

Derek A T Cummings

List of Publications by Year in descending order

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Version: 2024-02-01

133
papers

12,347
citations

53939

47
h-index

35168

102
g-index

146
all docs

146
docs citations

146
times ranked

19064
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Preseason Antibodies Against Influenza Virus on Risk of Influenza Infection Among Healthcare Personnel. <i>Journal of Infectious Diseases</i> , 2022, 225, 891-902.	1.9	1
2	Periodic synchronisation of dengue epidemics in Thailand over the last 5 decades driven by temperature and immunity. <i>PLoS Biology</i> , 2022, 20, e3001160.	2.6	8
3	EVITA Dengue: a cluster-randomized controlled trial to Evaluate the efficacy of Wolbachia-Infected Aedes aegypti mosquitoes in reducing the incidence of Arboviral infection in Brazil. <i>Trials</i> , 2022, 23, 185.	0.7	5
4	Effectiveness of CoronaVac, ChAdOx1 nCoV-19, BNT162b2, and Ad26.COV2.S among individuals with previous SARS-CoV-2 infection in Brazil: a test-negative, case-control study. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 791-801.	4.6	84
5	Use of Recently Vaccinated Individuals to Detect Bias in Test-Negative Caseâ€“Control Studies of COVID-19 Vaccine Effectiveness. <i>Epidemiology</i> , 2022, 33, 450-456.	1.2	13
6	Closing the health inequity gap during the pandemic: COVID-19 mortality among racial and ethnic groups in Connecticut, March 2020 to December 2021. <i>Journal of Epidemiology and Community Health</i> , 2022, 76, 695-696.	2.0	6
7	Individual, Household, and Community Drivers of Dengue Virus Infection Risk in Kamphaeng Phet Province, Thailand. <i>Journal of Infectious Diseases</i> , 2022, 226, 1348-1356.	1.9	6
8	Beneath the surface: Amino acid variation underlying two decades of dengue virus antigenic dynamics in Bangkok, Thailand. <i>PLoS Pathogens</i> , 2022, 18, e1010500.	2.1	5
9	Assessing the role of multiple mechanisms increasing the age of dengue cases in Thailand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2115790119.	3.3	16
10	Comparing the age and sex trajectories of SARS-CoV-2 morbidity and mortality with other respiratory pathogens. <i>Royal Society Open Science</i> , 2022, 9, .	1.1	3
11	Risk Factors for Healthcare Personnel Infection With Endemic Coronaviruses (HKU1, OC43, NL63, 229E): Results from the Respiratory Protection Effectiveness Clinical Trial (ResPECT). <i>Clinical Infectious Diseases</i> , 2021, 73, e4428-e4432.	2.9	17
12	Development and dissemination of infectious disease dynamic transmission models during the COVID-19 pandemic: what can we learn from other pathogens and how can we move forward?. <i>The Lancet Digital Health</i> , 2021, 3, e41-e50.	5.9	23
13	Age-specific mortality and immunity patterns of SARS-CoV-2. <i>Nature</i> , 2021, 590, 140-145.	13.7	883
14	Using serological measures to estimate influenza incidence in the presence of secular trends in exposure and immunoâ€“modulation of antibody response. <i>Influenza and Other Respiratory Viruses</i> , 2021, 15, 235-244.	1.5	8
15	Age-specific social mixing of school-aged children in a US setting using proximity detecting sensors and contact surveys. <i>Scientific Reports</i> , 2021, 11, 2319.	1.6	5
16	Immunogenicity and safety of fractional doses of yellow fever vaccines: a randomised, double-blind, non-inferiority trial. <i>Lancet</i> , The, 2021, 397, 119-127.	6.3	33
17	Reconstructing unseen transmission events to infer dengue dynamics from viral sequences. <i>Nature Communications</i> , 2021, 12, 1810.	5.8	12
18	Modelling distributions of Aedes aegypti and Aedes albopictus using climate, host density and interspecies competition. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009063.	1.3	16

