Prevalence of Premature Ejaculation among Patients with Type 2 Diabetes in a Tertiary Health Institution: A Cross-Sectional Study

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Abstract

Background: Premature ejaculation (PE) is one of the sexual dysfunctions commonly present among patients with diabetes mellitus (DM), but rarely reported and not commonly investigated compared to erectile dysfunction. In this study, we aimed to investigate the prevalence of PE in a group of patients with type 2 DM and explore possible determinants of its occurrence and its association with erectile dysfunction. Methods: This was a cross-sectional study of subjects recruited from the Diabetes clinic and whose sexual function was assessed using the premature ejaculation diagnostic tool (PEDT) and erection hardness score (EHS), who were in heterosexuals relationship and resides together with their wives and had no major organ failure or acute infection within the last 1 month. Other socio-demographic history and diabetes-related questions were assessed. Results: A total of 69 subjects were recruited. The prevalence of PE was 27.5% in the study. There was a significant inverse relationship between the prevalence of premature ejaculation and frequency of sexual intercourse. Almost half 14/30 (46.7%) of those with erectile dysfunction (ED) showed a significantly higher incidence of PE with significantly lower values of EHS. Conclusions: The prevalence of PE was relatively high at 19/69 (27.5%) among our type 2 diabetic patients. Hence, health care giver should always endeavour to ask about it even when patients do not volunteer the information.
Keywords
Type 2 Diabetes, Erectile Dysfunction (ED), Premature Ejaculation (PE), Prevalence

1. Introduction
Erectile dysfunction (ED) and ejaculatory disorders such as premature ejaculation (PE) are considered the most common types of sexual dysfunction (SD) in men. PE is defined as persistent or recurrent ejaculation with minimal sexual stimulation before, upon, or shortly after penetration or before the person wishes, causing distress and embarrassment to one or both partners and potentially affecting sexual relationship and overall well being [1]. It is one of man’s most common, underreported and underestimated sexual problems. According to previous studies, the prevalence of PE ranged from 21% to 66% in the community [2] [3] [4], yet this medical condition remains a taboo subject in virtually every culture. Unlike ED which is more prevalent in older men, PE is considered one of the most common male SDs which occur with similar frequency in men, independent of age [1] [5] [6].

As at 2017, an estimated 422 million people had diabetes mellitus (DM) worldwide, accounting for about 9% of the adult population [7]. Diabetes is a chronic progressive disease usually complicated by both microvascular and macrovascular disorders. Its association with SD is well investigated, which occurrence may be due to vascular, neurological, hormonal, or psychogenic [8]. Most studies on SD in diabetic men have focused on ED hence, the prevalence and risk factors of other forms of SD including ejaculatory and orgasmic dysfunctions are not well known [9]. Although many studies have reported associations between DM and ED, however, only few studies have reported association between DM and PE, indicating that PE is more common in diabetics [10] [11]. Many pathologic mechanisms have been postulated for the occurrence of PE among diabetics, including autonomic neuropathy, psychological disorders like performance anxiety, depression and possibly lifestyle factors such as obesity [12].

Although many middle aged and older adult men with diabetes are sexually active, but the rate of sexual inactivity due to ED and PE among other sexual dysfunctions is higher than in non-diabetic men [13]. There are many health consequences of PE on the sexual and reproductive functions as well as psychological wellbeing. Hence, the American Diabetes Association (ADA) states that one of the comprehensive evaluations of the diabetes patients is the assessment of the potential presence of sexual dysfunctions including ED and PE [14]. Regrettably, this is hardly done during routine clinical practice in Nigeria due to the cultural or religion restraints on sexual discussions. This study therefore was aimed to determine the prevalence and risk factors associated with PE in men.
with type 2 DM in Southwestern part of Nigeria.

