Depression and anxiety in sterilised women in Iran

Sterilisation is an effective and convenient means of contraception and has become increasingly popular as a birth control technique throughout the world during the past 40 years. However, some women who choose sterilisation may suffer a neurotic syndrome, which is manifested in the form of depression, and loss of libido.1 We undertook a study designed to investigate depression, anxiety and post-operation regret rate in sterilised women referred to health centres in Tabriz, Iran in 2006. The study design was descriptive-analytical. The study participants comprised 300 women in the age range 25–45 years, of whom 150 women were sterilised between 1 and 10 years ago and 150 were a control group of non-sterilised women who used condoms, withdrawal or safe period methods for contraception. The control group was selected by a cluster random sampling method. Fifteen health centres were selected as a cluster from 96 health centres located in Tabriz. Ten women were selected randomly from each health centre using health documents. Women were eligible for inclusion in the study if they were aged between 25 and 45 years at the time of sampling, and if they had no history of psychological disorders and no events. There were no differences between the two groups as regards the number of children, income or demographic characteristics.

The women were contacted by telephone at their last known address and were asked to complete a questionnaire. Data collection was done using Zung’s self-rating depression and anxiety scale in addition to questions about post-sterilisation regret. Data were collected from the subjects anonymously and analysed using SPSS (v. 11.5) statistics software. Analysis employed t-test, Chi-square test and descriptive statistics.

The comparison of the means for depression in the two groups was not significantly different (p = 0.96), however the mean of anxiety in the case group was remarkably greater than the control group (p = 0.03). Insufficient post-sterilisation rest was a significant risk factor for depression and anxiety (p = 0.008 and p = 0.02, respectively). Requesting information about reversal after tubal sterilisation was 2.7% and the number of children, income or demographic characteristics.

The study findings as regards psychological disorders of sterilisation suggested that women undergoing sterilisation should ensure that they have a satisfactory relationship and reduce the extent of psychological disorders. Unlike studies undertaken in other countries,2 women’s regret after sterilisation was not significantly correlated with the women’s regret in our study. The earlier the sterilisation is carried out, the longer the woman’s remaining period of fertile life and the greater the chances of changes in her marital status and/or the loss of a child, both circumstances that may lead to a change in the desired family size and expression of regret. In our study, probably one of the reasons why women’s regret did not appear to be significantly related to young age of sterilisation was the infertility of divorce or remarriage in our study population. Consistent with our study, Jamieson et al. reported that women who had substantial conflict with their husbands or partners prior to sterilisation were more than three times as likely to regret their decision and more than five times more likely to request a reversal than women who did not report such conflict.2

In our study, pre-sterilisation counselling was reported by 9.2% of subjects. With respect to personality and adaptability differences in facing the changes, pre-sterilisation counselling and post-sterilisation follow-up systems have an important role in play in women’s psychological and psychosocial health promotion.

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Difficult insertion of IUS

I would like to present a case of difficult insertion of an intrauterine system (IUS) due to the failure of the device to fully extrude from the applicator despite correct deployment.

The patient, a 34-year-old woman, gravida 3 para 0, wished to have an IUS inserted following a medical termination of pregnancy. The termination had been quite an eventful procedure as the patient had profuse bleeding requiring dilatation and curettage and a blood transfusion. When she presented for the IUS fitting the bleeding had completely stopped. The IUS was inserted very easily as per the standard technique but on retrieving the inserter the device was still attached after what appeared to be a correct deployment. A second attempt with the same device yielded an identical result and it was not until a new device was used that the procedure could be completed successfully. Fearing operator failure, it was of some concern that the patient’s cervical canal following deployment (Figure 1). The patient had a TT380 Slimline®.1,2 It is thus important to collect for inspection any devices that fail to deploy correctly since this might shed some light on the reasons for such failures and expel the IUS immediately to facilitate pregnancy.

If 40 devices removed (22.5%) were ‘time expired’ (i.e. the device was beyond its recommended duration of use). Seven (17.5%) were removed due to bleeding problems, six (15%) were extruded and five (12.5%) were removed to facilitate pregnancy.

Almost half (45%) of the removals were because the device had served their purpose. These were ‘time expired’ (i.e. partner had vasectomy, menopause, etc.). The remaining 55% of devices were removed for complications or other reasons. The commonest reason for removals was bleeding (17.5% of clients).

Failure of intrauterine (IUD) or IUS deployment is likely to be an unreported event since the operator may blame themselves for not having (perhaps inadvertently) correctly deployed the device. However, it is extremely important to inspect all devices that fail in order to rule out manufacturing defects. The relative potency of our patient’s cervical canal following the recent termination might have caused the faulty device to remain trapped in the inserter despite full and correct deployment. Conversely, a similar defective device fitted in a woman with a tighter cervical os might have resulted in the device being released in the uterus but in an abnormally low position after having been dragged by the introducer on its withdrawal. In such a situation the operator would be totally unaware of the device malfunction, and the abnormally low positioning could lead to device expulsion.

The present case occurred with an IUS but it is not unreasonable to imagine that a similar mechanism could apply to different IUDs such as the TT380 Slimline®.1,2 It is thus important to collect for inspection any devices that fail to deploy correctly since this might shed some light on the reasons for such failures and expel the IUS immediately to facilitate pregnancy.

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Reasons for IUD/IUS removal

Intrauterine devices (IUDs) or intrauterine system (IUS) are more cost effective than oral contraception.1 Evidence from our clinics suggests that devices were being removed earlier than recommended. We therefore reviewed client contacts during 2005 in two clinics to inquire about the reasons for device removal. Table 1 shows the duration of use at clinic attendance. The lower section of the table shows the duration of use at removal. Of 40 devices removed (22.5%) were ‘time expired’ (i.e. the device was beyond its recommended duration of use). Seven (17.5%) were removed due to bleeding problems, six (15%) were extruded and five (12.5%) were removed to facilitate pregnancy.

Figure 1 Photograph showing intrauterine system device still attached to inserter following unsuccessful deployment.

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