

Jean-Claude Barthelemy

List of Publications by Year in descending order

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122
papers

4,334
citations

101535

36
h-index

128286

60
g-index

125
all docs

125
docs citations

125
times ranked

6697
citing authors

#	ARTICLE	IF	CITATIONS
1	Even a low-dose of moderate-to-vigorous physical activity reduces mortality by 22% in adults aged 60+ years: a systematic review and meta-analysis. <i>British Journal of Sports Medicine</i> , 2015, 49, 1262-1267.	6.7	414
2	Wavelet transform to quantify heart rate variability and to assess its instantaneous changes. <i>Journal of Applied Physiology</i> , 1999, 86, 1081-1091.	2.5	194
3	Relationship Among the Severity of Sleep Apnea Syndrome, Cardiac Arrhythmias, and Autonomic Imbalance. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2003, 26, 669-677.	1.2	135
4	Premature Atrial Contractions in the General Population. <i>Circulation</i> , 2012, 126, 2302-2308.	1.6	135
5	Autonomic adaptations to intensive and overload training periods: a laboratory study. <i>Medicine and Science in Sports and Exercise</i> , 2002, 34, 1660-1666.	0.4	118
6	Assessing renal graft function in clinical trials: Can tests predicting glomerular filtration rate substitute for a reference method?. <i>Kidney International</i> , 2004, 65, 289-297.	5.2	114
7	Heart rate variability in an ageing population and its association with lifestyle and cardiovascular risk factors: results of the SÂPALDIA study. <i>Europace</i> , 2006, 8, 521-529.	1.7	113
8	Autonomic Nervous System Activity and Decline as Prognostic Indicators of Cardiovascular and Cerebrovascular Events: The "PROOF" Study. <i>Neuroepidemiology</i> , 2007, 29, 18-28.	2.3	111
9	HRVanalysis: A Free Software for Analyzing Cardiac Autonomic Activity. <i>Frontiers in Physiology</i> , 2016, 7, 557.	2.8	106
10	Automatic Cardiac Event Recorders Reveal Paroxysmal Atrial Fibrillation after Unexplained Strokes or Transient Ischemic Attacks. <i>Annals of Noninvasive Electrocardiology</i> , 2003, 8, 194-199.	1.1	100
11	Frequent and Prolonged Asymptomatic Episodes of Paroxysmal Atrial Fibrillation Revealed by Automatic Long-Term Event Recorders in Patients with a Negative 24-Hour Holter. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002, 25, 1587-1593.	1.2	95
12	Autonomic nervous system activity in premature and full-term infants from theoretical term to 7Âyears. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2007, 136, 105-109.	2.8	93
13	Frequency of pain crises in sickle cell anemia and its relationship with the sympatho-vagal balance, blood viscosity and inflammation. <i>Haematologica</i> , 2011, 96, 1589-1594.	3.5	93
14	Skeletal Muscle Lipid Content and Oxidative Activity in Relation to Muscle Fiber Type in Aging and Metabolic Syndrome. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2015, 70, 566-576.	3.6	93
15	Autonomic cardiac control of very preterm newborns: A prolonged dysfunction. <i>Early Human Development</i> , 2008, 84, 681-687.	1.8	85
16	Interval training in elderly men increases both heart rate variability and baroreflex activity. <i>Clinical Autonomic Research</i> , 2005, 15, 107-115.	2.5	78
17	Effects of passive smoking on heart rate variability, heart rate and blood pressure: an observational study. <i>International Journal of Epidemiology</i> , 2007, 36, 834-840.	1.9	76
18	High Accuracy of Automatic Detection of Atrial Fibrillation Using Wavelet Transform of Heart Rate Intervals. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002, 25, 457-462.	1.2	63

