

# Donald K Milton

## List of Publications by Year in descending order

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Version: 2024-02-01

139  
papers

14,247  
citations

34105

52  
h-index

23533

111  
g-index

152  
all docs

152  
docs citations

152  
times ranked

14860  
citing authors

#	ARTICLE	IF	CITATIONS
1	Viral Load of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Respiratory Aerosols Emitted by Patients With Coronavirus Disease 2019 (COVID-19) While Breathing, Talking, and Singing. <i>Clinical Infectious Diseases</i> , 2022, 74, 1722-1728.	5.8	143
2	Infectious Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) in Exhaled Aerosols and Efficacy of Masks During Early Mild Infection. <i>Clinical Infectious Diseases</i> , 2022, 75, e241-e248.	5.8	89
3	Real-time ultra-sensitive detection of SARS-CoV-2 by quasi-freestanding epitaxial graphene-based biosensor. <i>Biosensors and Bioelectronics</i> , 2022, 197, 113803.	10.1	29
4	Comparison of Saliva and Midturbinate Swabs for Detection of SARS-CoV-2. <i>Microbiology Spectrum</i> , 2022, 10, e0012822.	3.0	26
5	Characterization of aerosol plumes from singing and playing wind instruments associated with the risk of airborne virus transmission. <i>Indoor Air</i> , 2022, 32, .	4.3	8
6	Influenza A (H3) illness and viral aerosol shedding from symptomatic naturally infected and experimentally infected cases. <i>Influenza and Other Respiratory Viruses</i> , 2021, 15, 154-163.	3.4	5
7	ICN: extracting interconnected communities in gene co-expression networks. <i>Bioinformatics</i> , 2021, , .	4.1	2
8	Analysis of SARS-CoV-2 antibodies in COVID-19 convalescent blood using a coronavirus antigen microarray. <i>Nature Communications</i> , 2021, 12, 6.	12.8	164
9	Link predictions for incomplete network data with outcome misclassification. <i>Statistics in Medicine</i> , 2021, 40, 1519-1534.	1.6	0
10	The effect of COVID-19 stay-at-home order and campus closure on the prevalence of acute respiratory infection symptoms in college campus cohorts. <i>Influenza and Other Respiratory Viruses</i> , 2021, 15, 331-335.	3.4	2
11	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , 2021, 372, 689-691.	12.6	192
12	Biomarker Categorization in Transcriptomic Meta-Analysis by Concordant Patterns With Application to Pan-Cancer Studies. <i>Frontiers in Genetics</i> , 2021, 12, 651546.	2.3	5
13	Measurements and Simulations of Aerosol Released while Singing and Playing Wind Instruments. <i>ACS Environmental Au</i> , 2021, 1, 71-84.	7.0	24
14	Viral RNA and infectious influenza virus on mobile phones of influenza patients in Hong Kong and the United States. <i>Journal of Infectious Diseases</i> , 2021, , .	4.0	5
15	Applying the Hierarchy of Controls: What Occupational Safety Can Teach us About Safely Navigating the Next Phase of the Global COVID-19 Pandemic. <i>Frontiers in Public Health</i> , 2021, 9, 747894.	2.7	16
16	Current Insights Into Respiratory Virus Transmission and Potential Implications for Infection Control Programs. <i>Annals of Internal Medicine</i> , 2021, 174, 1710-1718.	3.9	45
17	Microbial Aerosols. <i>Chest</i> , 2020, 157, 540-546.	0.8	13
18	Airborne transmission of SARS-CoV-2. <i>Science</i> , 2020, 370, 303-304.	12.6	215