2. Methods

We conducted a cross-sectional study among patients with type 2 diabetes aged 24 years and above who attends Diabetic clinic at a tertiary hospital, South West Nigeria. The study was conducted between April and September 2018. Patients were recruited if they had attended the clinic for at least 3 months and met the recruitment criteria. The inclusion criteria were men who were in heterosexual relationship cohabiting with their wives and have no major organ failure or acute infection within the last 1 month. A convenient sample size of eighty (80) men who met the inclusion criteria were approached to be included as participants, but only sixty seven (67) who agreed and completed the questionnaire were analyzed. The participants were asked to complete a set of self-administered questionnaire (this was translated to Yoruba language for those who could not understand English) which consisted of questions on socio-demographic parameters, diabetes history and sexual history. Sexual history was assessed with Premature Ejaculation Diagnostic tool (PEDT), and Erection Hardness Score (EHS) questionnaires. The PEDT consists of five questions that address the following five domains: ejaculation control, frequency of PE, ejaculation with minimal sexual stimulation, distress and interpersonal difficulty. Each question has five responses and the scores of each question range from 0 to 4 with a minimum total score of 0 to a maximum score of 20. A low score suggest a low probability of having PE. The total scores are categorized into “no PE” (≤8), probable PE (9 - 10), and PE (≥11). The EHS is a robust, single-item, self-reported tool that scores erection hardness on a four-point scale and can be used in daily clinical practice [15]; it was developed by Goldstein et al. in the sildenafil clinical trial program [16]. Briefly, EHS1 indicates erection hardness at sexual stimulation as larger but not hard, EHS2 indicates hard but not hard enough for penetration, EHS3 indicates hard enough for penetration but not completely hard, and EHS4 indicates completely hard and fully rigid [17].

Data Analysis: Statistical analysis of collected data was performed using SPSS version 20. Data was presented as mean ± standard deviation (SD) or as numbers and percentages. A chi-square test was used to investigate association between possible predicting factors and occurrence of premature ejaculation. In all statistical tests, a value of P < 0.05 was considered significant.

Ethical approval for the study was obtained from the Ethics and Research Committee of the LAUTECH teaching hospital, Ogbomoso and each participant gave a verbal consent to be recruited as study participants.

3. Results

A total of 69 patients were recruited for the study. The mean age of the participants was 40.15 ± 9.58 years, and mean body mass index (BMI) was 26.92 ± 3.99 kg/m². Other socio-demographic data are as shown in Table 1. Premature ejaculation was found in 19 patients giving a prevalence of 27.54%.
Table 1. Sociodemographic characteristics of the study participants.

| Variable  | Mean ± SD               |
|-----------|-------------------------|
| Age (years) | 40.15 ± 9.58 years,    |
| Weight (Kg) | 68.22 ± 10.63          |
| Height (m)  | 1.59 ± 0.07            |
| BMI (kg/m²) | 26.92 ± 3.99           |
| WC (cm)     | 81.42 ± 17.49          |
| HC (cm)     | 91.01 ± 18.97          |

Keys: BMI-Body mass index; WC-Waist circumference; HC-Hip circumference.

The average frequency of sexual intercourse was 7.0 ± 5.49 (median-5.0, IQR-7.0) times/month. This frequency decreased with age (10.0 ± 4.32 in ≤25, 8.28 ± 5.79 in the 26 - 35 years, 6.35 ± 5.11 in the 36 - 45 years, 5.50 ± 5.11 in the 46 - 55 years, P = 0.004).

Table 2 shows the distribution of premature ejaculation among the patients. It was found in 1 (50%) of those less than 25 years old, 5 (20.8%) of those between 26 and 35 years old, 6 (23.1%) of those between 36 and 45 years old, 2 (18.2%) of those between 46 and 55 years old, and 1 (20.0%) of those between 56 and 65 years old. There was a somewhat significant relationship between the frequency of sexual intercourse and premature ejaculation, the condition was found in 21.1% of those who have intercourse < 3 times, 34.6% of those who have it 4 - 8 times, 30.0% of those who have it 9 - 12 times, and 20.0% of those who have it >12 times in a month.

The prevalence of erectile dysfunction was 60%, although majority had mild to moderate ED. Premature ejaculation, as assessed by PEDT was present in 24.7% of the participants.

Figure 1 shows the relationship between frequency of sexual intercourse and age; as the age increases the frequency of sexual intercourse reduces. In the vein, as the EHS score increases, the frequencies of sexual intercourse sessions had by patient increases, Figure 2.

