Beverley Balkau

List of Publications by Year
in descending order

128 papers	**9,292** citations	57758 **44** h-index	40979 **93** g-index
130 all docs	**130** docs citations	**130** times ranked	**16839** citing authors

#	Article	IF	Citations
1	Twelve type 2 diabetes susceptibility loci identified through large-scale association analysis. Nature Genetics, 2010, 42, 579-589.	21.4	1,631
2	Television Viewing Time and Mortality. Circulation, 2010, 121, 384-391.	1.6	684
3	The genetics of blood pressure regulation and its target organs from association studies in 342,415 individuals. Nature Genetics, 2016, 48, 1171-1184.	21.4	362
4	Fatty liver is associated with insulin resistance, risk of coronary heart disease, and early atherosclerosis in a large European population. Hepatology, 2009, 49, 1537-1544.	7.3	310
5	PCSK9 genetic variants and risk of type 2 diabetes: a mendelian randomisation study. Lancet Diabetes and Endocrinology,the, 2017, 5, 97-105.	11.4	298
6	Involvement of tissue bacteria in the onset of diabetes in humans: evidence for a concept. Diabetologia, 2011, 54, 3055-3061.	6.3	283
7	AUSDRISK: an Australian Type 2 Diabetes Risk Assessment Tool based on demographic, lifestyle and simple anthropometric measures. Medical Journal of Australia, 2010, 192, 197-202.	1.7	250
8	The link between family history and risk of type 2 diabetes is not explained by anthropometric, lifestyle or genetic risk factors: the EPIC-InterAct study. Diabetologia, 2013, 56, 60-69.	6.3	224
9	Predicting Diabetes: Clinical, Biological, and Genetic Approaches. Diabetes Care, 2008, 31, 2056-2061.	8.6	215
10	Low copy number of the salivary amylase gene predisposes to obesity. Nature Genetics, 2014, 46, 492-497.	21.4	214
11	Physical Activity and Insulin Sensitivity. Diabetes, 2008, 57, 2613-2618.	0.6	204
12	Stratifying Type 2 Diabetes Cases by BMI Identifies Genetic Risk Variants in LAMA1 and Enrichment for Risk Variants in Lean Compared to Obese Cases. PLoS Genetics, 2012, 8, e1002741.	3.5	190
13	The EGIR-RISC STUDY (The European group for the study of insulin resistance: relationship between) Tj ETQq1 1 0.784314 rgBT /Over 47, 566-570.	6.3	170
14	Design and cohort description of the InterAct Project: an examination of the interaction of genetic and lifestyle factors on the incidence of type 2 diabetes in the EPIC Study. Diabetologia, 2011, 54, 2272-2282.	6.3	169
15	Genome-wide physical activity interactions in adiposity â€¢ A meta-analysis of 200,452 adults. PLoS Genetics, 2017, 13, e1006528.	3.5	158
16	Insulin Resistance, Insulin Response, and Obesity as Indicators of Metabolic Risk. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 2885-2892.	3.6	149
17	Impact of Common Type 2 Diabetes Risk Polymorphisms in the DESIR Prospective Study. Diabetes, 2008, 57, 244-254.	0.6	146
18	AUSDRISK: an Australian Type 2 Diabetes Risk Assessment Tool based on demographic, lifestyle and simple anthropometric measures. Medical Journal of Australia, 2010, 192, 274-274.	1.7	140

#	Article	IF	Citations
19	Dairy Consumption and the Incidence of Hyperglycemia and the Metabolic Syndrome. Diabetes Care, 2011, 34, 813-817.	8.6	136
20	Low Water Intake and Risk for New-Onset Hyperglycemia. Diabetes Care, 2011, 34, 2551-2554.	8.6	127
21	Nine-year incident diabetes is predicted by fatty liver indices: the French D.E.S.I.R. study. BMC Gastroenterology, 2010, 10, 56.	2.0	120
22	Comparison Between Copeptin and Vasopressin in a Population From the Community and in People With Chronic Kidney Disease. Journal of Clinical Endocrinology and Metabolism, 2014, 99, 4656-4663.	3.6	110
23	Hypertension and Vascular Dynamics in Men and Women With Metabolic Syndrome. Journal of the American College of Cardiology, 2013, 61, 12-19.	2.8	104