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19	Minimal transmission in an influenza A (H3N2) human challenge-transmission model within a controlled exposure environment. <i>PLoS Pathogens</i> , 2020, 16, e1008704.	4.7	24
20	A Rosetta Stone for Understanding Infectious Drops and Aerosols. <i>Journal of the Pediatric Infectious Diseases Society</i> , 2020, 9, 413-415.	1.3	96
21	Reply to Chagla et al., and Thomas. <i>Clinical Infectious Diseases</i> , 2020, 73, e3983-e3984.	5.8	6
22	How can airborne transmission of COVID-19 indoors be minimised?. <i>Environment International</i> , 2020, 142, 105832.	10.0	933
23	Detection of air and surface contamination by SARS-CoV-2 in hospital rooms of infected patients. <i>Nature Communications</i> , 2020, 11, 2800.	12.8	703
24	Quantitative aerobiologic analysis of an influenza human challenge transmission trial. <i>Indoor Air</i> , 2020, 30, 1189-1198.	4.3	23
25	Respiratory virus shedding in exhaled breath and efficacy of face masks. <i>Nature Medicine</i> , 2020, 26, 676-680.	30.7	1,753
26	It Is Time to Address Airborne Transmission of Coronavirus Disease 2019 (COVID-19). <i>Clinical Infectious Diseases</i> , 2020, 71, 2311-2313.	5.8	798
27	Ventilation and laboratory confirmed acute respiratory infection (ARI) rates in college residence halls in College Park, Maryland. <i>Environment International</i> , 2020, 137, 105537.	10.0	51
28	Title is missing!. , 2020, 16, e1008704.		0
29	Title is missing!. , 2020, 16, e1008704.		0
30	Title is missing!. , 2020, 16, e1008704.		0
31	Infectious virus in exhaled breath of symptomatic seasonal influenza cases from a college community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1081-1086.	7.1	436
32	Protein Microarray Analysis of the Specificity and Cross-Reactivity of Influenza Virus Hemagglutinin-Specific Antibodies. <i>MSphere</i> , 2018, 3, .	2.9	45
33	Estimating large covariance matrix with network topology for high-dimensional biomedical data. <i>Computational Statistics and Data Analysis</i> , 2018, 127, 82-95.	1.2	14
34	A pilot study to assess residential noise exposure near natural gas compressor stations. <i>PLoS ONE</i> , 2017, 12, e0174310.	2.5	11
35	Hazard Ranking Methodology for Assessing Health Impacts of Unconventional Natural Gas Development and Production: The Maryland Case Study. <i>PLoS ONE</i> , 2016, 11, e0145368.	2.5	14
36	Place-based perceptions of the impacts of fracking along the Marcellus Shale. <i>Social Science and Medicine</i> , 2016, 151, 27-37.	3.8	79

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37	Pesticide monitoring on soccer fields via shoe wipes and urine samples. Environmental Research, 2016, 147, 294-296.	7.5	3
38	Log-Linear Modeling of Agreement among Expert Exposure Assessors. Annals of Occupational Hygiene, 2015, 59, 764-774.	1.9	2
39	Prevalence of asthma and allergies in children from the Greek-Cypriot and Turkish-Cypriot communities in Cyprus: a bi-communal cross-sectional study. BMC Public Health, 2013, 13, 585.	2.9	11
40	Development and Performance Evaluation of an Exhaled-Breath Bioaerosol Collector for Influenza Virus. Aerosol Science and Technology, 2013, 47, 444-451.	3.1	65
41	A multi-center ring trial of allergen analysis using fluorescent multiplex array technology. Journal of Immunological Methods, 2013, 387, 89-95.	1.4	33
42	Influenza Virus Aerosols in Human Exhaled Breath: Particle Size, Culturability, and Effect of Surgical Masks. PLoS Pathogens, 2013, 9, e1003205.	4.7	557
43	Characteristics of exhaled particle production in healthy volunteers: possible implications for infectious disease transmission. F1000Research, 2013, 2, 14.	1.6	24
44	Bacterial and Fungal Microbial Biomarkers in House Dust. , 2013, , 63-86.		0
45	Determinants of Exposure to 2-Butoxyethanol from Cleaning Tasks: A Quasi-experimental Study. Annals of Occupational Hygiene, 2012, 57, 125-35.	1.9	15
46	Screening for Oxidative Stress Elicited by Engineered Nanomaterials: Evaluation of Acellular DCFH Assay. Dose-Response, 2012, 10, dose-response.1.	1.6	30
47	What was the primary mode of smallpox transmission? Implications for biodefense. Frontiers in Cellular and Infection Microbiology, 2012, 2, 150.	3.9	65
48	Association of variants in innate immune genes with asthma and eczema. Pediatric Allergy and Immunology, 2012, 23, 315-323.	2.6	25
49	Collection of Aerosolized Human Cytokines Using Teflon® Filters. PLoS ONE, 2012, 7, e35814.	2.5	6
50	Allergen exposure modifies the relation of sensitization to fraction of exhaled nitric oxide levels in children at risk for allergy and asthma. Journal of Allergy and Clinical Immunology, 2011, 127, 1165-1172.e5.	2.9	43
51	Do We Know Enough and Do We Agree Enough to Implement Effective Non-pharmaceutical Interventions? Research Directions. Epidemiology, 2011, 22, S60.	2.7	0
52	Effects of endotoxin exposure on childhood asthma risk are modified by a genetic polymorphism in ACAA1. BMC Medical Genetics, 2011, 12, 158.	2.1	16
53	Temporal changes in the prevalence of childhood asthma and allergies in urban and rural areas of Cyprus: results from two cross sectional studies. BMC Public Health, 2011, 11, 858.	2.9	21
54	Origin of Exhaled Breath Particles from Healthy and Human Rhinovirus-Infected Subjects. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2011, 24, 137-147.	1.4	132