On the association of premature ejaculation with socio-demographic parameters, the only factor that determines premature ejaculation is the frequency of sexual activity, i.e. premature ejaculation is significantly related to the frequency of sexual intercourse, (Table 2).

Table 3, represent the relationship between erectile dysfunction and premature ejaculation; of the 17 participants that had premature ejaculation, 14/17 (82.4%) also had erectile dysfunction.

4. Discussion

The premature ejaculation diagnostic tool (PEDT) which was developed in 2007 [18], has been validated in several populations [19] [20] [21]. The prevalence of premature ejaculation in our study was about 27.5%. This value was less than
### Table 2. The distribution of premature ejaculation among the study participants.

| Variable                  | Number | Frequency of PE (%) | p-value |
|---------------------------|--------|---------------------|---------|
| Age class                 |        |                     |         |
| ≤25                       | 2      | 1 (50.0)            |         |
| 26 - 35                   | 26     | 6 (23.1)            |         |
| 36 - 45                   | 25     | 9 (36.0)            | 0.703   |
| 46 - 55                   | 11     | 2 (18.2)            |         |
| 56 - 65                   | 5      | 1 (20.0)            |         |
| Educational status        |        |                     |         |
| Primary                   | 9      | 3 (33.3)            |         |
| Secondary                 | 14     | 1 (7.1)             | 0.330   |
| Tertiary                  | 44     | 14 (31.8)           |         |
| Postgraduate              | 2      | 1 (50.0)            |         |
| Occupational status       |        |                     |         |
| Artisan                   | 10     | 2 (20.0)            |         |
| Petty trader              | 5      | 1 (14.3)            |         |
| Civil servant             | 34     | 10 (29.4)           | 0.849   |
| Business                  | 3      | 1 (33.3)            |         |
| Private sector            | 15     | 5 (35.7)            |         |
| Retiree                   | 2      | 1 (50.0)            |         |
| Monthly income            |        |                     |         |
| ≤20,000                   | 30     | 10 (33.3)           |         |
| 20,001 - 50,000           | 11     | 5 (45.5)            |         |
| 50,001 - 100,000          | 14     | 7 (50.0)            | 0.114   |
| 100,001 - 150,000         | 6      | 2 (33.3)            |         |
| 150,001 - 200,000         | 5      | 1 (20.0)            |         |
| Smoking history           |        |                     |         |
| Yes                       | 14     | 4 (28.6)            | 0.582   |
| No                        | 55     | 15 (27.3)           |         |
| Alcohol history           |        |                     |         |
| Yes                       | 35     | 11 (31.4)           | 0.322   |
| No                        | 34     | 8 (23.5)            |         |
| Coffee history            |        |                     |         |
| Yes                       | 15     | 6 (40.0)            | 0.184   |
| No                        | 54     | 13 (24.1)           |         |
| Cola nut history          |        |                     |         |
| Yes                       | 11     | 3 (27.3)            | 0.648   |
| No                        | 58     | 16 (27.6)           |         |
| Frequency of SI (per month) |    |                  |         |
| <3 times                  | 20     | 4 (20.0)            |         |
| 4 - 8 times               | 27     | 9 (33.3)            | < 0.001 |
| 9 - 12 times              | 11     | 3 (27.3)            |         |
| >12 times                 | 11     | 2 (18.2)            |         |

Key: SI—sexual intercourse.

### Table 3. Association between premature ejaculation and erectile dysfunction.

| Premature Ejaculation | No | Yes |
|-----------------------|----|-----|
| Erectile dysfunction  |    |     |
| No                    | 20 | 3   |
| Yes                   | 30 | 14  |
32.4% reported by El-Sakke [12] but more than 16.5% recently reported by Majzoub et al. [22] in a sample of Egyptian patients with type 2 diabetes. In the general population, the prevalence of premature ejaculation varies greatly depending on location and associated medical co-morbidities. The huge variability in the reported prevalence may be due to the different methods with which PE is defined, which include questionnaires, self-reports, and several expert panel definitions [23] [24] [25]. It could also be due to differences in lifestyles among varied populations which may have a direct influence on sexual function and prevalence.

