiyama C, Nuthall G, Ong GY, Perkins GD, Reis AG, Ristagno G, Sakamoto T, Sayre MR, Schexnayder SM, Sierra AF, Singletary EM, Shimizu N, Smyth MA, Stanton D, Tijssen JA, Travers A, Vaillancourt C, Van de Voorde P, Hazinski MF, **Nolan JP**; ILCOR Collaborators. 2017 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations Summary. *Resuscitation* 2017; 121: 201–214.

27. **Nolan JP**, Berg RA, Bernard S, Bobrow BJ, Callaway CW, Cronberg T, Koster RW, Kudenchuk PJ, Nichol G, Perkins GD, Rea TD, Sandroni C, Soar J, Sunde K, Cariou A. Intensive care medicine research agenda on cardiac arrest. *Intensive Care Med* 2017; 43: 1282–93.
28. Patterson T, Perkins GD, Joseph J, Wilson K, Van Dyck L, Roberston S, Nguyen H, McConkey H, Whitbread M, Fothergill R, Nevett J, Dalby M, Rakhit R, MacCarthy P, Perera D, **Nolan JP**, Redwood SR. A Randomised tRial of Expedited transfer to a cardiac arrest centre for non-ST elevation ventricular fibrillation out-of-hospital cardiac arrest: The ARREST pilot randomised trial. *Resuscitation* 2017; 115: 185–191.
29. Lockey DJ, Crewdson K, Davies G, Jenkins B, Klein J, Laird C, Mahoney PF, **Nolan J**, Pountney A, Shinde S, Tighe S, Russell MQ, Price J, Wright C. AAGBI: Safer pre-hospital anaesthesia 2017. *Anaesthesia* 2017; 72: 379–390.
30. Anderson LW, Granfeldt A, Callaway C, Bradley SM, Soar J, **Nolan JP**, Kurth T, Donnino MW for the American Heart Association’s Get With The Guidelines – Resuscitation Investigators. Association between tracheal intubation during adult in-hospital cardiac arrest and survival. *JAMA* 2017; 317: 494–506.
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32. Kemp H, Thomas M, **Cook TM**, Harper NJ. NAP6 baseline survey: UK anaesthetists’ perspectives and experiences of severe perioperative anaphylaxis. *British Journal of Anaesthesia* 2017; 119: 132-9
33. Palmer JJMacG, Nightingale CE, Sury MRJ, Pandit JJ, **Cook TM**. Underestimating the size of the problem? UK anaesthesia for patients with obesity. *Obesity Research & Clinical Practice* 2017; 11: 703-8
34. Lewis SR, Butler AR, Parker J, Cook TM, Schofield-Robinson OJ, Smith AF. Videolaryngoscopy versus direct laryngoscopy for adult patients requiring tracheal intubation: a Cochrane Systematic Review. *British Journal of Anaesth.* 2017; 119: 369-383 [abridged version of previous cochrane review]
35. Egner W, **Cook TM**, Harper NJ, Garcez T, Marinho S, Thomas T, Kong KL, Nasser S, Warner A, Hitchman J, Floss K. Specialist Peri-Operative Allergy Clinic Services in the UK 2016: Results from the Royal College of Anaesthetists Sixth National Audit Project. *Clinical and Experimental Allergy* 2017;;47: 1318-30
36. Higgs A, McGrath BA, Goddard C, Rangasami J, Suntharalingam G, Gale R, **Cook TM**; Difficult Airway Society; Intensive Care Society; Faculty of Intensive Care Medicine; Royal College of Anaesthetists. Guidelines for the management of tracheal intubation in critically ill adults. *British Journal of Anaesth.* 2018; 120: 323-52 [with Editorial]

37. Hounscome J, Greenhalgh J, Schofield-Robinson O, Lewis SR, **Cook TM**, Smith AF. Nitrous oxide-based vs. nitrous oxide-free general anaesthesia and accidental awareness in surgical patients: an abridged Cochrane systematic review. *Anaesthesia*. 2018; 73: 365-374
38. Jones L, Mulcahy K, Fox J, **Cook TM**, Kelly FE. C-MAC® videolaryngoscopy: the anaesthetic assistant's view. *Journal of Perioperative Practice*. *J Perioper Pract*. 2018; 28: 83-89.
39. Duggan LV, Lockhart SL, **Cook TM**, O'Sullivan E, Dare D, Baker PA. The Airway App: exploring the role of smartphone technology to capture emergency front-of-neck airway experiences internationally. *Anaesthesia* 2018; 73: 703-10.[with Editorial]
40. **Cook TM**, Harper NJN, Farmer L, Garcez T, Floss K, Marinho S, Torevell H, Warner A, McGuire N, Ferguson K, Hitchman J, Egner W, Kemp H, Thomas M, Lucas DN, Nasser S, Karanam S, Kong K-L, Farooque S, Bellamy M, McGlennan A, Moonesinghe SR. Anaesthesia, surgery, and life-threatening allergic reactions: protocol and methods of the 6th National Audit Project (NAP6) of the Royal College of Anaesthetists. *British Journal of Anaesth*. 2018; 121: 124-133 [with editorial]
41. Kemp H, Marinho S, **Cook TM**. Farmer L, Bellamy M, Egner W, Farooque S, Ferguson K, Floss K, Garcez T, Karanam S, Hitchman J, K-L Kong, McGuire N, Nasser S, Lucas DN, Thomas M, Torevell H, Warner A, Harper NJH. An observational national study of anaesthetic workload and seniority across the working week and weekend in the UK in 2016: the 6th National Audit Project (NAP6) Activity Survey. *British Journal of Anaesth*. 2018; 121: 134-145 [with editorial]
42. Marinho S, Kemp H, Harper NJN, Farmer L, Farooque S, Lucas DN, Garcez T, Floss K8 Torevell H, Thomas M, Warner A, Hitchman J, Ferguson K, Egner W, Nasser S, Karanam S, Kong K-L, McGuire N, Bellamy M, **Cook TM**. Cross-sectional study of perioperative drug and allergen exposure in UK practice in 2016: the 6th National Audit Project (NAP6) Allergen Survey. *British Journal of Anaesth*. 2018; 121: *British Journal of Anaesth*. 2018; 121: 146-158 [with editorial]
43. Harper NJN, **Cook TM**, Garcez T, Farmer L, Floss K, Marinho S, Torevell H, Warner A, Ferguson K, Hitchman J, Egner W, Kemp H, Thomas M, Lucas DN, Nasser S, Karanam S, Kong K-L, Farooque S, Bellamy M, McGuire N. Anaesthesia, surgery, and life-threatening allergic reactions: epidemiology and clinical features of perioperative anaphylaxis in the 6th National Audit Project (NAP6). *British Journal of Anaesth*. 2018; 121: 159-171 [with editorial]
44. Harper NJN, **Cook TM**, Garcez T, Lucas DN, Thomas M, Kemp H, Kong K-L, Marinho S, Karanam S, Ferguson K, Hitchman J, Torevell H, Warner A, Egner W, Nasser S, McGuire N, Bellamy M, Floss K, Farmer L, Farooque S. Anaesthesia, surgery, and life-threatening allergic reactions: management and outcomes in the 6th National Audit Project (NAP6). *British Journal of Anaesth*. 2018; 121: 172-188
[with editorial]
45. Egner W, **Cook TM**, Garcez T, Marinho S, Kemp H, Lucas DN, Floss K, Farooque S, Torevell H, Thomas M, Ferguson K, Nasser S, Karanam S, Kong KL, McGuire N, Bellamy M, Warner A, Hitchman J, Farmer L, Harper NJN. Specialist perioperative allergy clinic services in the UK 2018:

Results from the Royal College of Anaesthetists Sixth National Audit Project (NAP6) investigation of perioperative anaphylaxis. Clin Exp Allergy. 2018; 48: 846-861.

46. Bampoe S, **Cook TM**, Fleisher L, Grocott MPW, Neuman M, Story D, Myles P, Haller G. Clinical indicators for reporting the effectiveness of patient quality and safety-related interventions: a protocol of a systematic review and Delphi consensus process as part of the international Standardised Endpoints for Perioperative Medicine initiative (StEP). BMJ Open BMJ Open 2018; 8: e023427. doi:10.1136/
47. Nimmo AF, Absalom AR, Bagshaw O, Biswas A, **Cook TM**, Costello A, Grimes S, Mulvey D, Shinde S, Whitehouse T, Wiles MD. Guidelines for the safe practice of total intravenous anaesthesia (TIVA): Joint Guidelines from the Association of Anaesthetists and the Society for Intravenous Anaesthesia. Anaesthesia. 2019; 74: 211-24. [With editorial]
48. Nimmo AF, Absalom AR, Bagshaw O, Biswas A, **Cook TM**, Costello A, Grimes S, Mulvey D, Shinde S, Whitehouse T, Wiles MD Association of Anaesthetists of Great Britain and Ireland (AAGBI) and the Society for Intravenous Anaesthesia (SIVA) Total Intravenous Anaesthesia 2017: guidelines for safe practice.. Anaesthesia 2019; 74: 211-224
49. **Cook TM**, Wilkes A, Bickford-smith P, Dorn L, Stacey M, Kinsella SM, Phillips P. Multicentre clinical simulation evaluation of the ISO 80369-6 neuraxial non-Luer connector. Anaesthesia 2019 Feb 21. doi: 10.1111/anae.14585

In press

50. Looseley A, Wainwright E, **Cook TM**, Bell V, Hoskins S, O'Connor M, Taylor G, Mouton for the SWeAT Study investigator group. Stress, burnout, depression and work-satisfaction amongst UK anaesthetic trainees; a quantitative analysis of the SWeAT Study. In press Anaesthesia 2019
51. Wainwright E, Looseley A, Mouton R, O'Connor M, Taylor G, **Cook TM** for the SWeAT study investigator group. Stress, burnout, depression and work-satisfaction amongst UK anaesthetic trainees; a qualitative analysis of in-depth participant interviews in the SWeAT study. In press 2019 Anaesthesia

