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Plasma mineral content in type-2 diabetic patients and their association with the metabolic syndrome

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#	Paper	IF	Citations
56	Nutrition and the older diabetic. <i>Clinics in Geriatric Medicine</i> , 2008 , 24, 503-13, vii	3.8	3
55	Trace and toxic element patterns in nonsmoker patients with noninsulin-dependent diabetes mellitus, impaired glucose tolerance, and fasting glucose. <i>International Journal of Diabetes in Developing Countries</i> , 2009 , 29, 35-40	0.8	60
54	Zinc and diabetes--clinical links and molecular mechanisms. <i>Journal of Nutritional Biochemistry</i> , 2009 , 20, 399-417	6.3	290
53	Altered metabolism of copper, zinc, and magnesium is associated with increased levels of glycated hemoglobin in patients with diabetes mellitus. <i>Metabolism: Clinical and Experimental</i> , 2009 , 58, 1477-82	12.7	126
52	Plasma copper/zinc ratio: an inflammatory/nutritional biomarker as predictor of all-cause mortality in elderly population. <i>Biogerontology</i> , 2010 , 11, 309-19	4.5	104
51	Maternal zinc deficiency in rats affects growth and glucose metabolism in the offspring by inducing insulin resistance postnatally. <i>Journal of Nutrition</i> , 2010 , 140, 1621-7	4.1	43
50	Trace elements in glucometabolic disorders: an update. <i>Diabetology and Metabolic Syndrome</i> , 2010 , 2, 70	5.6	87
49	Trace elements status in diabetes mellitus type 2: possible role of the interaction between molybdenum and copper in the progress of typical complications. <i>Diabetes Research and Clinical Practice</i> , 2011 , 91, 333-41	7.4	81
48	Selenium deficiency is associated with insulin resistance in patients with hepatitis C virus-related chronic liver disease. <i>Nutrition Research</i> , 2011 , 31, 829-35	4	28
47	Parameters of glycemic control and their relationship with zinc concentrations in blood and with superoxide dismutase enzyme activity in type 2 diabetes patients. <i>Arquivos Brasileiros De Endocrinologia E Metabologia</i> , 2011 , 55, 701-7		18
46	Low zinc in drinking water is associated with the risk of type 1 diabetes in children. <i>Pediatric Diabetes</i> , 2011 , 12, 156-64	3.6	31
45	Trace elements in obese Turkish children. <i>Biological Trace Element Research</i> , 2011 , 143, 188-95	4.5	43
44	Contribution of zinc deficiency to insulin resistance in patients with primary biliary cirrhosis. <i>Biological Trace Element Research</i> , 2011 , 144, 133-42	4.5	8
43	Correlation between microalbuminuria and urinary copper in type two diabetic patients. <i>Indian Journal of Endocrinology and Metabolism</i> , 2011 , 15, 316-9	1.7	6
42	Increase in total antioxidant capacity of plasma despite high levels of oxidative stress in uncomplicated type 2 diabetes mellitus. <i>Journal of International Medical Research</i> , 2012 , 40, 709-16	1.4	55
41	Serum levels of polyunsaturated fatty acids are low in Chinese men with metabolic syndrome, whereas serum levels of saturated fatty acids, zinc, and magnesium are high. <i>Nutrition Research</i> , 2012 , 32, 71-7	4	47
40	In vitro upregulation of erythrocytes glucose uptake by <i>Rhaphnus sativa</i> extract in diabetic patients. <i>Biochimie</i> , 2012 , 94, 1206-12	4.6	2

39	Disturbed zinc homeostasis in diabetic patients by in vitro and in vivo analysis of insulinomimetic activity of zinc. <i>Journal of Nutritional Biochemistry</i> , 2012 , 23, 1458-66	6.3	89
38	Selenium, zinc, and copper plasma levels in patients with schizophrenia: relationship with metabolic risk factors. <i>Biological Trace Element Research</i> , 2013 , 156, 22-8	4.5	44
37	Comparative metal distribution in scalp hair of Pakistani and Irish referents and diabetes mellitus patients. <i>Clinica Chimica Acta</i> , 2013 , 415, 207-14	6.2	24
36	Zinc as a potential coadjuvant in therapy for type 2 diabetes. <i>Food and Nutrition Bulletin</i> , 2013 , 34, 215-21.8		22
35	Sodium molybdate prevents hypertension and vascular prostanoid imbalance in fructose-overloaded rats. <i>Autonomic and Autacoid Pharmacology</i> , 2013 , 33, 43-8		1
34	Trace elements, oxidative stress and glycemic control in young people with type 1 diabetes mellitus. <i>Journal of Trace Elements in Medicine and Biology</i> , 2014 , 28, 18-22	4.1	50
33	Interactions between zinc transporter-8 gene (SLC30A8) and plasma zinc concentrations for impaired glucose regulation and type 2 diabetes. <i>Diabetes</i> , 2014 , 63, 1796-803	0.9	66
32	Applicability of the bismuth bulk rotating disk electrode for heavy metal monitoring in undisturbed environmental and biological samples: determination of Zn(II) in rainwater, tap water and urine. <i>Analytical Methods</i> , 2014 , 6, 8668-8674	3.2	8
31	Micronutrient status in type 2 diabetes: a review. <i>Advances in Food and Nutrition Research</i> , 2014 , 71, 55-100		50
30	Association of urinary metal profiles with altered glucose levels and diabetes risk: a population-based study in China. <i>PLoS ONE</i> , 2015 , 10, e0123742	3.7	71
29	Immunomodulation by Environmental Chemicals: Insights into Mammalian Immune Responses to Arsenic, Cadmium, and Lead. <i>Advances in Molecular Toxicology</i> , 2015 , 9, 109-159	0.4	1
28	Molybdenum and copper in four varieties of common bean (<i>Phaseolus vulgaris</i>): new data of potential utility in designing healthy diet for diabetic patients. <i>Biological Trace Element Research</i> , 2015 , 163, 244-54	4.5	9
27	Comparative Study of Serum Copper, Iron, Magnesium, and Zinc in Type 2 Diabetes-Associated Proteinuria. <i>Biological Trace Element Research</i> , 2015 , 168, 321-9	4.5	20
26	Effect of multispecies probiotic supplements on serum minerals, liver enzymes and blood pressure in patients with type 2 diabetes. <i>International Journal of Diabetes in Developing Countries</i> , 2015 , 35, 90-95 ^{0.8}		13
25	Altered Concentrations of Copper, Zinc, and Iron are Associated With Increased Levels of Glycated Hemoglobin in Patients With Type 2 Diabetes Mellitus and Their First-Degree Relatives. <i>International Journal of Endocrinology and Metabolism</i> , 2016 , 14, e33273	1.8	18
24	Serum Zn/Cu Ratio Is Associated with Renal Function, Glycemic Control, and Metabolic Parameters in Japanese Patients with and without Type 2 Diabetes: A Cross-sectional Study. <i>Frontiers in Endocrinology</i> , 2016 , 7, 147	5.7	19
23	Magnesium status and the metabolic syndrome: A systematic review and meta-analysis. <i>Nutrition</i> , 2016 , 32, 409-17	4.8	51
22	Systems biology of personalized nutrition. <i>Nutrition Reviews</i> , 2017 , 75, 579-599	6.4	43

