

Supplementary materials

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1 Supplementary Tables

1.1 ST 1: Change in data availability statement openness by preprint decision category and journal policy

Preprint decision	Open data policy	Number of journals (N)	Number of records (N)	Open at preprint % (N)	Open at publication % (N)	Change from preprint to publication		
						More open (N)	More closed (N)	No change (N)
(1) Data not made available	Does not require open data	12	13	0% (0)	23.1% (3)	3	0	10
	Requires open data	3	7	0% (0)	28.6% (2)	2	0	5
(2) Data available on request to authors	Does not require open data	31	33	0% (0)	9.1% (3)	3	0	30
	Requires open data	5	11	0% (0)	63.6% (7)	7	0	4
(3) Data will be made available in the future (link provided)	Does not require open data	2	2	0% (0)	50% (1)	1	0	1
	Requires open data	1	1	0% (0)	0% (0)	0	0	1
(4) Data will be made available in the future (no link provided)	Does not require open data	4	4	0% (0)	75% (3)	3	0	1
	Requires open data	3	3	0% (0)	66.7% (2)	2	0	1
(5) Data available from central repository (access-controlled or open access), but insufficient detail available to find specific dataset	Does not require open data	17	21	0% (0)	0% (0)	0	0	21
	Requires open data	8	15	0% (0)	33.3% (5)	5	0	10
(6) Data available from central access-controlled repository, and sufficient details included to identify specific dataset e.g. via extract or accession ID or date stamp	Does not require open data	2	2	0% (0)	0% (0)	0	0	2
	Requires open data	1	1	0% (0)	0% (0)	0	0	1
(7) Data available in the manuscript/supplementary files	Does not require open data	9	9	100% (9)	55.6% (5)	0	4	5
	Requires open data	2	8	100% (8)	100% (8)	0	0	8
(8) Data available via a online repository that is not access-controlled e.g. GitHub, Zenodo	Does not require open data	10	10	100% (10)	60% (6)	0	4	6
	Requires open data	5	11	100% (11)	100% (11)	0	0	11

1.2 ST 2: Change in data availability statement openness by journal

Journal	Open data policy	Number of records (N)	Open at preprint % (N)	Open at publication % (N)	Change from preprint to publication		
					More open (N)	More closed (N)	No change (N)
Acta Neuropathologica Communications	Does not require open data	1	0% (0)	0% (0)	0	0	1
Alzheimer's Research & Therapy	Requires open data	1	0% (0)	0% (0)	0	0	1
Annals of the Rheumatic Diseases	Does not require open data	2	0% (0)	50% (1)	1	0	1
Archives of Public Health	Does not require open data	1	0% (0)	0% (0)	0	0	1
Asia-Pacific Journal of Ophthalmology	Does not require open data	1	0% (0)	0% (0)	0	0	1
BMC Cancer	Does not require open data	2	50% (1)	50% (1)	1	1	0
BMC Endocrine Disorders	Does not require open data	1	0% (0)	0% (0)	0	0	1
BMC Medicine	Does not require open data	2	50% (1)	50% (1)	1	1	0
BMC Ophthalmology	Does not require open data	1	100% (1)	0% (0)	0	1	0
BMC Pediatrics	Does not require open data	1	0% (0)	100% (1)	1	0	0
BMC Public Health	Does not require open data	1	100% (1)	100% (1)	0	0	1
BMJ	Does not require open data	2	50% (1)	0% (0)	0	1	1
BMJ Global Health	Does not require open data	3	0% (0)	33.3% (1)	1	0	2
BMJ Open	Does not require open data	3	33.3% (1)	33.3% (1)	1	1	1
BMJ Open Quality	Does not require open data	1	0% (0)	0% (0)	0	0	1
Cell	Requires open data	1	0% (0)	0% (0)	0	0	1
Cell Discovery	Requires open data	1	0% (0)	0% (0)	0	0	1
Clinical Epigenetics	Does not require open data	2	0% (0)	0% (0)	0	0	2

