Psychosocial Well-Being Indicators of Pregnant Women of the Ethnic Mexican Teenek

RA Castillo-Reyther1,2, SI Lara-Rodriguez1, M Galarraga-Robledo1, J Lumbreras-Marquez1, M Barraza-Salas3, YI Hernandez-Rayon4 and F Vazquez-Alaniz5*

1Gynecology & Obstetric Department, Central Hospital “Dr. Ignacio Morones Prieto”, Mexico
2Medicine Faculty, Autonomous University of San Luis Potosi, Mexico
3Chemistry Sciences Faculty, Juarez University of Durango State, Mexico
4Maternal and Child Hospital, Health Ministry of Durango, Mexico
5Clinical Laboratory, General Hospital 450, Health Ministry of Durango, Mexico

*Corresponding author: Fernando Vazquez-Alaniz, PhD, Clinical Laboratory, General Hospital 450, Health Ministry of Durango, Blvd. Jose Maria Patoni #403, El Cipres, Zip Code: 34206, Durango, Mexico, Tel: +52(618)1373321, E-mail: feralaniz1@hotmail.com

Abstract

Background: Pregnancy is a period of physiologic and physics changes in addition of cultural, social, religious and emotional influences. The type of violence during pregnancy period can be physical, sexual, emotional or psychological.

Objective: To describe patterns of sexuality, violence, depression and satisfaction with life and form of childbirth who wants pregnant Teenek indigenous women in the Huasteca region of San Luis Potosi in Mexico.

Methods: In 31 pregnant patients indigenous with birth control in community hospital, valid surveys were conducted to evaluate violence, depression, life satisfaction, which were repeated anonymously and added sexual habits, as well as no preference about seven forms of childbirth in women pregnant of the ethnic Mexican Teenek.

Results: The mean in the scale of life satisfaction was 18.5 (Slightly dissatisfied). With respect to depression, possibly was detected in 22.5% of all, 50% teens, violence was detected in 12.9% of all, and teens were affected in 33.3%. Regarding the sexual activity were observed a significant decrease in sexual desire, 51.6% and increased 6.2%. 58% discontinued sexual activity, mostly between the first and second quarters; of these 61% is afraid to affecting pregnancy, 38% by discomfort and 16% by migration of the partner. The preference for vertical delivery was observed in 19% of women, mostly among patients older than 28 years.

Conclusions: The Mexican indigenous population is involved in transition period, which is influenced by greater and better access to services of health and education. However, young pregnancy women suffer from violence and depression resulting in low self-esteem and low well-being. Still required to provide more information and monitoring to better psychological and social well-being perception.

Keywords
Depression, Life satisfaction, Violence, Sexuality and Childbirth form

Introduction
Pregnancy is a period of physiologic and physics changes in addition of cultural, social, religious and emotional influences. The above be able to affect the sexuality during pregnancy, usually decreasing sexual desire and the relationships during the pregnancy period [1], although, violence against women and the use of their sexual and reproductive rights has been improved in Mexico, according to the strategies of cooperation with the Pan-American Health Organization (PAHO) and the World Health Organization (WHO).

In according to WHO, the violence is the intention-al use of physical force or power, threatened or actual, against oneself, or against a group or community that either results in or has a high likelihood of resulting in injury, death, physiological harm, maldevelopment or
deprivation [2]. In 2013 WHO estimated that as many as 38% of female homicide globally were committed by male partners while the corresponding figure for men was 6% [3]. Cause of violence against women can be culturally motivated, whether in incident involves child maltreatment, youth violence, intimate partner violence or sexual violence against women or elder abuse, and the availability of weapons are used in personal violence [2].