Collaborator publications (mostly several collaborators from department)

SNAP-1

52. Design and methodology of SNAP-1: a Sprint National Anaesthesia Project to measure patient reported outcome after anaesthesia. Moonesinghe SR, Walker EMK, Bell M and the **SNAP-1 investigator group**. Perioperative Medicine 2015 4:4
53. <http://perioperativemedicinejournal.biomedcentral.com/articles/10.1186/s13741-015-0011-2>

As part of ISOS group

54. Global patient outcomes after elective surgery: prospective cohort study in 27 low-, middle- and

high-income countries. *British Journal of Anaesth.* 2016; 117: 601-9. Hemmings HC, **International Surgical Outcomes Study group.**

55. Dexamethasone versus standard treatment for postoperative nausea and vomiting in gastrointestinal surgery: randomised controlled trial (DREAMS Trial). DREAMS Trial Collaborators and West Midlands Research Collaborative. *BMJ* 2017; 357: j1455. (As collaborator and joint local PI)
56. [In-hospital clinical outcomes after upper gastrointestinal surgery: Data from an international observational study.](#) *Eur J Surg Oncol.* 2017; 43:2324-32. Szakmany T, Ditai J, Kirov M, Protsenko D, Osinaike B, Venara A, Demartines N, Hubner M, Pearse RM, Prowle JR; **International Surgical Outcomes Study (ISOS) group.**
57. [Use of failure-to-rescue to identify international variation in postoperative care in low-, middle- and high-income countries: a 7-day cohort study of elective surgery.](#) Ahmad T, Bouwman RA, Grigoras I, Aldecoa C, Hofer C, Hoeft A, Holt P, Fleisher LA, Buhre W, Pearse RM; **International Surgical Outcomes Study (ISOS) group.** *British Journal of Anaesth.* 2017; 119: 258-66.
58. [Critical care admission following elective surgery was not associated with survival benefit: prospective analysis of data from 27 countries.](#) Kahan BC, Koulenti D, Arvaniti K, Beavis V, Campbell D, Chan M, Moreno R, Pearse RM; **International Surgical Outcomes Study (ISOS) group.** *Intensive Care Med.* 2017; 43: 971-9.
59. Prospective observational cohort study on grading the severity of postoperative complications in global surgery research. International Surgical Outcomes Study (ISOS) group. *ISOS group. British Journal of Surgery* 2019; 106: e73–e80
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/bjs.11025>

As part of StEP compac group

60. Systematic review and consensus definitions for the Standardised Endpoints in Perioperative Medicine (StEP) initiative: patient comfort. Myles PS, Boney O, Botti M, Cyna AM, Gan TJ, Jensen MP, Kehlet H, Kurz A, De Oliveira GS Jr., Peyton P, Sessler DI, Tramèr MR, Wu CL; **StEP-COMPAC Group**, Myles P, Grocott M, Bickard B, Blazeby J, Boney O, Chan M, Diouf E, Fleisher L, Kalkman C, Kurz A, Moonesinghe R, Wijesundera D. *British Journal of Anaesth.* 2018; **120**: 705-711
61. Systematic review and consensus definitions for standardised endpoints in perioperative medicine: postoperative cancer outcomes. Buggy DJ, Freeman J, Johnson MZ, Leslie K, Riedel B, Sessler DI, Kurz A, Gottumukkala V, Short T, Pace N, Myles PS; **StEP-COMPAC Group.** *British Journal of Anaesth.* 2018; **121**: 38-44
62. A systematic review and consensus definitions for standardised end-points in perioperative medicine: pulmonary complications. Abbott TEF, Fowler AJ, Pelosi P, Gama de Abreu M, Møller AM, Canet J, Creagh-Brown B, Mythen M, Gin T, Lalu MM, Futier E, Grocott MP, Schultz MJ, Pearse RM; **StEP-COMPAC Group.** *British Journal of Anaesth.* 2018; **120**: 1066-79.

63. Systematic review and consensus definitions for the Standardised Endpoints in Perioperative Medicine (StEP) initiative: infection and sepsis. Barnes J, Hunter J, Harris S, StEP-COMPAC group . British Journal of Anaesth. 2019; 122: 500-508.

As part of SNAP-2 EPPICS group

64. EPICCS collaborators. Cancelled operations: a 7-day cohort study of planned adult inpatient surgery in 245 UK National Health Service hospitals. Wong DJN, Harris SK, Moonesinghe SR; SNAP-2: British Journal of Anaesth. 2018; 121: 730-8
65. Postoperative critical care and high-acuity care provision in the United Kingdom, Australia, and New Zealand. Wong D, Popham S, Wilson AM, Barneto LM, Lindsay HA, Farmer L, Saunders D, Wallace S, Campbell D, Myles PS, Harris SK, Moonesinghe SR on behalf of the SNAP-2: EPICCS collaborators. British Journal of Anaesthesia 2019.....DOI: <https://doi.org/10.1016/j.bja.2018.12.026>

As part of Emergency Laparotomy Collaborative

66. Evaluation of the Collaborative Use of an Evidence-Based Care Bundle in Emergency Laparotomy. Aggarwal A, Peden CJ, Mohammed MA, Pullyblank A, Williams B, Stephens T, Kellett S, Kirkby-Bott J, Quiney N, for the Emergency Laparotomy Collaborative. JAMA Surg. doi:10.1001/jamasurg.2019.0145

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Systematic review and consensus definitions for the Standardised Endpoints in Perioperative Medicine (StEP) initiative: patient-centred outcomes. Moonesinghe SR, Jackson S, Boney O, Stevenson N, Chan M, Cook TM, Lane-Fall M, Kalkman C, Neuman M, Nilsson U, Shulman M, Myles P and the StEP-COMPAC group. British Journal of Anaesthesia

Does virtual reality reduce anxiety during awake hand surgery? Penders R, Edwards RM

Major studies recruited for (*= NIHR portfolio)

1. *DREAMS: Dexamethasone versus standard treatment for postoperative nausea and vomiting in gastrointestinal surgery: randomised controlled trial (DREAMS Trial). DREAMS Trial Collaborators and West Midlands Research Collaborative. BMJ 2017;357:j1455.
2. PEACE (I Kerslake RUH PI) – renal failure in ICU
3. *iHYPE (L Jordan RUH PI) – perioperative hypotension in the elderly
4. SWeAT (TM Cook RUH PI) – trainee stress, burnout and depression
5. *SNAP2 (L Jordan RUH PI) – availability and use of ICU beds
6. *PQIP (TM Cook RUH PI) – QI for elective major surgery
7. *DALES (L Jordan RUH PI) – drug allergy in the perioperative period

8. *WEAN-SAFE (I Kerslake RUH PI) – safeweaning from ventilatikon
9. *DREAMY. (C Marsh RUH PI) Direct Reporting of Awareness in Maternity Patients.
10. *ASCRIBE (with orthogeriatrics) – biomarkers in patients with dementia
11. *FLO-ELA (TM Cook RUH PI) – flow-directed fluid optimisation in emergency laparotomy
12. The incidence of chronic headache following accidental dural puncture with a Tuohy needle in the obstetric population. A prospective 2 group cohort study. (C Marsh RUH PI)
13. RARE (I Kerslake RUH PI) -

In Preparation

14. GAP (TM Cook RUH PI) – Gabapentin in elective major surgery
15. Protector LMA study (TM Cook RUH PI) – large cohort study of a new LMA
16. INTUBE (I Kerslake or TM Cook RUH PI) – complications of intubation in the critically ill
17. VL airway database (F Kelly/TM Cook RUH leads)
18. NHSLA claims analysis 2007-19 (Cook TM lead)

Reviews

1. Kerslake I, Kelly FE. Uses of capnography on the critical care unit. *British Journal of Anaesthesia Education* 2017; 17: 178–183.
2. Gough CJR, **Nolan JP**. The role of adrenaline in cardiopulmonary resuscitation. *Critical Care* 2018; 22: 139.
3. Sandroni C, D'Arrigo S, **Nolan JP**. Prognostication after cardiac arrest. *Critical Care* 2018; 22: 150.
4. Gough CJR, **Nolan JP**. To intubate or not to intubate? *Current Opinion in Critical Care* 2018; 24: 131–137.
5. Perkins GD, Neumar R, Monsieurs KG, Lim SH, Castren M, **Nolan JP**, Nadkarni V, Montgomery B, Steen P, Cummins R, Chamberlain D, Aickin R, de Caen A, Wang TL, Stanton D, Escalante R, Callaway CW, Soar J, Olasveengen T, Maconochie I, Wyckoff M, Greif R, Singletary EM, O'Connor R, Iwami T, Morrison L, Morley P, Lang E, Bossaert L; International Liaison Committee on Resuscitation. The International Liaison Committee on Resuscitation– Review of the last 25 years and vision for the future. *Resuscitation* 2017; 121: 104–16.
6. Kane N, Robinson L, **Nolan JP**. Neurophysiology contributes to outcome prediction after cardiac arrest. *Clin Neurophysiol Practice* 2017; 2: 201–2015.
7. **Nolan JP**. Cardiac arrest and cardiopulmonary resuscitation. *Seminars in Neurology* 2017; 37 :5–12.
8. Miles ETC, **Cook TM**. Critical Incidents: The Respiratory System. *Anaesthesia and Intensive Care Medicine* 2017; 18; 4-9 doi.org/10.1016/j.mpaic.2016.10.005
9. Pearson A, **Cook TM**. Litigation and complaints associated with day-case anaesthesia. (Invited).

