



## References

### **Section: Sperm Age**

1. Jenkins TG, James ER, Aston KI, et al. Age-associated sperm DNA methylation patterns do not directly persist trans-generationally. *Epigenetics Chromatin*. 2019;12(1):74. Published 2019 Dec 19. doi:10.1186/s13072-019-0323-4
2. Jenkins TG, Aston KI, Cairns B, Smith A, Carrell DT. Paternal germ line aging: DNA methylation age prediction from human sperm. *BMC Genomics*. 2018;19(1):763. Published 2018 Oct 22. doi:10.1186/s12864-018-5153-4
3. Jenkins TG, Aston KI, Pflueger C, Cairns BR, Carrell DT. Age-associated sperm DNA methylation alterations: possible implications in offspring disease susceptibility. *PLoS Genet*. 2014;10(7):e1004458. Published 2014 Jul 10. doi:10.1371/journal.pgen.1004458
4. Janeczko D, Hołowczuk M, Orzeł A, Klatka B, Semczuk A. Paternal age is affected by genetic abnormalities, perinatal complications and mental health of the offspring. *Biomed Rep*. 2020;12(3):83-88. doi:10.3892/br.2019.1266
5. Ford WC, North K, Taylor H, Farrow A, Hull MG, Golding J. Increasing paternal age is associated with delayed conception in a large population of fertile couples: evidence for declining fecundity in older men. The ALSPAC Study Team (Avon Longitudinal Study of Pregnancy and Childhood). *Hum Reprod*. 2000;15(8):1703-1708. doi:10.1093/humrep/15.8.1703
6. Petersen CG, Mauri AL, Vagnini LD, et al. The effects of male age on sperm DNA damage: an evaluation of 2,178 semen samples. *JBRA Assist Reprod*. 2018;22(4):323-330. Published 2018 Nov 1. doi:10.5935/1518-0557.20180047
7. Schwartz D, Mayaux MJ, Spira A, et al. Semen characteristics as a function of age in 833 fertile men. *Fertil Steril*. 1983;39(4):530-535. doi:10.1016/s0015-0282(16)46946-3
8. Elzanaty S. Association between age and epididymal and accessory sex gland function and their relation to sperm motility. *Arch Androl*. 2007;53(3):149-156. doi:10.1080/01485010701225667
9. Sandin S, Schendel D, Magnusson P, et al. Autism risk associated with parental age and with increasing difference in age between the parents. *Mol Psychiatry*. 2016;21(5):693-700. doi:10.1038/mp.2015.70

### **Section: Sperm Count**

1. Cooper TG, Noonan E, von Eckardstein S, et al. World Health Organization reference values for human semen characteristics. *Hum Reprod Update*. 2010;16(3):231-245. doi:10.1093/humupd/dmp048
2. Mäkelä JA., Toppari J. (2017) Spermatogenesis. In: Simoni M., Huhtaniemi I. (eds) *Endocrinology of the Testis and Male Reproduction*. Endocrinology. Springer, Cham

## **Section: Risk Factors**

1. Zhang W, Li M, Sun F, et al. Association of Sperm Methylation at *LINE-1*, Four Candidate Genes, and Nicotine/Alcohol Exposure With the Risk of Infertility. *Front Genet.* 2019;10:1001. Published 2019 Oct 18. doi:10.3389/fgene.2019.01001
2. Sansone A, Di Dato C, de Angelis C, et al. Smoke, alcohol and drug addiction and male fertility. *Reprod Biol Endocrinol.* 2018;16(1):3. Published 2018 Jan 15. doi:10.1186/s12958-018-0320-7
3. Marinelli D, Gaspari L, Pedotti P, Taioli E. Mini-review of studies on the effect of smoking and drinking habits on semen parameters. *Int J Hyg Environ Health.* 2004;207(3):185-192. doi:10.1078/1438-4639-00283
4. Babakhanzadeh E, Nazari M, Ghasemifar S, Khodadadian A. Some of the Factors Involved in Male Infertility: A Prospective Review. *Int J Gen Med.* 2020;13:29-41. Published 2020 Feb 5. doi:10.2147/IJGM.S241099
5. Chambers TJ, Richard RA. The impact of obesity on male fertility. *Hormones (Athens).* 2015;14(4):563-568. doi:10.14310/horm.2002.1621
6. Craig JR, Jenkins TG, Carrell DT, Hotaling JM. Obesity, male infertility, and the sperm epigenome. *Fertil Steril.* 2017;107(4):848-859. doi:10.1016/j.fertnstert.2017.02.115
7. Liu Y, Ding Z. Obesity, a serious etiologic factor for male subfertility in modern society. *Reproduction.* 2017;154(4):R123-R131. doi:10.1530/REP-17-0161
8. Giahi L, Mohammadmoradi S, Javidan A, Sadeghi MR. Nutritional modifications in male infertility: a systematic review covering 2 decades. *Nutr Rev.* 2016;74(2):118-130. doi:10.1093/nutrit/nuv059
9. Mehrpour O, Karrari P, Zamani N, Tsatsakis AM, Abdollahi M. Occupational exposure to pesticides and consequences on male semen and fertility: a review. *Toxicol Lett.* 2014;230(2):146-156. doi:10.1016/j.toxlet.2014.01.029
10. Jurewicz J, Hanke W, Radwan M, Bonde JP. Environmental factors and semen quality. *Int J Occup Med Environ Health.* 2009;22(4):305-329. doi:10.2478/v10001-009-0036-1
11. Miranda-Contreras L, Gómez-Pérez R, Rojas G, et al. Occupational exposure to organophosphate and carbamate pesticides affects sperm chromatin integrity and reproductive hormone levels among Venezuelan farm workers. *J Occup Health.* 2013;55(3):195-203. doi:10.1539/joh.12-0144-fs
12. Sharma R, Biedenharn KR, Fedor JM, Agarwal A. Lifestyle factors and reproductive health: taking control of your fertility. *Reprod Biol Endocrinol.* 2013;11:66. Published 2013 Jul 16. doi:10.1186/1477-7827-11-66
13. Yan X, Dong L, Liu Y, et al. Effects of physical exercises on semen quality and reproductive outcomes in male infertility: A protocol for systematic review and meta-analysis of randomized controlled trials. *Medicine (Baltimore).* 2019;98(41):e17494. doi:10.1097/MD.00000000000017494
14. Nargund, V. Effects of psychological stress on male fertility. *Nat Rev Urol* **12**, 373–382 (2015). <https://doi.org/10.1038/nrurol.2015.112>
15. Ilacqua, A., Izzo, G., Emerenziani, G.P. et al. Lifestyle and fertility: the influence of stress and quality of life on male fertility. *Reprod Biol Endocrinol* **16**, 115 (2018). <https://doi.org/10.1186/s12958-018-0436-9>