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## Most Discussed Medical and Health Sciences Publications 2019



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Altmetric has released its annual Top 100 of the most discussed and shared scientific research of 2019 covering a variety of disciplines and written by authors from all over the world. The top 100 works were published in 43 different outlets. The Harvard University authors appeared most often in the list (11 papers), while the journal *Nature* featured more than any other (12 times).

You may also like: [Research Improves Hospital Efficiency, Length of Stay, Healthcare Costs](#)

Of those 100 publications, 54 fall into the Medical and Health Sciences subject area. Two are in the top 10 (#3 and #8).

### The top 10 articles of 2019

1. Few-Shot Adversarial Learning of Realistic Neural Talking Head Models ( *Arxiv*, May 2019)\*
2. Scientists rise up against statistical significance ( *Nature*, March 2019)
3. Measles, Mumps, Rubella Vaccination and Autism ( *Annals of Internal Medicine*, April 2019, [free access](#))
4. World Scientists' Warning of a Climate Emergency ( *BioScience*, November 2019)
5. A Style-Based Generator Architecture for Generative Adversarial Networks ( *Arxiv*, December 2018)
6. Large-scale GWAS reveals insights into the genetic architecture of same-sex sexual behavior ( *Science*, August 2019)
7. New elevation data triple estimates of global vulnerability to sea-level rise and coastal flooding ( *Nature Communications*, October 2019)
8. Parachute use to prevent death and major trauma when jumping from aircraft: randomized controlled trial ( *British Medical Journal*, December 2018, [open access](#))
9. The global tree restoration potential ( *Science*, July 2019)
10. Civic honesty around the globe ( *Science*, July 2019)

### Other articles in Medical and Health Sciences

#### 11–20

11. Health effects of dietary risks in 195 countries, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017 ( *The Lancet*, April 2019, [open access](#))
15. Restoration of brain circulation and cellular functions hours post-mortem ( *Nature*, April 2019)
18. Food in the Anthropocene: the EAT–Lancet Commission on healthy diets from sustainable food systems ( *The Lancet*, January 2019, [free access](#))
19. Cast of the Right Bronchial Tree ( *New England Journal of Medicine*, November 2018, [free access](#))
20. A Randomized Trial of E-Cigarettes versus Nicotine-Replacement Therapy ( *New England Journal of Medicine*, February 2019, [free access](#))

#### 21–30

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21. Association Between Soft Drink Consumption and Mortality in 10 European Countries ( *JAMA Internal Medicine*, September 2019)
23. Associations of Dietary Cholesterol or Egg Consumption With Incident Cardiovascular Disease and Mortality ( *JAMA: Journal of the American Medical Association*, March 2019, [free access](#))
24. Violent video game engagement is not associated with adolescents' aggressive behaviour: evidence from a registered report ( *Royal Society Open Science*, February 2019, [open access](#))
25. Unprocessed Red Meat and Processed Meat Consumption: Dietary Guideline Recommendations From the Nutritional Recommendations (NutriRECS) Consortium ( *Annals of Internal Medicine*, October 2019, [free access](#))
26. Association Between Push-up Exercise Capacity and Future Cardiovascular Events Among Active Adult Men ( *JAMA Network Open*, February 2019, [open access](#))
29. Ultra-Processed Diets Cause Excess Calorie Intake and Weight Gain: An Inpatient Randomized Controlled Trial of Ad Libitum Food Intake ( *Cell Metabolism*, May 2019, [free access](#))
30. Sugary drink consumption and risk of cancer: results from NutriNet-Santé prospective cohort ( *British Medical Journal*, July 2019, [open access](#))

### 31–40

31. Risk of HIV transmission through condomless sex in serodifferent gay couples with the HIV-positive partner taking suppressive antiretroviral therapy (PARTNER): final results of a multicentre, prospective, observational study ( *The Lancet*, May 2019, [open access](#))
32. Carbohydrate quality and human health: a series of systematic reviews and meta-analyses ( *The Lancet*, January 2019)
35. Measles virus infection diminishes preexisting antibodies that offer protection from other pathogens ( *Science*, October 2019, [free access](#))
36. Porphyromonas gingivalis in Alzheimer's disease brains: Evidence for disease causation and treatment with small-molecule inhibitors ( *Science Advances*, January 2019, [open access](#))
38. Spending at least 120 minutes a week in nature is associated with good health and wellbeing ( *Scientific Reports*, June 2019, [open access](#))
39. The contribution of cannabis use to variation in the incidence of psychotic disorder across Europe (EU-GEI): a multicentre case-control study ( *The Lancet Psychiatry*, March 2019, [open access](#))
40. Notes from the Field: Tetanus in an Unvaccinated Child — Oregon, 2017 ( *MMWR: Morbidity and Mortality Weekly Report*, March 2019, [open access](#))