24	A Mendelian Randomization Study of Circulating Uric Acid and Type 2 Diabetes. Diabetes, 2015, 64, 3028-3036.	0.6	98
25	Early metabolic markers identify potential targets for the prevention of type 2 diabetes. Diabetologia, 2017, 60, 1740-1750.	6.3	96
26	Hyperinsulinemia Predicts Fatal Liver Cancer but Is Inversely Associated With Fatal Cancer at Some Other Sites: The Paris Prospective Study. Diabetes Care, 2001, 24, 843-849.	8.6	94
27	Exposure to Bisphenol A and Bisphenol S and Incident Type 2 Diabetes: A Caseâ€"Cohort Study in the French Cohort D.E.S.I.R.. Environmental Health Perspectives, 2019, 127, 107013.	6.0	92
28	Nonâ€"Laboratory-Based Self-Assessment Screening Score for Non-Alcoholic Fatty Liver Disease: Development, Validation and Comparison with Other Scores. PLoS ONE, 2014, 9, e107584.	2.5	90
29	Prescreening tools for diabetes and obesity-associated dyslipidaemia: comparing BMI, waist and waist hip ratio. The D.E.S.I.R. Study. European Journal of Clinical Nutrition, 2006, 60, 295-304.	2.9	83
30	Risk factors for early death in non-insulin dependent diabetes and men with known glucose tolerance status.. BMJ: British Medical Journal, 1993, 307, 295-299.	2.3	80
31	Hepatic markers and development of type 2 diabetes in middle aged men and women: a three-year follow-up study. Diabetes and Metabolism, 2005, 31, 542-550.	2.9	67
32	Dietary antioxidant capacity and risk of type 2 diabetes in the large prospective E3N-EPIC cohort. Diabetologia, 2018, 61, 308-316.	6.3	65
33	Menopausal hormone therapy and new-onset diabetes in the French Etude Epidemiologique de Femmes de la Mutuelle GÃ©nÃ©rale de lâ€™Education Nationale (E3N) cohort. Diabetologia, 2009, 52, 2092-2100.	6.3	64
34	Factors Associated With Weight Gain in People With Type 2 Diabetes Starting on Insulin. Diabetes Care, 2014, 37, 2108-2113.	8.6	63
35	Diabetes mellitus, hyperglycaemia and cancer. Diabetes and Metabolism, 2010, 36, 182-191.	2.9	61
36	A combination of plasma phospholipid fatty acids and its association with incidence of type 2 diabetes: The EPIC-InterAct case-cohort study. PLoS Medicine, 2017, 14, e1002409.	8.4	61

#	Article	IF	Citations
37	Effect of sedentary behaviour and vigorous physical activity on segment-specific carotid wall thickness and its progression in a healthy population. European Heart Journal, 2010, 31, 1511-1519.	2.2	58
38	Plasma Copeptin, *AVP* Gene Variants, and Incidence of Type 2 Diabetes in a Cohort From the Community. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 2432-2439.	3.6	58
39	Smoking and Long-Term Risk of Type 2 Diabetes: The EPIC-InterAct Study in European Populations. Diabetes Care, 2014, 37, 3164-3171.	8.6	57
40	Gamma-glutamyltransferase, fatty liver index and hepatic insulin resistance are associated with incident hypertension in two longitudinal studies. Journal of Hypertension, 2017, 35, 493-500.	0.5	57
41	Pathophysiological Characteristics Underlying Different Glucose Response Curves: A Latent Class Trajectory Analysis From the Prospective EGIR-RISC Study. Diabetes Care, 2018, 41, 1740-1748.	8.6	52
42	Increases in Waist Circumference and Weight As Predictors of Type 2 Diabetes in Individuals With Impaired Fasting Glucose: Influence of Baseline BMI. Diabetes Care, 2010, 33, 1850-1852.	8.6	51
43	Association between fasting glucose and all-cause mortality according to sex and age: a prospective cohort study. Scientific Reports, 2017, 7, 8194.	3.3	51
44	Insulin Sensitivity and Carotid Intima-Media Thickness. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1409-1417.	2.4	47
