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## AWARENESS & PERCEPTION ABOUT PREMENSTRUAL SYNDROME & PREMENSTRUAL DYSTROPHIC DISORDER AMONG URBAN AND RURAL POPULATION OF EITHER GENDER

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#### ABSTRACT

In this cross- sectional study total number of participants are 253. This study was conducted among Urban and Rural residents in the state of Maharashtra, India. Among the participants male= 36.36% & female= 63.64%. Age of 18-25 years = 83.23%, 26-35 years = 6.83%, 36-45 years = 8.07%, 46-50 years = 1.86%. Rural population = 12.4% & Urban population = 87.6%. Around 78.9% were about Premenstrual Syndrome & Premenstrual Dystrophic disorders. The age of menarche of <12 years population = 4.96% 12-15 years = 75.17%. To manage the symptoms 77.6% reported rest & relaxation. Among the male participants their perception about mood swing = 60.9%.

KEYWORDS: Premenstrual Syndrome, Premenstrual dystrophic disorder, Urban & Rural population.

### INTRODUCTION

Premenstrual symptoms (PMS) is a set of distressing bodily & psychological signs & symptoms.<sup>[1]</sup> It begins a few days earlier than menstruation and ends a few days after. For centuries and still the social history of PMS and phenomena is entangled with the social history of gender relations.<sup>[2]</sup> Premenstrual dysphoric disorder (PMDD) is a complex & disabling condition affecting women of reproductive age.<sup>[3]</sup> PMDD is a very distressing disorder. It is generally neglected & undifferentiated from PMS.<sup>[4]</sup> Currently there is no consensus on the cause of PMDD. Biological, genetic, environmental, psychological & social factors all seem to play a very important role.

### MATERIALS AND METHODS

This cross- sectional study was conducted in Maharashtra, India. It was conducted by administering a pre-tested & pre- validated questionnaire via Google forms to the participants aged 18 years & above of either gender who are staying in Maharashtra, India. Informed consent was taken on the Google forms prior to it. The data were adapted to Microsoft Excel spreadsheet (Microsoft Corporation, Redmond, WA, USA) for statistical calculations.

## **RESULTS AND DISCUSSION**

Our study had 253 number of participants out of which 36.36% were males and 63.64% were females (Fig. 1).

Their ages ranged from 18 years to 50 years. Their level of education was from matriculation up to post graduation. Urban residents comprised 87.6% of the total participants and rural residents were 12.4%. Unmarried participants were 84.5% & married 15.5% (Table 1).



Fig. 1: Gender distribution of participants.