Journal	Open data policy	Number of records (N)	Open at preprint % (N)	Open at publication % (N)	Change from preprint to publication		
					More open (N)	More closed (N)	No change (N)
Clinical Infectious Diseases	Does not require open data	1	0% (0)	0% (0)	0	0	1
EBioMedicine	Requires open data	1	0% (0)	100% (1)	1	0	0
EClinicalMedicine	Does not require open data	1	0% (0)	0% (0)	0	0	1
Egyptian Journal of Medical Human Genetics	Does not require open data	1	100% (1)	0% (0)	0	1	0
Epidemics	Does not require open data	1	100% (1)	100% (1)	0	0	1
Epidemiology	Does not require open data	1	0% (0)	0% (0)	0	0	1
ESMO Open	Does not require open data	1	0% (0)	0% (0)	0	0	1
European Psychiatry	Does not require open data	2	0% (0)	0% (0)	0	0	2
European Respiratory Journal	Does not require open data	1	0% (0)	0% (0)	0	0	1
Eurosurveillance	Does not require open data	1	100% (1)	100% (1)	0	0	1
Experimental Eye Research	Does not require open data	1	0% (0)	0% (0)	0	0	1
F1000Research	Requires open data	4	0% (0)	75% (3)	3	0	1
Family Practice	Does not require open data	1	100% (1)	100% (1)	0	0	1
Frontiers in Bioengineering and Biotechnology	Does not require open data	1	0% (0)	0% (0)	0	0	1
Frontiers in Immunology	Does not require open data	1	0% (0)	0% (0)	0	0	1
Frontiers in Integrative Neuroscience	Does not require open data	1	0% (0)	0% (0)	0	0	1
Frontiers in Medicine	Does not require open data	2	0% (0)	0% (0)	0	0	2
Frontiers in Neurology	Does not require open data	1	0% (0)	0% (0)	0	0	1
Frontiers in Nutrition	Does not require open data	1	100% (1)	100% (1)	0	0	1

Journal	Open data policy	Number of records (N)	Open at preprint % (N)	Open at publication % (N)	Change from preprint to publication		
					More open (N)	More closed (N)	No change (N)
Frontiers in Psychiatry	Does not require open data	1	0% (0)	0% (0)	0	0	1
Frontiers in Public Health	Does not require open data	2	50% (1)	50% (1)	0	0	2
Gates Open Research	Requires open data	1	0% (0)	0% (0)	0	0	1
Genetics	Does not require open data	1	0% (0)	0% (0)	0	0	1
Genetics in Medicine	Does not require open data	1	0% (0)	0% (0)	0	0	1
Genome Medicine	Does not require open data	2	50% (1)	50% (1)	0	0	2
Human Brain Mapping	Does not require open data	1	0% (0)	0% (0)	0	0	1
Human Molecular Genetics	Does not require open data	1	100% (1)	0% (0)	0	1	0
Implementation Science Communications	Does not require open data	1	0% (0)	0% (0)	0	0	1
International Journal of Behavioral Nutrition and Physical Activity	Does not require open data	1	0% (0)	0% (0)	0	0	1
International Journal of Cancer	Does not require open data	1	0% (0)	0% (0)	0	0	1
International Journal of Health Geographics	Does not require open data	2	0% (0)	0% (0)	0	0	2
International Journal of Infectious Diseases	Requires open data	2	0% (0)	0% (0)	0	0	2
JAMA Network Open	Does not require open data	1	0% (0)	0% (0)	0	0	1
Journal of Clinical Medicine	Requires open data	1	0% (0)	0% (0)	0	0	1
Journal of Clinical Pathology	Does not require open data	1	0% (0)	0% (0)	0	0	1
Journal of Experimental Orthopaedics	Does not require open data	1	0% (0)	100% (1)	1	0	0
Journal of Infection	Does not require open data	1	0% (0)	0% (0)	0	0	1
Journal of Medical Internet Research	Does not require open data	1	100% (1)	0% (0)	0	1	0