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19	Effect of acute hypoxia on QT rate dependence and corrected QT interval in healthy subjects. <i>American Journal of Cardiology</i> , 2003, 91, 916-919.	1.6	61
20	Association between severe obstructive sleep apnea and incident arterial hypertension in the older people population. <i>Sleep Medicine</i> , 2013, 14, 838-842.	1.6	58
21	Effect of physical activity on heart rate variability in normal weight, overweight and obese subjects: results from the SAPALDIA study. <i>European Journal of Applied Physiology</i> , 2008, 104, 557-565.	2.5	53
22	Obstructive Sleep Apnea is Associated with Preserved Bone Mineral Density in Healthy Elderly Subjects. <i>Sleep</i> , 2013, 36, 1509-1515.	1.1	53
23	Chronotropic incompetence response to exercise in congestive heart failure, relationship with the cardiac autonomic status. <i>Clinical Physiology</i> , 2001, 21, 335-342.	0.7	52
24	Cardiac baroreflex control in humans during and immediately after brief exposure to simulated high altitude. <i>Clinical Physiology and Functional Imaging</i> , 2002, 22, 301-306.	1.2	49
25	Cardiac Interbeat Interval Increment for the Identification of Obstructive Sleep Apnea. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002, 25, 1192-1199.	1.2	49
26	C-reactive protein implications in new-onset hypertension in a healthy population initially aged 65 years: the Proof study. <i>Journal of Hypertension</i> , 2009, 27, 736-743.	0.5	49
27	Cavotricuspid isthmus angiography predicts atrial flutter ablation efficacy in 281 patients randomized between 8 mm- and externally irrigated-tip catheter. <i>European Heart Journal</i> , 2006, 27, 1833-1840.	2.2	47
28	Desperately seeking grey matter volume changes in sleep apnea: A methodological review of magnetic resonance brain voxel-based morphometry studies. <i>Sleep Medicine Reviews</i> , 2016, 25, 112-120.	8.5	47
29	Wavelet transform of heart rate variability to assess autonomic nervous system activity does not predict arousal from general anesthesia. <i>Canadian Journal of Anaesthesia</i> , 2001, 48, 859-863.	1.6	44
30	Glutathione S-Transferase Polymorphisms, Passive Smoking, Obesity, and Heart Rate Variability in Nonsmokers. <i>Environmental Health Perspectives</i> , 2008, 116, 1494-1499.	6.0	44
31	Undiagnosed sleep-related breathing disorders are associated with focal brainstem atrophy in the elderly. <i>Human Brain Mapping</i> , 2009, 30, 2090-2097.	3.6	44
32	Higher Gait Variability is Associated with Decreased Parietal Gray Matter Volume Among Healthy Older Adults. <i>Brain Topography</i> , 2014, 27, 293-295.	1.8	44
33	Exercise Frequency Determines Heart Rate Variability Gains in Older People: A Meta-Analysis and Meta-Regression. <i>Sports Medicine</i> , 2019, 49, 719-729.	6.5	42
34	Lack of specific gray matter alterations in restless legs syndrome in elderly subjects. <i>Journal of Neurology</i> , 2010, 257, 344-348.	3.6	41
35	Autonomic nervous system activity is independently associated with the risk of shift in the non-dipper blood pressure pattern. <i>Hypertension Research</i> , 2010, 33, 1032-1037.	2.7	40
36	Preliminary study of efficacy of cup suction in the correction of typical pectus excavatum. <i>Journal of Pediatric Surgery</i> , 2016, 51, 183-187.	1.6	40