45	Dairy Products and the Metabolic Syndrome in a Prospective Study, DESIR. Journal of the American College of Nutrition, 2011, 30, 454S-463S.	1.8	45
46	Insulin Sensitivity and Albuminuria: The RISC Study. Diabetes Care, 2014, 37, 1597-1603.	8.6	45
47	Birth Weight, Body Silhouette Over the Life Course, and Incident Diabetes in 91,453 Middle-Aged Women From the French Etude Epidemiologique de Femmes de la Mutuelle GÃ©nÃ©rale de l'Education Nationale (E3N) Cohort. Diabetes Care, 2010, 33, 298-303.	8.6	44
48	Influence of Hyperinsulinemia and Insulin Resistance on In Vivo Î²-Cell Function. Diabetes, 2011, 60, 3141-3147.	0.6	43
49	HbA1c, fasting and 2Âh plasma glucose in current, ex- and never-smokers: a meta-analysis. Diabetologia, 2014, 57, 30-39.	6.3	43
50	Plasma Copeptin and Decline in Renal Function in a Cohort from the Community: The Prospective D.E.S.I.R. Study. American Journal of Nephrology, 2015, 42, 107-114.	3.1	43
51	Pathogenic variants in actionable MODY genes are associated with type 2 diabetes. Nature Metabolism, 2020, 2, 1126-1134.	11.9	43
52	High Baseline Insulin Levels Associated With 6-Year Incident Observed Sleep Apnea. Diabetes Care, 2010, 33, 1044-1049.	8.6	41
53	Associations Between Migraine and Type 2 Diabetes in Women. JAMA Neurology, 2019, 76, 257.	9.0	39
54	Type 2 diabetes-related genetic risk scores associated with variations in fasting plasma glucose and development of impaired glucose homeostasis in the prospective DESIR study. Diabetologia, 2014, 57, 1601-1610.	6.3	38

#	ARTICLE	IF	CITATIONS
55	Risk factors for incident type 2 diabetes in individuals with a BMI of <27Âkg/m2: the role of Î³-glutamyltransferase. Data from an Epidemiological Study on the Insulin Resistance Syndrome (DESIR). Diabetologia, 2010, 53, 247-253.	6.3	36
56	Proposed criteria for the diagnosis of diabetes: evidence from a French epidemiological study (D.E.S.I.R.). Diabetes and Metabolism, 1997, 23, 428-34.	2.9	36
57	Type 2 diabetes treatment intensification in general practice in France in 2008â€"2009: the DIAttitude Study. Diabetes and Metabolism, 2012, 38, S29-S35.	2.9	33
58	Factors influencing initial choice of insulin therapy in a large international nonâ€interventional study of people with type 2 diabetes. Diabetes, Obesity and Metabolism, 2012, 14, 901-909.	4.4	33
59	The lactase persistence genotype is associated with body mass index and dairy consumption in the D.E.S.I.R. study. Metabolism: Clinical and Experimental, 2013, 62, 1323-1329.	3.4	33
60	Clinical perspectives from the BEGIN and EDITION programmes: Trial-level meta-analyses outcomes with either degludec or glargine 300 U/mL vs glargine 100 U/mL in T2DM. Diabetes and Metabolism, 2018, 44, 402-409.	2.9	33
61	Impact of objectively measured sedentary behaviour on changes in insulin resistance and secretion over 3years in the RISC study: Interaction with weight gain. Diabetes and Metabolism, 2013, 39, 217-225.	2.9	30
62	Predictors of HbA1c over 4 years in people with type 2 diabetes starting insulin therapies: The CREDIT study. Diabetes Research and Clinical Practice, 2015, 108, 432-440.	2.8	30
63	The association between cystatin C and incident type 2 diabetes is related to central adiposity. Nephrology Dialysis Transplantation, 2013, 28, 1820-1829.	0.7	29
64	Contribution of the low-frequency, loss-of-function p.R270H mutation in *FFAR4* (*GPR120*) to increased fasting plasma glucose levels. Journal of Medical Genetics, 2015, 52, 595-598.	3.2	29
65	The Association Between Sleep Duration, Insulin Sensitivity, and Î²-Cell Function: The EGIR-RISC Study. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 3272-3280.	3.6	29
