

Nicholas S Peters

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

3,191
citations

28
h-index

53
g-index

130
ext. papers

3,910
ext. citations

6.1
avg, IF

5.11
L-index

#	Paper	IF	Citations
123	Wearable In-Ear PPG: Detailed Respiratory Variations Enable Classification of COPD.. <i>IEEE Transactions on Biomedical Engineering</i> , 2022 , PP,	5	3
122	Automatic Diagnosis Labeling of Cardiovascular MRI by Using Semisupervised Natural Language Processing of Text Reports.. <i>Radiology: Artificial Intelligence</i> , 2022 , 4, e210085	8.7	1
121	Point-of-care screening for heart failure with reduced ejection fraction using artificial intelligence during ECG-enabled stethoscope examination in London, UK: a prospective, observational, multicentre study.. <i>The Lancet Digital Health</i> , 2022 ,	14.4	1
120	Prognostic Significance of Ventricular Arrhythmias in 13444 Patients With Acute Coronary Syndrome: A Retrospective Cohort Study Based on Routine Clinical Data (NIHR Health Informatics Collaborative VA-ACS Study).. <i>Journal of the American Heart Association</i> , 2022 , e024260	6	0
119	Classification of Fibrillation Organisation Using Electrocardiograms to Guide Mechanism-Directed Treatments. <i>Frontiers in Physiology</i> , 2021 , 12, 712454	4.6	0
118	A Multicenter External Validation of a Score Model to Predict Risk of Events in Patients With Brugada Syndrome. <i>American Journal of Cardiology</i> , 2021 , 160, 53-59	3	4
117	Rotigaptide Infusion for the First 7 Days After Myocardial Infarction-Reperfusion Reduced Late Complexity of Myocardial Architecture of the Healing Border-Zone and Arrhythmia Inducibility. <i>Journal of the American Heart Association</i> , 2021 , 10, e020006	6	2
116	The Impact of the COVID-19 Pandemic on the Uptake of Influenza Vaccine: UK-Wide Observational Study. <i>JMIR Public Health and Surveillance</i> , 2021 , 7, e26734	11.4	23
115	RETRO-MAPPING: A New Approach to Activation Mapping in Persistent Atrial Fibrillation Reveals Evidence of Spatiotemporal Stability. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2021 , 14, e009602	6.4	1
114	Ventricular fibrillation mechanism and global fibrillatory organization are determined by gap junction coupling and fibrosis pattern. <i>Cardiovascular Research</i> , 2021 , 117, 1078-1090	9.9	16
113	Electrocardiographic predictors of successful resynchronization of left bundle branch block by His bundle pacing. <i>Journal of Cardiovascular Electrophysiology</i> , 2021 , 32, 428-438	2.7	3
112	Cycle Length Evaluation in Persistent Atrial Fibrillation Using Kernel Density Estimation to Identify Transient and Stable Rapid Atrial Activity. <i>Cardiovascular Engineering and Technology</i> , 2021 , 1	2.2	0
111	Structure and function of the ventricular tachycardia isthmus. <i>Heart Rhythm</i> , 2021 ,	6.7	3
110	In vivo grafting of large engineered heart tissue patches for cardiac repair. <i>JCI Insight</i> , 2021 , 6,	9.9	3
109	Determinants of Shielding Behavior During the COVID-19 Pandemic and Associations With Well-being Among National Health Service Patients: Longitudinal Observational Study. <i>JMIR Public Health and Surveillance</i> , 2021 , 7, e30460	11.4	2
108	Factors Affecting Engagement in Web-Based Health Care Patient Information: Narrative Review of the Literature. <i>Journal of Medical Internet Research</i> , 2021 , 23, e19896	7.6	
107	Ectopy-triggering ganglionated plexus ablation to prevent atrial fibrillation: GANGLIA-AF study.. <i>Heart Rhythm</i> , 2021 ,	6.7	4