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37	Relation of Central Fat Mass to Obstructive Sleep Apnea in the Elderly. <i>Sleep</i> , 2013, 36, 501-507.	1.1	39
38	Dominance in cardiac parasympathetic activity during real recreational SCUBA diving. <i>European Journal of Applied Physiology</i> , 2009, 106, 345-352.	2.5	38
39	Differences in Heart Rate Variability Associated with Long-Term Exposure to NO ₂ . <i>Environmental Health Perspectives</i> , 2008, 116, 1357-1361.	6.0	35
40	Nocturnal autonomic nervous system activity impairment in sickle cell trait carriers. <i>Clinical Physiology and Functional Imaging</i> , 2006, 26, 87-91.	1.2	34
41	Alteration of QT Rate Dependence Reflects Cardiac Autonomic Imbalance in Patients with Obstructive Sleep Apnea Syndrome. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2003, 26, 1446-1453.	1.2	33
42	Continuous Positive Airway Pressure Treatment Improves the QT Rate Dependence Adaptation of Obstructive Sleep Apnea Patients. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2005, 28, 819-825.	1.2	32
43	Autonomic dysfunction with early respiratory syncytial virus-related infection. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2010, 156, 90-95.	2.8	32
44	Obstructive sleep apnea and the metabolic syndrome in an elderly healthy population: the SYNAPSE cohort. <i>Sleep and Breathing</i> , 2012, 16, 895-902.	1.7	32
45	Metabolic Syndrome is Associated with Poor Memory and Executive Performance in Elderly Community Residents: The PROOF Study. <i>American Journal of Geriatric Psychiatry</i> , 2014, 22, 1096-1104.	1.2	31
46	Association of increased gait variability while dual tasking and cognitive decline: results from a prospective longitudinal cohort pilot study. <i>GeroScience</i> , 2017, 39, 439-445.	4.6	31
47	Autonomic maturation from birth to 2 years: normative values. <i>Heliyon</i> , 2019, 5, e01300.	3.2	31
48	Quantification of cumulated physical fatigue at the workplace. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 445, 267-272.	2.8	29
49	Refeeding normalizes the QT rate dependence of female anorexic patients. <i>American Journal of Cardiology</i> , 2005, 95, 277-280.	1.6	29
50	Lower skeletal muscle capillarization in hypertensive elderly men. <i>Experimental Gerontology</i> , 2016, 76, 80-88.	2.8	29
51	Electronic cigarettes and health with special focus on cardiovascular effects: position paper of the European Association of Preventive Cardiology (EAPC). <i>European Journal of Preventive Cardiology</i> , 2021, 28, 1552-1566.	1.8	29
52	Heart rate increment: an electrocardiological approach for the early detection of obstructive sleep apnoea/hypopnoea syndrome. <i>Clinical Science</i> , 2004, 107, 105-110.	4.3	28
53	Can maintaining cognitive function at 65 years old predict successful ageing 6 years later? The PROOF study. <i>Age and Ageing</i> , 2011, 40, 259-265.	1.6	27
54	Association Between Ambulatory 24-Hour Blood Pressure Levels and Brain Volume Reduction. <i>Hypertension</i> , 2012, 60, 1324-1331.	2.7	27

