

The Impact of Working Environment Condition and Lifestyle Factors in Male Infertility in South of Iran

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Abstract : Background: Infertility is one of the most important issues in any society due to its psychological, medical and economic consequences that can greatly influence overall health and life. This study aims to assess the relationship between inhalation or exposing workplace pollution and dysfunction of the male reproductive system. Semen samples are male employees in south of Iran who exposed to work environmental pollutants for long hours. Method: Due to descriptive-analytical, the analysis of all interviews of all male patients of Bu Ali Medical Center and Pasteur Laboratory are conducted within 6 months. Random sampling numbered and patients signed informed consent. To analyze the data, Miller's fertility motivation questionnaires and the Miller-Smith lifestyle assessment inventory are used and Working Conditions Survey is developed. For analyzing the collecting data SPSS is used. Findings: Although sperm motility and volume had no statistically significant relationship with any of the lifestyle components, the weak relationship between sperm movement and work environment conditions ($P = 0.07$) lead to other factors to be investigated. * Among the factors of Working Environment Condition, smoking, work in the open environment and presence of more than 6 hours in the work environment with sperm mobility, smoking, contact with chemicals and radioactive with sperm volume at a level less than 0.05 had a statistically significant relationship. Conclusion: Finding revealed the environment pollution is one of the important factors in male infertility and strengthens this hypothesis. Working Environmental pollutants in the field of metropolitan pollution should be considered as a unifying hypothesis, possibly could interfere with male reproductive function.

Keywords : infertility, lifestyle, workplace pollution, male infertility

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