66	Decreased insulin secretion and increased risk of type 2 diabetes associated with allelic variations of the WFS1 gene: the Data from Epidemiological Study on the Insulin Resistance Syndrome (DESIR) prospective study. Diabetologia, 2011, 54, 554-562.	6.3	28
67	High dietary phosphorus intake is associated with an increased risk of type 2 diabetes in the large prospective E3N cohort study. Clinical Nutrition, 2018, 37, 1625-1630.	5.0	27
68	Haemoglobin A1c and 5-year all-cause mortality in French type 2 diabetic patients aged 70 years and older: The GERODIAB observational cohort. Diabetes and Metabolism, 2018, 44, 465-472.	2.9	27
69	Insulin Sensitivity and Î²-Cell Function in the Offspring of Type 2 Diabetic Patients: Impact of Line of Inheritance. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 4703-4711.	3.6	24
70	Associations between sleep duration and sleep debt with insulin sensitivity and insulin secretion in the EGIR-RISC Study. Diabetes and Metabolism, 2019, 45, 375-381.	2.9	23
71	Four-year evolution of insulin regimens, glycaemic control, hypoglycaemia and body weight after starting insulin therapy in type 2 diabetes across three continents. Diabetes Research and Clinical Practice, 2015, 108, 350-359.	2.8	22
72	Body Weight, Not Insulin Sensitivity or Secretion, May Predict Spontaneous Weight Changes in Nondiabetic and Prediabetic Subjects. Diabetes, 2011, 60, 1938-1945.	0.6	20

#	Article	IF	Citations
73	A propensity score matched comparison of different insulin regimens 1 year after beginning insulin in people with type 2 diabetes. Diabetes, Obesity and Metabolism, 2013, 15, 1120-1127.	4.4	20
74	Fasting Glucose and All-Cause Mortality by Age in Diabetes: A Prospective Cohort Study. Diabetes Care, 2018, 41, 623-626.	8.6	20
75	Exposure to persistent organic pollutants and the risk of type 2 diabetes: a case-cohort study. Diabetes and Metabolism, 2021, 47, 101234.	2.9	19
76	HbA1c, fasting plasma glucose and the prediction of diabetes: Inter99, AusDiab and D.E.S.I.R.. Diabetes Research and Clinical Practice, 2012, 96, 392-399.	2.8	18
77	Physical activity, adiponectin, and cardiovascular structure and function. Heart and Vessels, 2013, 28, 91-100.	1.2	18
78	Impact of statistical models on the prediction of type 2 diabetes using non-targeted metabolomics profiling. Molecular Metabolism, 2016, 5, 918-925.	6.5	18
79	The association of body shape trajectories over the life course with type 2 diabetes risk in adulthood: a group-based modeling approach. Annals of Epidemiology, 2015, 25, 785-787.	1.9	17
80	Comparing incident diabetes as defined by fasting plasma glucose or by HbA$_{1c}$. The AusDiab, Inter99 and DESIR studies. Diabetic Medicine, 2011, 28, 1311-1318.	2.3	16
81	Population attributable fractions of the main type 2 diabetes mellitus risk factors in women: Findings from the French E3N cohort. Journal of Diabetes, 2019, 11, 242-253.	1.8	15
82	New roles for prokineticin 2 in feeding behavior, insulin resistance and type 2 diabetes: Studies in mice and humans. Molecular Metabolism, 2019, 29, 182-196.	6.5	15
83	Therapeutic management of orally treated type 2 diabetic patients, by French general practitioners in 2010: the DIAttitude Study. Diabetes and Metabolism, 2012, 38, S36-S46.	2.9	14
84	Antidepressant medication use and trajectories of fasting plasma glucose, glycated haemoglobin, Î²-cell function and insulin sensitivity: a 9-year longitudinal study of the D.E.S.I.R. cohort. International Journal of Epidemiology, 2015, 44, 1927-1940.	1.9	14
85	Obesity and carotid artery remodeling. Nutrition and Diabetes, 2015, 5, e177-e177.	3.2	14
86	T-cadherin gene variants are associated with type 2 diabetes and the Fatty Liver Index in the French population. Diabetes and Metabolism, 2017, 43, 33-39.	2.9	14