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19	Influenza and other respiratory viral infections associated with absence from school among schoolchildren in Pittsburgh, Pennsylvania, USA: a cohort study. <i>BMC Infectious Diseases</i> , 2021, 21, 291.	1.3	11
20	Novel coronavirus 2019-nCoV (COVID-19): early estimation of epidemiological parameters and epidemic size estimates. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200265.	1.8	184
21	Lying in wait: the resurgence of dengue virus after the Zika epidemic in Brazil. <i>Nature Communications</i> , 2021, 12, 2619.	5.8	43
22	Insights into household transmission of SARS-CoV-2 from a population-based serological survey. <i>Nature Communications</i> , 2021, 12, 3643.	5.8	61
23	Evaluation of the extended efficacy of the Dengvaxia vaccine against symptomatic and subclinical dengue infection. <i>Nature Medicine</i> , 2021, 27, 1395-1400.	15.2	21
24	Outpatient healthcare personnel knowledge and attitudes towards infection prevention measures for protection from respiratory infections. <i>American Journal of Infection Control</i> , 2021, 49, 1369-1375.	1.1	3
25	Effect of specific non-pharmaceutical intervention policies on SARS-CoV-2 transmission in the counties of the United States. <i>Nature Communications</i> , 2021, 12, 3560.	5.8	35
26	Factors associated with clinical severity in emergency department patients presenting with symptomatic SARS-CoV-2 infection. <i>Journal of the American College of Emergency Physicians Open</i> , 2021, 2, e12453.	0.4	10
27	Improvements in Severe Acute Respiratory Syndrome Coronavirus 2 Testing Cascade in the United States: Data From Serial Cross-sectional Assessments. <i>Clinical Infectious Diseases</i> , 2021, , .	2.9	5
28	Trip duration drives shift in travel network structure with implications for the predictability of spatial disease spread. <i>PLoS Computational Biology</i> , 2021, 17, e1009127.	1.5	4
29	Effectiveness of the CoronaVac vaccine in older adults during a gamma variant associated epidemic of covid-19 in Brazil: test negative case-control study. <i>BMJ</i> , The, 2021, 374, n2015.	3.0	223
30	Effectiveness of CoronaVac among healthcare workers in the setting of high SARS-CoV-2 Gamma variant transmission in Manaus, Brazil: A test-negative case-control study. <i>The Lancet Regional Health Americas</i> , 2021, 1, 100025.	1.5	116
31	Effectiveness of ChAdOx1 vaccine in older adults during SARS-CoV-2 Gamma variant circulation in São Paulo. <i>Nature Communications</i> , 2021, 12, 6220.	5.8	62
32	Antigenic evolution of dengue viruses over 20 years. <i>Science</i> , 2021, 374, 999-1004.	6.0	34
33	Ensemble forecast modeling for the design of COVID-19 vaccine efficacy trials. <i>Vaccine</i> , 2020, 38, 7213-7216.	1.7	32
34	The use of mobile phone data to inform analysis of COVID-19 pandemic epidemiology. <i>Nature Communications</i> , 2020, 11, 4961.	5.8	246
35	Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. <i>PLoS Pathogens</i> , 2020, 16, e1008635.	2.1	15
36	A systematic review of antibody mediated immunity to coronaviruses: kinetics, correlates of protection, and association with severity. <i>Nature Communications</i> , 2020, 11, 4704.	5.8	775