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55	Impaired baroreflex sensitivity and the risks of new-onset ambulatory hypertension, in an elderly population-based study. <i>International Journal of Cardiology</i> , 2013, 168, 4010-4014.	1.7	27
56	Accuracy of an automatic and patient-triggered long-term solid memory ambulatory cardiac event recorder. <i>American Journal of Cardiology</i> , 1997, 80, 1095-1098.	1.6	24
57	Diabetes, impaired fasting glucose, and cognitive decline in a population of elderly community residents. <i>Aging Clinical and Experimental Research</i> , 2012, 24, 377-383.	2.9	23
58	Pulmonary hypertension does not affect the autonomic nervous system dysfunction of sickle cell disease. <i>American Journal of Hematology</i> , 2009, 84, 311-312.	4.1	21
59	Chronotropic incompetence to exercise separates low body weight from established anorexia nervosa. <i>Clinical Physiology and Functional Imaging</i> , 2004, 24, 270-275.	1.2	20
60	Alteration of the QT Rate Dependence in Anorexia Nervosa. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2004, 27, 1099-1104.	1.2	20
61	Heart Rate Variability in Association with Frequent Use of Household Sprays and Scented Products in SAPALDIA. <i>Environmental Health Perspectives</i> , 2012, 120, 958-964.	6.0	20
62	Does Subjective Sleep Affect Bone Mineral Density in Older People with Minimal Health Disorders? The PROOF Cohort. <i>Journal of Clinical Sleep Medicine</i> , 2016, 12, 1461-1469.	2.6	20
63	Incidental findings on brain magnetic resonance imaging in the elderly:the PROOF study. <i>Brain Imaging and Behavior</i> , 2017, 11, 293-299.	2.1	20
64	Does obstructive sleep apnea affect exercise capacity and the hemodynamic response to exercise? An individual patient data and aggregate meta-analysis. <i>Sleep Medicine Reviews</i> , 2019, 45, 42-53.	8.5	20
65	The adverse impact of obesity on heart rate variability is modified by a NFE2L2 gene variant: The SAPALDIA cohort. <i>International Journal of Cardiology</i> , 2017, 228, 341-346.	1.7	19
66	Relationship between Daily Physical Activity and ANS Activity in Patients with CHF. <i>Medicine and Science in Sports and Exercise</i> , 2005, 37, 1257-1263.	0.4	18
67	Long-term exposure to traffic-related PM10 and decreased heart rate variability: Is the association restricted to subjects taking ACE inhibitors?. <i>Environment International</i> , 2012, 48, 9-16.	10.0	17
68	Leukoaraiosis and ambulatory blood pressure load in a healthy elderly cohort study: The PROOF study. <i>International Journal of Cardiology</i> , 2014, 172, 59-63.	1.7	17
69	Effect of exercise training on heart rate variability in patients with obstructive sleep apnea: A randomized controlled trial. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1254-1262.	2.9	17
70	Infant botulism intoxication and autonomic nervous system dysfunction. <i>Anaerobe</i> , 2009, 15, 197-200.	2.1	16
71	Acute Moderate Exercise Does Not Further Alter the Autonomic Nervous System Activity in Patients with Sickle Cell Anemia. <i>PLoS ONE</i> , 2014, 9, e95563.	2.5	16
72	A Proof of Concept to Bridge the Gap between Mass Spectrometry Imaging, Protein Identification and Relative Quantitation: MSI-LC-MS/MS-LF. <i>Proteomes</i> , 2016, 4, 32.	3.5	15

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73	Muscle Proteomic and Transcriptomic Profiling of Healthy Aging and Metabolic Syndrome in Men. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4205.	4.1	15
74	Sleep-related breathing disorders and gait variability: a cross-sectional preliminary study. <i>BMC Pulmonary Medicine</i> , 2014, 14, 140.	2.0	14
75	Autonomic cardiovascular adaptations to acute head-out water immersion, head-down tilt and supine position. <i>European Journal of Applied Physiology</i> , 2020, 120, 337-347.	2.5	14
76	Hemorheology and heart rate variability: is there a relationship?. <i>Clinical Hemorheology and Microcirculation</i> , 2008, 38, 257-65.	1.7	14
77	Autonomic dysfunction in 2009 pandemic influenza A (H1N1) virus-related infection: A pediatric comparative study. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2011, 162, 77-83.	2.8	13
78	Elderly Patients with Ongoing Migraine Show Reduced Gray Matter Volume in Second Somatosensory Cortex. <i>Journal of Oral and Facial Pain and Headache</i> , 2018, 32, 67-74.	1.4	13
79	Depressive symptoms and autonomic nervous system dysfunction in an elderly population-based study: The PROOF study. <i>Journal of Affective Disorders</i> , 2012, 143, 153-159.	4.1	12
80	Even a Previous Light-Active Physical Activity at Work Still Reduces Late Myocardial Infarction and Stroke in Retired Adults Aged >65 Years by 32%: The PROOF Cohort Study. <i>Frontiers in Public Health</i> , 2019, 7, 51.	2.7	12
81	Pre-participation cardiovascular evaluation in Pacific Island athletes. <i>International Journal of Cardiology</i> , 2019, 278, 273-279.	1.7	12
82	Volunteer and career French firefighters: Cardiovascular risk factors and cardiovascular risk assessment. <i>European Journal of Preventive Cardiology</i> , 2020, 27, 107-109.	1.8	12
83	Monitoring of ventilation during the early part of cardiopulmonary exercise testing: The first step to detect central sleep apnoea in chronic heart failure. <i>Sleep Medicine</i> , 2008, 9, 411-417.	1.6	10
84	Serum lipid profile, sleep-disordered breathing and blood pressure in the elderly: a 10-year follow-up of the PROOF-SYNAPSE cohort. <i>Sleep Medicine</i> , 2017, 39, 14-22.	1.6	10
85	Muscle Loss Associated Changes of Oxylin Signatures During Biological Aging: An Exploratory Study From the PROOF Cohort. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 608-615.	3.6	10
86	Modulations of human autonomic function induced by positive pressure-assisted breathing. <i>Clinical Physiology and Functional Imaging</i> , 2006, 26, 15-20.	1.2	9
87	Alteration of baroreflex sensitivity in the elderly: The relationship with metabolic syndrome components. <i>International Journal of Cardiology</i> , 2012, 155, 333-335.	1.7	9
88	Obstructive Sleep Apnea in Cardiac Rehabilitation Patients. <i>Journal of Clinical Sleep Medicine</i> , 2018, 14, 1119-1126.	2.6	9
89	Prevalence of Clinical and Ambulatory Hypertension in a Population of 65-Year-Olds: The PROOF Study. <i>Journal of Clinical Hypertension</i> , 2010, 12, 160-165.	2.0	8
90	ECG-derived respiration: A promising tool for sleep-disordered breathing diagnosis in chronic heart failure patients. <i>International Journal of Cardiology</i> , 2015, 186, 7-9.	1.7	8