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55	Clinical study of multiple breath biomarkers of asthma and COPD (NO, CO <sub>2</sub> , CO and N <sub>2</sub> ) Tj ETQq1 1 0,784314 rgBT /Overle	3.0	70
56	Home Characteristics as Predictors of Bacterial and Fungal Microbial Biomarkers in House Dust. Environmental Health Perspectives, 2011, 119, 189-195.	6.0	65
57	Increased Expenditures for Other Health Conditions After an Incident of Low Back Pain. Spine, 2010, 35, 769-777.	2.0	18
58	Influenza Virus Aerosols In Human Exhaled Breath: Particle Size, Culturability, And Effect Of Surgical Masks. , 2010, , .		5
59	Effects Of Endotoxin Exposure On Childhood Asthma Risk Are Modified By A Genetic Polymorphism In ACAA1. , 2010, , .		0
60	Multicomponent Breath Analysis With Infrared Absorption Using Room-Temperature Quantum Cascade Lasers. IEEE Sensors Journal, 2010, 10, 76-84.	4.7	53
61	Quantitative assessment of airborne exposures generated during common cleaning tasks: a pilot study. Environmental Health, 2010, 9, 76.	4.0	61
62	Research findings from nonpharmaceutical intervention studies for pandemic influenza and current gaps in the research. American Journal of Infection Control, 2010, 38, 251-258.	2.3	60
63	Airborne influenza virus detection with four aerosol samplers using molecular and infectivity assays: considerations for a new infectious virus aerosol sampler. Indoor Air, 2009, 19, 433-441.	4.3	113
64	Characterization of occupational exposures to cleaning products used for common cleaning tasks-a pilot study of hospital cleaners. Environmental Health, 2009, 8, 11.	4.0	106
65	Metallic elements in exhaled breath condensate and serum of patients with exacerbation of chronic obstructive pulmonary disease. Metallomics, 2009, 1, 339.	2.4	16
66	An optimized method to detect influenza virus and human rhinovirus from exhaled breath and the airborne environment. Journal of Environmental Monitoring, 2009, 11, 314-317.	2.1	45
67	Development of a new isotopically labeled internal standard for ergosterol measurement by GC/MS. Journal of Environmental Monitoring, 2009, 11, 1513.	2.1	11
68	Effects of dog ownership in early childhood on immune development and atopic diseases. Clinical and Experimental Allergy, 2008, 38, 1635-1643.	2.9	98
69	Influenza and Ultraviolet Germicidal Irradiation. Virology Journal, 2008, 5, 149.	3.4	4
70	Inactivation of Poxviruses by Upper-Room UVC Light in a Simulated Hospital Room Environment. PLoS ONE, 2008, 3, e3186.	2.5	46
71	Influenza Virus in Human Exhaled Breath: An Observational Study. PLoS ONE, 2008, 3, e2691.	2.5	408
72	Characterization of UVC Light Sensitivity of Vaccinia Virus. Applied and Environmental Microbiology, 2007, 73, 5760-5766.	3.1	62

