

Original Paper

Pregnancy complications among hospital operating room personnel in Fars province - Iran

Amini A (MD)*¹, Savaie M (MD)²

¹Assistant Professor, Department of Anesthesiology and Critical Care, Shiraz University of Medical Sciences, Shiraz, Iran. ²Anesthesiologist, Shiraz University of Medical Sciences, Shiraz, Iran.

Abstract

Background and Objective: Anesthetic agents effect on pregnancy in operating room personnel is a challenge in anesthesiology. This study was carried out to determined pregnancy complications among hospital operating room personals in Fars province – Iran.

Materials and Methods: In this case-control study, 122 women working in operating rooms of governmental Fars province hospitals during their pregnancies with different jobs considered as case group. 122 women working in internal and pediatric wards considered as control group. The history of pregnancy complications including infertility, abortion, preterm labor, fetal death, neonatal death and low birth weight obtained using questionnaire. Data were analyzed using SPSS-15 software and Chi-Square test.

Results: The incidence of abortion was 19.8% and 16% in case and control group respectively, this difference was not statistically significant. Infertility was significantly higher (8.2% versus 2.5%) in case group than control group ($P < 0.05$). No significant differences in incidence of preterm labor, fetal death, neonatal death and low birth weight were seen between two groups.

Conclusion: This study showed that the incidence of pregnancy complications is similar between women working in operating room and those working in other hospital wards but the prevalence of infertility is higher in operating room personnel than those of other wards.

Keywords: Operating Room, Abortion, Infertility, Preterm Labor, Fetal Death, Neonatal Death

* Corresponding Author: Amini A (MD), E-mail: aamini@sums.ac.ir

Received 24 August 2009

Revised 5 March 2010

Accepted 11 April 2010