106	Survey of current perspectives on consumer-available digital health devices for detecting atrial fibrillation. <i>Cardiovascular Digital Health Journal</i> , 2020 , 1, 21-29	2	10
105	Granger Causality-Based Analysis for Classification of Fibrillation Mechanisms and Localization of Rotational Drivers. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008237	6.4	6
104	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e007952	6.4	38
103	Understanding the transition from paroxysmal to persistent atrial fibrillation. <i>Physical Review Research</i> , 2020 , 2, 023311	3.9	0
102	Challenges Associated with Interpreting Mechanisms of AF. <i>Arrhythmia and Electrophysiology Review</i> , 2020 , 8, 273-284	3.2	5
101	Artificial Intelligence, Data Sensors and Interconnectivity: Future Opportunities for Heart Failure. <i>Cardiac Failure Review</i> , 2020 , 6, e11	4.2	8
100	Within-patient comparison of His-bundle pacing, right ventricular pacing, and right ventricular pacing avoidance algorithms in patients with PR prolongation: Acute hemodynamic study. <i>Journal of Cardiovascular Electrophysiology</i> , 2020 , 31, 2964-2974	2.7	0
99	Left Atrial Enhancement Correlates With Myocardial Conduction Velocity in Patients With Persistent Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2020 , 11, 570203	4.6	2
98	The ectopy-triggering ganglionated plexuses in atrial fibrillation. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2020 , 228, 102699	2.4	4
97	Slow uniform electrical activation during sinus rhythm is an indicator of reentrant VT isthmus location and orientation in an experimental model of myocardial infarction. <i>Computer Methods and Programs in Biomedicine</i> , 2020 , 196, 105666	6.9	3
96	Anatomical Distribution of Ectopy-Triggering Plexuses in Patients With Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008715	6.4	2
95	Discriminating electrocardiographic responses to His-bundle pacing using machine learning. <i>Cardiovascular Digital Health Journal</i> , 2020 , 1, 11-20	2	7
94	Development of a pro-arrhythmic ex vivo intact human and porcine model: cardiac electrophysiological changes associated with cellular uncoupling. <i>Pflugers Archiv European Journal of Physiology</i> , 2020 , 472, 1435-1446	4.6	1
93	Toward Mechanism-Directed Electrophenotype-Based Treatments for Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2020 , 11, 987	4.6	6
92	In-Ear SpO ₂ : A Tool for Wearable, Unobtrusive Monitoring of Core Blood Oxygen Saturation. <i>Sensors</i> , 2020 , 20,	3.8	16
91	Response by Handa et al to Letter Regarding Article, "Granger Causality-Based Analysis for Classification of Fibrillation Mechanisms and Localization of Rotational Drivers". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008951	6.4	
90	Belief of having had unconfirmed Covid-19 infection reduces willingness to participate in app-based contact tracing. <i>Npj Digital Medicine</i> , 2020 , 3, 146	15.7	14
89	Addressing challenges of quantitative methodologies and event interpretation in the study of atrial fibrillation. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 178, 113-122	6.9	1

88	Voltage during atrial fibrillation is superior to voltage during sinus rhythm in localizing areas of delayed enhancement on magnetic resonance imaging: An assessment of the posterior left atrium in patients with persistent atrial fibrillation. <i>Heart Rhythm</i> , 2019 , 16, 1357-1367	6.7	21
87	Optimum lesion set and predictors of outcome in persistent atrial fibrillation ablation: a meta-regression analysis. <i>Europace</i> , 2019 , 21, 1176-1184	3.9	10
86	Quantification of Electromechanical Coupling to Prevent Inappropriate Implantable Cardioverter-Defibrillator Shocks. <i>JACC: Clinical Electrophysiology</i> , 2019 , 5, 705-715	4.6	1
85	Fundamentals of Cardiac Mapping 2019 , 70-83		
84	Meta-Analysis of Randomized Controlled Trials of Atrial Fibrillation Ablation With Pulmonary Vein Isolation Versus Without. <i>JACC: Clinical Electrophysiology</i> , 2019 , 5, 968-976	4.6	3
83	Interventricular Differences in Action Potential Duration Restitution Contribute to Dissimilar Ventricular Rhythms in Perfused Hearts. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 34	5.4	4
82	Identifying Potential Re-Entrant Circuit Locations From Atrial Fibre Maps. <i>Computing in Cardiology</i> , 2019 , 2019, 1-4	1.1	2
81	Standardised Framework for Quantitative Analysis of Fibrillation Dynamics. <i>Scientific Reports</i> , 2019 , 9, 16671	4.9	10
80	Unified mechanism of local drivers in a percolation model of atrial fibrillation. <i>Physical Review E</i> , 2019 , 100, 062406	2.4	5
79	Rethinking multiscale cardiac electrophysiology with machine learning and predictive modelling. <i>Computers in Biology and Medicine</i> , 2019 , 104, 339-351	7	26
78	Identification and Characterization of Sites Where Persistent Atrial Fibrillation Is Terminated by Localized Ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005258	6.4	26
77	Effects of refractory gradients and ablation on fibrillatory activity. <i>Computers in Biology and Medicine</i> , 2018 , 95, 175-187	7	3
76	Use of an automaton model to suggest methods for cessation of intractable fibrillatory activity. <i>Computers in Biology and Medicine</i> , 2018 , 102, 357-368	7	1
75	Analytical approaches for myocardial fibrillation signals. <i>Computers in Biology and Medicine</i> , 2018 , 102, 315-326	7	12
74	Machine learning methods for locating re-entrant drivers from electrograms in a model of atrial fibrillation. <i>Royal Society Open Science</i> , 2018 , 5, 172434	3.3	18
73	Concurrent micro- to macro-cardiac electrophysiology in myocyte cultures and human heart slices. <i>Scientific Reports</i> , 2018 , 8, 6947	4.9	12
72	Characterisation of re-entrant circuit (or rotational activity) in vitro using the HL1-6 myocyte cell line. <i>Journal of Molecular and Cellular Cardiology</i> , 2018 , 119, 155-164	5.8	11
71	Interaction of Localized Drivers and Disorganized Activation in Persistent Atrial Fibrillation: Reconciling Putative Mechanisms Using Multiple Mapping Techniques. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018 , 11, e005846	6.4	22