| Gender         (out of ity)           Gender         36.36%           Female         63.63%           Age         16-25 years           16-25 years         28.57%           26-35 years         4.96%           36-45 years         6.83%           46-50 years         3.1%           Level of- Education         Matriculation           Matriculation         2.37%           Undergraduate         70.75%           Graduate         15.03%           Postgraduate         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Place of Residence         Rural           Rural         12.4%           Urban         87.6%           Religion         -           Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Married         15.5%           Divorced         <        | Socio-demographic details                     | Percentage                 |  |
|--|---|----------------------------|--|
| Male         36.36%           Female         63.63%           Age  | (N-233)<br>Cender                             |                            |  |
| Mate         30.30%           Female         63.63%           Age  | Male  | 36 36%                     |  |
| Age         03.03%           Age         16-25 years         28.57%           16-25 years         4.96%         36-45 years         6.83%           46-50 years         3.1%         1           Level of - Education         1         1           Matriculation         2.37%         1           Undergraduate         70.75%         1           Graduate         15.03%         1           Postgraduate         11.85%         0           Occupation         0         8%           College         81.98%         0           Homemaker         8.07%         8           Service         6.71%         0           Business         1.22%         0           Place of Residence         1         1           Rural         12.4%         1           Urban         87.6%         1           Muslim         5.7%         1           Christian         1.91%         3           Jain         3.1%         0.63%           Jaini         3.1%         0           Muslim         5.7%         1           Viban         84.5%         3 | Female  | 63.63%                     |  |
| Age         28.57%           16-25 years         4.96%           36-45 years         6.83%           46-50 years         3.1%           Level of - Education            Matriculation         2.37%           Undergraduate         70.75%           Graduate         15.03%           Postgraduate         11.85%           Occupation            School         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Place of Residence            Rural         12.4%           Urban         87.6%           Religion            Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Married         15.5%           Divorced         0%           Married         15.5%           Divorced         0%   |   | 03.0370                    |  |
| 10-20 years         26.37 //a           26-35 years         4.96%           36-45 years         6.83%           46-50 years         3.1%           Level of - Education            Matriculation         2.37%           Undergraduate         70.75%           Graduate         15.03%           Postgraduate         11.85%           Occupation            School         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Place of Residence            Rural         12.4%           Urban         87.6%           Religion            Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Married         15.5%           Divorced         0%           If married, children            Yes         78.9%  | 16.25 years                                   | 28 57%                     |  |
| 20-30 years         4-90%           36-45 years         6.83%           46-50 years         3.1%           Level of - Education  | 26.35 voors                                   | 4.06%                      |  |
| 30-39 years         0.83 %           46-50 years         3.1%           Level of - Education            Matriculation         2.37%           Undergraduate         70.75%           Graduate         15.03%           Postgraduate         11.85%           Occupation            School         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Place of Residence            Rural         12.4%           Urban         87.6%           Religion            Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Married         15.5%           Divorced         0%           Married         15.5%           Divorced         0%           Yes         82.9%           No         17.1%           Are y  | 26-55 years                                   | 4.90%                      |  |
| 40-50 years         5.1%           Level of- Education   | 46 50 years                                   | 3.1%                       |  |
| Deter of - Education         2.37%           Matriculation         2.37%           Undergraduate         70.75%           Graduate         15.03%           Postgraduate         11.85%           Occupation         5           School         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Other         1.22%           Place of Residence         1.22%           Rural         12.4%           Urban         87.6%           Religion         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Martial Status         100%           Unmarried         84.5%           Married         15.5%           Divorced         0%           Married         17.1%           Are you aware of PMS or PMDD?         Yes           Yes         78.9%           No         21.1%           Age of menarche (N=161)            <12 years                         | 40-50 years                                   | J.170                      |  |
| Material off         2.37%           Undergraduate         70.75%           Graduate         15.03%           Postgraduate         11.85%           Occupation   | Matriculation                                 | 2 37%                      |  |
| Oncomparison         10.13%           Graduate         15.03%           Postgraduate         11.85%           Occupation         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Other         1.22%           Place of Residence         12.4%           Urban         87.6%           Religion         11.83%           Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Marital Status         100%           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         17.1%           Yes         82.9%           No         17.1%           Are you aware of PMS or PMDD?         17.1%           Yes         75.15%           >15 years         75.15%           >15 years         75.15%            | Undergraduate                                 | 2.37%                      |  |
| Original of the second system         11.85%           Occupation         11.85%           School         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Other         1.22%           Place of Residence         12.4%           Rural         12.4%           Urban         87.6%           Religion         1           Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Marital Status         1           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         1           Yes         78.9%           No         21.1%           Age of menarche (N=161)         1           <12 years  | Graduate                                      | 15 03%                     |  |
| Postgraduate       11.83%         Occupation       0         School       0.8%         College       81.98%         Homemaker       8.07%         Service       6.71%         Business       1.22%         Other       1.22%         Place of Residence       1.22%         Rural       12.4%         Urban       87.6%         Religion       1         Hindu       83.4%         Muslim       5.7%         Christian       1.91%         Sikh       0.63%         Jain       3.1%         Buddhist       4.4%         Other       0%         Marital Status       0         Unmarried       84.5%         Married       15.5%         Divorced       0%         If married, children       1         Yes       882.9%         No       17.1%         Are you aware of PMS or       1         PMDD?       1         Yes       78.9%         No       21.1%         Age of menarche (N=161)       1         <12 years  | Diaduate                                      | 13.03%                     |  |
| School         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Other         1.22%           Place of Residence   | Occupation                                    | 11.0370                    |  |
| School         0.8%           College         81.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Other         1.22%           Place of Residence   | School  | 0.80/                      |  |
| Concge         61.98%           Homemaker         8.07%           Service         6.71%           Business         1.22%           Other         1.22%           Place of Residence  | Collago                                       | 0.0%<br>81.080/            |  |