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73	The validation of work-related self-reported asthma exacerbation. <i>Occupational and Environmental Medicine</i> , 2007, 64, 343-348.	2.8	20
74	Exposure to dust mite allergen and endotoxin in early life and asthma and atopy in childhood. <i>Journal of Allergy and Clinical Immunology</i> , 2007, 120, 144-149.	2.9	219
75	Regression calibration for logistic regression with multiple surrogates for one exposure. <i>Journal of Statistical Planning and Inference</i> , 2007, 137, 449-461.	0.6	21
76	Case-by-Case Assessment of Adult-Onset Asthma Attributable to Occupational Exposures Among Members of a Health Maintenance Organization. <i>Journal of Occupational and Environmental Medicine</i> , 2006, 48, 400-407.	1.7	25
77	Partial questionnaire designs, questionnaire non-response, and attributable fraction: applications to adult onset asthma. <i>Statistics in Medicine</i> , 2006, 25, 1499-1519.	1.6	3
78	Suppression of ionization and optimization of assay for 3-hydroxy fatty acids in house dust using ion-trap mass spectrometry. <i>American Journal of Industrial Medicine</i> , 2006, 49, 286-295.	2.1	5
79	Recombinant factor C assay for measuring endotoxin in house dust: Comparison with LAL, and (1- $\alpha$ )-D-glucans. <i>American Journal of Industrial Medicine</i> , 2006, 49, 296-300.	2.1	52
80	History and results of the two inter-laboratory round robin endotoxin assay studies on cotton dust. <i>American Journal of Industrial Medicine</i> , 2006, 49, 301-306.	2.1	27
81	Home Endotoxin Exposure and Wheeze in Infants: Correction for Bias Due to Exposure Measurement Error. <i>Environmental Health Perspectives</i> , 2006, 114, 135-140.	6.0	52
82	Hypersensitivity Pneumonitis Associated with Environmental Mycobacteria. <i>Environmental Health Perspectives</i> , 2005, 113, 767-770.	6.0	57
83	Within-Home versus Between-Home Variability of House Dust Endotoxin in a Birth Cohort. <i>Environmental Health Perspectives</i> , 2005, 113, 1516-1521.	6.0	38
84	Interlaboratory evaluation of endotoxin analyses in agricultural dusts—comparison of LAL assay and mass spectrometry. <i>Journal of Environmental Monitoring</i> , 2005, 7, 1371.	2.1	51
85	Polymorphisms in the 5' region of the CD14 gene are associated with eczema in young children. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 115, 1056-1062.	2.9	48
86	Infant home endotoxin is associated with reduced allergen-stimulated lymphocyte proliferation and IL-13 production in childhood. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 116, 431-437.	2.9	23
87	Airborne Transmission of Communicable Infection—The Elusive Pathway. <i>New England Journal of Medicine</i> , 2004, 350, 1710-1712.	27.0	282
88	Detection of Airborne Rhinovirus and Its Relation to Outdoor Air Supply in Office Environments. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 169, 1187-1190.	5.6	148
89	Endotoxin Exposure and Eczema in the First Year of Life. <i>Pediatrics</i> , 2004, 114, 13-18.	2.1	84
90	Characterization of Lipopolysaccharides Present in Settled House Dust. <i>Applied and Environmental Microbiology</i> , 2004, 70, 262-267.	3.1	40