### 41–50

42. Prevalence of cervical disease at age 20 after immunisation with bivalent HPV vaccine at age 12-13 in Scotland: retrospective population study ( *British Medical Journal*, April 2019, [open access](#))
43. Livebirth after uterus transplantation from a deceased donor in a recipient with uterine infertility ( *The Lancet*, December 2018)
45. Association of Cannabis Use in Adolescence and Risk of Depression, Anxiety, and Suicidality in Young Adulthood ( *JAMA Psychiatry*, February 2019)
48. Association of Step Volume and Intensity With All-Cause Mortality in Older Women ( *JAMA Internal Medicine*, May 2019)
49. The Global Syndemic of Obesity, Undernutrition, and Climate Change: The Lancet Commission report ( *The Lancet*, January 2019, [free access](#))
50. Effect of breakfast on weight and energy intake: systematic review and meta-analysis of randomised controlled trials ( *British Medical Journal*, January 2019, [open access](#))

### 51–60

52. Coupled electrophysiological, hemodynamic, and cerebrospinal fluid oscillations in human sleep ( *Science*, October 2019)
53. Association Between the Release of Netflix's 13 Reasons Why and Suicide Rates in the United States: An Interrupted Time Series Analysis ( *Journal of the American Academy of Child and Adolescent Psychiatry*, April 2019, [free access](#))
54. Blindness Caused by a Junk Food Diet ( *Annals of Internal Medicine*, September 2019, [free access](#))
56. Effect of Sunscreen Application Under Maximal Use Conditions on Plasma Concentration of Sunscreen Active Ingredients ( *JAMA: Journal of the American Medical Association*, May 2019, [free access](#))
59. Pulmonary Illness Related to E-Cigarette Use in Illinois and Wisconsin — Preliminary Report ( *New England Journal of Medicine*, September 2019, [free access](#))

### 61–70

61. "Death is certain, the time is not": mortality and survival in Game of Thrones ( *Injury Epidemiology*, December 2018, [open access](#))

62. Cannabinoids for the treatment of mental disorders and symptoms of mental disorders: a systematic review and meta-analysis (*The Lancet Psychiatry*, October 2019)

63. Resistance to autosomal dominant Alzheimer's disease in an APOE3 Christchurch homozygote: a case report (*Nature Medicine*, November 2019)

#### 71–80

71. Incomplete genetic reconstitution of B cell pools contributes to prolonged immunosuppression after measles (*Science Immunology*, November 2019)

72. Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions (*European Heart Journal*, March 2019, [open access](#))

73. A prospective study of tea drinking temperature and risk of esophageal squamous cell carcinoma (*International Journal of Cancer*, March 2019)

74. CCR5-Δ32 is deleterious in the homozygous state in humans (*Nature Medicine*, June 2019)

76. Everything is awesome: Don't forget the Lego (*Journal of Paediatrics & Child Health*, November 2018, [free access](#))

78. The Physical Activity Guidelines for Americans (*JAMA: Journal of the American Medical Association*, November 2018)

79. Risks of ischaemic heart disease and stroke in meat eaters, fish eaters, and vegetarians over 18 years of follow-up: results from the prospective EPIC-Oxford study (*British Medical Journal*, September 2019, [open access](#))

#### 81–90

81. Sequential LASER ART and CRISPR Treatments Eliminate HIV-1 in a Subset of Infected Humanized Mice (*Nature Communications*, July 2019, [open access](#))

82. Association of Lifestyle and Genetic Risk With Incidence of Dementia (*JAMA: Journal of the American Medical Association*, July 2019)

84. The Major Causes of Death in Children and Adolescents in the United States (*New England Journal of Medicine*, December 2018, [free access](#))

88. Artificially Sweetened Beverages and Stroke, Coronary Heart Disease, and All-Cause Mortality in the Women's Health Initiative (*Stroke*, February 2019, [free access](#))

90. Dissecting racial bias in an algorithm used to manage the health of populations (*Science*, October 2019)

#### 91–100

91. Dose-response associations between accelerometry measured physical activity and sedentary time and all cause mortality: systematic review and harmonised meta-analysis (*British Medical Journal*, August 2019, [open access](#))

92. Population-level impact and herd effects following the introduction of human papillomavirus vaccination programmes: updated systematic review and meta-analysis (*The Lancet*, June 2019)

94. Microdeletion in a FAAH pseudogene identified in a patient with high anandamide concentrations and pain insensitivity (*BJA: British Journal Of Anaesthesia*, March 2019, [open access](#))

95. Ad libitum Weekend Recovery Sleep Fails to Prevent Metabolic Dysregulation during a Repeating Pattern of Insufficient Sleep and Weekend Recovery Sleep (*Current Biology*, February 2019)

96. Association Between Ultraprocessed Food Consumption and Risk of Mortality Among Middle-aged Adults in France (*JAMA Internal Medicine*, February 2019)

99. How does exercise treatment compare with antihypertensive medications? A network meta-analysis of 391 randomised controlled trials assessing exercise and medication effects on systolic blood pressure (*British Journal of Sports Medicine*, December 2018, [free access](#))

100. Working memory revived in older adults by synchronizing rhythmic brain circuits (*Nature Neuroscience*, April 2019)

Full list is available [here](#).

\* The paper is the most widely shared in the Altmetric Top 100's seven-year history.

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