British Journal of Anaesthesia Education 2017; 17, 289–294.

(<https://doi.org/10.1093/bjaed/mkx011>)

<https://academic.oup.com/bjaed/article/17/9/289/3813128/Litigation-and-complaints-associated-with-daycase?guestAccessKey=eee7d54b-20a9-422c-9d59-7c6eac344175>

10. Airway complications – strategies for prevention. **Cook TM**. *Anaesthesia* 2018; 73: 93-111. (Invited)

Editorials

1. Foy K, Kelly FE, Cook TM, Marden B. Infant journal, accepted Jan 2019, in press.
2. Sandroni C, Parnia S, Nolan JP. Cerebral oximetry in cardiac arrest. *Intensive Care Medicine* 2019; in press.
3. Goodwin APL, Wilkinson KA. Age cannot wither her? - NCEPOD at 30. *Anaesthesia* 2018; 73: 931-4.
4. Nolan JP, Ornato JP, Parr MJ, Perkins GD, Soar J. Resuscitation highlights in 2018. *Resuscitation* 2019; in press.
5. Aneman A, Cariou A, Nolan JP. Understanding temperature goals after cardiac arrest. *Intensive Care Med* 2018; 44: 940–943.
6. Böttiger BW, Lockey A, Aickin R, Castren M, de Caen A, Escalante R, Kern KB, Lim SH, Nadkarni V, Neumar RW, Nolan JP, Stanton D, Wang TL, Perkins GD. All citizens of the world can save a life - The World Restart a Heart (WRAH) initiative starts in 2018. *Resuscitation*. 2018; 128: 188-190.
7. Nolan JP, Ornato JP, Parr MJ, Perkins GD, Soar J. Resuscitation highlights in 2017. *Resuscitation* 2018; 124: A1–A7.
8. Hazinski MF, Nolan JP. International collaboration with dedicated local implementation improves survival from out-of-hospital cardiac arrest. *J Am Heart Assoc* 2017; 6 :e006836.
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15. Palmer JHMacG, Sury MRJ, Cook TM, Pandit JJ. Disease coding for anaesthetic and peri-operative practice: an opportunity not to be missed. *Anaesthesia* 2017; 72: 820-5.
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<https://doi.org/10.12968/hmed.2018.79.4.184>
17. Cook TM, Harrop Griffiths W. Capnography prevents avoidable deaths. No trace = Wrong place. *BMJ* 2019;364:l439 doi: 10.1136/bmj.l439
<http://bmj.com/cgi/content/full/bmj.l439?ijkey=nl8N1AVQ1wsqj3u&keytype=ref>
18. Kemp HI, Cook TM. Perioperative anaphylaxis – what’s the risk? *SAJAA* in press Feb 2019

In preparation

19. Peak Airway. Gibbins M, Cook TM. *SAJAA* in press Feb 2019
20. Perioperative anaphylaxis to antibiotics. Cook TM. *BMJ* invited
21. Videolaryngoscopy technique. Cook TM, Aziz M, Greenland K. in prep

Case reports

1. Oglesby F, Marsh C. Amniotic fluid embolism: A diagnosis of exclusion in cases of maternal collapse. *British Journal of Hospital Medicine* 2018; 79: 3-6
<https://doi.org/10.12968/hmed.2018.79.10.C157>
2. Oglesby F, Catrin-Cook S, Kelly FE, Marsh C. Amniotic Fluid Embolus in the Absence of Disseminated Intravascular Coagulation and Respiratory Failure: A Diagnostic Challenge. *Journal of Obstetric Anaesthesia and Critical Care*. Accepted August 2018. In press.
3. Joy P, Gouldson S, Jordan L, Weale N. Acute onset shortness of breath in labour: haemothorax secondary to pulmonary arteriovenous malformation’ *Anaesthesia Cases* / 2017-0242 / ISSN 2396-8397

4. Saunders TG, Gibbins ML, Seller CA, Barnett J, Kelly FE, Cook TM. Videolaryngoscope assisted fiberoptic intubation for tracheal tube exchange in a difficult airway. *Anaesthesia Reports*. In press March 2019

National reports and guideline documents

1. Sinclair MT, Srivastava V, Goodwin APL, Smith NCE, Shotton H, Butt A, Ellis D, Mason M. The National Confidential Enquiry into Patient Outcome and Death. *Highs and Lows*. 2018. London.
2. Michalski AJ, Goodwin APL, Butt A, Ellis D, Shotton H, Mason M. The National Confidential Enquiry into Patient Outcome and Death. *On the Right Course?* 2018. London
3. Soar J, Perkins GD, Maconochie I, Böttiger BW, Deakin CD, Sandroni C, Olasveengen TM, Wyllie J, Greif R, Lockey A, Semeraro F, Van de Voorde P, Lott C, Bossaert L, Monsieurs KG, Nolan JP; European Resuscitation Council. European Resuscitation Council Guidelines for Resuscitation: 2018 Update – Antiarrhythmic drugs for cardiac arrest. *Resuscitation* 2019; 134: 99–103
4. Soar J, Donnino MW, Maconochie I, Aickin R, Atkins DL, Andersen LW, Berg KM, Bingham R, Böttiger BW, Callaway CW, Couper K, Couto TB, de Caen AR, Deakin CD, Drennan IR, Guerguerian AM, Lavonas EJ, Meaney PA, Nadkarni VM, Neumar RW, Ng KC, Nicholson TC, Nuthall GA, Ohshimo S, O'Neil BJ, Ong GY, Paiva EF, Parr MJ, Reis AG, Reynolds JC, Ristagno G, Sandroni C, Schexnayder SM, Scholefield BR, Shimizu N, Tijssen JA, Van de Voorde P, Wang TL, Welsford M, Hazinski MF, Nolan JP, Morley PT; ILCOR Collaborators. 2018 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations Summary. *Circulation* 2018; 138: e714–e730.
5. Soar J, Donnino MW, Maconochie I, Aickin R, Atkins DL, Andersen LW, Berg KM, Bingham R, Böttiger BW, Callaway CW, Couper K, Couto TB, de Caen AR, Deakin CD, Drennan IR, Guerguerian AM, Lavonas EJ, Meaney PA, Nadkarni VM, Neumar RW, Ng KC, Nicholson TC, Nuthall GA, Ohshimo S, O'Neil BJ, Ong GY, Paiva EF, Parr MJ, Reis AG, Reynolds JC, Ristagno G, Sandroni C, Schexnayder SM, Scholefield BR, Shimizu N, Tijssen JA, Van de Voorde P, Wang TL, Welsford M, Hazinski MF, Nolan JP, Morley PT; ILCOR Collaborators. 2018 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with Treatment Recommendations Summary. *Resuscitation* 2018; 133: 194–206.
6. Kleinman ME, Perkins GD, Bhanji F, Billi JE, Bray J, Callaway CW, de Caen A, Finn J, Hazinski MF, Lim SH, Maconochie I, Morley P, Nadkarni V, Neumar RW, Nikolaou N, Nolan JP, Reis A, Sierra AF, Singletary EM, Soar J, Stanton D, Travers A, Welsford M, Zideman D. ILCOR Scientific Knowledge Gaps and Clinical Research Priorities for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care: A Consensus Statement. *Circulation* 2018; 2018; 137: e802–e819.
7. Perkins GD, Olasveengen TM, Maconochie I, Soar J, Wyllie J, Greif R, Lockey A, Semeraro F, Van de Voorde P, Lott C, Monsieurs KG, Nolan JP; European Resuscitation Council. European Resuscitation Council Guidelines for Resuscitation: 2017 update. *Resuscitation* 2018; 123: 43–50.

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9. Olasveengen TM, de Caen AR, Mancini ME, Maconochie IK, Aickin R, Atkins DL, Berg RA, Bingham RM, Brooks SC, Castrén M, Chung SP, Considine J, Couto TB, Escalante R, Gazmuri RJ, Guerguerian AM, Hatanaka T, Koster RW, Kudenchuk PJ, Lang E, Lim SH, Løfgren B, Meaney PA, Montgomery WH, Morley PT, Morrison LJ, Nation KJ, Ng KC, Nadkarni VM, Nishiyama C, Nuthall G, Ong GY, Perkins GD, Reis AG, Ristagno G, Sakamoto T, Sayre MR, Schexnayder SM, Sierra AF, Singletary EM, Shimizu N, Smyth MA, Stanton D, Tijssen JA, Travers A, Vaillancourt C, Van de Voorde P, Hazinski MF, Nolan JP; ILCOR Collaborators. 2017 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science With Treatment Recommendations Summary. *Resuscitation* 2017; 121: 201–214.
10. Anaesthesia, surgery and Life-threatening allergic reactions. Report and Findings of the Sixth National Audit Project of the Royal College of Anaesthetists. Editors Cook TM, Harper NJN. May 2018. ISBN 978-1-900936-18-7. Royal College of Anaesthetists. London
11. Higgs A, McGrath BA, Goddard C, Rangasami J, Suntharalingam G, Gale R, Cook TM; Difficult Airway Society; Intensive Care Society; Faculty of Intensive Care Medicine; Royal College of Anaesthetists. Guidelines for the management of tracheal intubation in critically ill adults. *British Journal of Anaesth.* 2018; 120: 323-52
12. Nimmo AF, Absalom AR, Bagshaw O, Biswas A, Cook TM, Costello A, Grimes S, Mulvey D, Shinde S, Whitehouse T, Wiles MD. Guidelines for the safe practice of total intravenous anaesthesia (TIVA): Joint Guidelines from the Association of Anaesthetists and the Society for Intravenous Anaesthesia. *Anaesthesia.* 2019; 74: 211-24.
13. Pandit JJ, Cook TM, Shinde S, Ferguson K, Hitchman J, Jonker W, Odor PM, Meek T. The 'NAP5 Handbook': concise practice guidance on the prevention and management of accidental awareness during general anaesthesia. AAGBI 2019.

