Heart, Lung and Circulation (2016) **25,** 743–749
1443-9506/04/$36.00
http://dx.doi.org/10.1016/j.hlc.2016.05.108

EDITORIAL

Impact by Citations and Downloads: What are *Heart, Lung and Circulation's* Top 25 Articles of All Time?

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Online published-ahead-of-print 21 May 2016

In late 2015, to pave the way for our Journal's 25th volume in 2016, we looked at recent Journal content with a view to stepping into the future with care and deliberation.[1] For *Heart, Lung and Circulation's* 25th anniversary edition, we look further back. Again with care, and a sense of celebration, we now review our Journal's ''all-time hits'' – the most successful, most popular papers. Here, we present and discuss the Top 25 high impact articles in two categories: highest number of citations and greatest number of downloads.

About Citations

Traditionally, the prestige of a journal has been reflected by its impact factor. Impact factors for journals for any year (e.g., 2015) are calculated by counting all references in any journal to any article published in a journal divided by the number of ''substantial'' articles (e.g., original research, reviews) published in that journal during the two preceding years (in this example, 2013 and 2014). For a specialist journal, such as *Heart, Lung and Circulation*, an impact factor above the critical 1.0 can be taken to represent a marker of quality;[2] our Journal's most recent Impact Factor (for 2014), at 1.438, lies well above this mark.

For many decades, the Institute for Scientific Information (ISI) produced the only large-scale bibliographic database; ISI's citation indexes (regrouped under the Web of Science) were the major sources of bibliometric data. This database is now under the umbrella of Thomson Reuters, which produces Journal Citation Reports. However, in 2004, Scopus, another major bibliometric database was launched, citing references from 1996 onwards (i.e., just over 20 years' worth of citations). Archambault and colleagues have reported that studies comparing the citation rates obtained with the two databases, Web of Science and Scopus, have found good agreement [3].

For convenience, we used the Scopus database to derive the all-time ''Top 25'' cited papers published in *Heart, Lung and Circulation* (Table 1).

The ''runners-up'' to HLC's most-cited article are both landmark papers from the same two expert organisations: first runner-up (at Number 2) is the ''National Heart Foundation of Australia and the Cardiac Society of Australia and Zealand: Position statement of lipid management – 2005''; and, second runner-up (at Number 3), is a ''2011 Addendum to the National Heart Foundation of Australia/Cardiac Society of Australia and New Zealand Guidelines for the management of acute coronary syndrome (ACS) 2006''. This is not surprising, given the gravitas of the authorship groups, the weight and wide-reaching ramifications of the recommendations, and the clinical relevance of the topics themselves given that most cardiovascular morbidity and mortality occurs as a result of atherosclerosis, often seen earliest and most aggressively in the coronary arteries.[4]

More curiously, at the very ''Top of the Cites'', with 124 citations, is the written report of an oral presentation about extra-corporeal membrane oxygenation (ECMO) at Epworth Hospital in Richmond, Victoria, subsequently published as part of the 2008 Proceedings of the Victoria Heart Centre, a supplement of selected Wednesday morning collaborative unit meetings held at the hospital over a year [5]. The paper comprises not only a review of the literature but also the hospital's experience; in particular, the technical aspects of ECMO cannulation, maintenance and weaning are outlined – a veritable ''how to'' resource [6].

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Table 1 *Heart, Lung and Circulation's* **Most Cited Articles (all-time)***

Rank	First author	Country of Origin	Title	Pub year, Vol, Page Nos.	Number of Citations
1	Marasco	Australia	Review of ECMO (Extra Corporeal Membrane Oxygenation) support in critically ill adult patients	2008; 17 (Supp4):S41-S47	124
2	Tonkin	Australia & NZ	National Heart Foundation of Australia and the Cardiac Society of Australia and New Zealand: Position statement on lipid management – 2005	2005; 14(4):275-291	102
3	Chew	Australia & NZ	2011 Addendum to the National Heart Foundation of Australia/Cardiac Society of Australia and New Zealand Guidelines for the management of acute coronary syndrome (ACS) 2006	2011; 20(8):487-502	85
4	Wei	Australia	The streptozotocin-diabetic rat as a model of the chronic complications of human diabetes	2003;12(1):44-50	73
5	Weir	Australia	Mesenchymal stem cells: Isolation, characterisation and in vivo fluorescent dye tracking	2008;17(5):395-403	57
5	Catanchin	Australia	Pacemaker infections: A 10-year experience	2007;16(6):434-439	57
5	Grieve	UK	Role of oxidative stress in cardiac remodelling after myocardial infarction	2004;13(2):132-138	57
8	Westbrook	Australia	Protocol based on thromboelastograph (TEG) out-performs physician preference using laboratory coagulation tests to guide blood replacement during and after cardiac surgery: A pilot study	2009;18(4):277-288	50
9	Sakakura	USA	Pathophysiology of atherosclerosis plaque progression	2013;22(6):399-411	49
10	Wilson	NZ	Transcatheter closure of secundum atrial septal defects with the Amplatzer septal occluder in adults and children – follow-up closure rates, degree of mitral regurgitation and evolution of arrhythmias	2008;17(4):318-324	48
11	Brown	Australia	Echocardiographic assessment of cardiac structure and function in rats	2002;11(3):167-173	47
12	Terman	Sweden	The ageing myocardium: Roles of mitochondrial damage and lysosomal degradation	2005;14(2):107-114	45
13	Leung	Australia	Emerging clinical role of strain imaging in echocardiography	2010;19(3):161-174	44
13	Carpenter	NZ	Mechano-growth factor reduces loss of cardiac function in acute myocardial Infarction	2008;17(1):33-39	44
15	Edelman	Australia	Coronary artery bypass grafting with and without manipulation of the ascending aorta – a meta-analysis	2011;20(5):318-324	42
16	Clark	Australia	Uncovering a hidden epidemic: A study of the current burden of heart failure in Australia	2004;13(3):266-273	39
17	Mulpuru	USA	Cardiovocal syndrome: A systematic review	2008;17(1):1-4	37
18	Boldery	Australia	Nutritional deficiency of selenium secondary to weight loss (bariatric) surgery associated with life-threatening cardiomyopathy	2007;16(2):123-126	36

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