

# Gareth L Ackland

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96  
papers

3,977  
citations

30  
h-index

62  
g-index

116  
ext. papers

5,260  
ext. citations

6.6  
avg, IF

5.03  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 96 | Effect of a perioperative, cardiac output-guided hemodynamic therapy algorithm on outcomes following major gastrointestinal surgery: a randomized clinical trial and systematic review. <i>JAMA - Journal of the American Medical Association</i> , <b>2014</b> , 311, 2181-90 | 27.4 | 546       |
| 95 | Myocardial injury after noncardiac surgery: a large, international, prospective cohort study establishing diagnostic criteria, characteristics, predictors, and 30-day outcomes. <i>Anesthesiology</i> , <b>2014</b> , 120, 564-78   | 4.3  | 509       |
| 94 | Association of Postoperative High-Sensitivity Troponin Levels With Myocardial Injury and 30-Day Mortality Among Patients Undergoing Noncardiac Surgery. <i>JAMA - Journal of the American Medical Association</i> , <b>2017</b> , 317, 1642-1651                               | 27.4 | 320       |
| 93 | Assessment of functional capacity before major non-cardiac surgery: an international, prospective cohort study. <i>Lancet, The</i> , <b>2018</b> , 391, 2631-2640  | 4.0  | 186       |
| 92 | Functional Oxygen Sensitivity of Astrocytes. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 10460-73   | 6.6  | 154       |
| 91 | Cardioprotection, attenuated systemic inflammation, and survival benefit of beta1-adrenoceptor blockade in severe sepsis in rats. <i>Critical Care Medicine</i> , <b>2010</b> , 38, 388-94   | 1.4  | 148       |
| 90 | Cardioprotection evoked by remote ischaemic preconditioning is critically dependent on the activity of vagal pre-ganglionic neurones. <i>Cardiovascular Research</i> , <b>2012</b> , 95, 487-94  | 9.9  | 146       |
| 89 | Perioperative Quality Initiative consensus statement on intraoperative blood pressure, risk and outcomes for elective surgery. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 122, 563-574  | 5.4  | 132       |
| 88 | Remote ischaemic pre- and delayed postconditioning - similar degree of cardioprotection but distinct mechanisms. <i>Experimental Physiology</i> , <b>2012</b> , 97, 908-17   | 2.4  | 105       |
| 87 | Chronic kidney disease and postoperative morbidity after elective orthopedic surgery. <i>Anesthesia and Analgesia</i> , <b>2011</b> , 112, 1375-81   | 3.9  | 96        |
| 86 | A Prospective International Multicentre Cohort Study of Intraoperative Heart Rate and Systolic Blood Pressure and Myocardial Injury After Noncardiac Surgery: Results of the VISION Study. <i>Anesthesia and Analgesia</i> , <b>2018</b> , 126, 1936-1945                      | 3.9  | 88        |
| 85 | Individualised oxygen delivery targeted haemodynamic therapy in high-risk surgical patients: a multicentre, randomised, double-blind, controlled, mechanistic trial. <i>Lancet Respiratory Medicine, the</i> , <b>2015</b> , 3, 33-41  | 35.1 | 79        |
| 84 | Mechanisms of CO <sub>2</sub> /H <sup>+</sup> Sensitivity of Astrocytes. <i>Journal of Neuroscience</i> , <b>2016</b> , 36, 10750-10758  | 6.6  | 74        |
| 83 | Understanding gastrointestinal perfusion in critical care: so near, and yet so far. <i>Critical Care</i> , <b>2000</b> , 4, 269-81   | 10.8 | 71        |
| 82 | Effectiveness of a national quality improvement programme to improve survival after emergency abdominal surgery (EPOCH): a stepped-wedge cluster-randomised trial. <i>Lancet, The</i> , <b>2019</b> , 393, 2213-2221   | 4.0  | 70        |
| 81 | Glucagon-like peptide-1 (GLP-1) mediates cardioprotection by remote ischaemic conditioning. <i>Cardiovascular Research</i> , <b>2016</b> , 112, 669-676  | 9.9  | 59        |
| 80 | Association between complications and death within 30 days after noncardiac surgery. <i>Cmaj</i> , <b>2019</b> , 191, E830-E837  | 3.5  | 58        |