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37	The Role of Host Genetic Factors in Coronavirus Susceptibility: Review of Animal and Systematic Review of Human Literature. <i>American Journal of Human Genetics</i> , 2020, 107, 381-402.	2.6	51
38	A mixture model to assess the the immunogenicity of an oral rotavirus vaccine among healthy infants in Niger. <i>Vaccine</i> , 2020, 38, 8161-8166.	1.7	5
39	Differentiation of Multiple Fluorescent Powders, Powder Transfer, and Effect on Mating in <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Insects</i> , 2020, 11, 727.	1.0	4
40	An open source tool to infer epidemiological and immunological dynamics from serological data: serosolver. <i>PLoS Computational Biology</i> , 2020, 16, e1007840.	1.5	13
41	Pre-existing chikungunya virus neutralizing antibodies correlate with risk of symptomatic infection and subclinical seroconversion in a Philippine cohort. <i>International Journal of Infectious Diseases</i> , 2020, 95, 167-173.	1.5	20
42	Mapping global variation in dengue transmission intensity. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	131
43	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. <i>PLoS Computational Biology</i> , 2020, 16, e1007446.	1.5	20
44	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0
45	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0
46	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0
47	Vector bionomics and vectorial capacity as emergent properties of mosquito behaviors and ecology. , 2020, 16, e1007446.		0
48	Title is missing!. , 2020, 16, e1007840.		0
49	Title is missing!. , 2020, 16, e1007840.		0
50	Title is missing!. , 2020, 16, e1007840.		0
51	Title is missing!. , 2020, 16, e1007840.		0
52	Title is missing!. , 2020, 16, e1007840.		0
53	Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. , 2020, 16, e1008635.		0
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55	Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. , 2020, 16, e1008635.		0
56	Life course exposures continually shape antibody profiles and risk of seroconversion to influenza. , 2020, 16, e1008635.		0
57	Serological inference of past primary and secondary dengue infection: implications for vaccination. Journal of the Royal Society Interface, 2019, 16, 20190207.	1.5	12
58	Factors influencing participation in an Ebola vaccine trial among front-line workers in Guinea. Vaccine, 2019, 37, 7165-7170.	1.7	11
59	N95 Respirators vs Medical Masks for Preventing Influenza Among Health Care Personnel. JAMA - Journal of the American Medical Association, 2019, 322, 824.	3.8	388
60	Differential mobility and local variation in infection attack rate. PLoS Computational Biology, 2019, 15, e1006600.	1.5	9
61	Impact of preexisting dengue immunity on Zika virus emergence in a dengue endemic region. Science, 2019, 363, 607-610.	6.0	202
62	Long-term circulation of Zika virus in Thailand: an observational study. Lancet Infectious Diseases, The, 2019, 19, 439-446.	4.6	92
63	An open challenge to advance probabilistic forecasting for dengue epidemics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24268-24274.	3.3	136
64	Impacts of Zika emergence in Latin America on endemic dengue transmission. Nature Communications, 2019, 10, 5730.	5.8	48
65	Clinical and Epidemiologic Patterns of Chikungunya Virus Infection and Coincident Arboviral Disease in a School Cohort in Haiti, 2014â€“2015. Clinical Infectious Diseases, 2019, 68, 919-926.	2.9	24
66	Prospective forecasts of annual dengue hemorrhagic fever incidence in Thailand, 2010â€“2014. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2175-E2182.	3.3	51
67	1716. Results of the Respiratory Protection Effectiveness Clinical Trial (ResPECT). Open Forum Infectious Diseases, 2018, 5, S51-S51.	0.4	0
68	Viridot: An automated virus plaque (immunofocus) counter for the measurement of serological neutralizing responses with application to dengue virus. PLoS Neglected Tropical Diseases, 2018, 12, e0006862.	1.3	93
69	Reconstruction of antibody dynamics and infection histories to evaluate dengue risk. Nature, 2018, 557, 719-723.	13.7	213
70	Timescales of influenza A/H3N2 antibody dynamics. PLoS Biology, 2018, 16, e2004974.	2.6	46
71	Measles outbreak risk in Pakistan: exploring the potential of combining vaccination coverage and incidence data with novel data-streams to strengthen control. Epidemiology and Infection, 2018, 146, 1575-1583.	1.0	17
72	Genomic epidemiology reveals multiple introductions of Zika virus into the United States. Nature, 2017, 546, 401-405.	13.7	298

