

25. Flaifel A, Guzzetta M, Occidental M, et al. Testicular Changes Associated With Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2). *Archives of Pathology & Laboratory Medicine*. 2020; 145(1): 8–9.
26. Li H, Xiao X, Zhang J, et al. Impaired spermatogenesis in COVID-19 patients. *EClinicalMedicine*. 2020; 28: 100604.
27. Xu J, Qi L, Chi X, et al. Orchitis: A Complication of Severe Acute Respiratory Syndrome (SARS)1. *Biology of Reproduction*. 2006; 74(2): 410–416.
28. Pan F, Xiao X, Guo J, et al. No evidence of severe acute respiratory syndrome–coronavirus 2 in semen of males recovering from coronavirus disease 2019. *Fertil Steril*. 2020; 113(6): 1135–1139.
29. Moghimi N, Eslami Farsani B, Ghadipasha M, et al. COVID-19 disrupts spermatogenesis through the oxidative stress pathway following induction of apoptosis. *Apoptosis*. 2021; 26(7): 415–430.
30. Tay MZ, Poh CM, Rénia L, MacAry PA, Ng LFP. The trinity of COVID-19: immunity, inflammation and intervention. *Nature Reviews Immunology*. 2020; 20(6): 363–374.
31. Ediz C, Tavukcu HH, Akan S, et al. Is there any association of COVID-19 with testicular pain and epididymo-orchitis? *International Journal of Clinical Practice*. 2021; 75(3): e13753.
32. Qingqing C, Wen QH, Ming Z, Huijun L, Zhen FF. Enhancement of Blood-Brain Barrier Permeability and Reduction of Tight Junction Protein Expression Are Modulated by Chemokines/Cytokines Induced by Rabies Virus Infection. *Journal of Virology*. 2014; 88(9): 4698–4710.
33. Vishvkarma R, Rajender S. Could SARS-CoV-2 affect male fertility? *Andrologia*. 2020; 52(9): e13712–e13712.
34. Ma L, Xie W, Li D, et al. Evaluation of sex-related hormones and semen characteristics in reproductive-aged male COVID-19 patients. *Journal of Medical Virology*. 2021; 93(1): 456–462.
35. Ma L, Xie W, Li D, et al. Effect of SARS-CoV-2 infection upon male gonadal function: a single center-based study. *medRxiv*. 2020.
36. Tian Y, Zhou L quan. Evaluating the impact of COVID-19 on male reproduction. *Reproduction*. 2021; 161(2): 37–44.
37. Pazir Y, Eroglu T, Kose A, et al. Impaired semen parameters in patients with confirmed SARS-CoV-2 infection: A prospective cohort study. *Andrologia*. 2021; 53(9): e14157.
38. Collodel G, Capitani S, Pammolli A, et al. Semen Quality of Male Idiopathic Infertile Smokers and Non-smokers: An Ultrastructural Study. *Journal of Andrology*. 2010; 31(2): 108–113.
39. World Health Organization, editor. WHO laboratory manual for the examination and processing of human semen. 6th ed. Geneva, Switzerland; 2021.
40. Guo L, Zhao S, Li W, et al. Absence of SARS-CoV-2 in semen of a COVID-19 patient cohort. *Andrology*. 2021; 9(1): 42–47.
41. Song H, Seddighzadeh B, Cooperberg MR, Huang FW. Expression of ACE2, the SARS-CoV-2 Receptor, and TMPRSS2 in Prostate Epithelial Cells. *Eur Urol*. 2020; 78(2): 296–298.
42. Massarotti C, Garolla A, Maccarini E, et al. SARS-CoV-2 in the semen: Where does it come from? *Andrology*. 2021; 9(1): 39–41.
43. Wang Z, Xu X. scRNA-seq profiling of human testes reveals the presence of the ACE2 receptor, a target for SARS-CoV-2 infection in spermatogonia, Leydig and Sertoli cells. *Cells*. 2020; 9(4): 920.
44. Aitken RJ. COVID-19 and male infertility: An update. *Andrology*. 2022.

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