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|----|---|------|----|
| 79 | Control of ventricular excitability by neurons of the dorsal motor nucleus of the vagus nerve. <i>Heart Rhythm</i> , <b>2015</b> , 12, 2285-93  | 6.7  | 53 |
| 78 | Inflammation and Epidural-Related Maternal Fever: Proposed Mechanisms. <i>Anesthesia and Analgesia</i> , <b>2016</b> , 122, 1546-53   | 3.9  | 50 |
| 77 | International Consensus Based Review and Recommendations for Minimum Reporting Standards in Research on Transcutaneous Vagus Nerve Stimulation (Version 2020). <i>Frontiers in Human Neuroscience</i> , <b>2020</b> , 14, 568051          | 3.3  | 46 |
| 76 | Preoperative N-Terminal Pro-B-Type Natriuretic Peptide and Cardiovascular Events After Noncardiac Surgery: A Cohort Study. <i>Annals of Internal Medicine</i> , <b>2020</b> , 172, 96-104   | 8    | 43 |
| 75 | Perioperative Quality Initiative consensus statement on postoperative blood pressure, risk and outcomes for elective surgery. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 122, 575-586  | 5.4  | 42 |
| 74 | Preoperative systemic inflammation and perioperative myocardial injury: prospective observational multicentre cohort study of patients undergoing non-cardiac surgery. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 122, 180-187 | 5.4  | 41 |
| 73 | Vagal determinants of exercise capacity. <i>Nature Communications</i> , <b>2017</b> , 8, 15097  | 17.4 | 38 |
| 72 | Myocardial Injury After Noncardiac Surgery (MINS) in Vascular Surgical Patients: A Prospective Observational Cohort Study. <i>Annals of Surgery</i> , <b>2018</b> , 268, 357-363  | 7.8  | 36 |
| 71 | Integration of the Duke Activity Status Index into preoperative risk evaluation: a multicentre prospective cohort study. <i>British Journal of Anaesthesia</i> , <b>2020</b> , 124, 261-270   | 5.4  | 35 |
| 70 | beta1-Adrenoceptor distribution in the rat brain: an immunohistochemical study. <i>Neuroscience Letters</i> , <b>2009</b> , 458, 84-8   | 3.3  | 33 |
| 69 | Redefining the perioperative stress response: a narrative review. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, 570-583  | 5.4  | 31 |
| 68 | Perioperative Quality Initiative consensus statement on preoperative blood pressure, risk and outcomes for elective surgery. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 122, 552-562   | 5.4  | 31 |
| 67 | Perioperative Quality Initiative consensus statement on the physiology of arterial blood pressure control in perioperative medicine. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 122, 542-551                                   | 5.4  | 31 |
| 66 | Perioperative blood transfusion is associated with a gene transcription profile characteristic of immunosuppression: a prospective cohort study. <i>Critical Care</i> , <b>2014</b> , 18, 541   | 10.8 | 29 |
| 65 | Cardiac Vagus and Exercise. <i>Physiology</i> , <b>2019</b> , 34, 71-80   | 9.8  | 29 |
| 64 | Perioperative fluid therapy. <i>BMJ, The</i> , <b>2012</b> , 344, e2865   | 5.9  | 28 |
| 63 | Baroreflex impairment and morbidity after major surgery. <i>British Journal of Anaesthesia</i> , <b>2016</b> , 117, 324-331   | 3.1  | 27 |
| 62 | Preoperative muscle weakness as defined by handgrip strength and postoperative outcomes: a systematic review. <i>BMC Anesthesiology</i> , <b>2012</b> , 12, 1   | 2.4  | 27 |

