

### Letter to the Editor

# Female Genital Tuberculosis Can Cause Infertility in Women or Not?

### Shaterian N1 and Shaterian N2\*

<sup>1</sup>Student Research Committee, Jahrom University of Medical Sciences, Jahrom, Iran <sup>2</sup>School of Nursing & Midwifery, Shahid Beheshti University of Medical Sciences, Tehran, Iran

\*Corresponding author: Negin Shaterian, School of Nursing & Midwifery, Shahid Beheshti University of Medical Sciences, Tehran, Iran

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One of the important issues is infertility that is increasing today and the causes are various. Bacterium Tuberculosis is viable in pulmonary and extrapulmonary [1]. Female genital tuberculosis is an extrapulmonary type that makes up 9% of the cases [1]. Tuberculosis infection of the female genitalia leads to secondary infertility, dyspareunia, amenorrhea, irregular menstruation, and chronic pelvic inflammatory disease [2]. In 90% of cases, female genital tuberculosis affects young women aged 18 to 38 years old [3]. The global prevalence of female genital tuberculosis in infertile women is about 5% to 10% [2]. Hence, it should be considered as a differential diagnosis of the infertility causes in areas with tuberculosis infection prevalence. The gold standard method for diagnosis of this bacterium is culture, but the minimum number of bacteria should be 10-100 bacilli per milligram in this method [4]. Moreover, its long incubation period in this method leads to delays in diagnosis and treatment [4]. Also, laparoscopy can be used for diagnosis. Both laparoscopic and molecular tests are complementary tests and together they can effectively confirm the diagnosis of female genital tuberculosis [4].

For the treatment of female genital tuberculosis, multidrug therapy with rifampicin, isoniazid, pyrazinamide, and ethambutol is used, while in more severe cases, surgery is recommended [5]. However, even after using multidrug therapy, infertile women with genital tuberculosis are less likely to be fertilized, and if they do become pregnant, the consequences of pregnancy such as ectopic pregnancy or miscarriage remain high [5]. Since, untreated tuberculosis causes extrapulmonary tuberculosis, preventative measures such as BCG vaccination at birth, identification of people with tuberculosis, early diagnosis, and treatment of tuberculosis can prevent extrapulmonary tuberculosis [2]. Therefore, similar to any other disease and infection, the best way to treat and reduce this infection and then reduce the rate of infertility is to diagnose and treat it early.

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