87	Association of fasting serum insulin and cancer mortality in a healthy population â€" 28-year follow-up of the French TELECOM Study. Diabetes and Metabolism, 2018, 44, 30-37.	2.9	14
88	Euglycemic Clamp Insulin Sensitivity and Longitudinal Systolic Blood Pressure. Hypertension, 2013, 62, 404-409.	2.7	13
89	Maximizing efficiency and cost-effectiveness of Type 2 diabetes screening: the AusDiab study. Diabetic Medicine, 2011, 28, 414-423.	2.3	12
90	HDL Containing Apolipoprotein C-III is Associated with Insulin Sensitivity: A Multicenter Cohort Study. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e2928-e2940.	3.6	12

#	Article	IF	Citations
91	The impact of 3-year changes in lifestyle habits on metabolic syndrome parameters: the D.E.S.I.R Study. European Journal of Cardiovascular Prevention and Rehabilitation, 2006, 13, 334-340.	2.8	12
92	Survival in people with type 2 diabetes as a function of HbA1c. Lancet, The, 2010, 375, 438-440.	13.7	11
93	Micronutrient dietary patterns associated with type 2 diabetes mellitus among women of the E3Nâ€EPIC (Etude EpidÃ©miologique auprÃ¨s de femmes de l'Education Nationale) cohort study. Journal of Diabetes, 2018, 10, 665-674.	1.8	11
94	Are the Same Clinical Risk Factors Relevant for Incident Diabetes Defined by Treatment, Fasting Plasma Glucose, and HbA1c?. Diabetes Care, 2011, 34, 957-959.	8.6	9
95	Glucose-Dependent Regulation of NR2F2 Promoter and Influence of SNP-rs3743462 on Whole Body Insulin Sensitivity. PLoS ONE, 2012, 7, e35810.	2.5	9
96	Metabolic syndrome in adolescents: definition based on regression of IDF adult cut-off points. Public Health, 2016, 141, 88-94.	2.9	9
97	Functional gastrointestinal disorders and incidence of type 2 diabetes: Evidence from the E3Nâ€"EPIC cohort study. Diabetes and Metabolism, 2016, 42, 178-183.	2.9	9
98	Impact of sex and glucose-lowering treatments on hypoglycaemic symptoms in people with type 2 diabetes and chronic kidney disease. The French Chronic Kidney Disease â€" Renal Epidemiology and Information Network (CKD-REIN) Study. Diabetes and Metabolism, 2019, 45, 175-183.	2.9	9
99	Association Between Handedness and Type 2 Diabetes: The E3N Study: Table 1. Diabetes Care, 2015, 38, e199-e199.	8.6	8
100	The relationship between bone turnover and insulin sensitivity and secretion: Cross-sectional and prospective data from the RISC cohort study. Bone, 2018, 108, 98-105.	2.9	8
101	Glucose Measurements at Various Time Points During the OGTT and Their Role in Capturing Glucose Response Patterns. Diabetes Care, 2019, 42, e56-e57.	8.6	8
102	Complex interaction of fasting glucose, body mass index, age and sex on all-cause mortality: a cohort study in 15 million Korean adults. Diabetologia, 2020, 63, 1616-1625.	6.3	8
103	Severe insomnia is associated with hypertriglyceridemia in women with major depression treated in psychiatry settings. Journal of Affective Disorders, 2017, 217, 159-162.	4.1	7
104	Better analyze the determinants of therapeutic inertia to overcome it. Diabetes and Metabolism, 2012, 38, S27-S28.	2.9	6
105	Home and Work Physical Activity Environments: Associations with Cardiorespiratory Fitness and Physical Activity Level in French Women. International Journal of Environmental Research and Public Health, 2016, 13, 824.	2.6	6
106	Gonadal hormonal factors before menopause and incident type 2 diabetes in women: A 22â€year followâ€up of 83â€‰799 women from the <scp>E3N</scp> cohort study. Journal of Diabetes, 2021, 13, 330-338.	1.8	6
107	Incident cardiovascular disease by clustering of favourable risk factors in type 1 diabetes: the EURODIAB Prospective Complications Study. Diabetologia, 2022, 65, 1169-1178.	6.3	6