On the other hand, the range prevalence of violence during pregnancy period is 11-18%, this violence can be physical, sexual, emotional or psychological [4,5]. National violence against women survey (ENVIM by Spanish acronym) in Mexico, distribute the prevalence of violence by geographical zones: Urban (21.3%) and Rural (23.3%) and indigenous (16%) [6]. The Mexican population has been distinguished for his long history of ethnic diversity. In agree with National Population Council (CONAPO by Spanish acronym) in 2015 habitating at the country 26 million of indigenous people [7]. The violence should be studied by specific conditions and populations. This permit to compare between diverse conditions and groups of women to respect a general population to know if there exist groups with major risk of suffer violence. The CONAPO report that 5% of all health service users, speak some indigenous language and them 31% declared violence by actual partner, 44% reported to have suffered violence ever in her stable partner and 60% reported had to suffer violence sometime in her life. This fact permit to conclude that women with indigenous speak are a susceptible population from violence by their couples [7]. In Mexico exist different organizations focused to vigilance the violence of pregnant women, specifically in rural and indigenous zones, because the prenatal period supposes a vulnerable time lapse characterized by major susceptibility to depress, which is a pathology more disabling in a critical period of all women the witch needed self-care and care for her baby. The prevalence of depression in pregnancy and puerperal period is around 10-20%, in agree to various authors [8-10], however, little studies have been published related with indigenous women [11] and, few studies or none has been published for pregnant indigenous Mexican women. In regard to satisfaction surveys about life quality, although appear to be subjective methods, these can offer wellness, self-perception data and suggest a comparison point with other populations [12]. The main goal of this study was to know psychosocial well-being indicators of pregnant women of the ethnic Mexican Teenek during perinatal attention in a community hospital.

**Material and Methods**

**Materials (Population study)**

Fifty Teenek indigenous pregnant women from a basic community hospital of Aquismon, municipality of San Luis Potosi, Mexico were recruited to perform this study. Only 31 finished prenatal cares or remained at the place until resolution of pregnancy and puerperal period. The criteria for recruitment were Teenek pregnant women without psychiatric disorders and, without causes of associated morbidity as anemia, hypertension disorders of pregnancy, gestational diabetes and other chronic pathologies.

**Methods**

This Transversal and descriptive study was evaluate and accepted by scientific and ethics committee of the Central Hospital “Ignacio Morones Prieto” of San Luis Potosi, Mexico. All participants were informed about objective and later gave written informed consent to participate and, to all women to need the assistance of an interpreter to explain the purpose of the study it was provided to them.

A variety of questionnaires, oral and written, had been applied. Because a patient screened significantly affects response rates with a 12-month prevalence of intimate Partner Violence Screen (PVS). Previously, personal and demographic data were required. Later, was applied to detect intimate partner violence, we applied Conflict Tactics Scale (CTS) [13], which is considered the gold standard for measures both the extent to which partners in a dating, cohabiting or marital relationship engage in psychological attacks on each other and also their use of reasoning or negotiation to deal conflicts. Later, to evaluate prenatal or postpartum depression was performed through Edinburgh Postnatal Depression Scale (EPDS) [14]. The EPDS includes 10 short statements, in which the mother underlines which of the four possible responses are closest to how she has been feeling during the past week; another survey was a prenatal psychological evaluation performed through Die ner Satisfaction with Life Scale (SWLS) [15]. The SWLS is a short 5-item instrument designed to measure global cognitive judgments of satisfaction with one’s life. All of these questions are closed-ended with yes-no or short responses. In addition, there is a verbal, less structured patient-centered approach that involves picking up on verbal and nonverbal cues, such as a patient comment about violence, a chronic pain complaint, or other issue with questions can be framed using the patient’s own description, as an example: You have described a lot of violence. How is that handled at home? Finally, we annexed a page that contain images about diverse forms of delivery, including 3 vertical positions, (sitting, squatting and standing) Sims position, Gaskin position, lithotomy, as well as, caesarean with a descriptive note under the image and the pregnant women selecting the preferred option for her resolution partum in agree with model of attention to women during pregnancy, birth and puerpery; recommended by the Health Ministry in Mexico [16]. On the other hand, other anonymous and self-survey the clinic and anthropometric data with the same questions about scales for depression, violence and well-being was done to compare answers with
opening survey. Further, self-survey includes questions about sexual habits during pregnancy, modifications about sexual desire, frequency and type of sexual contact during pregnancy and sexual practice more pleasant at the end the survey it was deposited in a close urn to guarantee confidentiality. All surveys were done the author and a bilingual community nurse with the same ethnic race.

Statistical analysis was performed using the software Minitab® V15 (Minitab Inc. Quality Plaza, 1829 Pine Hall Road, State College, Pennsylvania) continuous and no continuous variables as depression, violence and life satisfaction, and sexual habits was performed descriptive analysis to report media, median, frequency, standard deviation and/or interquartile ranges. The categorical variables were expressed by percentage. Analysis to determine the difference between two groups for small samples with no parametric distribution was performed by Mann-Whitney U test. For all analysis a p-value less than 0.05 was considered to be statistically significant.