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73	Dengue diversity across spatial and temporal scales: Local structure and the effect of host population size. <i>Science</i> , 2017, 355, 1302-1306.	6.0	126
74	Reply to Shanks and Brundage: Many plausible mechanisms of pandemic mortality disparities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3588-E3589.	3.3	2
75	Immune status alters the probability of apparent illness due to dengue virus infection: Evidence from a pooled analysis across multiple cohort and cluster studies. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005926.	1.3	53
76	The Long-Term Safety, Public Health Impact, and Cost-Effectiveness of Routine Vaccination with a Recombinant, Live-Attenuated Dengue Vaccine (Dengvaxia): A Model Comparison Study. <i>PLoS Medicine</i> , 2016, 13, e1002181.	3.9	178
77	Synchrony of Dengue Incidence in Ho Chi Minh City and Bangkok. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005188.	1.3	20
78	Social Contact Networks and Mixing among Students in K-12 Schools in Pittsburgh, PA. <i>PLoS ONE</i> , 2016, 11, e0151139.	1.1	18
79	Correlation of Corrective Eyewear to Acute Respiratory Infection (ARI) Among Outpatient Healthcare Personnel (HCP). <i>Open Forum Infectious Diseases</i> , 2016, 3, .	0.4	0
80	Acute Respiratory Infections (ARIs) Among Outpatient Healthcare Personnel (HCP). <i>Open Forum Infectious Diseases</i> , 2016, 3, .	0.4	2
81	Forty Years of Dengue Surveillance at a Tertiary Pediatric Hospital in Bangkok, Thailand, 1973â€“2012. <i>American Journal of Tropical Medicine and Hygiene</i> , 2016, 94, 1342-1347.	0.6	32
82	Unraveling the drivers of MERS-CoV transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9081-9086.	3.3	95
83	Estimating infectious disease transmission distances using the overall distribution of cases. <i>Epidemics</i> , 2016, 17, 10-18.	1.5	26
84	A comparison of hemagglutination inhibition and neutralization assays for characterizing immunity to seasonal influenza A. <i>Influenza and Other Respiratory Viruses</i> , 2016, 10, 518-524.	1.5	57
85	Benefits and risks of the Sanofi-Pasteur dengue vaccine: Modeling optimal deployment. <i>Science</i> , 2016, 353, 1033-1036.	6.0	195
86	Disparities in influenza mortality and transmission related to sociodemographic factors within Chicago in the pandemic of 1918. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13839-13844.	3.3	123
87	Assessing the global threat from Zika virus. <i>Science</i> , 2016, 353, aaf8160.	6.0	311
88	How social structures, space, and behaviors shape the spread of infectious diseases using chikungunya as a case study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13420-13425.	3.3	100
89	Case Study in Evaluating Time Series Prediction Models Using the Relative Mean Absolute Error. <i>American Statistician</i> , 2016, 70, 285-292.	0.9	31
90	The impact of rainfall and temperature on the spatial progression of cases during the chikungunya re-emergence in Thailand in 2008â€“2009. <i>Transactions of the Royal Society of Tropical Medicine and Hygiene</i> , 2016, 110, 125-133.	0.7	8

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91	Dengue Virus (DENV) Neutralizing Antibody Kinetics in Children After Symptomatic Primary and Postprimary DENV Infection. <i>Journal of Infectious Diseases</i> , 2016, 213, 1428-1435.	1.9	36
92	Reconstruction of 60 Years of Chikungunya Epidemiology in the Philippines Demonstrates Episodic and Focal Transmission. <i>Journal of Infectious Diseases</i> , 2016, 213, 604-610.	1.9	72
93	Challenges in Real-Time Prediction of Infectious Disease: A Case Study of Dengue in Thailand. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0004761.	1.3	39
94	Measuring Spatial Dependence for Infectious Disease Epidemiology. <i>PLoS ONE</i> , 2016, 11, e0155249.	1.1	29
95	Joint China-US Call for Employing a Transdisciplinary Approach to Emerging Infectious Diseases. <i>EcoHealth</i> , 2015, 12, 555-559.	0.9	3
96	Triggering Interventions for Influenza: The ALERT Algorithm. <i>Clinical Infectious Diseases</i> , 2015, 60, 499-504.	2.9	12
97	Estimating the Life Course of Influenza A(H3N2) Antibody Responses from Cross-Sectional Data. <i>PLoS Biology</i> , 2015, 13, e1002082.	2.6	129
98	Differential efficacy of dengue vaccine by immune status. <i>Lancet, The</i> , 2015, 385, 1726.	6.3	13
99	Region-wide synchrony and traveling waves of dengue across eight countries in Southeast Asia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13069-13074.	3.3	112
100	Impact of Climate and Mosquito Vector Abundance on Sylvatic Arbovirus Circulation Dynamics in Senegal. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 92, 88-97.	0.6	80
101	The Hidden Burden of Dengue and Chikungunya in Chennai, India. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003906.	1.3	65
102	Epidemiology of Infant Dengue Cases Illuminates Serotype-Specificity in the Interaction between Immunity and Disease, and Changes in Transmission Dynamics. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0004262.	1.3	25
103	The Role of Viral Introductions in Sustaining Community-Based HIV Epidemics in Rural Uganda: Evidence from Spatial Clustering, Phylogenetics, and Egocentric Transmission Models. <i>PLoS Medicine</i> , 2014, 11, e1001610.	3.9	114
104	Variability in Dengue Titer Estimates from Plaque Reduction Neutralization Tests Poses a Challenge to Epidemiological Studies and Vaccine Development. <i>PLoS Neglected Tropical Diseases</i> , 2014, 8, e2952.	1.3	46
105	Revisiting Rayong: Shifting Seroprofiles of Dengue in Thailand and Their Implications for Transmission and Control. <i>American Journal of Epidemiology</i> , 2014, 179, 353-360.	1.6	76
106	Social mixing patterns in rural and urban areas of southern China. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140268.	1.2	132
107	Viral kinetics of primary dengue virus infection in non-human primates: A systematic review and individual pooled analysis. <i>Virology</i> , 2014, 452-453, 237-246.	1.1	43
108	A Shorter Time Interval Between First and Second Dengue Infections Is Associated With Protection From Clinical Illness in a School-based Cohort in Thailand. <i>Journal of Infectious Diseases</i> , 2014, 209, 360-368.	1.9	168