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91	Effects of strenuous exercise on autonomic nervous system activity in sickle cell trait carriers. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 143, 68-72.	2.8	7
92	Relationship of cardiac involvement with arterial stiffness in a general population of 65-year-olds in the PROOF study. <i>Journal of Hypertension</i> , 2010, 28, 389-394.	0.5	7
93	Aortic root size and sleep apnea in elderly: A cohort study. <i>International Journal of Cardiology</i> , 2011, 151, 101-102.	1.7	7
94	Use of high-frequency peak in spectral analysis of heart rate increment to improve screening of obstructive sleep apnoea. <i>Sleep and Breathing</i> , 2011, 15, 837-843.	1.7	7
95	Relationship between acute chest syndrome and the sympatho-vagal balance in adults with hemoglobin SS disease; a case control study. <i>Clinical Hemorheology and Microcirculation</i> , 2013, 53, 231-238.	1.7	7
96	Supra-Epiglottic Upper Airway Volume in Elderly Patients with Obstructive Sleep Apnea Hypopnea Syndrome. <i>PLoS ONE</i> , 2016, 11, e0157720.	2.5	7
97	Sleep-related autonomic overactivity in a general elderly population and its relationship to cardiovascular regulation. <i>Heart and Vessels</i> , 2016, 31, 46-51.	1.2	7
98	Bariatric surgery associated with percutaneous auricular vagal stimulation: A new prospective treatment on weight loss. <i>International Journal of Surgery</i> , 2015, 18, 55-56.	2.7	6
99	Sleep apnoea in the asymptomatic elderly: a real issue for the brain?. <i>European Respiratory Journal</i> , 2018, 51, 1702450.	6.7	6
100	Role of Gender and Physical Activity Level on Cardiovascular Risk Factors and Biomarkers of Oxidative Stress in the Elderly. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-9.	4.0	6
101	Arrhythmic Risk Stratification After Myocardial Infarction Using Ambulatory Electrocardiography Signal Averaging. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2002, 25, 791-798.	1.2	5
102	Heart rate variability and baroreflex sensitivity in bilateral lung transplant recipients. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 872-880.	1.2	5
103	Arterial stiffness alteration and obstructive sleep apnea in an elderly cohort free of cardiovascular event history: the PROOF cohort study. <i>Sleep and Breathing</i> , 2019, 23, 201-208.	1.7	5
104	Causal analyses to study autonomic regulation during acute head-out water immersion, head-down tilt and supine position. <i>Experimental Physiology</i> , 2020, 105, 1216-1222.	2.0	5
105	Leukoaraiosis and Gray Matter Volume Alteration in Older Adults: The PROOF Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 747569.	2.8	5
106	Resistance Training of Inspiratory Muscles After Coronary Artery Disease May Improve Obstructive Sleep Apnea in Outpatient Cardiac Rehabilitation: RICAOS Study. <i>Frontiers in Physiology</i> , 2022, 13, 846532.	2.8	5
107	Autonomic activation during sleep and new-onset ambulatory hypertension in the elderly. <i>International Journal of Cardiology</i> , 2012, 155, 155-159.	1.7	4
108	Effects of gravitational acceleration on cardiovascular autonomic control in resting humans. <i>European Journal of Applied Physiology</i> , 2015, 115, 1417-1427.	2.5	4