In progress

14. Kelly F, Hardy R, Cordingley J, Hughes C. GPICS chapter fire on the ICU 2018 submitted March 2018, accepted Aug 2018. Going through public consultation at present, awaiting publication in spring 2019

Correspondence

1. Storey M, Hardy R, Kelly FE. Multidisciplinary malignant hyperpyrexia training in the workplace for anaesthetists and anaesthetic assistants. *Anaesthesia* 2018; 73 (suppl 4): 1-116.
2. 'Trachy Tracey' - an education tool for tracheostomy training. Riley E, Payne S, Jones J, Cook TM, Kelly FE, Robinson O, Baruah R. *Anaesthesia*. 2018; 73: 1044-5.
3. Kelly FE, Bahagrath R, McNarry A. The 'airway spider': an educational tool for teaching human factors and ergonomics in airway management. *Anaesthesia*. 2018; 73: 257-258.
4. Kerton MSC, Jones A, Gough C, Hardy R, Kelly FE. Paediatric Anaphylaxis Management: training staff to actually draw up the correct dose of adrenaline. *British Journal of Anaesth.* 2018; 120: 881-882.
5. Kelly FE, Cook TM. Routine videolaryngoscopy is likely to improve skills needed to use a videolaryngoscope when laryngoscopy is difficult. *British Journal of Anaesthesia*. 2017; 118: 842-3 (Response to Marathe, Poncia & Kasivisvanathan).
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7. Kelly FE, Cook TM. Videolaryngoscopy: after availability, training and experience are needed. (Response to Chang) *British Journal of Anaesthesia*. 2017; 119: 551
<https://academic.oup.com/bja/article-abstract/118/4/593/3574500/A-national-survey-of-videolaryngoscopy-in-the?redirectedFrom=fulltext#usercomments>
8. Kelly FE, Cook TM. Front Of Neck Airway: The importance of the correct (obese) models and (trained) participants in study design. *Anesthesiology* 2017; 126: 986-7
9. Cook TM, Kelly F. Efficacy and safety. Time to re-evaluate use of use of first generation supraglottic airway devices in paediatric anaesthesia. *Anaesthesia* 2017; 72; 537–547 (response to Montague and Haloran) <http://www.respond2articles.com/ANA/forums/thread/2325.aspx>
10. Perkins GD, Nolan JP, Finn J. Epinephrine in out-of-hospital cardiac arrest – authors reply. *N Engl J Med* 2019; 380: 397–8.
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<http://www.respond2articles.com/ANA/forums/thread/2270.aspx>
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15. Cook TM Response to: Emergency front-of-neck-access: scalpel and cannula – and the parable of Buridan’s ass. *British Journal of Anaesthesia*. 2017; 119: 840-1. (Reply to Greenland and Irwin) <https://academic.oup.com/bja/article/118/6/811/3829424/Emergency-frontofneck-access-scalpel-or-cannulaand#usercomments>
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21. Kelly FE, Cook TM, Foy K, Mew E, Bower J, Dean S, Knight P, Marden B. Paediatric intensive care and neonatal intensive care airway management in the United Kingdom: the PIC-NIC survey. (Response to Wyllie et al.) *Anaesthesia* <http://www.respond2articles.com/ANA/forums/thread/2677.aspx>
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23. Cook TM, Boniface NJ, Seller C, Kelly FE. Universal videolaryngoscope- the importance of choosing the right device. Reply to Caldironi. *British Journal of Anaesthesia* 2019; 122: e59-e60
24. Cook TM, Harrop-Griffiths W, Whitaker D, McNarry A, Patel A, McGuire B. The 'no trace: wrong place' campaign. *British Journal of Anaesthesia* 2019; 122: e68-e69

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25. EC Reynolds EC, Crowther N, Corbett L, Cominos T, Thomas V, Cook TM, Kelly FE. Improving technique and success with the C-MAC D blade: development and dissemination of the 'Bath C-MAC D Blade Guide'. Anaesthesia submitted Oct 2018
26. Nimmo A, Absolon A, Cook TM etc Reply to TIVA guidelines Whitaker. Submitted to Anaesthesia 2018 Dec
27. Nimmo A, Cook TM. Neuromuscular management and guidelines for the safe practice of total intravenous anaesthesia (TIVA). Submitted to Anaesthesia March 2019.
28. Adchary K, Georgiou A, Kerslake I, Cook TM. troponin and MINS in emergency laparotomy patients. Submitted BJA March 2019

PRIZES and AWARDS

1. Tom Cloke, 2nd prize runner SWACA Cheltenham Jan 2019
Paediatric airway workshop presentation
2. Lesley Jordan. Top ten audit and QI posters WSM Jan 2019.
Improving outcome from emergency laparotomy using quality improvement methodology to sustain implementation of an emergency laparotomy care bundle. Anaesthesia/ volume 74/ supplement 2 <https://onlinelibrary.wiley.com/toc/13652044/2019/74/S2>
3. Chris Gough – Best DAS trainee. DAS Nov 2018
Optimising eFONA training in obese patients: RCT comparing a novel synthetic 'obese neck' manikin with 'slim neck' and 'meat modified' manikins.
4. Chris Gough –2nd best presentation overall DAS Nov 2018
Optimising eFONA training in obese patients: RCT comparing a novel synthetic 'obese neck' manikin with 'slim neck' and 'meat modified' manikins.
5. Cloke TE, Hearne B, Chima N, Perkins K, Jordan L. 3rd best poster COMMA/POAG November 2018. Implementation of enhanced recovery pathway for elective caesarean sections.
6. Analgesia in Patients Presenting with Neck of Femur Fractures. Fawcett C, Giddins M, Pope C, Edwards R. University of Bristol "Excellence in Medicine" conference for the best 4th and 5th year SSc project (1st prize)
7. Mullins A, Selby V, Hamilton C, Jordan L, Buckingham G, Edmonds C, Greenman D. Winner best poster Quality & Safety Conference: Achieving Better Care. Taunton 2018. Improvement in early detection and prompt treatment of Sepsis in inpatients trust wide.
8. Lesley Jordan and others: regional work with the West of England AHSN. Winner BMJ Patient Safety Team of the Year AND Patient Safety Care Award in 2018. Improving detection and

response to the deteriorating patient across sectors.

9. Navreen Chima - Education prize APAGBI Liverpool May 2018. Paediatric airway workshop training: a collaborative approach between two paediatric tertiary centres and a district general hospital.
10. Fiona Kelly, Lesley Jordan. Education Finalist BMJ awards (highly commended) May 2018 Bath tea trolley training.
11. Lesley Jordan, Tim Cook. Anaesthesia & perioperative team of the year Finalist BMJ awards May 2018. Emergency laparotomy.
12. Charlie Pope - Guy Jordan Prize SICOWE Jan 2018 Noise level Optimisation in the Intensive Care Environment (NOICE).
13. Tim Cook, AAGBI anniversary medal, AAGBI Jan 2018
14. Lesley Jordan. Finalist HSJ awards 2017. Emergency laparotomy collaborative.
15. Ben Plumb, Bronze medal, DAS trainee essay, Nov 2017 Airway and innovation
16. Katie Foy, 2nd best poster, SASWR, Bristol, Nov 2017 National Survey of Airway Management & Capnography in UK Paediatric & Neonatal Intensive Care- the PICNIC Survey
17. Katie Foy. 2nd best poster. British Association of Perinatal Medicine, Birmingham Sept 2017 National Survey of Airway Management & Capnography in UK Paediatric & Neonatal Intensive Care- the PICNIC Survey
18. Matt Aldridge. In top 20 posters DAS London Nov 2017. Aldridge M, Reynolds E, Ballisat B, Kangesan I, Cook TM, Kelly FE. Development and evaluation of a handbook for out of theatre airway workshops, designed to standardize teaching and assist organization. RCoA Airway Leads Meeting, London,
19. Jordan L. Shortlisted for Quality Lead of Year, Patient Safety Care Awards July 2017. Improvement in Patient Safety Trust-wide using Quality Improvement Methodology.
20. Jordan L and others. Shortlisted finalist: improving Theatre Safety. Patient Safety Care Awards July 2017. Emergency Laparotomy Collaborative.

e-learning and internet educational resources

1. Kelly F. Contributor to Royal College of Physicians document “Never no time to learn” Bassher et al December 2018 with section 2 about tea trolley training <https://www.rcplondon.ac.uk/projects/outputs/never-too-busy-learn-how-modern-team-can-learn-together-busy-workplace>
2. Combining the day job with time for training and tea. F. Kelly, L. Jordan, M. McDonald . BMJ Opinion July 2018. <https://blogs.bmj.com/bmj/2018/07/23/combining-the-day-job-with-time-for-training-and-tea/>
3. Stuart Younie. Article about our out of theatre airway workshops, DAS newsletter, 2018.
4. Sarah Wickenden, Chris Gough. Proning tea trolley blog ICM management April 2018 <https://healthmanagement.org/c/icu/post/tea-trolley-teaching-the-what-why-and-benefits>
5. Wood D. RCoA e-learning module. Pharmacokinetics: Absorption and Bioavailability. <https://portal.e-lfh.org.uk/Component/Details/555538>
6. Kelly FE . Human factors in airway management. On line resources MOOC (Massive Open Online Course) in collaboration with UCLH
7. Cook TM. What NAP4 has told us about airway management. Interview. On line resources MOOC (Massive Open Online Course) in collaboration with UCLH
8. Karnali S, Cook TM. Improving airway management practices outside the operating theatre. On line resources MOOC (Massive Open Online Course) in collaboration with UCLH
9. Cook TM. NAP6: Perioperative Anaphylaxis May 2018 TopMedTalks http://topmedtalk.libsyn.com/rcoa-8-nap6-perioperative-anaphylaxis?tdest_id=708294
10. Cook TM and Harrop-Griffiths W. Should direct laryngoscopes be consigned to the history books? Topmedtalks May 2018 <https://www.topmedtalk.com/rcoa-12-should-direct-laryngoscopes-be-consigned-to-the-history-books/>
11. TM Cook. Medicolegal airway cases in UK: Lessons learnt <http://esa-webcast.key4events.com/poster/1618>
12. TM Cook. The national audit project (NAP) – a different sort type of big data research. <http://esa-webcast.key4events.com/poster/1427>
13. TM Cook. No trace= Wrong place. You-tube campaign for DAS and RCoA <https://www.youtube.com/watch?v=t97G65bignQ&t=>

Other

1. The 6th National Audit Project: Perioperative Anaphylaxis. Harper N, **Cook TM**. Bulletin July 2017; 104: 36-7
2. The launch of NAP6 and topic for NAP7 announced. **Cook TM**. Bulletin of RCoA. Sept 2018.
3. Musings of a below average registrar. **Cook TM**. Anaesthesia News Sept 2018.