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91	Airborne rhinovirus detection and effect of ultraviolet irradiation on detection by a semi-nested RT-PCR assay. BMC Public Health, 2003, 3, 5.	2.9	57
92	Characterization of endotoxin and 3-hydroxy fatty acid levels in air and settled dust from commercial aircraft cabins. Indoor Air, 2003, 13, 166-173.	4.3	28
93	Risk of indoor airborne infection transmission estimated from carbon dioxide concentration. Indoor Air, 2003, 13, 237-245.	4.3	456
94	A longitudinal study of adult-onset asthma incidence among HMO members. Environmental Health, 2003, 2, 10.	4.0	39
95	Effect of ultraviolet germicidal lights installed in office ventilation systems on workers' health and wellbeing: double-blind multiple crossover trial. Lancet, The, 2003, 362, 1785-1791.	13.7	111
96	American Thoracic Society Statement. American Journal of Respiratory and Critical Care Medicine, 2003, 167, 787-797.	5.6	714
97	Fungal Levels in the Home and Lower Respiratory Tract Illnesses in the First Year of Life. American Journal of Respiratory and Critical Care Medicine, 2003, 168, 232-237.	5.6	120
98	The work environment and workers' health in four large office buildings.. Environmental Health Perspectives, 2003, 111, 1242-1248.	6.0	92
99	Improving the Health of Workers in Indoor Environments: Priority Research Needs for a National Occupational Research Agenda. American Journal of Public Health, 2002, 92, 1430-1440.	2.7	179
100	Comparison of Endotoxin Assays Using Agricultural Dusts. AIHA Journal: A Journal for the Science of Occupational and Environmental Health and Safety, 2002, 63, 430-438.	0.4	36
101	Airborne Fungi and Endotoxin Concentrations in Different Areas within Textile Plants in Taiwan: A 3-Year Study. Environmental Research, 2002, 89, 58-65.	7.5	34
102	A longitudinal analysis of wheezing in young children: The independent effects of early life exposure to house dust endotoxin, allergens, and pets. Journal of Allergy and Clinical Immunology, 2002, 110, 736-742.	2.9	190
103	A study of indoor carbon dioxide levels and sick leave among office workers. Environmental Health, 2002, 1, 3.	4.0	23
104	Diagnosis and management of occupational asthma. Immunology and Allergy Clinics of North America, 2002, 22, 791-806.	1.9	3
105	Populations and determinants of airborne fungi in large office buildings.. Environmental Health Perspectives, 2002, 110, 777-782.	6.0	80
106	Dustborne fungi in large office buildings. Mycopathologia, 2002, 154, 93-106.	3.1	42
107	Endotoxin-stimulated innate immunity: A contributing factor for asthma. Journal of Allergy and Clinical Immunology, 2001, 108, 157-166.	2.9	190
108	Hypersensitivity pneumonitis in a metal-working environment. American Journal of Industrial Medicine, 2001, 39, 616-628.	2.1	75

