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Insulin sensitivity indices obtained from oral glucose tolerance testing: comparison with the euglycemic insulin clamp

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#	Paper	IF	Citations
2315	Characterization of an early decline in baseline plasma glucose concentration after acute insulin elevation during euglycemic hyperinsulinemic clamp in patients with type 2 diabetes mellitus. <i>Diabetes Care</i> , 2000 , 47, 309-16		2
2314	Response to Glasgow and Anderson. Compliance and adherence. <i>Diabetes Care</i> , 2000 , 23, 1034-5	14.6	4
2313	Circulating levels of coagulation factor XIII in subjects with type 2 diabetes and in their first-degree relatives. <i>Diabetes Care</i> , 2000 , 23, 703-5	14.6	48
2312	Ketosis-onset diabetes without islet-associated autoantibodies in a patient with MELAS. <i>Diabetes Care</i> , 2000 , 23, 1018-9	14.6	4
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1195	Inflammation markers and metabolic characteristics of subjects with 1-h plasma glucose levels. <i>Diabetes Care</i> , 2010 , 33, 411-3	14.6	44
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1029	Effect of combining rosiglitazone with either metformin or insulin on β cell mass and function in an animal model of Type 2 diabetes characterized by reduced β cell mass at birth. 2011 , 3, 74-81	2
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1015	Des-aspartate-angiotensin-I and angiotensin IV improve glucose tolerance and insulin signalling in diet-induced hyperglycaemic mice. 2011 , 82, 1198-208	23
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988	Effects of caffeinated and decaffeinated coffee on biological risk factors for type 2 diabetes: a randomized controlled trial. 2011 , 10, 93	117
987	Lack of effect of apolipoprotein C3 polymorphisms on indices of liver steatosis, lipid profile and insulin resistance in obese Southern Europeans. 2011 , 10, 93	30
986	Strong association between non alcoholic fatty liver disease (NAFLD) and low 25(OH) vitamin D levels in an adult population with normal serum liver enzymes. 2011 , 9, 85	211
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983	Cystic fibrosis related diabetes (CFRD)--the end stage of progressive insulin deficiency. 2011 , 46, 747-60	43
982	Angelica acutiloba root attenuates insulin resistance induced by high-fructose diet in rats. 2011 , 25, 1283-93	13
981	Randomized comparison of reduced fat and reduced carbohydrate hypocaloric diets on intrahepatic fat in overweight and obese human subjects. 2011 , 53, 1504-14	185
980	Association of TCF7L2 SNPs with age at onset of type 2 diabetes and proinsulin/insulin ratio but not with glucagon-like peptide 1. 2011 , 27, 499-505	12
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961	Heterogeneity in the responsiveness to long-term lifestyle intervention and predictability in obese women with polycystic ovary syndrome. 2011 , 164, 53-60		60
960	The effects of weight loss versus weight loss maintenance on sympathetic nervous system activity and metabolic syndrome components. 2011 , 96, E503-8		83
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957	Insulin sensitivity and liver fat: role of iron load. 2011 , 96, E958-61		32
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954	Hypothalamic Obesity following Craniopharyngioma Surgery: Results of a Pilot Trial of Combined Diazoxide and Metformin Therapy. 2011 , 2011, 417949		61
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951	Pleiotropic effects of GIP on islet function involve osteopontin. 2011 , 60, 2424-33		72
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949	Changes in insulin secretion and action in adults with familial risk for type 2 diabetes who curtail their sleep. <i>Diabetes Care</i> , 2011 , 34, 2259-64	14.6	31

948	One-hour postload plasma glucose levels and diastolic function in hypertensive patients. <i>Diabetes Care</i> , 2011 , 34, 2291-6	14.6	37
947	A low glycemic index diet does not affect postprandial energy metabolism but decreases postprandial insulinemia and increases fullness ratings in healthy women. 2011 , 141, 1679-84		35
946	Vitamin D-associated polymorphisms are related to insulin resistance and vitamin D deficiency in polycystic ovary syndrome. 2011 , 164, 741-9		138
945	Diabetes caused by insulin gene (INS) deletion: clinical characteristics of homozygous and heterozygous individuals. 2011 , 165, 255-60		26
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943	Beneficial effects of resistance exercise on glycemic control are not further improved by protein ingestion. 2011 , 6, e20613		20
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941	Ultrasonographic quantitative estimation of hepatic steatosis in children With NAFLD. 2011 , 53, 190-5		174
940	Fasting and post-glucose load measures of insulin resistance and risk of ischemic stroke in older adults. 2011 , 42, 3347-51		37
939	A cross-sectional study on trans-fatty acids and risk markers of CHD among middle-aged men representing a broad range of BMI. 2011 , 106, 1245-52		7
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937	Kidney transplantation improves arterial function measured by pulse wave analysis and endothelium-independent dilatation in uraemic patients despite deterioration of glucose metabolism. 2011 , 26, 2370-7		29
936	Myocardial steatosis, cardiac remodelling and fitness in insulin-sensitive and insulin-resistant obese women. 2011 , 97, 1585-9		49
935	Effects of 34 risk loci for type 2 diabetes or hyperglycemia on lipoprotein subclasses and their composition in 6,580 nondiabetic Finnish men. 2011 , 60, 1608-16		65
934	Reversal of muscle insulin resistance with exercise reduces postprandial hepatic de novo lipogenesis in insulin resistant individuals. 2011 , 108, 13705-9		121
933	Effects of 4-week very-high-fructose/glucose diets on insulin sensitivity, visceral fat and intrahepatic lipids: an exploratory trial. 2011 , 106, 79-86		132
932	Insulin resistance in young, lean male subjects with essential hypertension. 2011 , 25, 391-400		9
931	Sex hormone-binding globulin levels and obesity in women with gestational diabetes: relationship with infant birthweight. 2011 , 27, 905-9		13