Results

During two years follow-up we studied psychosocial well-being indicators of thirty-one women pregnant of the ethnic Mexican Teenek. Originally 50 women were enrolled, however, nineteen did not complete follow-up due to migration or because there solution of their pregnancy occurred in another health unit and it was not possible to conduct psychosocial satisfaction surveys. Table 1 shown demographic characteristic for participants. The principal demographic findings were a media age 24.6 ± 6.2 Standard Deviation (SD) years, median gestational age 25.1 (20.2-32.3 interquartile range)

Table 1: Demographic characteristics of Mexican Teenek pregnant women.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maternal age (years)</td>
<td>24.6</td>
<td>6.24*</td>
</tr>
<tr>
<td>Gestational age (weeks)</td>
<td>25.1</td>
<td>20.2-32.3</td>
</tr>
<tr>
<td>Number of pregnancies</td>
<td>2</td>
<td>1.0-3.0</td>
</tr>
<tr>
<td>Beginning sexual life (years)</td>
<td>17.2</td>
<td>2.49*</td>
</tr>
<tr>
<td>Sexual partners</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single women (%)</td>
<td>22</td>
<td>-</td>
</tr>
<tr>
<td>Married women (%)</td>
<td>16</td>
<td>-</td>
</tr>
<tr>
<td>Free union (%)</td>
<td>61</td>
<td>-</td>
</tr>
<tr>
<td>Educational level (years)</td>
<td>7.2</td>
<td>3.8*</td>
</tr>
<tr>
<td>Religious practice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catholic (%)</td>
<td>96</td>
<td>-</td>
</tr>
<tr>
<td>Evangelic (%)</td>
<td>4</td>
<td>-</td>
</tr>
</tbody>
</table>

*Standard deviation; %Interquartile range (Q1-Q3).

In relation to depression, we found seven women with depression to corresponded 22.5%, this result was found in both open and closed surveys. Respect to well-being indicators (Table 2) we found that the score to a diagnosis of depression was 7.35 ± 4.1 SD for anonym survey and 7.12 ± 4.14 SD for open survey without a statistical difference (p = 0.541). We only found a woman with a score different to “cero” for question 10, related to self-injury thinking, this result required to do immediate additional evaluations by psychiatry department, and she was transferred to a second level to receive attention. Conflict tactics scale survey detects physical and/or emotional violence during the last year or during pregnancy. The violence was detected in 5 (16%) women for both open and closed surveys. After women were identified, they were conducted to the social work department to offer orientation to guide to accept all possible support. It is important to emphasize that all universe study, 6 (19.3%) were adolescents (< 18 years) 2 (33%) suffered violence and 3 (50%) presented depression. Respect to Diener SWLS the median score was 18.3 ± 3.78 SD in non-anonymous survey and, 18.5 ± 3.36 SD in a closed survey without statistical difference between surveys (p = 0.875). With respect to partum preferences, a 21 (67.7%) preferred lithotomy position and traditional form (vertical position) in this ethnic group had a 7 (22.5%) of preference of these, 2 (6.2%) women preferred a sitting position and 1 preferred squatting in position and, 2 (6.2%) preferred caesarean. Important to say that 5 women with a > 28 years were previously attended by traditional midwife in other pregnancies. Surprisingly, when we asked if they preferring support of a relative 29 (93%) answered yes and, 24 (77.4%) of they selected to partner and rest, to their mother. Related to sexual practices with more satisfaction they reported first the kisses 27 (83.8%), second vaginal sex 10 (32.2%) and, sexual fantasies 10 (32.2%), other practises are reported in Table 3. The frequency with respect to sexual contact 18 (58%) suspended all sexual contact but, 9 (30%) of their woes have sexual contact. Most of them suspend sexual activity between first and second trimester referring fear to damage to baby in 20 (61%), discomfort during pregnancy in 10 (31%), with a less

<table>
<thead>
<tr>
<th>Parameter of well-being</th>
<th>n</th>
<th>Cases (%)</th>
<th>Adolescent (%)</th>
<th>Anonymous survey</th>
<th>Open survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depression</td>
<td>31</td>
<td>7 (22.5)</td>
<td>3 (50)</td>
<td>7.35 ± 4.74</td>
<td>7.12 ± 4.41</td>
</tr>
<tr>
<td>Violence</td>
<td>31</td>
<td>4 (12.9)</td>
<td>2 (33.3)</td>
<td>7.35 ± 4.73</td>
<td>7.12 ± 4.14</td>
</tr>
<tr>
<td>Well-being of life</td>
<td>31</td>
<td>-</td>
<td>-</td>
<td>18.3 ± 3.78</td>
<td>18.5 ± 3.36</td>
</tr>
</tbody>
</table>

1Edinburgh scale; 2Conflict tactics scale; 3Diener scale.