70	Source-Sink Mismatch Causing Functional Conduction Block in Re-Entrant Ventricular Tachycardia. <i>JACC: Clinical Electrophysiology</i> , 2018 , 4, 1-16	4.6	26
69	Determinants of new wavefront locations in cholinergic atrial fibrillation. <i>Europace</i> , 2018 , 20, iii3-iii15	3.9	10
68	A novel approach to mapping the atrial ganglionated plexus network by generating a distribution probability atlas. <i>Journal of Cardiovascular Electrophysiology</i> , 2018 , 29, 1624-1634	2.7	17
67	Spatial Resolution Requirements for Accurate Identification of Drivers of Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017 , 10, e004899	6.4	71
66	Characterization and consistency of interactions of triggers and substrate at the onset of paroxysmal atrial fibrillation. <i>Europace</i> , 2017 , 19, 1454-1462	3.9	8
65	Visualizing Localized Reentry With Ultra-High Density Mapping in Iatrogenic Atrial Tachycardia: Beware Pseudo-Reentry. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017 , 10,	6.4	39
64	Rotor Tracking Using Phase of Electrograms Recorded During Atrial Fibrillation. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 910-923	4.7	26
63	Functional consequences of co-expressing connexin40 or connexin45 with connexin43 on intercellular electrical coupling. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 483, 191-196	3.4	14
62	Hierarchical statistical techniques are necessary to draw reliable conclusions from analysis of isolated cardiomyocyte studies. <i>Cardiovascular Research</i> , 2017 , 113, 1743-1752	9.9	51
61	The sawtooth EKG pattern of typical atrial flutter is not related to slow conduction velocity at the cavotricuspid isthmus. <i>Journal of Cardiovascular Electrophysiology</i> , 2017 , 28, 1445-1453	2.7	2
60	Direct Adherence Measurement Using an Ingestible Sensor Compared With Self-Reporting in High-Risk Cardiovascular Disease Patients Who Knew They Were Being Measured: A Prospective Intervention. <i>JMIR MHealth and UHealth</i> , 2017 , 5, e76	5.5	14
59	Enhancement of Gap Junction Function During Acute Myocardial Infarction Modifies Healing and Reduces Late Ventricular Arrhythmia Susceptibility. <i>JACC: Clinical Electrophysiology</i> , 2016 , 2, 574-582	4.6	22
58	Formation of Functional Conduction Block During the Onset of Reentrant Ventricular Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9,	6.4	17
57	Myocardial architecture and patient variability in clinical patterns of atrial fibrillation. <i>Physical Review E</i> , 2016 , 94, 042401	2.4	11
56	A Prospective Study of Ripple Mapping the Post-Infarct Ventricular Scar to Guide Substrate Ablation for Ventricular Tachycardia. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9,	6.4	30
55	Formation of reentrant circuits in the mid-myocardial infarct border zone. <i>Computers in Biology and Medicine</i> , 2016 , 71, 205-13	7	8
54	Post-operative atrial fibrillation is associated with a pre-existing structural and electrical substrate in human right atrial myocardium. <i>International Journal of Cardiology</i> , 2016 , 220, 580-8	3.2	17
53	Simple model for identifying critical regions in atrial fibrillation. <i>Physical Review Letters</i> , 2015 , 114, 028104	4.28	104