Journal	Open data policy	Number of records (N)	Open at preprint % (N)	Open at publication % (N)	Change from preprint to publication		
					More open (N)	More closed (N)	No change (N)
Journal of Neurology, Neurosurgery & Psychiatry	Does not require open data	1	0% (0)	0% (0)	0	0	1
Journal of Oncology	Does not require open data	1	0% (0)	0% (0)	0	0	1
Journal of Pregnancy	Does not require open data	1	0% (0)	100% (1)	1	0	0
Journal of The Royal Society Interface	Requires open data	1	0% (0)	0% (0)	0	0	1
Journal of Virology	Requires open data	1	100% (1)	100% (1)	0	0	1
mBio	Requires open data	1	0% (0)	100% (1)	1	0	0
Molecular & Cellular Proteomics	Requires open data	1	0% (0)	0% (0)	0	0	1
Molecular Autism	Does not require open data	1	0% (0)	0% (0)	0	0	1
Multiple Sclerosis Journal	Does not require open data	1	0% (0)	0% (0)	0	0	1
Nature Machine Intelligence	Does not require open data	1	0% (0)	0% (0)	0	0	1
Nature Medicine	Does not require open data	4	0% (0)	0% (0)	0	0	4
NeuroImage: Clinical	Does not require open data	2	0% (0)	0% (0)	0	0	2
Neurology	Does not require open data	2	0% (0)	50% (1)	1	0	1
Neurology - Neuroimmunology Neuroinflammation	Does not require open data	1	100% (1)	100% (1)	0	0	1
Occupational and Environmental Medicine	Does not require open data	1	0% (0)	100% (1)	1	0	0
PeerJ	Requires open data	1	0% (0)	100% (1)	1	0	0
PLOS Computational Biology	Requires open data	2	50% (1)	100% (2)	1	0	1
PLOS Medicine	Requires open data	1	0% (0)	100% (1)	1	0	0
PLOS Neglected Tropical Diseases	Requires open data	2	50% (1)	50% (1)	0	0	2
PLOS ONE	Requires open data	31	41.9% (13)	67.7% (21)	8	0	23
PLOS Pathogens	Requires open data	1	100% (1)	100% (1)	0	0	1

Journal	Open data policy	Number of records (N)	Open at preprint % (N)	Open at publication % (N)	Change from preprint to publication		
					More open (N)	More closed (N)	No change (N)
Prostate Cancer	Does not require open data	1	0% (0)	0% (0)	0	0	1
Psychiatry Research	Does not require open data	1	0% (0)	0% (0)	0	0	1
Respiratory Research	Does not require open data	1	0% (0)	0% (0)	0	0	1
Science	Does not require open data	1	0% (0)	0% (0)	0	0	1
Scientific Data	Requires open data	1	0% (0)	0% (0)	0	0	1
Scientific Reports	Does not require open data	6	16.7% (1)	16.7% (1)	0	0	6
Supportive Care in Cancer	Does not require open data	1	0% (0)	0% (0)	0	0	1
Swiss Medical Weekly	Does not require open data	1	100% (1)	100% (1)	0	0	1
The British Journal of Psychiatry	Does not require open data	1	0% (0)	0% (0)	0	0	1
The Lancet Infectious Diseases	Does not require open data	1	100% (1)	100% (1)	0	0	1
Translational Psychiatry	Does not require open data	1	0% (0)	0% (0)	0	0	1
Vaccine	Does not require open data	1	0% (0)	0% (0)	0	0	1
Wellcome Open Research	Requires open data	2	100% (2)	100% (2)	0	0	2

2 Supplementary Materials

2.1 SM 1: decision examples for data availability statements meeting multiple categories

For items that met the criteria for multiple categories (e.g. “Most of the data analyzed in this manuscript are provided either within the manuscript itself, or in the manuscript posted by Sasani et al. on bioRxiv at <https://www.biorxiv.org/content/10.1101/552117v2> and its accompanying links; additional data may be accessed by contacting the corresponding author (Dr. Cawthon).”), we took a conservative approach, and categorized them based on the least permissive aspect of the statement. This approach was taken on the basis that ***all*** data must be available - for example, in the above statement, the additional information that is available on request may be required in order to reproduce the analysis.