Table 2: Well-being indicators of Mexican Teenek pregnant women.
the non-fatal consequences of violence are by far the greatest part of the social and health burden arising from violence. Physical injuries themselves are outweighed by the wide spectrum of negative behavioral, cognitive, mental health, sexual and reproductive health problems, chronic diseases and social effects that arise from exposure to violence. All types of violence have been strongly linked to negative health consequences across the lifespan, but violence against women and children contributes disproportionately to the health burden. The available evidence shows that victims of child maltreatment and women who have experienced intimate partner and sexual violence have more health problems, incur significantly higher health care costs, make more visits to health providers over their lifetimes and have more hospital stays than those who have not experienced violence [2]. On the other side, indigenous women are a growing segment of the population of women giving birth. Overall, they experience more risk factors for mental health problems than non-indigenous women and a larger proportion of their experience mental health problems during pregnancy and postpartum. However, the dearth of detailed information about the mental health problems of Indigenous demands rigorous, longitudinal studies that primarily explore depression, anxiety or mood problems and positive mental health. A previous study has reported an unfavourable structural condition in which Mexican indigenous life constitutes the persistence mechanisms of their health vulnerability and recommend an intensive an a focalized health strategy contribute to improve their health condition and life [17]. Now, we demonstrate that an effective and efficient health services and opportune access to antenatal care in indigenous communities to be decrease no planned pregnancies as well as reduce a high score of adolescent pregnancy. Another factor involved in improving the quality of life in pregnant women has been implementation of programs as “opportunities” [18] focused to better cognitive and non-cognitive abilities as well as promote the access to education since many years ago, although at the level of education of our study group it is basic, if there are differences from completely isolated groups where access to education does not exist or is minimal. On the other hand, free union as marital status appear as the traditional form the partnership between this and other ethnic groups in Mexico [19]. The preference for mating between same members’ ethnic group is influenced by parents and we consider an important factor to underlying a positive attitude toward controlling the mate choice of one’s offspring under their traditional customs and similar social characteristics were observed in other Mexican ethnic groups by Abraham P Buunk, et al. [19]. Frequency of possible depression found in women pregnant of the ethnic Mexican Teenek with 10 or greater score in EPDS scale was 7 (22.5%), so much higher than reported by Gavin N, et al. [20] in meta-analysis study (12.9%) in women at different trimesters of pregnancy and months in the first postpartum year, but slightly higher than frequency founded by Galvez, et al. (20.6%) for urban and rural population in our locality, remarking a high prevalence in adolescent women (data not published). Victims of violence are also at higher risk of depression, anxiety, post-traumatic stress disorder and suicidal behaviour [21]. Both exposures to violence and men’s perpetration of violence against women have been shown to be associated with high-risk sexual behaviours [2].

High frequency of depression has so much relevance because have a high impact difficulty habitual activity of pregnant women as bad dietetic habits, alter cycle sleep, poor adherence in antenatal care, high risk to herself-injury, including suicide [22-24].

Table 4: Primary changes in sexual habits.

<table>
<thead>
<tr>
<th>Sexual habits</th>
<th>Yes (%)</th>
<th>No (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sexual desire modification</td>
<td>18 (58.1)</td>
<td>13 (41.9)</td>
</tr>
<tr>
<td>Increased desire</td>
<td>16 (51.6%)</td>
<td>-</td>
</tr>
<tr>
<td>Decreased desire</td>
<td>2 (6.4%)</td>
<td>-</td>
</tr>
<tr>
<td>Equal (remains the same)</td>
<td>13 (42%)</td>
<td>-</td>
</tr>
<tr>
<td>Satisfactory sexual contact</td>
<td>21 (67.7%)</td>
<td>10 (33.3%)</td>
</tr>
<tr>
<td>Orgasms</td>
<td>18 (58%)</td>
<td>-</td>
</tr>
<tr>
<td>Desire for sexual contact</td>
<td>18 (58.1%)</td>
<td>13 (41.9%)</td>
</tr>
<tr>
<td>Interrupted</td>
<td>9 (29%)</td>
<td>9 (29%)</td>
</tr>
<tr>
<td>Not interrupted</td>
<td>9 (29%)</td>
<td>4 (12.9%)</td>
</tr>
</tbody>
</table>