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109	Animal and worker exposure to dust and biological particles in animal care houses. <i>Aerobiologia</i> , 2001, 17, 49-59.	1.7	7
110	Enzyme-Linked Immunosorbent Assay Specific for (1 $\alpha$ '6) Branched, (1 $\alpha$ '3)- $\beta$ -D-Glucan Detection in Environmental Samples. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5420-5424.	3.1	46
111	House Dust Endotoxin and Wheeze in the First Year of Life. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 322-328.	5.6	327
112	Characterization and Variability of Endotoxin and 3-Hydroxy Fatty Acids in an Office Building During a Particle Intervention Study. <i>Indoor Air</i> , 2000, 10, 2-12.	4.3	35
113	Risk of Sick Leave Associated with Outdoor Air Supply Rate, Humidification, and Occupant Complaints. <i>Indoor Air</i> , 2000, 10, 212-221.	4.3	230
114	Longitudinal study of dust and airborne endotoxin in the home.. <i>Environmental Health Perspectives</i> , 2000, 108, 1023-1028.	6.0	158
115	Preliminary Report on the Results of the Second Phase of a Round-Robin Endotoxin Assay Study Using Cotton Dust. <i>Journal of Occupational and Environmental Hygiene</i> , 2000, 15, 152-157.	0.4	24
116	Predictors of Repeated Wheeze in the First Year of Life. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999, 160, 227-236.	5.6	281
117	Use of quadrupole GC-MS and ion trap GC-MS-MS for determining 3-hydroxy fatty acids in settled house dust: relation to endotoxin activity. <i>Journal of Environmental Monitoring</i> , 1999, 1, 163-168.	2.1	57
118	Risk and incidence of asthma attributable to occupational exposure among HMO members. , 1998, 33, 1-10.		118
119	Environmental Endotoxin Measurement: Interference and Sources of Variation in the Limulus Assay of House Dust. <i>AIHA Journal</i> , 1997, 58, 861-867.	0.4	77
120	Field Evaluation of Endotoxin Air Sampling Assay Methods. <i>AIHA Journal</i> , 1997, 58, 792-799.	0.4	58
121	Mortality studies of machining fluid exposure in the automobile industry IV; a case-control study of lung cancer. , 1997, 31, 525-535.		36
122	A field investigation of the acute respiratory effects of metal working fluids. I. Effects of aerosol exposures. , 1997, 31, 756-766.		44
123	Stillbirth After Occupational Exposure to N-Methyl-2 Pyrrolidone. <i>Journal of Occupational and Environmental Medicine</i> , 1997, 39, 394.	1.7	6
124	Field Evaluation of Endotoxin Air Sampling Assay Methods. <i>AIHA Journal</i> , 1997, 58, 792-799.	0.4	2
125	Environmental Endotoxin Measurement: Interference and Sources of Variation in the Limulus Assay of House Dust. <i>AIHA Journal</i> , 1997, 58, 861-867.	0.4	4
126	Worker Exposure to Endotoxin, Phenolic Compounds, and Formaldehyde in a Fiberglass Insulation Manufacturing Plant. <i>AIHA Journal</i> , 1996, 57, 889-896.	0.4	21



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127	Exposure Assessment for a Field Investigation of the Acute Respiratory Effects of Metalworking Fluids. I. Summary of Findings. AIHA Journal, 1996, 57, 1154-1162.	0.4	39
128	Endotoxin exposure-response in a fiberglass manufacturing facility. , 1996, 29, 3-13.		81
129	Stillbirth after Occupational Exposure to N-Methyl-2-Pyrrolidone. Journal of Occupational and Environmental Medicine, 1996, 38, 705-713.	1.7	60
130	Cross-sectional follow-up of a flu-like respiratory illness among fiberglass manufacturing employees: Endotoxin exposure associated with two distinct sequelae. American Journal of Industrial Medicine, 1995, 28, 469-488.	2.1	52
131	Home Humidifiers as a Potential Source of Exposure to Microbial Pathogens, Endotoxins, and Allergens. Indoor Air, 1995, 5, 171-178.	4.3	23
132	Cotton Dust, Endotoxin, and Emphysema: A Reevaluation and Implications for Other Organic Dusts and Mists. Seminars in Respiratory and Critical Care Medicine, 1993, 14, 226-233.	2.1	0
133	Comparison of Methods for Analysis of Airborne Endotoxin. Journal of Occupational and Environmental Hygiene, 1993, 8, 761-767.	0.4	26
134	Environmental endotoxin measurement: The Kinetic Limulus Assay with Resistant-parallel-line Estimation. Environmental Research, 1992, 57, 212-230.	7.5	85
135	Endotoxin Measurement: Aerosol Sampling and Application of a New Limulus Method. AIHA Journal, 1990, 51, 331-337.	0.4	70
136	Toxicity of Intratracheally Instilled Cotton Dust, Cellulose, and Endotoxin. The American Review of Respiratory Disease, 1990, 142, 184-192.	2.9	50
137	Endotoxin Measurement: Aerosol Sampling and Application of a New Limulus Method. AIHA Journal, 1990, 51, 331-338.	0.4	1
138	Cotton dust contains proteolytic and elastolytic enzymes not inhibited by alpha-1-proteinase inhibitor. American Journal of Industrial Medicine, 1986, 9, 247-260.	2.1	7
139	Detection of air and surface contamination by SARS-CoV-2 in hospital rooms of infected patients. , 0, .		1