Academic PRESENTATIONS

1. Le Fevre. A trial comparing emergency Front of Neck Airway performance in a novel obese-synthetic neck, meat-modified obese neck and conventional slim manikin. SASWR Dec 2018.
2. Oglesby F, Armstrong RA. National Audit Project 7 (NAP7) topic proposal: Cardiac arrest in the perioperative period. Royal College of Anaesthetists, June 2018.
3. Walkden GJ, Anderson EL, Vink MP, Tilling K, Howe LD & Ben-Shlomo Y. Frailty in older-age European migrants: cross-sectional and longitudinal analyses of the Survey of Health, Aging and Retirement in Europe (SHARE). World Congress on Migration, Ethnicity, Race and Health, Edinburgh International Conference Centre, Edinburgh, UK. 18th May 2018.
4. Cloke T etc Paediatric airway workshop in Bath, SWACA Cheltenham Jan 2019. (Runner up in trainee prize.)
5. Jordan L, Cook T. Emergency laparotomy bundles and outcomes. Anaesthesia and Perioperative team of the year awards. BMJ Awards, London, May 2018 (Shortlisted)
6. Kelly F. Tea trolley training. Education awards. BMJ awards, London May 2018. (Highly commended)
7. Gough C. Optimising eFONA training in obese patients: RCT comparing a novel synthetic 'obese neck' manikin with 'slim neck' and 'meat modified' manikins. DAS, Edinburgh Nov 2018. (Won trainee prize and runner up in DAS overall presentation prize).
8. Le Fevre P, Gough C, Hearne B, Corbett L, Cook TM, Kelly FE. A trial comparing emergency Front of Neck Airway performance in a novel synthetic 'obese neck', meat-modified and conventional manikin. Presented by P Le Fevre. SASWR Bath Dec 2018
9. Chima N, Cloke T, Pope C, Younie S, Bayley G, White MC, Seal P, Bradley A, Kelly FE. Paediatric airway workshop training: a collaborative approach between two paediatric tertiary centres and a district general hospital. Association of Paediatric Anaesthetists, Liverpool, May 2018. (Won education prize).
10. Aldridge M, Reynolds E, Ballisat B, Kangesan I, Cook TM, Kelly FE. Development and evaluation of a handbook for out of theatre airway workshops, designed to standardize teaching and assist organization. RCoA Airway Leads Meeting, London, March 2018
11. Younie S, Kelly FE, Bayley G, White MC, Seal P, Bradley A, Cloke T, Chima N, Pope C. Paediatric airway workshop training: a collaborative approach between two paediatric tertiary centres and a district general hospital. RCoA Airway Leads Meeting, London, March 2018
12. Pope C. Penketh J, Pope CA, Serrano-Ruiz A, Lee S, Laidler P, Padkin A. Noise level Optimisation in the Intensive Care Environment (NOICE). SICOWE Jan 2018 (won Guy Jordan Prize)

13. Mew E, Foy KE, Cook TM, Bower J, Knight P, Dean S, Herneman K, Marden B, Kelly FE. National Survey of Airway Management & Capnography in UK Paediatric & Neonatal Intensive Care- the PICNIC Survey. by Dr Mew, ESPNIC, June 2017.
14. Riley E. Trachy Tracey. Regional tracheostomy meeting autumn 2017
15. Kelly F. Airway management in NICU and PICU. RUH Paediatric meeting May 2017
16. Kerton MSC, Jones A, Gough C, Hardy R, Kelly FE. Paediatric Anaphylaxis tea trolley. SASWR Cheltenham May 2017
17. Kendall A, Gough C, Cook TM. Phaeochromocytoma. SICOWE Feb 2017
18. Analgesia in Patients Presenting with Neck of Femur Fractures. Fawcett C, Giddins M, Pope C, Edwards R. University of Bristol "Excellence in Medicine" conference for the best 4th and 5th year SSc project (1st prize)

Submitted

19. Jones AL, Ku T, Padkin AJ, Price J, Kelly FE. Using tea trolley training to improve anaesthetists' preparedness for electronic preparedness. Submitted to SEA-UK, Edinburgh, May 2019

Posters

1. Oglesby F, Armstrong RA, Soar J. NAP7 Perioperative Cardiac Arrest: Anaesthetists Attitudes and Perceptions. AAGBI Winter Scientific Meeting, January 2019.
2. Hearne BJ, Cominos T, Pope C, Chai J, Mew E, Gupta KJ, Kelly FE. Improving the safe use of neuromuscular blocking agents: multidisciplinary neuromuscular blockade training in the workplace using the 'Bath tea trolley' approach. Difficult Airway Society meeting, Edinburgh November 2018.
3. Crowther N, Reynolds E, Corbett L, Cominos T, Thomas V, Cook TM, Kelly FE. D blade Tea trolley GAT Glasgow 2018
4. Jones AL, Ku T, Padkin AJ, Price J, Kelly FE. Using tea trolley training to improve anaesthetists' preparedness for electronic preparedness. SASWR Bath, Dec 2018
5. Hearne BJ, Cominos T, Pope C, Chai J, Mew E, Gupta KJ, Kelly FE. Improving the safe use of neuromuscular blocking agents: multidisciplinary neuromuscular blockade training in the workplace using the 'Bath tea trolley' approach. SASWR Bath, December 2018.

6. Younie S, Kelly FE, Hersch P, Book and Cook TM. Introducing perioperative high flow nasal oxygen at the royal united hospital with a multidisciplinary teaching programme. DAS Edinburgh 2018
7. Oglesby F, Catrin-Cook S, Kelly FE, Marsh C. Amniotic Fluid Embolus in the Absence of Disseminated Intravascular Coagulation and Respiratory Failure: A Diagnostic Challenge. COMMA, Taunton, Nov 2018
8. Storey M, Hardy R, Kelly FE. Multidisciplinary malignant hyperpyrexia training in the workplace for anaesthetists and anaesthetic assistants. AAGBI annual congress, Dublin, Sept 2018.
9. Penders R, Younie S, Kelly FE. Keep calm and drink tea: Introduction of HFNO in Bath. SASWR Taunton, May 2018
10. Barnes S, Macdonald M, Kelly FE. Positivity in Anaesthesia: improving feedback, morale and resilience in our anaesthetic department SASWR Taunton May/June 2018
11. Crowther N. D blade Tea trolley. SASWR Taunton May 2018
12. Cloke T. Airway workshop handbook, SASWR Bristol Nov 2017
13. Foy K, Mew E, Bower J, Cook TM, Knight P, Dean S, Henergen K, Kelly FE. A survey of UK paediatric and neonatal intensive care airway management: the PICNIC study. SASWR Bristol Nov 2017
14. Barnes S, Macdonald M, Kelly FE. Positivity in Anaesthesia: improving feedback, morale and resilience in our anaesthetic department. GAT Glasgow 2018
15. Kangesan I, Kelly FE, Cox S, Gittins M, Manhi S, Bearcroft N, Quinn D, Byrn G, Odedra H, Brewer M, Owen-James D, Wheatley L. Using 'Parent Pagers' to make it easier to contact parents in the theatre recovery ward: better for children, parents, recovery staff and childrens' ward staff. APA, Liverpool, May 2018
16. Oglesby F, Cook SC, Kelly FE, Marsh C. Amniotic Fluid Embolus in the Absence of Disseminated Intravascular Coagulation and Respiratory Failure: A Diagnostic Challenge South West Obstetric Anaesthetic Meeting, November 2018.
17. Aldridge M, Reynolds E, Ballisat B, Kangesan I, Kelly F, Cook TM. Development and evaluation of a handbook for out of theatre airway workshops, designed to standardize teaching and assist organization. DAS London Nov 2017. (One of top 20 posters).
18. Kerton M, Paeds anaphylaxis tea trolley. APA
19. Foy K, Mew E, Bower J, Cook TM, Knight P, Dean S, Henergen K, Kelly FE. A survey of UK paediatric and neonatal intensive care airway management: the PICNIC study. British Association of Perinatal Medicine, Birmingham Sept 2017 (2nd Prize)

