

# Gareth L Ackland

## List of Publications by Year in Descending Order

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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	Metformin and mortality after surgery: a systematic review and meta-analysis.. <i>British Journal of Anaesthesia</i> , <b>2022</b> ,	5.4	
95	Reply to: Monitors are not a treatment.. <i>European Journal of Anaesthesiology</i> , <b>2022</b> , 39, 180	2.3	
94	The Inflammatory Response to Surgery <b>2022</b> , 9-15		
93	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
92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	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
84	What happens to the autonomic nervous system in critical illness? <b>2020</b> , 279-284.e1		
83	The effect of general anaesthetics on brain lactate release. <i>European Journal of Pharmacology</i> , <b>2020</b> , 881, 173188	5.3	6
82	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
81	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
80	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

79	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
78	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
77	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
76	Redefining the perioperative stress response: a narrative review. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, 570-583	5.4	31
75	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	
74	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
73	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
72	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
71	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
70	NMDA receptor modulation of glutamate release in activated neutrophils. <i>EBioMedicine</i> , <b>2019</b> , 47, 457-468	3.8	6
69	Association between complications and death within 30 days after noncardiac surgery. <i>Cmaj</i> , <b>2019</b> , 191, E830-E837	3.5	58
68	Autonomic Dysfunction in Shock. <i>Lessons From the ICU</i> , <b>2019</b> , 71-80	0.1	
67	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
66	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
65	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
64	Orthostatic autonomic dysfunction is associated with postoperative morbidity in patients undergoing noncardiac surgery. <i>British Journal of Anaesthesia</i> , <b>2019</b> , 123, e509-e510	5.4	
63	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
62	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

61	Cardiac Vagus and Exercise. <i>Physiology</i> , <b>2019</b> , 34, 71-80	9.8	29
60	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
59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	Reply: Glucagon-like peptide-1 mediates cardioprotection by remote ischaemic conditioning. <i>Cardiovascular Research</i> , <b>2017</b> , 113, 13-14	9.9	5
51	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
50	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
49	Vagal determinants of exercise capacity. <i>Nature Communications</i> , <b>2017</b> , 8, 15097	17.4	38
48	Heart rate variability in critical care medicine: a systematic review. <i>Intensive Care Medicine Experimental</i> , <b>2017</b> , 5, 33	3.7	20
47	Baroreflex impairment and morbidity after major surgery. <i>British Journal of Anaesthesia</i> , <b>2016</b> , 117, 324-331	3.1	27
46	Astrocytes and Brain Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , <b>2016</b> , 903, 201-7	3.6	22
45	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
44	Inflammation and Epidural-Related Maternal Fever: Proposed Mechanisms. <i>Anesthesia and Analgesia</i> , <b>2016</b> , 122, 1546-53	3.9	50

43	Subclinical cardiopulmonary dysfunction in stage 3 chronic kidney disease. <i>Open Heart</i> , <b>2016</b> , 3, e000370;		12
42	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
41	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
40	Functional Oxygen Sensitivity of Astrocytes. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 10460-73	6.6	154
39	Individualised targeted haemodynamic therapy in high-risk surgical patients - authorsSreply. <i>Lancet Respiratory Medicine</i> , <b>2015</b> , 3, e14-5	35.1	
38	Distinct cardioprotective mechanisms of immediate, early and delayed ischaemic postconditioning. <i>Basic Research in Cardiology</i> , <b>2015</b> , 110, 452	11.8	20
37	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
36	Vagal Modulation of Atrial Fibrillation. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 66, 977-8	15.1	3
35	Metabolic dysfunction in lymphocytes promotes postoperative morbidity. <i>Clinical Science</i> , <b>2015</b> , 129, 423-37	6.5	21
34	Sympathetic autonomic dysfunction and impaired cardiovascular performance in higher risk surgical patients: implications for perioperative sympatholysis. <i>Open Heart</i> , <b>2015</b> , 2, e000268	3	6
33	Heart Failure and Perioperative Care. <i>Refresher Courses in Anesthesiology</i> , <b>2015</b> , 43, 7-14		
32	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
31	Individualised oxygen delivery targeted haemodynamic therapy in high-risk surgical patients: a multicentre, randomised, double-blind, controlled, mechanistic trial. <i>Lancet Respiratory Medicine</i> , <b>2015</b> , 3, 33-41	35.1	79
30	Non-inferiority of retrospective data collection for assessing perioperative morbidity. <i>PeerJ</i> , <b>2015</b> , 3, e1466	3.1	4
29	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
28	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
27	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
26	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

25	Cardiopulmonary exercise capacity and preoperative markers of inflammation. <i>Mediators of Inflammation</i> , <b>2014</b> , 2014, 727451	4.3	10
24	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
23	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
22	Chemical labelling of active serum thioester proteins for quantification. <i>Immunobiology</i> , <b>2012</b> , 217, 256-64	5.4	4
21	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
20	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
19	Perioperative fluid therapy. <i>BMJ, The</i> , <b>2012</b> , 344, e2865	5.9	28
18	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
17	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
16	Chronic kidney disease and postoperative morbidity after elective orthopedic surgery. <i>Anesthesia and Analgesia</i> , <b>2011</b> , 112, 1375-81	3.9	96
15	Biomarkers to guide perioperative management. <i>Postgraduate Medical Journal</i> , <b>2011</b> , 87, 542-9	2	16
14	Low-molecular-weight polyethylene glycol improves survival in experimental sepsis. <i>Critical Care Medicine</i> , <b>2010</b> , 38, 629-36	1.4	20
13	Defining higher-risk surgery. <i>Current Opinion in Critical Care</i> , <b>2010</b> , 16, 339-46	3.5	14
12	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
11	beta1-Adrenoceptor distribution in the rat brain: an immunohistochemical study. <i>Neuroscience Letters</i> , <b>2009</b> , 458, 84-8	3.3	33
10	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
9	Novel biomarkers in critical care: utility or futility?. <i>Critical Care</i> , <b>2007</b> , 11, 175	10.8	3
8	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

7	Perioperative beta-blockade: beyond myocardial ischaemia. <i>British Journal of Hospital Medicine (London, England: 2005)</i> , <b>2006</b> , 67, 276	0.8	
6	Physiology of the Gastrointestinal Tract Including Splanchnic Blood Flow and Tonometry <b>2006</b> , 1-12		
5	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
4	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
3	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
2	Red nucleus inhibits breathing during hypoxia in neonates. <i>Respiration Physiology</i> , <b>1997</b> , 110, 251-60		19
1	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