| Homemater         6.07%           Service         6.71%           Business         1.22%           Other         1.22%           Place of Residence  | Uomomakor                                     | 01.70%<br>8 07%            |  |
| Service         0.71%           Business         1.22%           Other         1.22%           Place of Residence  | Sorvico                                       | 0.07%<br>671%              |  |
| Business         1.22%           Other         1.22%           Place of Residence         1.22%           Rural         12.4%           Urban         87.6%           Religion         1.101%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Marital Status         11.5%           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         17.1%           Yes         78.9%           No         17.1%           Are you aware of PMS or         11.1%           PMDD?         11.1%           Yes         78.9%           No         21.1%           Age of menarche (N=161)         12.1%           <12 years  | Business                                      | 0.71%                      |  |
| Other         1.22%           Place of Residence         12.4%           Rural         12.4%           Urban         87.6%           Religion         1           Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Marital Status         1           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         1           Yes         82.9%           No         17.1%           Are you aware of PMS or         1           PMDD?         1           Yes         78.9%           No         21.1%           Age of menarche (N=161)         1           <12 years  | Other   | 1.22%                      |  |
| Place of Residence           Rural         12.4%           Urban         87.6%           Religion         1000000000000000000000000000000000000  |   | 1.22%                      |  |
| Rural         12.4%           Urban         87.6%           Religion   | Place of Residence                            | 12 40/                     |  |
| Orban         87.6%           Religion   | Rural   | 12.4%                      |  |
| Kengion           Hindu         83.4%           Muslim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Marital Status         Unmarried           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         17.1%           Yes         82.9%           No         17.1%           Are you aware of PMS or PMDP?         17.1%           Yes         78.9%           No         21.1%           Age of menarche (N=161)            <12 years   | Urban Daliai an                               | 87.0%                      |  |
| Hindu       83.4%         Muslim       5.7%         Christian       1.91%         Sikh       0.63%         Jain       3.1%         Buddhist       4.4%         Other       0%         Marital Status       1         Unmarried       84.5%         Married       15.5%         Divorced       0%         If married, children       1         Yes       82.9%         No       17.1%         Are you aware of PMS or PMDD?       1         Yes       78.9%         No       21.1%         Age of menarche (N=161)       1         <12 years  | Religion                                      | 92 40/                     |  |
| Mushim         5.7%           Christian         1.91%           Sikh         0.63%           Jain         3.1%           Buddhist         4.4%           Other         0%           Marital Status         0%           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         0%           Yes         82.9%           No         17.1%           Are you aware of PMS or PMD0?         78.9%           Yes         78.9%           No         21.1%           Age of menarche (N=161)            <12 years   | Hindu   | 83.4%                      |  |
| Christian       1.91%         Sikh       0.63%         Jain       3.1%         Buddhist       4.4%         Other       0%         Marital Status       0%         Unmarried       84.5%         Married       15.5%         Divorced       0%         If married, children       0%         Yes       82.9%         No       17.1%         Are you aware of PMS or PMD0?       78.9%         Yes       78.9%         No       21.1%         Age of menarche (N=161)          <12 years   | Muslim  | 5./%                       |  |
| Sikn         0.65%           Jain         3.1%           Buddhist         4.4%           Other         0%           Marital Status         0%           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         0%           Yes         82.9%           No         17.1%           Are you aware of PMS or PMDD?         0           Yes         78.9%           No         21.1%           Age of menarche (N=161)            <12 years   | Christian                                     | 1.91%                      |  |
| Jain       5.1%         Buddhist       4.4%         Other       0%         Marital Status  | Sikn  | 0.63%                      |  |
| Buddhist       4.4%         Other       0%         Marital Status       0%         Unmarried       84.5%         Married       15.5%         Divorced       0%         If married, children       0%         Yes       82.9%         No       17.1%         Are you aware of PMS or PMDD?       78.9%         Yes       78.9%         No       21.1%         Age of menarche (N=161)          <12 years  |   | 3.1%                       |  |
| Other         0%           Marital Status  | Buddhist                                      | 4.4%                       |  |
| Marital Status           Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         9           Yes         82.9%           No         17.1%           Are you aware of PMS or<br>PMDD?         78.9%           Yes         78.9%           No         21.1%           Age of menarche (N=161)            <12 years  | Other   | 0%                         |  |
| Unmarried         84.5%           Married         15.5%           Divorced         0%           If married, children         1           Yes         82.9%           No         17.1%           Are you aware of PMS or<br>PMDD?         1           Yes         78.9%           No         21.1%           Age of menarche (N=161)         12.1%           <12 years  | Marital Status                                | 04 50/                     |  |
| Married         15.5%           Divorced         0%           If married, children         0%           Yes         82.9%           No         17.1%           Are you aware of PMS or<br>PMDD?         78.9%           Yes         78.9%           No         21.1%           Age of menarche (N=161)            <12 years  | Unmarried                                     | 84.5%                      |  |
| Divorced         0%           If married, children   | Married                                       | 15.5%                      |  |
| If married, children           Yes         82.9%           No         17.1%           Are you aware of PMS or<br>PMDD?         17.1%           Yes         78.9%           No         21.1%           Age of menarche (N=161)            <12 years   | Divorced                                      | 0%                         |  |
| Yes       82.9%         No       17.1%         Are you aware of PMS or<br>PMDD?       17.1%         Yes       78.9%         No       21.1%         Age of menarche (N=161)       21.1%         <12 years   | If married, children                          | 00.004                     |  |
| No         17.1%           Are you aware of PMS or<br>PMDD?         17.1%           Yes         78.9%           No         21.1%           Age of menarche (N=161)         21.1%           <12 years   | Yes   | 82.9%                      |  |
| Are you aware of PMS or PMDD?         Yes       78.9%         No       21.1%         Age of menarche (N=161)   | No  | 17.1%                      |  |
| Yes       78.9%         No       21.1%         Age of menarche (N=161)   | Are you aware of PMS or PMDD?                 |                            |  |
| No         21.1%           Age of menarche (N=161)         4.96%           <12 years   | Yes   | 78.9%                      |  |
| Age of menarche (N=161)         <12 years  | No  | 21.1%                      |  |
| <12 years  | Age of menarche (N=161)                       |                            |  |
| 12-15 years     75.15%       >15 years     19.87%       Regular use of medications, if any (N=161)       No     94.4%       Yes     5.6%   | <12 years                                     | 4.96%                      |  |
| >15 years         19.87%           Regular use of medications,<br>if any (N=161)         Percentage<br>(out of 161)           No         94.4%           Yes         5.6%  | 12-15 years                                   | 75.15%                     |  |
| Regular use of medications,<br>if any (N=161)         Percentage<br>(out of 161)           No         94.4%           Yes         5.6%   | >15 years                                     | 19.87%                     |  |
| No         94.4%           Yes         5.6%  | Regular use of medications,<br>if any (N=161) | Percentage<br>(out of 161) |  |
| Yes 5.6%   | No  | 94.4%                      |  |
|  | Yes   | 5.6%                       |  |