20. Aldridge M, Reynolds E, Ballisat B, Kangesan I, Cook TM, Kelly FE. Development and evaluation of a handbook for out of theatre airway workshops, designed to standardise teaching and assist organisation. DAS 2017.
21. Duggan LV, Lockhart SL, O'Sullivan E, Cook TM, Dare D, Baker PA. The Airway App: an innovative tool for capturing data on rare high risk airway procedures worldwide. DAS 2017.
22. FE Kelly, M Aldridge, E Reynolds, B Ballisat, I Kangesan, TM Cook. Development and evaluation of a handbook for out of theatre airway workshops, designed to standardise teaching and assist organisation. Airway leads day March 2018
23. Walker E, Cook TM, Moonesinghe R. Accidental Awareness during General Anaesthesia: a secondary analysis of the 1st Sprint National Anaesthesia Project and comparison with cases reported to the 5th National Audit Project. SASWR, Bath 2018
24. Jordan L, Peden C, Cook TM, Cook S. Improving outcome from emergency laparotomy using quality improvement methodology to sustain implementation of an emergency laparotomy care bundle. WSM Jan 2019. Shortlisted for audit and QI prize – top 10.
25. Awan R, Jordan L. The introduction of frailty scores for elderly patients undergoing elective surgery. Quality & Safety Conference: Achieving Better Care, Taunton 2018
26. Selby V, Lynch C, Jordan L, Davies J, Bond B. Reduction of Inpatient Acquired AKI using Quality Improvement methodology to increase awareness and improve routine processes. Bristol Patient Safety Conference, Bristol May 2017
27. Jordan L, Selby V, Edmonds C, Greenman D. Improving early detection and management Sepsis following 'Just Say Sepsis' NCEPOD report' NCEPOD 30 year celebration meeting 2018
28. Cowey S, Nickell K, Lynch C, Selby V, Jordan L. Improving the management of maternal sepsis by rapid spread of multidisciplinary training following new NICE guidance.' Presented at Obstetric Conference 2017.
29. Walkden GJ, Pickering AE & Gill H. Studying long-term neuro-developmental outcome following general anaesthesia in early childhood – a systematic review of the evidence to identify challenges and solutions. Wellcome Trust Molecular Neurodegeneration Workshop 2019, Cambridge, United Kingdom. 14th – 19th January 2019.
30. Walkden GJ, Pickering AE & Gill H. Studying long-term neuro-developmental outcome following general anaesthesia in early childhood – a systematic review of the evidence to identify challenges and solutions. European Society for Paediatric Anaesthesiology / International Assembly of Paediatric Anaesthesiology Congress 2018, Brussels, Belgium. 6th – 8th September 2018.
31. Walkden GJ, Anderson EL, Vink MP, Tilling K, Howe LD & Ben-Shlomo Y. Frailty in older-age European migrants: cross-sectional and longitudinal analyses of the Survey of Health, Aging and Retirement in Europe (SHARE). Population Health Science Institute Annual Symposium, University

Abstracts

Oglesby F, Armstrong RA, Soar J. Perioperative Cardiac Arrest: Anaesthetists Attitudes and Perceptions. *Anaesthesia: Abstracts of WSM 2019*; 74(Suppl.2); 73.

Jordan L, Peden C, Cook TM, Cook S. Improving outcome from emergency laparotomy using quality improvement methodology to sustain implementation of an emergency laparotomy care bundle. *WSM Jan 2019. Anaesthesia: Abstracts of WSM 2019*; 74(Suppl.2); 73

<https://onlinelibrary.wiley.com/toc/13652044/2019/74/S2>

Books

1. *Anaesthesia, surgery and Life-threatening allergic reactions. Report and Findings of the Sixth National Audit Project of the Royal College of Anaesthetists*. Editors Cook TM, Harper NJN. May 2018. ISBN 978-1-900936-18-7 Royal College of Anaesthetists. London
2. *Challenging Concepts in Critical Care*. Oxford University Press, Oxford, Barnett J, Gough CJR, Nolan JP, Cook TM (editors) in press.
3. *Core Topics in Airway Management 3rd Edition*. Eds Cook TM, Kristensen M. Cambridge University press. (In prep)

Chapters

1. Acute Pancreatitis and Renal Replacement Therapy. C Lobo, M Thomas, KJ Gupta. In: *Challenging Concepts in Critical Care*. Oxf Univ Press, Oxford, 2019 (in press).
2. Acute Pancreatitis and Renal Replacement Therapy. C Lobo, M Thomas, KJ Gupta. In: *Challenging Concepts in Critical Care*. Oxf Univ Press, Oxford, 2019 (in press).

3. Acute Pancreatitis and Renal Replacement Therapy. C Lobo, M Thomas, KJ Gupta. In: Challenging Concepts in Critical Care. Oxf Univ Press, Oxford, 2019 (in press).
4. Hamilton M and Price J. 'Doppler' in Waldmann, C. Rhodes, A. Soni, N. and Handy, J. (eds) Oxford Desk Reference: Critical Care 2019, Oxford University Press (in preparation).
5. Price J and Grier S. 'Transfers' in Gilbert-Kwai E, Waldmann C and Dutta D (eds) Intensive Care Medicine - the essential guide 2019, Cambridge University Press (in preparation)
6. Price J and Grier S. Mass casualty management' in Gilbert-Kwai E, Waldmann C and Dutta D (eds) Intensive Care Medicine - the essential guide 2019, Cambridge University Press (in preparation)
7. Ray A, Paulich S, **Nolan JP**. Targeted temperature management after cardiac arrest: where are we now?, in Vincent J-L (editor), Annual Update in Intensive Care and Emergency Medicine 2019, Switzerland, Springer-Verlag, 2019, pp . ISBN 978-3-030-06067-1.
8. **Nolan J**. Defibrillation, in Waldmann C, Soni N, Rhodes A (editors), Oxford Desk Reference Critical Care 2nd Edition, Oxford, Oxford University Press, 2019, pp 56-8. ISBN 978-0-19-872356-1.
9. **Nolan J**. Basic and advanced resuscitation, in Waldmann C, Soni N, Rhodes A (editors), Oxford Desk Reference Critical Care 2nd Edition, Oxford, Oxford University Press, 2019, pp 258–61. ISBN 978-0-19-872356-1.
10. **Nolan J**. Post-cardiac arrest management, in Waldmann C, Soni N, Rhodes A (editors), Oxford Desk Reference Critical Care 2nd Edition, Oxford, Oxford University Press, 2019, pp 262–7. ISBN 978-0-19-872356-1.
11. **Nolan JP**. Anaesthesia and neuromuscular block. In, Brown MJ, Sharma P, Mir FA, Bennett PN, (eds), Clinical Pharmacology 12E, Edinburgh, Elsevier, 2019, pp 308–323. ISBN 978-0-7020-7328-1.
12. Perkins GD, Soar J, **Nolan JP**, Gabbott DA. Chapter 17.2 Cardiac arrest. In Firth JD, Conlon C, Cox TM, editors, Oxford Textbook of Medicine 6th Edition, Oxford University Press, Oxford, 2018, in press.
13. Gough CJR, **Nolan JP**. Outcome after cardiopulmonary resuscitation, in Vincent J-L (editor), Annual Update in Intensive Care and Emergency Medicine 2018, Switzerland, Springer-Verlag, 2018, pp 155–164. ISBN 978-3-319-73669-3.
14. **Nolan JP**. Advanced life support, in Hardman JG, Hopkins PM, Struys MMRF (editors), Oxford Textbook of Anaesthesia, Oxford, Oxford University Press, 2017, pp 1551–1569. ISBN 978-0-19-870848-3
15. Gough CJR, **Nolan JP**. Airway and ventilation during cardiopulmonary resuscitation, in Vincent J-L (editor), Annual Update in Intensive Care and Emergency Medicine 2017, Berlin, Springer-Verlag, 2017, pp 223–236. ISBN 978-3-319-51907-4

16. **Nolan JP.** Cardiovascular emergencies (Chapter 2), in Allman KG, McKindoe AK, Wilson IH (eds) Oxford Handbook of Emergencies in Anaesthesia 3rd Edition, Oxford, Oxford University Press, in press.
 17. **Nolan JP, Soar J.** Cardiopulmonary resuscitation. In Rutty GN (editor) Essentials of autopsy practice. Springer International Publishing AG, Switzerland, 2017, pp 111–156. ISBN 978-3-319-46997-3.
 18. **Nolan J.** Major Trauma. In Lin T, Smith T, Pinnock C (eds), Fundamentals of Anaesthesia, 4th edition. Cambridge University Press, Cambridge, 2017, pp 195–209. ISBN 978-1-107-61238-9.
 19. Ray A, **Cook TM.** Complications of airway management. In "Vía Aérea para Todos" ("Airway for All"). Edited by R Uturbia.
 20. **Cook TM.** Complications of Anaesthesia and the Perioperative Period. In Lee's Synopsis of Anaesthesia 14th Edition, Editors: Jeremy Cashman, Judith Dinsmore, Elsevier India August 2017 eBook ISBN: 9788131248614 Paperback ISBN: 9788131248607
 21. Lindsay HA, **Cook TM, Russo S, Hagberg CA** Supraglottic Airway Techniques: Laryngeal Mask Airways.. In Benumof and Hagberg's airway Management 4th edition. 2018. Elsevier, ISBN 978-0-323-42881-1
- Tim Cook in
Anaesthesia, surgery and Life-threatening allergic reactions. Report and Findings of the Sixth National Audit Project of the Royal College of Anaesthetists. Editors Cook TM, Harper NJN. May 2018. ISBN 978-1-900936-18-7 Royal College of Anaesthetists. London
22. Introduction (Nigel Harper)
 23. Key findings and recommendations (with Nigel Harper)
 24. Methods (with Nigel Harper)
 25. Summary of main findings (with Nigel Harper)
 26. The Baseline survey: perspectives and experiences of perioperative anaphylaxis before NAP6 (with Harriet Kemp, Mark Thomas and Nigel Harper)
 27. The Activity Survey: anaesthetic practice (with Harriet Kemp, Susana Marinho and Nigel Harper)
 28. The Allergen Survey: perioperative drug exposure (with Susana Marinho, Harriet Kemp and Nigel Harper)
 29. Immediate management and departmental organisation (with Harriet Kemp, Susana Marinho and Nigel Harper)
 30. Deaths, cardiac arrests, profound hypotension and outcomes
 31. Allergy clinic baseline survey: provision of specialist allergy clinic services (with Bill Egner, Nigel Harper and Tomasz Garcez)
 32. Paediatric anaesthesia (with Mark Thomas and Nigel Harper)
 33. The independent sector (with Alan McGlennan)
 34. Reporting and learning (with Neil McGuire and Nigel Harper)
35. **Cook TM.** Airway management. In Textbook of anaesthesia. Aitkenhead, Moppett, Thompson. Due 2019.