Our study shows a direct relationship between the prevalence of premature
ejaculation and the frequency of sexual intercourse, that is, less occurrence of premature ejaculation is associated with a decrease in the frequency of sexual intercourse among the participants. This finding is contrary to the thought that frequent sexual intercourse activity may be related to fewer incidence of premature ejaculation because of the thought that those who last longer in bed during vaginal penetration tend to feel good about themselves and may be “bolder” to initiate sexual intercourse with their partners, and conversely, that men with PE might be reluctant to initiate sex, trying to avoid embarrassment. Also, that frequent sexual activity may lead to increased awareness of sensations premonitory to ejaculation, increased ejaculatory threshold, decreased anxiety, and decreased penile sensitivity. Men with early ED may intentionally “rush” sexual intercourse to prevent premature loss of their erection and ejaculate with a brief latency. This may be compounded by the presence of high levels of performance anxiety related to their ED which serves to only worsen their prematurity. However, the finding of increased premature ejaculation with frequent sexual activity may be related to younger age group who are less experienced in sexual acts hence may be associated with performance anxiety leading to rush to ejaculation. It may also be related to pressure to satisfy their wives during sexual activity or the belief that repeated or frequent sexual activity will help overcome premature ejaculation. Men who have low frequencies of sexual activity tend to maximise the few times of sexual activity hence may be associated with performance anxiety leading to reduced premature ejaculation leading reduced premature ejaculation.

However, there are conflicting data regarding an association between the amount of sexual activity and PE, with some studies showing that PE is associated with less frequent sexual activity [26] [27] [28] and others finding no such relationship [29]. The mechanism underlying such a relationship has yet to be specified, but some have opined that premature ejaculation could be more common in younger men who are finding out about sexual activity and sexual relationships, and in men of all ages after a long period of abstinence [22].

There was no significant association found between age and PE, that is, the prevalence of PE was similar across the age groups, however the prevalence of ED as assessed with EHS increased with age leading to more sexual activity among the younger age groups compared to the elderly. This lack of association of PE with age was similar to that found in the PE Prevalence and Attitudes survey and the prevalence study of sexual dysfunction in the United States. Laumann et al. [2] reported that a history of difficulty with erections was an independent predictor of early ejaculation in a global study, hence, was conjectured that PE was related to ED.

Fasting blood sugar significantly predicted low EHS and consequently PE in our study, that is, diabetic men with PE has higher fasting blood glucose than the men without PE. This is similar with higher prevalence of PE noted in men with diabetes in similar study [22]. The associations between PE and diabetes have
been postulated to be due to neurologic, neurotransmitter or psychologic dysfunctions or a combination of factors [30]. It may also be due to diabetes microvascular complications such as neuropathy or diabetic autonomic dysfunctions both of which may contribute to PE since ejaculation largely depend on intact autonomic nervous system, and neurotransmitters [31].

This study has obvious limitation of a sample size but difficulty among our patients to volunteer information about their sexual history was responsible. Our patients were significantly younger in age, a factor that further strengthen our findings for possible generalizations as it minimizes the influence of age in the occurrence of sexual dysfunction which is possibly affected by increasing age. The strength of this study also lied in it being the first reported evaluation of premature ejaculation and erectile dysfunction using both PEDT and EHS in this environment. Study with larger number of participants incorporating psychological assessment is recommended in future. Furthermore, participants were also controlled for presence of other medical conditions or use of some medications that can also affect the prevalence of Ed and/or PE.

5. Conclusion

This study demonstrated a high occurrence of premature ejaculation among patients with diabetes. It also showed that occurrence of PE correlated with increased severity of ED. Diabetic patients reported higher incidence of PE with increased severity of ED. The average fasting blood glucose level was a predictive factor for occurrence of PE in this cohort. The possible aetiologic factors can explain this relationship, include diabetic complications including microvascular and autonomic dysfunctions but further clinical research and assessment are needed to help unveil this observation.

Conflicts of Interest

The authors declare no conflicts of interest regarding the publication of this paper.

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