Discussion

The non-fatal consequences of violence are by far the greatest part of the social and health burden arising from violence.
pregnancy has been associated with adverse pregnancy outcomes, such as low birth weight, premature labour, preterm delivery, miscarriage, and foetal injury [25]. In developed countries as Sweden the prevalence of domestic violence during pregnancy, irrespective of type or severity was reported by 2.5% [26]. In North America, most estimates of prevalence of such violence fall between 4% and 8% [27]. In developing countries, these rates are estimated to be as high as 32% [28]. In our study, we found the violence frequency with a score between 2-5 (suffer violence 2-5 times in the past year) of 5 (16.1%) and did not find studies that refer to violence in indigenous pregnant women to compare. The value (18.3 ± 3.78 SD) of the life scale satisfaction is related to people who usually have small but significant problems in several areas of their lives, or have many areas that are doing fine but one area that represents a substantial problem for them [15]. In context with sexual habits the main finding was that women and their partners used to avoid sexual contact in the first trimester because is afraid to affecting the baby, then some women remarked that they will avoid soon for preventing damage the baby. So fact, many simultaneous physiological and psychological factors affect the sexual expression of the couples. Sexual fluctuations are a natural phenomenon during the transition to parenthood; couples must adjust to the new conditions and to the changes associated with sexuality during pregnancy, which are considered seasonal [29] and, Afrakoti NB, et al. [30] classified these factors as biological, psychological and social factors. Meanwhile, Rivas RE, et al. [31] found that the frequency of sexual activity declined progressively during pregnancy compared with pre-pregnancy levels, with a partial recovery six months after childbirth. May be these changes promote other forms of sexual expression and, in this context, the Teenek women mentioned caresses, kisses and, fantasies as complement on relation with her partners with a view to sexual well-being in general. On this fact, de Pierrepont, et al. [32] said that promoting the health and well-being of the couple, the child, the family and society, the perinatal gender intervention should be part of the health surveillance of women to help maintain a positive relationship in terms of intimacy and sexuality in the couple. Traditionally, indigenous women gave birth in their communities. Cultural practices established strong community roots for the mother, her infant, and the family and, the children born in the community developed a clear sense of identity that helped them to become resilient and responsible members of that community [33]. In our study, the preference on relation with form childbirth highlight a clear influence between midwife attention some years ago and attention in community hospitals to date and, with preference of lithotomy position on traditional childbirth (vertical), only three women over of 28 year of age request traditional childbirth. May be because Nurses with the same ideology and costumes can also promote indigenous women to pursue careers in health care [34].

Conclusions

Indigenous population in Mexico is coursing by transition period, influencing by most and better access to health care services and education programs. However, it is necessary to get more information to establish protocols to permit, detect and support to all pregnant women victims of violence and, depression especially those with psychiatric comorbidities and putting more attention on adolescent pregnant women. Still required to provide more information and monitoring to better psychological and social well-being perception. In addition, we consider it important that medical care personal goes back to humanity’s labor, focusing on psychoactive areas to detect those psychiatric red flags framed by the lack of confidence towards health care professionals. Due to the diverse forms of childbirths, it is determinant that health care personal, takes appropriate training to promote and respect the right of indigenous pregnant women to choose.

Acknowledgements

We acknowledge and thank To Mario Adolfo Huerta-Aguilar, Medical Director in basic community hospital of Aquismon, SLP, Mex for giving us facilities to realize this project and, Estela Hernández-Martinez; Nurse of the basic community hospital, for your personal assistance in survey’s and interprets Teenek language.

This work was supported by Health Ministry of San Luis Potosi, Mex. and Health Ministry of Durango. Mex.

Ethical Statement

This study was evaluate and accepted by scientific and ethics committee of the Central Hospital “Ignacio Morones Prieto” of San Luis Potosi, Mexico.

Conflict of Interest Statement

The authors report no declarations of interest.

References