In progress

36. Jordan L. Chapters for RCoA QI recipe book. to be launched 2019
37. Cook TM. Supraglottic airway devices. Key topics in airway Management. Eds TM Cook, M Kristensen. Cambridge University press. Due 2019.
38. Cook TM, Huitink H. Epidemiology of airway complications. Key topics in airway Management. Eds TM Cook, M Kristensen. Cambridge University press. Due 2019.
39. Theiler L, Cook TM, Aziz M. Videolaryngoscopes. Key topics in airway Management. Eds TM Cook, M Kristensen. Cambridge University press. Due 2019.

Lectures

1. Kim Gupta. Monitoring Neuromuscular Blockade – Why Bother? The Society of Anaesthetists of the South Western Region, Autumn Meeting Dec 2018. Invited lecture.
2. Kim Gupta. 10-Year experience as a Clinical Lead for Organ Donation. South West Organ Donation Regional Collaborative Meeting. November 2018. Invited lecture.
3. Price J. Restrictive Fluid Strategies. SICOWE Jan 2019.

A Goodwin

4. How to be number one on the day. GAT Consultant Interview. AAGBI London June 2018
5. Acid Base balance 1. FRCA Final revision Course January 2018 London
6. Acid base balance 2 & 2. FRCA Final revision Course January 2018 London
7. Learning from Death. Association of Anaesthetists Annual Congress, Dublin Sept. 2018
8. Leaders are born not made. Association of Anaesthetists Annual Congress, Dublin Sept. 2018
9. Endocrine Challenges for Anaesthetists. FRCA Final Revision Course January 2019 London

F Kelly

10. HF and resilience in anaesthesia, RCoA updates in anaesthesia, critical care and pain management meeting, Sept 2018
11. Human Factors in airway management. DAS Nov 2017.
12. Resilience in ICU. SICOWE Jan 2019.
13. HF in airway disasters, SASWR Bath Dec 2018
14. Learning from success. Safer Anaesthesia Symposium RCoA April 2017.
15. HFE group update, DAS Edinburgh, Nov 2018
16. Universal VL – talk at Reading anaesthetic dept, Nov 2018

C Marsh

17. RCoA Final FRCA Course - Anaesthesia for operative Obstetrics
18. RCoA Final FRCA Course - Pain Relief in Labour
19. AAGBI Core Topics - Peri-operative complications in anaesthesia - Obstetrics
20. South West Haemostasis and Thrombosis Meeting - TEG in Obstetric Practice
21. Royal College of Midwives - Regional Maternal Medicine Study Day - Critical Care in Obstetrics

22. Reproductive Health & Childbirth Research Symposium - Clinical Research Network West of England - Collaborative Working - Works.

L Jordan

23. Measurement for Improvement. Royal College of Anaesthetists, London. 2017
24. Emergency Laparotomy and Sustainability. AHSN Laparotomy workshop, Bristol 2017
25. Implementation of an Emergency Laparotomy Bundle. ELC Cymru launch 2018
26. Achieving outstanding levels of safety in the operating theatre. Effective Operating Theatre Summit, London 2018
27. Tea trolley training. Swindon Quality Improvement conference 2018
28. An unusual presentation of chest pain. COMMA/POAG meeting 2018
29. Improving Theatre Safety with focus on the Debrief. Quest Theatre Safety Community events 2018 - 2019
30. Improved outcome from Emergency Laparotomy by reliable implementation of an Emergency Laparotomy bundle. RUH QI Showcasing event.
31. Reduction in Inpatient Acquired Acute Kidney Injury using Quality Improvement Methodology. Quality & Safety Conference: Achieving Better Care, Taunton 2018
32. Think sepsis: early identification and treatment to save lives. Presentation GP forum 2017
33. Increasing capability and capacity In Quality Improvement trust wide. NHS Improvement QSIR College Celebration event, London 2017

J Nolan

34. Conducting clinical trials in resuscitation The Association of Anaesthetists of Great Britain and Ireland Winter Scientific Meeting, London January 2017
35. CPR- New Aspects 37th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2017
36. Airway management during CPR 37th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2017
37. Outcome after out-of-hospital cardiac arrest: present status 37th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2017
38. CPR - past, present and future Bristol University Emergency Medicine Society Conference, March 2017
39. Airway management... not again! 11th International Spark of Life Conference, Adelaide, Australia, May 2017
40. What did the British ever do for Resuscitation? 11th International Spark of Life Conference, Adelaide, Australia, May 2017
41. Drugs are a waste of time: Pro 11th International Spark of Life Conference, Adelaide, Australia, May 2017
42. The real cost of Resuscitation? 11th International Spark of Life Conference, Adelaide, Australia, May 2017
43. Non-maleficence: when to stop resuscitation? Euroanaesthesia 2017, Congress of the European Society of Anaesthesia, Geneva, Switzerland, June 2017.
44. Non-invasive ventilation in CPR Euroanaesthesia 2017, Congress of the European Society of Anaesthesia, Geneva, Switzerland, June 2017.
45. Targeted temperature management after cardiac arrest – where do we stand? European Society of Intensive Care Medicine Lives 2017 Conference, Vienna, Austria Sept 2017

46. Oxygenation and ventilation after ROSC Resuscitation 2017, Congress of the European Resuscitation Council, Freiburg, Germany, Sept 2017
47. What makes a good paper? Resuscitation 2017, Congress of the European Resuscitation Council, Freiburg, Germany, Sept 2017
48. Evidence evaluation Resuscitation 2017, Congress of the European Resuscitation Council, Freiburg, Germany, Sept 2017
49. Outcomes from in-hospital cardiac arrest Resuscitation Council (UK) Scientific Symposium, Birmingham, Nov 2017
50. Prognostication Intensive Care Seminar on Post Cardiac Arrest Care, London, Nov 2017
51. The future of resuscitation Opening of Zoll Headquarters, Runcorn, UK Dec 2017
52. Resuscitation updated RCoA Updates in Anaesthesia, Critical Care and Pain Management, London, UK Feb 2018
53. Post-cardiac arrest management 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2018
54. Airway management during CPR 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2018
55. Remaining controversies 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2018
56. Oxygen targets 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2018
57. Targeted temperature 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2018
58. Long term outcomes after out-of-hospital cardiac arrest 38th International Symposium on Intensive Care and Emergency Medicine, Brussels, Belgium, March 2018
59. Next steps to improve outcome from out-of-hospital cardiac arrest 15th Dutch National Resuscitation Congress, Utrecht, Netherlands, April 2018
60. Airway management during CPR: what does the science tell us? EMS2018 Copenhagen, Denmark, April 2018
61. Cardiac arrest centres: evident or evidence? EMS2018 Copenhagen, Denmark, April 2018
62. The science of resuscitation and prehospital CPR EMS2018 Copenhagen, Denmark, April 2018
63. Hypothermia and cardiac arrest - how difficult was to make recommendations EUROELSO Prague, Czech Republic, May 2018
64. Cardiac arrest trials Severn Trainees Anaesthetic Research (STAR) Group, Bristol, July 2018
65. CPR from 2002 to 2018 Italian Resuscitation Council Annual Meeting, Bologna, Italy Sept 2018
66. Prognostication debate Resuscitation 2018, Congress of the European Resuscitation Council, Bologna, Italy, Sept 2018
67. Monitoring hospital performance Resuscitation 2018, Congress of the European Resuscitation Council, Bologna, Italy, Sept 2018
68. Lessons from the past Resuscitation 2018, Congress of the European Resuscitation Council, Bologna, Italy, Sept 2018
69. Advances in CPR Updates in Anaesthesia, Critical Care and Pain Management, RCoA, London Sept 2018
70. Prognostication Updates in Anaesthesia, Critical Care and Pain Management, RCoA, London Sept 2018
71. CPR Research and Guidelines AIRWAYS-2 Research Meeting, London, Sept 2018

72. Cardiac arrest centres: Do they make a difference? European Society of Intensive Care Medicine Lives 2018 Conference, Paris, France October 2018
73. Airway management in cardiac arrest European Society of Intensive Care Medicine Lives 2018 Conference, Paris, France October 2018
74. The AIRWAYS-2 Trial Resuscitation Science Symposium 2018, Chicago, USA November 2018
75. Research relevant to the National Cardiac Arrest Audit NCAA Annual Meeting, London, November 2018
76. The PARAMEDIC-2 Trial The Society of Anaesthetists of the South Western Region Annual meeting, Bath, December 2018
77. Airway management in cardiac arrest London Cardiac Arrest Symposium, London, December 2018
78. Airway management in cardiac arrest Masterclass London Cardiac Arrest Symposium, London, December 2018
79. Prehospital resuscitation Royal College of Anaesthetists Winter Symposium, London, December 2018
80. AIRWAYS-2 Trial Intensive Care Society SOA18, London, December 2018
81. Outcomes after cardiac arrest Update on Cardiac Arrest, Rome, Italy, December 2018
82. Airway management in cardiac arrest Update on Cardiac Arrest, Rome, Italy, December 2018
83. Targeted temperature management for everyone Update on Cardiac Arrest, Rome, Italy, December 2018
84. Future research in cardiac arrest Update on Cardiac Arrest, Rome, Italy, December 2018
85. Optimal airway management in cardiac arrest Resuscitation and Major Trauma Seminar, Association
86. Adrenaline in cardiac arrest: friend or foe? Resuscitation and Major Trauma Seminar, Association of Anaesthetists, London January 2019
87. The year in review Society of Intensive Care of the West of England (SICOWE) Annual Meeting, Chepstow, January 2019