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|----|---|------|----|
| 61 | Peripheral neural detection of danger-associated and pathogen-associated molecular patterns. <i>Critical Care Medicine</i> , <b>2013</b> , 41, e85-92   | 1.4  | 24 |
| 60 | Molecular Mechanisms Linking Autonomic Dysfunction and Impaired Cardiac Contractility in Critical Illness. <i>Critical Care Medicine</i> , <b>2016</b> , 44, e614-24  | 1.4  | 23 |
| 59 | Astrocytes and Brain Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 903, 201-7   | 3.6  | 22 |
| 58 | Metabolic dysfunction in lymphocytes promotes postoperative morbidity. <i>Clinical Science</i> , <b>2015</b> , 129, 423-37  | 6.5  | 21 |
| 57 | Low-dose propofol infusion for controlling acute hyperspasticity after withdrawal of intrathecal baclofen therapy. <i>Anesthesiology</i> , <b>2005</b> , 103, 663-5   | 4.3  | 21 |
| 56 | Autonomic regulation of systemic inflammation in humans: A multi-center, blinded observational cohort study. <i>Brain, Behavior, and Immunity</i> , <b>2018</b> , 67, 47-53   | 16.6 | 21 |
| 55 | Distinct cardioprotective mechanisms of immediate, early and delayed ischaemic postconditioning. <i>Basic Research in Cardiology</i> , <b>2015</b> , 110, 452   | 11.8 | 20 |
| 54 | Heart rate variability in critical care medicine: a systematic review. <i>Intensive Care Medicine Experimental</i> , <b>2017</b> , 5, 33  | 3.7  | 20 |
| 53 | Low-molecular-weight polyethylene glycol improves survival in experimental sepsis. <i>Critical Care Medicine</i> , <b>2010</b> , 38, 629-36   | 1.4  | 20 |
| 52 | Red nucleus inhibits breathing during hypoxia in neonates. <i>Respiration Physiology</i> , <b>1997</b> , 110, 251-60  |      | 19 |
| 51 | Dehydration induced by bowel preparation in older adults does not result in cognitive dysfunction. <i>Anesthesia and Analgesia</i> , <b>2008</b> , 106, 924-9, table of contents  | 3.9  | 18 |
| 50 | Biomarkers to guide perioperative management. <i>Postgraduate Medical Journal</i> , <b>2011</b> , 87, 542-9   | 2    | 16 |
| 49 | Arterial pulse pressure and postoperative morbidity in high-risk surgical patients. <i>British Journal of Anaesthesia</i> , <b>2018</b> , 120, 94-100   | 5.4  | 14 |
| 48 | Defining higher-risk surgery. <i>Current Opinion in Critical Care</i> , <b>2010</b> , 16, 339-46  | 3.5  | 14 |
| 47 | Subclinical cardiopulmonary dysfunction in stage 3 chronic kidney disease. <i>Open Heart</i> , <b>2016</b> , 3, e0003703  |      | 12 |
| 46 | Post-operative immune suppression is mediated via reversible, Interleukin-10 dependent pathways in circulating monocytes following major abdominal surgery. <i>PLoS ONE</i> , <b>2018</b> , 13, e0203795                                  | 3.7  | 12 |
| 45 | Early elevation in plasma high-sensitivity troponin T and morbidity after elective noncardiac surgery: prospective multicentre observational cohort study. <i>British Journal of Anaesthesia</i> , <b>2020</b> , 124, 535-543             | 5.4  | 11 |
| 44 | Cardiac vagal dysfunction and myocardial injury after non-cardiac surgery: a planned secondary analysis of the measurement of Exercise Tolerance before surgery study. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 122, 188-197 | 5.4  | 11 |