52	Model of unidirectional block formation leading to reentrant ventricular tachycardia in the infarct border zone of postinfarction canine hearts. <i>Computers in Biology and Medicine</i> , 2015 , 62, 254-63	7	16
51	Autologous dermal fibroblast injections slow atrioventricular conduction and ventricular rate in atrial fibrillation in swine. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 439-46	6.4	3
50	Rotor mapping and ablation to treat atrial fibrillation. <i>Current Opinion in Cardiology</i> , 2015 , 30, 24-32	2.1	17
49	Right ventricle segmentation from cardiac MRI: a collation study. <i>Medical Image Analysis</i> , 2015 , 19, 187-202	3.4	144
48	Application of ripple mapping to visualize slow conduction channels within the infarct-related left ventricular scar. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 76-86	6.4	38
47	Relationship between connexin expression and gap-junction resistivity in human atrial myocardium. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 321-9	6.4	17
46	High-order spectral/ element discretisation for reaction-diffusion problems on surfaces: Application to cardiac electrophysiology. <i>Journal of Computational Physics</i> , 2014 , 257, 813-829	4.1	32
45	Characterisation of connexin expression and electrophysiological properties in stable clones of the HL-1 myocyte cell line. <i>PLoS ONE</i> , 2014 , 9, e90266	3.7	32
44	Model of bipolar electrogram fractionation and conduction block associated with activation wavefront direction at infarct border zone lateral isthmus boundaries. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 152-63	6.4	19
43	The rotor revolution: conduction at the eye of the storm in atrial fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 1230-6	6.4	13
42	Architectural correlates of myocardial conduction: changes to the topography of cellular coupling, intracellular conductance, and action potential propagation with hypertrophy in Guinea-pig ventricular myocardium. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 1198-204	6.4	10
41	Organizational index mapping to identify focal sources during persistent atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2014 , 25, 355-363	2.7	24
40	An automated algorithm for determining conduction velocity, wavefront direction and origin of focal cardiac arrhythmias using a multipolar catheter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 1583-6	0.9	16
39	Adverse remodeling of the electrophysiological response to ischemia-reperfusion in human heart failure is associated with remodeling of metabolic gene expression. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014 , 7, 875-82	6.4	18
38	Selective heart rate reduction with ivabradine slows ischaemia-induced electrophysiological changes and reduces ischaemia-reperfusion-induced ventricular arrhythmias. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 59, 67-75	5.8	21
37	Relationship between gap-junctional conductance and conduction velocity in mammalian myocardium. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 1208-14	6.4	47
36	Characterization of the left atrial neural network and its impact on autonomic modification procedures. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 632-40	6.4	42
35	The role of gap junctions in the arrhythmias of ischemia and infarction. <i>Heart Rhythm</i> , 2012 , 9, 308-11	6.7	24

34	Spatiotemporal behavior of high dominant frequency during paroxysmal and persistent atrial fibrillation in the human left atrium. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 650-8	6.4	50
33	Effects on arrhythmogenesis and arrhythmic threshold of injection of autologous fibroblasts into myocardial infarcts in adult pigs. <i>Journal of Cardiovascular Translational Research</i> , 2012 , 5, 337-44	3.3	2
32	Stimulation of the intrinsic cardiac autonomic nervous system results in a gradient of fibrillatory cycle length shortening across the atria during atrial fibrillation in humans. <i>Journal of Cardiovascular Electrophysiology</i> , 2011 , 22, 1224-31	2.7	19
31	SERCA2a gene transfer decreases sarcoplasmic reticulum calcium leak and reduces ventricular arrhythmias in a model of chronic heart failure. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2011 , 4, 362-72	6.4	125
30	Mechanisms that initiate ventricular tachycardia in the infarcted human heart. <i>Heart Rhythm</i> , 2010 , 7, 57-64	6.7	26
29	Recommendations for successful training on methods of delivery of biologics for cardiac regeneration: a report of the International Society for Cardiovascular Translational Research. <i>JACC: Cardiovascular Interventions</i> , 2010 , 3, 265-75	5	59
28	Detection of the diastolic pathway, circuit morphology, and inducibility of human postinfarction ventricular tachycardia from mapping in sinus rhythm. <i>Heart Rhythm</i> , 2008 , 5, 981-91	6.7	28
27	Cardiac stem cell therapy and arrhythmogenicity: prometheus and the arrows of Apollo and Artemis. <i>Journal of Cardiovascular Translational Research</i> , 2008 , 1, 207-16	3.3	1
26	Model of reentrant ventricular tachycardia based on infarct border zone geometry predicts reentrant circuit features as determined by activation mapping. <i>Heart Rhythm</i> , 2007 , 4, 1034-45	6.7	63
25	Characterization of the effects of single ventricular extrastimuli on endocardial activation in human infarct-related ventricular tachycardia. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 1315-23	15.1	9
24	Overexpression of connexin 43 using a retroviral vector improves electrical coupling of skeletal myoblasts with cardiac myocytes in vitro. <i>BMC Cardiovascular Disorders</i> , 2006 , 6, 25	2.3	22
23	Gap junctions: clarifying the complexities of connexins and conduction. <i>Circulation Research</i> , 2006 , 99, 1156-8	15.7	12
22	Heterogeneous gap junction remodeling in reentrant circuits in the epicardial border zone of the healing canine infarct. <i>Cardiovascular Research</i> , 2006 , 72, 241-9	9.9	91
21	The effects of carbenoxolone on human myocardial conduction: a tool to investigate the role of gap junctional uncoupling in human arrhythmogenesis. <i>Journal of the American College of Cardiology</i> , 2006 , 48, 1242-9	15.1	37
20	Arrhythmias after cell transplantation for myocardial regeneration: natural history or result of the intervention?. <i>Journal of Cardiovascular Electrophysiology</i> , 2005 , 16, 1255-7	2.7	13
19	Targeting atrio-atrial conduction in the post-orthotopic heart transplant patient. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2005 , 13, 31-4	2.4	1
18	Mechanism of pacing-induced ventricular fibrillation in the infarcted human heart. <i>Circulation</i> , 2004 , 110, 1725-30	16.7	21
17	Localization of the isthmus in reentrant circuits by analysis of electrograms derived from clinical noncontact mapping during sinus rhythm and ventricular tachycardia. <i>Journal of Cardiovascular Electrophysiology</i> , 2004 , 15, 27-36	2.7	32