Table 1: Socio-demographic details.

Their awareness level about PMS & PMDD is 79.9%. They reported different symptoms as per the

questionnaire (Table 2). Disturbed sleep reported mild 32.9%, moderate 8.75% and severe 1.83%. As per Ravi Gupta and others<sup>[5]</sup>, possible PMDD sufferers have problems with their night sleep. Jessica M and others<sup>[6]</sup> reported that both mood and sleep fluctuations most women experience across the monthly menstrual cycle. In the present study, anger/ frustration, anxiety and mood swings were reported by the participants. As per Havva YS and others<sup>[7]</sup>, anger is among the most common symptoms in the pre menstrual period. Dr. Hamid and others<sup>[8]</sup> reported the psychological issues linked to menstrual frequency. Ruby Boven et al<sup>[9]</sup> reported that women with complaints of PM shame were more irritable and in depressed moods. Tiernev K et al<sup>[10]</sup> also reported about mood swings. Kelechi M Nwome<sup>[11]</sup> reported that PMS is characterized by a combination of physical. emotional. psychological and mood disturbances. PMDD is a severe condition of PMS. Globally, PMS occurs in 30-40 % of women of reproductive age. In the present study, participants reported altered apetite from mild, moderate to severe. Yukie M et al<sup>[12]</sup> reported that premenstrual symptoms in younger generations may be associated with bad eating habits. In the present study, many symptoms interfere with daily routine (70.2%), academics (49.1%), household chores (31.1%), family time(20.5%), social life (30.4%) as reported by the participants (Fig. 2) (Table 3).

As per Geeta S et al<sup>[13]</sup>, the most common somatic symptom was body pain and most affective symptom was irritability. Students were absent in classes and avoided joining social functions. Nasim Naemi<sup>[14]</sup> reported most common mood symptom and somatic symptom to be fatigue and lethargy and abdominal pain respectively. The participants of the study reported altered sexual desire mild (21.11%), moderate (11.78%) and severe (3.1%). K Nowosielski<sup>[15]</sup> reported that the presence of PMS is a risk factor for sexual dissatisfaction.