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|----|---|-----|----|
| 43 | Cardiopulmonary exercise capacity and preoperative markers of inflammation. <i>Mediators of Inflammation</i> , <b>2014</b> , 2014, 727451   | 4.3 | 10 |
| 42 | MicroRNA signatures of perioperative myocardial injury after elective noncardiac surgery: a prospective observational mechanistic cohort study. <i>British Journal of Anaesthesia</i> , <b>2020</b> , 125, 661-671                              | 5.4 | 9  |
| 41 | Knowing the risk? NCEPOD 2011: a wake-up call for perioperative practice. <i>British Journal of Hospital Medicine (London, England: 2005)</i> , <b>2012</b> , 73, 262-4   | 0.8 | 8  |
| 40 | Negative pressure pulmonary edema as an unsuspected imitator of acute lung injury/ARDS. <i>Chest</i> , <b>2005</b> , 127, 1867-8  | 5.3 | 8  |
| 39 | Optogenetic Stimulation of Vagal Efferent Activity Preserves Left Ventricular Function in Experimental Heart Failure. <i>JACC Basic To Translational Science</i> , <b>2020</b> , 5, 799-810   | 8.7 | 8  |
| 38 | Selective optogenetic stimulation of efferent fibers in the vagus nerve of a large mammal. <i>Brain Stimulation</i> , <b>2021</b> , 14, 88-96   | 5.1 | 8  |
| 37 | Heart rate recovery and morbidity after noncardiac surgery: Planned secondary analysis of two prospective, multi-centre, blinded observational studies. <i>PLoS ONE</i> , <b>2019</b> , 14, e0221277  | 3.7 | 7  |
| 36 | Perioperative management of angiotensin-converting enzyme inhibitors and/or angiotensin receptor blockers: a survey of perioperative medicine practitioners. <i>PeerJ</i> , <b>2018</b> , 6, e5061  | 3.1 | 7  |
| 35 | Uncontrolled sepsis: a systematic review of translational immunology studies in intensive care medicine. <i>Intensive Care Medicine Experimental</i> , <b>2014</b> , 2, 6   | 3.7 | 7  |
| 34 | Postoperative goal-directed therapy and development of acute kidney injury following major elective noncardiac surgery: post-hoc analysis of POM-O randomized controlled trial. <i>CKJ: Clinical Kidney Journal</i> , <b>2017</b> , 10, 348-356 | 4.5 | 6  |
| 33 | Acquired loss of cardiac vagal activity is associated with myocardial injury in patients undergoing noncardiac surgery: prospective observational mechanistic cohort study. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, 758-767  | 5.4 | 6  |
| 32 | NMDA receptor modulation of glutamate release in activated neutrophils. <i>EBioMedicine</i> , <b>2019</b> , 47, 457-468   | 4.8 | 6  |
| 31 | Sympathetic autonomic dysfunction and impaired cardiovascular performance in higher risk surgical patients: implications for perioperative sympathectomy. <i>Open Heart</i> , <b>2015</b> , 2, e000268  | 3   | 6  |
| 30 | The effect of general anaesthetics on brain lactate release. <i>European Journal of Pharmacology</i> , <b>2020</b> , 881, 173188  | 5.3 | 6  |
| 29 | Reply: Glucagon-like peptide-1 mediates cardioprotection by remote ischaemic conditioning. <i>Cardiovascular Research</i> , <b>2017</b> , 113, 13-14  | 9.9 | 5  |
| 28 | Chronotropic incompetence and myocardial injury after noncardiac surgery: planned secondary analysis of a prospective observational international cohort study. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, 17-26                | 5.4 | 4  |
| 27 | Chemical labelling of active serum thioester proteins for quantification. <i>Immunobiology</i> , <b>2012</b> , 217, 256-64  | 6.4 | 4  |
| 26 | Non-inferiority of retrospective data collection for assessing perioperative morbidity. <i>PeerJ</i> , <b>2015</b> , 3, e1466   | 3.1 | 4  |

