

15. Pascuali N, Scotti L, Di Pietro M, et al. Ceramide-1-phosphate has protective properties against cyclophosphamide-induced ovarian damage in a mice model of premature ovarian failure. *Hum Reprod* 2018;33:844-59.
16. Barrea L, Muscogiuri G, Pugliese G, et al. Metabolically healthy obesity (MHO) vs. metabolically unhealthy obesity (MUO) phenotypes in PCOS: association with endocrine-metabolic profile, adherence to the mediterranean diet, and body composition. *Nutrients* 2021;13:3925.
17. Bright K, Dube L, Hayden KA, Gordon JL. Effectiveness of psychological interventions on mental health, quality of life and relationship satisfaction for individuals and/or couples undergoing fertility treatment: a systematic review and meta-analysis protocol. *BMJ Open* 2020;10:e036030.
18. Bourrion B, Panjo H, Bithorel PL, et al. The economic burden of infertility treatment and distribution of expenditures overtime in France: a self-controlled pre-post study. *BMC Health Serv Res* 2022;22:512.
19. Ennab F, Atiomo W. Obesity and female infertility. *Best Pract Res Clin Obst Gynaecol* 2023;89:102336.
20. Chen CI, Hsu MI, Lin SH, et al. Adiponectin and leptin in overweight/obese and lean women with polycystic ovary syndrome. *Gynecological Endocrinol* 2015;31:264-8.
21. Nair NB, Skaria M, Kumar RS. Female obesity: a probable cause of infertility. *J Drug Delivery Ther* 2022;12:216-20.
22. Zander-Fox DL, Henshaw R, Hamilton H, Lane M. Does obesity really matter? The impact of BMI on embryo quality and pregnancy outcomes after IVF in women aged ≤ 38 years. *Aust New Z J Obstet Gynaecol* 2012;52:270-6.
23. Dalle S, Tauveron I, Brugnon F, et al. Liver X receptors: a possible link between lipid disorders and female infertility. *Int J Mol Sci* 2018;19:2177.
24. Stouffer RL, Xu F, Duffy DM. Molecular control of ovulation and luteinization in the primate follicle. *Front Biosci* 2007;12:297-307.
25. Willnow TE, Hammes A, Eaton S. Lipoproteins and their receptors in embryonic development: more than cholesterol clearance. *Development* 2007;134:3239-49.
26. World Health Organization. (2021). WHO laboratory manual for the examination and processing of human semen, 6th ed. World Health Organization. <https://iris.who.int/handle/10665/343208>. License: CC BY-NC-SA 3.0 IGO.
27. OECD/World Health Organization (2020), "Overweight and obesity", in *Health at a Glance: Asia/Pacific 2020: Measuring Progress Towards Universal Health Coverage*, OECD Publishing, Paris. DOI: <https://doi.org/10.1787/a47d0cd2-en>.
28. Dobiášová M. AIP-atherogenic index of plasma as a significant predictor of cardiovascular risk: from research to practice. *Vnitr Lek* 2006;52:64-71. [Article in Czech].
29. Dobiášová M, Frohlich J. The plasma parameter log (TG/HDL-C) as an atherogenic index: correlation with lipoprotein particle size and esterification rate in apoB-lipoprotein-depleted plasma (FER(HDL)). *Clin Biochem* 2001;34:583-8.
30. PSC Prospective Studies Collaboration. Body-mass index and cause-specific mortality in 900000 adults: collaborative analyses of 57 prospective studies. *Lancet* 2009;373:1083-96.
31. Wise LA, Wesselink AK, Tucker KL, et al. Dietary fat intake and fecundability in 2 preconception cohort studies. *Am J Epidemiol* 2018;187:60-74.
32. Lila A. Impact of obesity on ovarian reserve. 2019. Available from: <https://urn.nsk.hr/urn:nbn:hr:105:121059>.
33. van der Steeg JW, Steures P, Eijkemans MJ, et al. Obesity affects spontaneous pregnancy chances in subfertile, ovulatory women. *Hum Reprod* 2008;23:324-8.
34. Bagordo F, Grassi T, Serio F, et al. Dietary habits and health among university students living at or away from home in Southern Italy. *J Food Nutr Res* 2013;52:164-71.
35. Ginawi IA, Bashir AI, Alreshidi YQ, et al. Association between obesity and cigarette smoking: a community-based study. *J Endocrinol Metabol* 2016;6:149-53.
36. Wu S, Zhang X, Zhao X, et al. Preconception dietary patterns and associations with IVF outcomes: an ongoing prospective cohort study. *Front Nutr* 2022;9:808355.
37. Hu FB. Dietary pattern analysis: a new direction in nutritional epidemiology. *Curr Opin Lipidol* 2002;13:3-9.
38. Gaskins AJ, Nassan EL, Chiu YH, et al. Dietary patterns and outcomes of assisted reproduction. *Am J Obstet Gynecol* 2019;221:567.e1-18.
39. Abiemo FE, Alonso A, Nettleton JA, et al. Relationships of the Mediterranean dietary pattern with insulin resistance and diabetes incidence in the multi-ethnic study of atherosclerosis (MESA). *Br J Nutr* 2013;109:1490-7.
40. Aljar R. To study the effect of high intake of bakery products in causing obesity among students. *EC Nutrition* 2019;14-10:829-51.
41. Saremi A, Moradzadeh R. The relationship between physical activity and primary infertility in Iranian women. *Women Health Bull* 2024;11:20-8.
42. Li X, Ding W, Liu J, et al. Effects of dyslipidemia on IVF/ICSI pregnancy outcome in patients with polycystic ovary syndrome. *Zhonghua Fu Chan Ke Za Zhi* 2018;53:402-8. [Article in Chinese].
43. Tehrani FR, Erfani H, Cheraghi L, et al. Lipid profiles and ovarian reserve status: a longitudinal study. *Hum Reprod* 2014;29:2522-9.
44. Kanthe PS, Patil BS, Bagali S, et al. Atherogenic index as a predictor of cardiovascular risk among women with different grades of obesity. *Int J Collab Res Intern Med Public Health* 2012;4:1767-74.
45. Zain MM, Norman RJ. Impact of obesity on female fertility and fertility treatment. *Womens Health* 2008;4:183-94.
46. Abdesslem H, Demmouche A. A case-control study of body mass index and infertility in Algerian women (Sidi Bel Abbes, west of Algeria). *Int J Infertility Fetal Med* 2012;6:103-7.
47. Liu T, Qu J, Tian M, et al. Lipid metabolic process involved in oocyte maturation during folliculogenesis. *Front Cell Dev Biol* 2022;10:806890.
48. Zhu X, Hong X, Wu J, et al. The association between circulating lipids and female infertility risk: a univariable and multivariable mendelian randomization analysis. *Nutrients* 2023;15:3130.
49. Lupattelli G, Marchesi S, Lombardini R, et al. Mechanisms of high-density lipoprotein cholesterol effects on the endothelial function in hyperlipemia. *Metabolism* 2003;52:1191-5.