108	Transmission of Type 2 diabetes to sons and daughters: the D.E.S.I.R. cohort. Diabetic Medicine, 2017, 34, 1615-1622.	2.3	5

#	Article	IF	Citations
109	Assessment of cardiometabolic risk and prevalence of meeting treatment guidelines among patients with type 2 diabetes stratified according to their use of insulin and/or other diabetic medications: results from <scp>INSPIRE ME IAA</scp>. Diabetes, Obesity and Metabolism, 2013, 15, 629-641.	4.4	4
110	Educational level and family structure influence the dietary changes after the diagnosis of type 2 diabetes: evidence from the E3N study. Nutrition Research, 2017, 44, 9-17.	2.9	4
111	Increased risk of type 2 diabetes in antidepressant users: evidence from a 6‐year longitudinal study in the E3N cohort. Diabetic Medicine, 2020, 37, 1866-1873.	2.3	4
112	Serum sclerostin and glucose homeostasis: No association in healthy men. Cross-sectional and prospective data from the EGIR-RISC study. Bone, 2021, 143, 115681.	2.9	4
113	Reasons for non-intensification of treatment in people with type 2 diabetes receiving oral monotherapy: Outcomes from the prospective DIAttitude study. Annales D'Endocrinologie, 2016, 77, 649-657.	1.4	3
114	Insulin resistance and β‐cell function in smokers: results from the <scp>EGIR</scp>‐<scp>RISC</scp> European multicentre study. Diabetic Medicine, 2017, 34, 223-228.	2.3	3
115	Dairy consumption is associated with lower plasma dihydroceramides in women from the D.E.S.I.R. cohort. Diabetes and Metabolism, 2020, 46, 144-149.	2.9	3
116	The JUBILE cohort: Quality of life after more than 40 years with type 1 diabetes. Diabetic Medicine, 2021, 38, e14460.	2.3	3
117	Female Sex and Angiotensin-Converting Enzyme (ACE) Insertion/Deletion Polymorphism Amplify the Effects of Adiposity on Blood Pressure. Hypertension, 2022, 79, 36-46.	2.7	3
118	The Use of Saxagliptin in People with Type 2 Diabetes in France: The Diapazon Epidemiological Study. Diabetes Therapy, 2017, 8, 1147-1162.	2.5	2
119	Comment on Hofer et al. International Comparison of Smoking and Metabolic Control in Patients With Type 1 Diabetes. Diabetes Care 2016;39:e177–e178. Diabetes Care, 2017, 40, e36-e36.	8.6	1
120	Determinants of 20‐year non‐progression to Type 2 diabetes in women at very high risk: the E3N cohort study. Diabetic Medicine, 2018, 35, 1716-1721.	2.3	1
121	Plasma total adiponectin and changes in renal function in a cohort from the community: the prospective Data from an Epidemiological Study on the Insulin Resistance Syndrome study. Nephrology Dialysis Transplantation, 2020, 36, 2058-2065.	0.7	1
122	Chez qui dépister le diabète de type 2 en France? Un score prédictif issu de l'étude prospective D.E.S.I.R. Medecine Des Maladies Metaboliques, 2009, 3, 198-202.	0.1	0
123	Diabète et cancer: problématique et questions de méthodologie. Medecine Des Maladies Metaboliques, 2011, 5, 9-11.	0.1	0
124	Response to Comment on Balkau et al. Factors Associated With Weight Gain in People With Type 2 Diabetes Starting on Insulin. Diabetes Care 2014;37:2108–2113. Diabetes Care, 2014, 37, e266-e266.	8.6	0
125	Response to Comment on Pilz et al. Insulin Sensitivity and Albuminuria: The RISC Study. Diabetes Care 2014;37:1597–1603. Diabetes Care, 2015, 38, e31-e31.	8.6	0
126	Response to Comment on Bonnet et al. Association Between Handedness and Type 2 Diabetes: The E3N Study. Diabetes Care 2015;38:e199. Diabetes Care, 2016, 39, e47-e47.	8.6	0

#	ARTICLE	IF	CITATIONS
127	Renal function markers and insulin sensitivity after 3 years in a healthy cohort, the EGIR-RISC study. BMC Nephrology, 2018, 19, 124.	1.8	0
128	Epigenetic changes associated with hyperglycaemia exposure in the longitudinal D.E.S.I.R. cohort. Diabetes and Metabolism, 2022, 48, 101347.	2.9	0