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| 25 | Vagal Modulation of Atrial Fibrillation. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 66, 977-8  | 15.1 | 3 |
| 24 | Prospective observational study of postoperative infection and outcomes after noncardiac surgery: analysis of prospective data from the VISION cohort. <i>British Journal of Anaesthesia</i> , <b>2020</b> , 125, 87-97          | 5.4  | 3 |
| 23 | Administration of intrapulmonary sodium polyacrylate to induce lung injury for the development of a porcine model of early acute respiratory distress syndrome. <i>Intensive Care Medicine Experimental</i> , <b>2014</b> , 2, 5 | 3.7  | 3 |
| 22 | Novel biomarkers in critical care: utility or futility?. <i>Critical Care</i> , <b>2007</b> , 11, 175  | 10.8 | 3 |
| 21 | Mode of blood pressure monitoring and morbidity after noncardiac surgery: A prospective multicentre observational cohort study. <i>European Journal of Anaesthesiology</i> , <b>2021</b> , 38, 468-476                           | 2.3  | 3 |
| 20 | Man is the new mouse: Elective surgery as a key translational model for multi-organ dysfunction and sepsis. <i>Journal of the Intensive Care Society</i> , <b>2015</b> , 16, 154-163   | 1.6  | 2 |
| 19 | Intra-operative heart rate and postoperative outcomes - rowing against the tide?. <i>European Journal of Anaesthesiology</i> , <b>2019</b> , 36, 90-92   | 2.3  | 2 |
| 18 | The potential for autonomic neuromodulation to reduce perioperative complications and pain: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , <b>2021</b> ,   | 5.4  | 1 |
| 17 | Reducing the dose of neuromuscular blocking agents with adjuncts: a systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , <b>2021</b> , 126, 608-621  | 5.4  | 1 |
| 16 | Is the ventilatory decline seen in newborns during hypoxaemia centrally mediated?. <i>Advances in Experimental Medicine and Biology</i> , <b>1994</b> , 360, 345-8   | 3.6  | 1 |
| 15 | Acute, severe hypoglycemia occurring during general anesthesia in a nondiabetic adult. <i>Anesthesia and Analgesia</i> , <b>2007</b> , 105, 553-4  | 3.9  | 0 |
| 14 | Preoperative lymphopaenia, mortality, and morbidity after elective surgery: systematic review and meta-analysis. <i>British Journal of Anaesthesia</i> , <b>2021</b> , 127, 32-40  | 5.4  | 0 |
| 13 | Neuromodulation of innate immunity by remote ischaemic conditioning in humans: Experimental cross-over study. <i>Brain, Behavior, &amp; Immunity - Health</i> , <b>2021</b> , 16, 100299   | 5.1  | 0 |
| 12 | Proteomic signatures for perioperative oxygen delivery in skin after major elective surgery: mechanistic sub-study of a randomised controlled trial. <i>British Journal of Anaesthesia</i> , <b>2021</b> , 127, 511-520          | 5.4  | 0 |
| 11 | Bupivacaine reduces release of interleukin-1 receptor antagonist from circulating neutrophils obtained from women in active labour. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, e497                              | 5.4  |   |
| 10 | Individualised targeted haemodynamic therapy in high-risk surgical patients - authorsSreply. <i>Lancet Respiratory Medicine</i> , <b>2015</b> , 3, e14-5   | 35.1 |   |
| 9  | What happens to the autonomic nervous system in critical illness? <b>2020</b> , 279-284.e1   |      |   |
| 8  | Heart Failure and Perioperative Care. <i>Refresher Courses in Anesthesiology</i> , <b>2015</b> , 43, 7-14  |      |   |

- 7 Perioperative beta-blockade: beyond myocardial ischaemia. *British Journal of Hospital Medicine (London, England: 2005)*, **2006**, 67, 276 0.8
- 6 Metformin and mortality after surgery: a systematic review and meta-analysis.. *British Journal of Anaesthesia*, **2022**, 5.4
- 5 Reply to: Monitors are not a treatment.. *European Journal of Anaesthesiology*, **2022**, 39, 180 2.3
- 4 Physiology of the Gastrointestinal Tract Including Splanchnic Blood Flow and Tonometry **2006**, 1-12
- 3 Autonomic Dysfunction in Shock. *Lessons From the ICU*, **2019**, 71-80 0.1
- 2 Orthostatic autonomic dysfunction is associated with postoperative morbidity in patients undergoing noncardiac surgery. *British Journal of Anaesthesia*, **2019**, 123, e509-e510 5.4
- 1 The Inflammatory Response to Surgery **2022**, 9-15