21	Multiple metals exposure, elevated blood glucose and dysglycemia among Chinese occupational workers. <i>Journal of Diabetes and Its Complications</i> , 2017 , 31, 101-107	3.2	18
20	Expression Patterns and Correlations with Metabolic Markers of Zinc Transporters and in Obesity and Polycystic Ovary Syndrome. <i>Frontiers in Endocrinology</i> , 2017 , 8, 38	5.7	7
19	Trace Elements in Pleural Effusion Correlates with Smokers with Lung Cancer. <i>Biological Trace Element Research</i> , 2018 , 182, 14-20	4.5	6
18	Association between exposure to arsenic, nickel, cadmium, selenium, and zinc and fasting blood glucose levels. <i>Environmental Pollution</i> , 2019 , 255, 113325	9.3	24
17	The effect of zinc supplementation in pre-diabetes: A protocol for systematic review and meta-analysis. <i>Medicine (United States)</i> , 2019 , 98, e16259	1.8	3
16	The zinc transporter Zip14 (SLC39a14) affects Beta-cell Function: Proteomics, Gene expression, and Insulin secretion studies in INS-1E cells. <i>Scientific Reports</i> , 2019 , 9, 8589	4.9	5
15	The immune-nutrition interplay in aging [Facts and controversies. <i>Nutrition and Healthy Aging</i> , 2019 , 5, 73-95	1.3	7
14	A possible etiological factor in obesity: element status in blood and tooth of overweight versus normal-weight children. <i>International Journal of Environmental Health Research</i> , 2018 , 1-13	3.6	3
13	Is There a Link between Zinc Intake and Status with Plasma Fatty Acid Profile and Desaturase Activities in Dyslipidemic Subjects?. <i>Nutrients</i> , 2019 , 12,	6.7	13
12	Association of plasma chromium with metabolic syndrome among Chinese adults: a case-control study. <i>Nutrition Journal</i> , 2020 , 19, 107	4.3	0
11	Association between serum zinc and copper concentrations and copper/zinc ratio with the prevalence of knee chondrocalcinosis: a cross-sectional study. <i>BMC Musculoskeletal Disorders</i> , 2020 , 21, 97	2.8	2
10	Kidney Adaptations Prevent Loss of Trace Elements in Wistar Rats with Early Metabolic Syndrome. <i>Biological Trace Element Research</i> , 2021 , 199, 1941-1953	4.5	0
9	Therapeutic Potential of Metals in Managing the Metabolic Syndrome. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 119-148	0.8	
8	Associations between ionic profile and metabolic abnormalities in human population. <i>PLoS ONE</i> , 2012 , 7, e38845	3.7	57
7	High dietary magnesium intake is associated with low insulin resistance in the Newfoundland population. <i>PLoS ONE</i> , 2013 , 8, e58278	3.7	40
6	Aluminium toxicosis: a review of toxic actions and effects. <i>Interdisciplinary Toxicology</i> , 2019 , 12, 45-70	2.3	78
5	Effects of Synbiotic Food Consumption on Serum Minerals, Liver Enzymes, and Blood Pressure in Patients with Type 2 Diabetes: A Double-blind Randomized Cross-over Controlled Clinical Trial. <i>International Journal of Preventive Medicine</i> , 2017 , 8, 43	1.6	15
4	Diabetes. 2011 , 328-360		

3 Discussion: Minerals. **2014**, 101-122

2 Recent advances in the application of ionomics in metabolic diseases. 9, ○

1 Association between magnesium intake and the risk of anemia among adults in the United States. 10, ○