TM Cook

88. Do we have the tools to make airway management safer? Yorkshire Society of anaesthetists – annual meeting, Leeds, March 2017
89. ICU contribution to the safety of Emergency laparotomy. RCoA Laparotomy RCoA, March 2017
90. NAP4 was a wake up call for anaesthetists 22nd Panhellenic Congress of Anaesthesiology, Athens, Greece, March 2017
91. The DAS 2015 guidelines. 22nd Panhellenic Congress of Anaesthesiology, Athens, Greece, March 2017
92. Do the NAPs have a future? QuARC meeting RCoA, April 2017
93. Have the NAPs taught us anything? ANZCA meeting Brisbane May 2017
94. Thinking Big: getting engagement in major national projects. ANZCA meeting Brisbane May 2017
95. Lessons from NAP5: the patient's perspective. ANZCA meeting Brisbane May 2017
96. The biggest problem for anaesthesia in the next ten years will be.....ANZCA meeting Brisbane May 2017
97. Has airway management become any safer since NAP4? CARE meeting, Warwick, June 2017
98. Universal videolaryngoscopy. UCLH, airway meeting, Sept 2017
- Critical language in airway management. European Airway Conference, Berlin Sept 2017

99. Human factors in airway management. European Airway Conference, Berlin Sept 2017
100. Sacred cows of airway management. European Airway Conference, Berlin Sept 2017
101. Were NAP4 and DAS2015 really a success story? St Gallen airway meeting, St Gallen Switzerland, Nov 2017
102. Healthcare challenges: the NHS perspective. ANZCA NZ ASM meeting Rotarua Nov 2017
103. Difficult airway management. ANZCA NZ ASM meeting Rotarua Nov 2017
104. The National audit project experience. ANZCA NZ ASM meeting Rotarua Nov 2017
105. Is it desirable or practical to have a national airway strategy? DAS 2017 Nov London
106. The DAS-RCoA-ICS-FICM difficult airway guidelines for the critically ill. SICOWE, January, Chepstow
107. New guidance of airway management of the critically ill. RCoA core topics, RCoA London Feb 2018.
108. Capnography during CPR - vital information. Airway leads day, RCoA London, March 2018
109. What have the NAPs ever done for us? RCoA update day, Birmingham, March 2018
110. NAP7 – what are the options? QUARCs day, RCoA London March 2018.
111. Methods. NAP6 launch, RSM, May 2018
112. Deaths, profound hypotension, cardiac arrest and outcomes. NAP6 launch, RSM, May 2018
113. The independent sector. NAP6 launch, RSM, May 2018
114. Debate: It is time to consign direct laryngoscopes to history. Pro (Won!) Anaesthesia 2018, London May 2018
115. The National Audit projects (NAPs): a different type of big data a research. ESA, Copenhagen June 2018
116. Litigation in airway management: Lessons from the UK. ESA, Copenhagen June 2018
117. Medicolegal airway cases. Guy's Advanced airway management course, Guy's Hospital June 2018
118. Is it time for Universal videolaryngoscopy? Western Australian Airway Group, Bali, Indonesia August 2018
119. Panel session: difficult airway cases. Western Australian Airway Group, Bali, Indonesia August 2018
120. The great FONA debate. Western Australian Airway Group, Bali, Indonesia August 2018
121. 6th National audit project: life threatening perioperative anaphylaxis. FICM trainees meeting, Bath, Sept 2018
122. 6th National audit project: life threatening perioperative anaphylaxis. RCoA meeting, London Sept 2018
123. Strategies for avoiding airway complications, RCoA meeting, London Sept 2018
124. Awareness during anaesthesia, nerve injury from epidurals and death during anaesthesia – is anaesthesia safe? Bristol University Inaugural Professorial Lecture, Bristol Oct 2018
125. The National audit projects: a long and winding road. AAGBI ASM Dublin Sept 2018
- Videolaryngoscopy for all? AAGBI ASM Dublin Sept 2018
126. <http://learnataagbi.org/video/play/949?p=MTlvMTEvMjAxOC05NDk=>
127. Emergency Laparotomy – paradise regained? SASWR, Bath Dec 2018
128. Insights and learning from the RCoA NAP6. Norwich Anaesthesia Update, Norwich, Jan 2019
129. Have the NAPs improved safety? RCoA Perioperative Safety meeting Jan
130. Why do the NAPs take so long? Plenary Speaker. RAFT annual meeting, RCoA Feb 1
131. Airways – what's new. Whistler Anesthesia Summit, Canada March 2019.

132. NAP5 – key lessons. Whistler Anesthesia Summit, Canada March 2019.
133. NAP6 – key lessons. Whistler Anesthesia Summit, Canada March 2019.

Media

L Jordan:

Sepsis awareness. Local Radio interview
September 2018

Press releases

Bath chronicle 7 September 2018. 'RUH
shortlisted for three national awards'

Bath Echo march 2017 . 'Staff at Royal United
Hospital in line for four national safety care
awards'

ANZCA meeting May 2017

Professor Tim Cook ANZCA Queensland Visitor
talks to Dr Cath Purdy

<https://www.youtube.com/watch?v=mynaPnm-im4>

A five minute discussion on the past and
future of the National Audit Projects

Thinking Big: getting engagement in national
projects.

Posted on facebook live.

The **NAP6 report** (May 2018)

featured/interviewed on

- BBC World Service: interviewed on News
<https://www.youtube.com/watch?v=3C9V0aQa-VY>
- BBC News Online: Severe allergic
reactions in surgery 'caused by antibiotics
(This was the top health news item on the
BBC website for 24 hours)
- BBC Points west TV: Lead story on the
lunchtime news report
<https://www.youtube.com/watch?v=FF0CpgkPPCc>
- BBC1 Breakfast TV: Breakfast news
- British Medical Journal: Online (possibly
print): Antibiotics are the main cause of
life threatening allergic reactions during
surgery
- The Times (online and print): Dr Mark
Porter: Think you're allergic to antibiotics?

Think again: a mistake could hurt you

- Centre for Infectious Disease and
Research: Antibiotics found to be most
common cause of surgery-related
anaphylaxis
- Medical Laboratory Observer: Severe
allergic reactions in surgery 'caused by
antibiotics
- Medical Brief: Antibiotics the main cause
of anaphylaxis during surgery
- Medscape: Antibiotics Cause Half of
Perioperative Anaphylaxis Cases

PIC-NIC survey. Sick babies at risk from lack of
breathing tube monitoring

BBC website 16 August 2018

<https://www.bbc.co.uk/news/health-45197375>

Several other outlets.

*Airway management in Paediatric and
Neonatal ICUs*

PIC-NIC survey BBC (interview) TM Cook

Local

Universal videolaryngoscopy

BBC Bristol TV News and featured on *BBC
Somerset radio*. Oct 2018

Recent print media

BMA award

<http://m.bathchronicle.co.uk/Royal-United-Hospital-consultant-lands-British/story-27897883-detail/story.html>

Public engagement

2018

No trace = Wrong place campaign

Capnography and avoidable deaths.

An RCoA initiative

Video and you tube

<https://www.youtube.com/watch?v=t97G65bignQ&t=>

6000 views

Contributors 2017-18

Trainees

1. A Ray
2. S Paulich
3. T Cloke
4. T Saunders
5. C Gough
6. P Le Fevre
7. L Corbett
8. B Hearne
9. K Foy
10. M Gibbins
11. E Mew
12. J Bower
13. K Mulcahy
14. L Jones
15. A Jones
16. A Ray
17. F Ogleseby
18. S-C Cook
19. N Boniface
20. S Payne
21. E Riley
22. M Kerton
23. S MacDougall-Davis
24. L Kettley
25. A Looseley
26. E Miles
27. A Pearson
28. N Weale
29. M Gittins
30. R Penders
31. S Gouldson
32. M Storey
33. E Reynolds
34. N Crowther
35. T Cominos
36. N Chima
37. B Plumb
38. M Aldridge
39. B Ballisat
40. I Kangesan
41. J Penketh
42. A Kendall
43. J Chai
44. S Barnes
45. D Quinn
46. G Walkden

SAS doctors

1. T Ku
2. K Achary

Others

1. J Fox
2. C Damen
3. L McDonald
4. J Hughes
5. B Mardenrs
6. A Serrano-Ruiz
7. T Book
8. S Cox
9. M Gittins
10. S Manhi
11. N Bearcroft
12. G Byrn
13. H Odedra
14. M Brewer
15. D Owen-James
16. L Wheatley
17. V Selby
18. C Edmonds
19. D Greenman
20. C Fawcett

Consultants

1. C Seller
2. F Kelly
3. K Howells
4. D Wood
5. L Jordan
6. S Younie
7. T Simpson
8. I Kerslake
9. R Edwards
10. J Price
11. C Marsh
12. A Goodwin
13. J Nolan
14. R Hardy
15. J Barnett
16. K Gupta
17. V Thomas
18. A Padkin
19. M McDonald
20. P Hersch
21. TM Cook

Congratulations and thanks to all.