16	Relationship between connexins and atrial activation during human atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2004 , 15, 206-16	2.7	66
15	Remodeling of gap junctional channel function in epicardial border zone of healing canine infarcts. <i>Circulation Research</i> , 2003 , 92, 437-43	15.7	149
14	Characterization of left atrial activation in the intact human heart. <i>Circulation</i> , 2003 , 107, 733-9	16.7	207
13	Characteristics of wavefront propagation in reentrant circuits causing human ventricular tachycardia. <i>Circulation</i> , 2002 , 105, 2172-8	16.7	25
12	Mechanisms of resetting reentrant circuits in canine ventricular tachycardia. <i>Circulation</i> , 2001 , 103, 1148-56	16.7	7
11	Gap junction remodeling in infarction: does it play a role in arrhythmogenesis?. <i>Journal of Cardiovascular Electrophysiology</i> , 2000 , 11, 488-90	2.7	27
10	Catheter ablation of ventricular tachycardia related to coronary artery disease: the role of noncontact mapping. <i>Current Cardiology Reports</i> , 2000 , 2, 529-36	4.2	6
9	Feasibility of a noncontact catheter for endocardial mapping of human ventricular tachycardia. <i>Circulation</i> , 1999 , 99, 2543-52	16.7	164
8	Characteristics of the temporal and spatial excitable gap in anisotropic reentrant circuits causing sustained ventricular tachycardia. <i>Circulation Research</i> , 1998 , 82, 279-93	15.7	52
7	Disturbed connexin43 gap junction distribution correlates with the location of reentrant circuits in the epicardial border zone of healing canine infarcts that cause ventricular tachycardia. <i>Circulation</i> , 1997 , 95, 988-96	16.7	375
6	Mechanisms causing sustained ventricular tachycardia with multiple QRS morphologies: results of mapping studies in the infarcted canine heart. <i>Circulation</i> , 1997 , 96, 3721-31	16.7	38
5	New insights into myocardial arrhythmogenesis: distribution of gap-junctional coupling in normal, ischaemic and hypertrophied human hearts. <i>Clinical Science</i> , 1996 , 90, 447-52	6.5	111
4	Myocardial gap junction organization in ischemia and infarction. <i>Microscopy Research and Technique</i> , 1995 , 31, 375-86	2.8	42
3	The Impact of the COVID-19 Pandemic on the Uptake of Influenza Vaccine: UK-Wide Observational Study (Preprint)		1
2	Inadequate intention to receive Covid-19 vaccination: indicators for public health messaging needed to improve uptake in UK		1
1	Increasing but inadequate intention to receive Covid-19 vaccination over the first 50 days of impact of the more infectious variant and roll-out of vaccination in UK: indicators for public health messaging		2