#### Table 2: Symptoms experienced by Women.

| Symptoms                         | Mild   | Moderate | Severe    |
|----------------------------------|--------|----------|-----------|
| (N=161)                          | (%)    | (%)      | (%)       |
| Disturbed Sleep                  | 32.9%  | 8.75%    | 1.9%      |
| Unexplained Sadness/ excessive   | 210/   | 19.010/  | 11 190/   |
| crying                           | 51%    | 18.01%   | 11.18%    |
| Restlessness/ Irritability       | 42.85% | 24.84%   | 12.42%    |
| Anger/ Frustration               | 42.23% | 21.74%   | 16.77%    |
| Anxiety                          | 37.26% | 16.14%   | 11.8%     |
| Mood Swings                      | 35.4%  | 29.81%   | 17.39%    |
| Altered sexual desire            | 21.11% | 11.80%   | 3.1%)     |
| <b>Reduced Mental Efficiency</b> | 39.13% | 18.01%   | 11.8%     |
| Headache/ Nausea/ Dizziness      | 34.16% | 13.04%   | 6.25%     |
| Weight gain                      | 26.08% | 18.63%   | 6.83%     |
| Acne/Pimples                     | 23.60% | 30.43%   | 11.18%    |
| Abdominal Cramps/ Backache       | 26.08% | 35.40%   | 25.46%    |
| Laziness/ Fatiguability          | 31.05% | 29.19%   | 15.52%    |
| Breast Tenderness                | 24.22% | 14.9%    | 5.59%     |
| Palpitations/ Sweating           | 27.32% | 7.45%    | 0%        |
| Burning/Itching/Discharge        | 31.05% | 14 0%    | 1 3 1 0 4 |
| from Vagina                      | 51.05% | 14.9%    | 4.34%     |
| Altered Bowel Habit              | 26.08% | 11.80%   | 6.21%     |
| Altered Appetite                 | 32.91% | 14.90%   | 6.83%     |



Fig. 2: Symptoms affecting day-to-day activities.

### Table 3: Symptoms interfering with day-to-day activities.

| Do the symptoms interfere with    | % of N |
|-----------------------------------|--------|
| any of the following? (N=161)     |        |
| Daily routine                     | 70.2%  |
| Academics                         | 49.1%  |
| Household chores                  | 31.1%  |
| Family time                       | 20.5%  |
| Social life                       | 30.4%  |
| Do you consult a Medical          | % of N |
| professional for severe symptoms? |        |
| (N=86)                            |        |
| Yes                               | 41.93% |
| No                                | 58.07% |

The majority of participants (77%) reported that the behavioral actions that help to manage them are rest and relaxation, listing to music (46%), hot water fomentation (23.6%), walking exercise or yoga (16.1%). Maryam Z S and others<sup>[16]</sup> found in their study that music therapy

had a significant effect on reducing anxiety and depression. As per Veena Jasvja et al<sup>[17]</sup> and Javad K et al<sup>[18]</sup>, physical effects of stress are alleviated by relaxation of body which in turn relaxes the mind. As per R.Nithyanisha et al<sup>[19]</sup> and Su-Ying Tsai<sup>[20]</sup>, aerobic

exercise and relaxation training had considerable effects with patients suffering from PMS. Yoga reduces the risk of menstrual pain (Table 4). In the present study, perception of men about PMS was: mood swings (60.9%), anger (51%), anxiety (38%), irritability (45.7%), emotional (35.9%) and loss of interest in activities (42.4%) (Table 5).

#### Table 4: Measures taken to manage symptoms.

| Measures taken to manage symptoms            | 9/ of N  |  |
|--|----------|--|
| (N=161)                                      | 70 UI IN |  |
| Heavy sleep                                  | 26.1%    |  |
| Rest and relaxation                          | 77.6%    |  |
| Watching Television or other video platforms | 24.2%    |  |
| Scrolling through social media platforms     | 9.9%     |  |
| Listening music                              | 46%      |  |
| Spending time with friends and family        | 17.4%    |  |
| Binge eating favourite foods                 | 11.2     |  |
| Excessive caffeine intake                    | 1.9%     |  |
| Walking, exercise or yoga                    | 16.1%    |  |
| Displaying emotions by                       | Q 10/    |  |
| crying/aggression/shouting                   | 0.1%     |  |
| Staying alone or showing disinterest         | 13.7%    |  |
| Hot water fomentation                        | 23.6%    |  |
| Pain medications or NSAIDs                   | 9.9%     |  |



Fig. 3: Measures taken to prevent symptoms.

#### Table 5: Symptoms noted by men in women.

| Symptoms noted by men in<br>women during periods? (N=92) | Percentages<br>(%of N) |
|--|------------------------|
| Mood swings  | 60.9%                  |
| Anger or frustration                                     | 51.1%                  |
| Anxiety  | 38%                    |
| Restlessness or irritability                             | 45.7%                  |
| Silence or remaining quiet                               | 28.3%                  |
| Becoming overly emotional or sensitive                   | 35.9%                  |
| Loss of interest in activities                           | 42.4%                  |
| None   | 25%                    |

#### CONCLUSION

According to the studies, it can be concluded that PMS and PMDD mostly exist in todays modern countries according to the results of the present study and awareness of biological, psychological and social etiology of PMS and its disorders, it can be considered from a different point of view to reduce these negative experiences. Strategies should be drawn and implemented for timely recognition and management of PMS and PMDD in women of reproducing age.

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