

Resource Summary Report

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HOMA2 calculator

RRID:SCR_023419

Type: Tool

Proper Citation

HOMA2 calculator (RRID:SCR_023419)

Resource Information

URL: <https://www.dtu.ox.ac.uk/homacalculator/>

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Description: Software tool used to calculate Homeostasis Model Assessment which takes account of variations in hepatic and peripheral glucose resistance, increases in insulin secretion curve for plasma glucose concentrations and contribution of circulating proinsulin. Provides access to HOMA2 model for researchers who wish to use model derived estimates of %B and %S, rather than linear approximations.

Synonyms: HOMA Calculator

Resource Type: software application, software resource

Keywords: calculate Homeostasis Model Assessment, Homeostasis Model Assessment, HOMA calculator

Availability: Free, Available for download, Freely available

Resource Name: HOMA2 calculator

Resource ID: SCR_023419

Record Creation Time: 20230328T050203+0000

Record Last Update: 20260805T044515+0000

Ratings and Alerts

No rating or validation information has been found for HOMA2 calculator.

No alerts have been found for HOMA2 calculator.

Data and Source Information

Usage and Citation Metrics

We found 43 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Chen C, et al. (2026) Clustering-based subgroups of type 2 diabetes mellitus and their associations with diabetes remission after bariatric surgery. Chinese medical journal, 139(1), 145.

Galderisi A, et al. (2025) Metabolic Phenotype of Stage 1 and Stage 2 Type 1 Diabetes Using Modeling of ?? Cell Function. The Journal of clinical endocrinology and metabolism, 110(11), 3168.

Aliyu U, et al. (2025) Genetic risk and polygenic risk score assessment of prediabetes and progression to type 2 diabetes. Diabetes, obesity & metabolism, 27(8), 4469.

Askeland A, et al. (2025) Non-invasive liver fibrosis markers are increased in obese individuals with non-alcoholic fatty liver disease and the metabolic syndrome. Scientific reports, 15(1), 10652.

O CK, et al. (2025) A polygenic risk score derived from common variants of monogenic diabetes genes is associated with young-onset type 2 diabetes and cardiovascular-kidney complications. Diabetologia, 68(2), 367.

Stentebjerg LL, et al. (2025) Altered postprandial glucose metabolism and enteropancreatic hormone responses during pregnancy following Roux-en-Y gastric bypass: a prospective cohort study. BMJ open diabetes research & care, 13(2).

Si Y, et al. (2025) Nomogram for Predicting Suboptimal Weight Loss at Three Years after Roux-en-Y Gastric Bypass Surgery in Chinese Patients with Obesity and Type 2 Diabetes. Obesity facts, 18(2), 157.

Brishti MA, et al. (2025) Plasma Metabolomic Profiling Reveals Systemic Alterations in a Mouse Model of Type 2 Diabetes. Metabolites, 15(9).

Feng X, et al. (2025) Associations between environmental glyphosate exposure and glucose homeostasis indices in US general adults: a national population-based cross-sectional study. Scientific reports, 15(1), 1627.

Aliyu U, et al. (2025) Evaluating indices of insulin resistance and estimating the prevalence of insulin resistance in a large biobank cohort. Frontiers in endocrinology, 16, 1591677.

Shen X, et al. (2025) Cerebral Small Vessel Disease Outperforms Brain Atrophy as an Imaging Biomarker in Diabetic Retinopathy. Journal of diabetes, 17(2), e70058.

Jagannathan R, et al. (2025) Subtypes of Type 2 Diabetes and Prediabetes: Mortality and Excess Life Lost in South Asians. Research square.

Tas E, et al. (2025) The association between hepatic steatosis, vitamin D status, and insulin resistance in adolescents with obesity. *Obesity pillars*, 14, 100173.

Armio RL, et al. (2024) Longitudinal study on hippocampal subfields and glucose metabolism in early psychosis. *Schizophrenia (Heidelberg, Germany)*, 10(1), 66.

Piemonti L, et al. (2024) Autologous Pancreatic Islet Cell Transplantation Following Pancreatectomy for Pancreas Diseases Other Than Chronic Pancreatitis: A 15-y Study of the Milan Protocol. *Transplantation*, 108(9), 1962.

Aliyu U, et al. (2024) Genome-wide association study and polygenic score assessment of insulin resistance. *Frontiers in endocrinology*, 15, 1384103.

Jiang J, et al. (2024) Prolactin deficiency drives diabetes-associated cognitive dysfunction by inducing microglia-mediated synaptic loss. *Journal of neuroinflammation*, 21(1), 295.

O CK, et al. (2024) Precision Medicine to Redefine Insulin Secretion and Monogenic Diabetes-Randomized Controlled Trial (PRISM-RCT) in Chinese patients with young-onset diabetes: design, methods and baseline characteristics. *BMJ open diabetes research & care*, 12(3).

Liu YJ, et al. (2024) Association between vitamin D status and cardiometabolic risk factors in adults with type 2 diabetes in Shenzhen, China. *Frontiers in endocrinology*, 15, 1346605.

Miller H, et al. (2024) Translating the potential of the urine steroid metabolome to stage NAFLD (TrUSt-NAFLD): study protocol for a multicentre, prospective validation study. *BMJ open*, 14(1), e074918.