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109	Incubation Periods of Mosquito-Borne Viral Infections: A Systematic Review. <i>American Journal of Tropical Medicine and Hygiene</i> , 2014, 90, 882-891.	0.6	138
110	How season and serotype determine dengue transmissibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9370-9371.	3.3	6
111	Potential opportunities and perils of imperfect dengue vaccines. <i>Vaccine</i> , 2014, 32, 514-520.	1.7	34
112	A systematic review of mathematical models of mosquito-borne pathogen transmission: 1970â€“2010. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120921.	1.5	306
113	Challenges in the Interpretation of Dengue Vaccine Trial Results. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2126.	1.3	22
114	Interactions between serotypes of dengue highlight epidemiological impact of cross-immunity. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130414.	1.5	254
115	Evidence for Antigenic Seniority in Influenza A (H3N2) Antibody Responses in Southern China. <i>PLoS Pathogens</i> , 2012, 8, e1002802.	2.1	184
116	Revealing the microscale spatial signature of dengue transmission and immunity in an urban population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 9535-9538.	3.3	126
117	Models of the impact of dengue vaccines: A review of current research and potential approaches. <i>Vaccine</i> , 2011, 29, 5860-5868.	1.7	88
118	Reduction in the Incidence of Influenza A But Not Influenza B Associated With Use of Hand Sanitizer and Cough Hygiene in Schools. <i>Pediatric Infectious Disease Journal</i> , 2011, 30, 921-926.	1.1	78
119	Influenza Transmission in Households During the 1918 Pandemic. <i>American Journal of Epidemiology</i> , 2011, 174, 505-514.	1.6	83
120	Location-specific patterns of exposure to recent pre-pandemic strains of influenza A in southern China. <i>Nature Communications</i> , 2011, 2, 423.	5.8	36
121	From Re-Emergence to Hyperendemicity: The Natural History of the Dengue Epidemic in Brazil. <i>PLoS Neglected Tropical Diseases</i> , 2011, 5, e935.	1.3	125
122	Estimating seasonal drivers in childhood infectious diseases with continuous time and discrete-time models. , 2010, , .		3
123	Serotype-Specific Differences in the Risk of Dengue Hemorrhagic Fever: An Analysis of Data Collected in Bangkok, Thailand from 1994 to 2006. <i>PLoS Neglected Tropical Diseases</i> , 2010, 4, e617.	1.3	246
124	H1N1pdm in the Americas. <i>Epidemics</i> , 2010, 2, 132-138.	1.5	15
125	Outbreak of 2009 Pandemic Influenza A (H1N1) at a New York City School. <i>New England Journal of Medicine</i> , 2009, 361, 2628-2636.	13.9	284
126	The Impact of the Demographic Transition on Dengue in Thailand: Insights from a Statistical Analysis and Mathematical Modeling. <i>PLoS Medicine</i> , 2009, 6, e1000139.	3.9	190

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127	Multiyear Climate Variability and Dengue's El Niño Southern Oscillation, Weather, and Dengue Incidence in Puerto Rico, Mexico, and Thailand: A Longitudinal Data Analysis. PLoS Medicine, 2009, 6, e1000168.	3.9	217
128	Transmissibility of swine flu at Fort Dix, 1976. Journal of the Royal Society Interface, 2007, 4, 755-762.	1.5	45
129	Improved measles surveillance in Cameroon reveals two major dynamic patterns of incidence. International Journal of Infectious Diseases, 2006, 10, 148-155.	1.5	20
130	Strategies for containing an emerging influenza pandemic in Southeast Asia. Nature, 2005, 437, 209-214.	13.7	1,592
131	Dynamic effects of antibody-dependent enhancement on the fitness of viruses. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15259-15264.	3.3	133
132	Travelling waves in the occurrence of dengue haemorrhagic fever in Thailand. Nature, 2004, 427, 344-347.	13.7	409
133	Change in covid-19 risk over time following vaccination with CoronaVac: test negative case-control study. BMJ, The, 0, , e070102.	3.0	10