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109	Exercise electrocardiogram in middle-aged and older leisure time sportsmen: 100 exercise tests would be enough to identify one silent myocardial ischemia at risk for cardiac event. <i>International Journal of Cardiology</i> , 2018, 257, 16-23.	1.7	4
110	Association Between Physical Activity, Quadriceps Muscle Performance, and Biological Characteristics of Very Old Men and Women. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2021, , .	3.6	4
111	Forelimb postischaemic reactive hyperaemia is impaired by hypotensive low body negative pressure in healthy subjects. <i>Clinical Physiology and Functional Imaging</i> , 2006, 26, 132-137.	1.2	3
112	Comment on "Abnormal autonomic cardiac response to transient hypoxia in sickle cell anemia". <i>Physiological Measurement</i> , 2008, 29, L1-L2.	2.1	3
113	Sudomotor function and obesity-related risk factors in an elderly healthy population: The PROOF "Synapse Study. <i>International Journal of Cardiology</i> , 2015, 186, 247-249.	1.7	3
114	Fifteen Minutes Daily Brisk Walk May Be a New Best Target in Very Old Adults: Age Is Not an Excuse to Not Exercise. <i>Journal of the American Medical Directors Association</i> , 2018, 19, 273-275.	2.5	3
115	Insulin Resistance and Type 2 Diabetes in Asymptomatic Obstructive Sleep Apnea: Results of the PROOF Cohort Study After 7 Years of Follow-Up. <i>Frontiers in Physiology</i> , 2021, 12, 650758.	2.8	3
116	Thoracic impedance, in association with oximetry, in a multi-modal ECG Holter system is useful for screening sleep disordered breathing. <i>International Journal of Cardiology</i> , 2013, 163, 100-102.	1.7	2
117	We need clear health messages about exercise. <i>BMJ</i> , The, 2016, 355, i6252.	6.0	2
118	Comments on the article: Occipital C1-C2 Neuromodulation Decreases Body Mass and Fat Stores and Modifies Activity of the Autonomic Nervous System in Morbidly Obese Patients" a Pilot Study. <i>Obesity Surgery</i> , 2016, 26, 384-385.	2.1	2
119	Effect of Vagal Nerve Blockade on Moderate Obesity with an Obesity-Related Comorbid Condition: the ReCharge Study. <i>Obesity Surgery</i> , 2016, 26, 2221-2222.	2.1	1
120	Is there a relation between autonomic nervous system activity and skin ageing? Evaluation of heart rate variability and skin ageing in 209 elderly subjects. <i>Experimental Dermatology</i> , 2017, 26, 278-281.	2.9	1
121	Effect of graded leg cycling on postischaemic forearm blood flow in healthy subjects. <i>Clinical Physiology and Functional Imaging</i> , 2007, 28, 071116231949001-???	1.2	0
122	Objective Non-irradiant Imaging of Fat Distribution: New Essential Tools for the Bariatric Surgery?. <i>Obesity Surgery</i> , 2016, 26, 1940-1941.	2.1	0