930	Retinol-binding protein 4 correlates with triglycerides but not insulin resistance in prepubertal children with and without premature adrenarche. 2011 , 24, 683-7		3
929	One-hour postload plasma glucose levels and left ventricular mass in hypertensive patients. <i>Diabetes Care</i> , 2011 , 34, 1406-11	14.6	68
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927	Postpartum metabolic function in women delivering a macrosomic infant in the absence of gestational diabetes mellitus. <i>Diabetes Care</i> , 2011 , 34, 2608-13	14.6	13
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925	Nocturnal blood pressure but not insulin resistance influences endothelial function in treated hypertensive patients. 2011 , 25, 18-24		5
924	Low-volume interval training improves muscle oxidative capacity in sedentary adults. 2011 , 43, 1849-56		227
923	Susceptibility loci for polycystic ovary syndrome on chromosome 2p16.3, 2p21, and 9q33.3 in a cohort of Caucasian women. 2011 , 43, 743-7		55
922	Insulin sensitivity and β cell function in normoglycemic offspring of individuals with type 2 diabetes mellitus: Impact of line of inheritance. 2012 , 16, 105-11		13
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920	Voluntary running exercise prevents β cell failure in susceptible islets of the Zucker diabetic fatty rat. 2012 , 302, E254-64		35
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918	The Effect of Puberty on Interaction between Vitamin D Status and Insulin Resistance in Obese Asian-Indian Children. 2012 , 2012, 173581		18
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916	Glucose response curve and type 2 diabetes risk in Latino adolescents. <i>Diabetes Care</i> , 2012 , 35, 1925-30	14.6	47
915	Impact of maternal physical activity and infant feeding practices on infant weight gain and adiposity. 2012 , 2012, 293821		8
914	Circulating metabolite predictors of glycemia in middle-aged men and women. <i>Diabetes Care</i> , 2012 , 35, 1749-56	14.6	159
913	Glucose metabolism in 105 children and adolescents after pancreatectomy for congenital hyperinsulinism. <i>Diabetes Care</i> , 2012 , 35, 198-203	14.6	109

912	Influence of hyperglycemia during and after pregnancy on postpartum vascular function. 2012 , 302, R768-75	22
911	Hyperandrogenism sensitizes mononuclear cells to promote glucose-induced inflammation in lean reproductive-age women. 2012 , 302, E297-306	46
910	Regulation of mitochondrial biogenesis by lipoprotein lipase in muscle of insulin-resistant offspring of parents with type 2 diabetes. 2012 , 61, 877-87	50
909	Associations of prenatal metabolic abnormalities with insulin and adiponectin concentrations in human milk. 2012 , 95, 867-74	59
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907	Elevated plasma glucose-dependent insulinotropic polypeptide associates with hyperinsulinemia in metabolic syndrome. 2012 , 166, 917-22	20
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903	Increased serum concentrations of persistent organic pollutants among prediabetic individuals: potential role of altered substrate oxidation patterns. 2012 , 97, E1705-13	23
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896	Short-term exercise reduces markers of hepatocyte apoptosis in nonalcoholic fatty liver disease. 2012 , 113, 1-6	62
895	Changes in insulin sensitivity precede changes in body composition during 14 days of step reduction combined with overfeeding in healthy young men. 2012 , 113, 7-15	70

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890	Insulin resistance and excess risk of diabetes in Mexican-Americans: the San Antonio Heart Study. 2012 , 97, 793-9	28
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882	Effects of brief perturbations in energy balance on indices of glucose homeostasis in healthy lean men. 2012 , 36, 1094-101	30
881	Intravenous acetate elicits a greater free fatty acid rebound in normal than hyperinsulinaemic humans. 2012 , 66, 1029-34	37
880	Vitamin D status and glucose homeostasis in obese children and adolescents living in the tropics. 2012 , 36, 491-5	26
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871	Hyperglycemia and a common variant of GCKR are associated with the levels of eight amino acids in 9,369 Finnish men. 2012 , 61, 1895-902		195
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869	Metabolic impact of a ketogenic diet compared to a hypocaloric diet in obese children and adolescents. 2012 , 25, 697-704		49
868	Acute and long-term effects of Roux-en-Y gastric bypass on glucose metabolism in subjects with Type 2 diabetes and normal glucose tolerance. 2012 , 303, E122-31		239
867	Timing of stage II lactogenesis is predicted by antenatal metabolic health in a cohort of primiparas. 2012 , 7, 43-9		64
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865	Elevated TCA cycle function in the pathology of diet-induced hepatic insulin resistance and fatty liver. 2012 , 53, 1080-92		241
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862	Low serum adiponectin levels in Korean children with a family history of type 2 diabetes mellitus. 2012 , 77, 382-7		7
861	Effects of a culturally grounded community-based diabetes prevention program for obese Latino adolescents. 2012 , 38, 504-12		38
860	Beyond the morphology of the glucose curve following an oral glucose tolerance test in obese youth. 2012 , 166, 107-14		34
859	Thyroid function tests in obese prepubertal children: correlations with insulin sensitivity and body fat distribution. 2012 , 78, 100-5		14

