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Author: Mohammad Hossein Ahmadi, Akbar Mirsalehian, Mohammad Ali Sadighi Gilani, Abbas Bahador, Malihe Talebi

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Asymptomatic infection with Mycoplasma hominis negatively affects semen 1 parameters and leads to male infertility as confirmed by improved semen 2 parameters after antibiotic treatment 3 4 Mohammad Hossein Ahmadi¹, Akbar Mirsalehian¹, Mohammad Ali Sadighi 5 Gilani^{2,3}, Abbas Bahador¹, and Malihe Talebi⁴ 6 7 ¹Department of Microbiology, School of Medicine, Tehran University of Medical Sciences, 8 Tehran, Iran. 9 ²Department of Andrology, Reproductive Biomedicine Research Center, Royan Institute for 10 Reproductive Biomedicine, ACECR, Tehran, Iran. 11 ³Department of Urology, Shariati Hospital, Tehran University of Medical Sciences, Tehran, Iran. 12 13 ⁴Department of Microbiology, School of Medicine, Iran University of Medical Sciences, Tehran, 14 Iran. 15 **Corresponding author:** 16 Dr. Mohammad Ali Sadighi Gilani; Department of Andrology, Reproductive Biomedicine 17 Research Center, Royan Institute for Reproductive Biomedicine, ACECR, Tehran, Iran. Tel: +98-18 19 21-23562162, P.O. Box: 16635-148; Department of Urology, Shariati Hospital, Tehran University 20 of Medical Sciences, Tehran, Iran. E-mail address: ma.sadighi@royaninstitute.org 21 22 Word counts: Abstract: 247 words; Manuscript text: 3,000 words. 23 **Keywords:** Mycoplasma hominis; asymptomatic infections; semen parameters; male infertility; 24 25 antibiotic treatment. 26 27 ACKNOWLEDGMENTS: This research has been supported by Tehran University of Medical 28 Sciences & health Services (grant No. 93-03-30/26350) and Royan institute for Reproductive Biomedicine (grant No. 93/19/80024). 29 30 **CONFLICT OF INTERESTS:** The authors declare that there is no conflict of interest.

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