858	Serum uric acid and 1-h postload glucose in essential hypertension. <i>Diabetes Care</i> , 2012 , 35, 153-7	14.6	33
857	The acute impact of ingestion of sourdough and whole-grain breads on blood glucose, insulin, and incretins in overweight and obese men. 2012 , 2012, 184710		16
856	The acute and residual effect of a single exercise session on meal glucose tolerance in sedentary young adults. 2012 , 2012, 278678		23
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854	Effects of 16-week consumption of caffeinated and decaffeinated instant coffee on glucose metabolism in a randomized controlled trial. 2012 , 2012, 207426		46
853	Lowering physical activity impairs glycemic control in healthy volunteers. 2012 , 44, 225-31		82
852	Insulin sensitivity, β cell function, and incretin effect in individuals with elevated 1-hour postload plasma glucose levels. <i>Diabetes Care</i> , 2012 , 35, 868-72	14.6	58
851	Preferential reductions in intermuscular and visceral adipose tissue with exercise-induced weight loss compared with calorie restriction. 2012 , 112, 79-85		48
850	Glucose metabolism and antidepressant medication. 2012 , 18, 5900-19		39
849	Insulin sensitivity deteriorates after short-term lifestyle intervention in the insulin sensitive phenotype of obesity. 2012 , 5, 68-76		8
848	Protocol for a randomised clinical study comparing the effect of Roux-en-Y gastric bypass and sleeve gastrectomy on reactive hypoglycaemia in morbidly obese subjects. 2012 , 2,		1
847	Hyperglycemia-induced oxidative stress is independent of excess abdominal adiposity in normal-weight women with polycystic ovary syndrome. 2012 , 27, 3560-8		37
846	Ectopic lipid accumulation and reduced glucose tolerance in elderly adults are accompanied by altered skeletal muscle mitochondrial activity. 2012 , 97, 242-50		65
845	Increased pancreatic fat fraction is present in obese adolescents with metabolic syndrome. 2012 , 54, 720-6		37
844	Metabolic surgery for non-obese type 2 diabetes: incretins, adipocytokines, and insulin secretion/resistance changes in a 1-year interventional clinical controlled study. 2012 , 256, 72-8		48
843	Successful treatment of prediabetes in clinical practice: targeting insulin resistance and β cell dysfunction. 2012 , 18, 342-50		29
842	Sleep apnea and glucose metabolism: a long-term follow-up in a community-based sample. 2012 , 142, 935-942		92
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840	Effects of voglibose and nateglinide on glycemic status and coronary atherosclerosis in early-stage diabetic patients. 2012 , 76, 712-20	20
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828	The absence of insulin resistance in metabolic syndrome definition leads to underdiagnosing of metabolic risk in obese patients. 2012 , 171, 1331-7	20
827	1-Hour plasma glucose in obese youth. 2012 , 49, 435-43	18
826	Clinical and metabolic effects of first-line treatment with somatostatin analogues or surgery in acromegaly: a retrospective and comparative study. 2012 , 15, 539-51	26
825	High incidence of insulin resistance and dysglycemia amongst nondiabetic cardiac surgical patients. 2012 , 94, 117-22	5
824	Cardiometabolic risk profiles and carotid atherosclerosis in individuals with prediabetes identified by fasting glucose, postchallenge glucose, and hemoglobin A1c criteria. <i>Diabetes Care</i> , 2012 , 35, 1144-9 ^{14.6}	67
823	A cross-over study of the acute effects of espresso coffee on glucose tolerance and insulin sensitivity in people with type 2 diabetes mellitus. 2012 , 61, 1231-7	28

822	Beneficial effect of branched-chain amino acid supplementation on glycemic control in chronic hepatitis C patients with insulin resistance: implications for type 2 diabetes. 2012 , 61, 1388-94	26
821	Relationship of angiographically defined coronary artery disease with insulin sensitivity and secretion in subjects with different glucose tolerance. 2012 , 60, 367-71	8
820	The prevalence of glucose metabolism abnormalities in Greek women with polycystic ovary syndrome. 2012 , 28, 867-70	11
819	Impaired glucose tolerance and obesity as effect modifiers of ethnic disparities of the progression to diabetes: the San Antonio Heart Study. <i>Diabetes Care</i> , 2012 , 35, 2548-52	14.6 9
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