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Premature ejaculation: Pharmacotherapy vs group psychotherapy alone or in combination

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Summary

Objectives: Premature Ejaculation (PE), the commonest sexual dysfunction in males, is generally treated with local anesthetic and SSRI (Dapoxetine). The aim of our study was investigate Group Psychotherapy as an alternative treatment for PE and compare the efficacy of pharmacological treatment and psychotherapy, either alone or in combination, in terms of response and improved Quality of Life (Qol.). From a male outpatient population screened for PE, those who received a diagnosis of PE were proposed for the study, enrolled and divided into 3 groups (A, B and C). Each group was treated with Dapoxetine, Group Psychotherapy alone and Dapoxetine and Group Psychotherapy, respectively.

Materials and methods: Out of 1237 male outpatients, 353 received a diagnosis of Premature Ejaculation. Of them, 279 were enrolled in the study and randomized into 3 groups (A, B and C). Only 157 patients were evaluable. Before and after treatments all participants completed two questionnaires to evaluate PE status and anxiety and referred their IELT.

Results: GROUP A: The mean post-treatment Premature Ejaculation Diagnostic Tool (PEDT) score decreased from 12.95 to 8.26, while the mean Intra-vaginal Ejaculation Latency Time (IELT) increased from 50.77 sec to 203 sec. (p < 0.05); GROUP B: Reduction in the mean PEDT from 13.44 to 5.11 and an increased IELT from 48.33 to 431.11 sec (p < 0.001); GROUP C: The mean post-treatment PEDT score decreased from 12.29 to 5.37, while the mean IELT increased from 46.86 to 412.14 sec (p < 0.001). All groups recorded an improvement in anxiety.

Conclusions: According to our results Group Psychotherapy is an alternative method of treatment for PE. Group Psychotherapy plays a significant role in the treatment of PE, determining a better improvement of symptoms than Dapoxetine alone even if not statistically significant.

KEY WORDS: Premature ejaculation; Group psychotherapy; Psychotherapy; Dapoxetine; Sexual therapy.

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INTRODUCTION

According to an updated report from the International Society of Sexual Medicine (ISSM), Premature Ejaculation (PE) is defined as a male sexual dysfunction characterized by ejaculation that always or nearly always occurs prior to or within about 1 minute of vaginal penetration from the first sexual experience (lifelong type) or a clinically significant reduction in latency time often to about 3 minutes or less (acquired type), the inability to delay ejaculation on all or nearly all vaginal penetrations, and negative person-al consequences (1). It seems to be the most common sexual disorder in males (2) with an incidence of about 25-40% of the world’s male population. It’s etiology is multifactorial and include biological, psychological, social and situational factors. All psychological and behavioral approaches to the treatment of PE were based on the hypothesis of an emotional origin of the disorder, and on physical rehabilitation through special techniques such as squeeze-pause and start-stop (3), but pharmacotherapy with serotonin selective re-uptake inhibitors (SSRIs) has changed the management of this disorder and eclipsed the use of psychological treatments (4). Nowadays, the literature seems to identify both organic and psychological multifactorial events in the pathogenesis of PE that are involved to varying extents in each patient. A multifactorial pathogenesis calls for a multidisciplinary approach that strives to achieve a global evaluation of the patient. Several studies have concluded that combined therapy is more effective than pharmacological therapy alone for men with Erectile Dysfunction (ED) and PE (5, 6).

Although psychotherapy has been used and considered as a possible treatment of PE, the use of group psychotherapy that had a huge emphasis during the 1970s and 1980s (7, 8) within psychiatry and psychology nowadays has fallen into disuse in the clinical practice and has been considered not fit for sexual disorder by some authors (9). As far as we know there are no studies comparing group psychotherapy with pharmacotherapy. Our prospective and randomized study has the intent to evaluate the feasibility of Group Psychotherapy in treatment of PE and evaluate the efficacy of two different treatments (pharmacological and psychological), either alone or in combination and as far as we know it’s the first study comparing the pharmacotherapy to a group-psychotherapy.

MATERIALS AND METHODS

Between January and December 2012, a sample of male outpatients aged 20 to 68 years was screened for PE. The PE patients were enrolled in the study.

Inclusion criteria were: Lifelong PE measured with Intravaginal Ejaculatory Latency Time (IELT) ≤ 2 minutes and Premature Ejaculation Diagnostic Tool (PEDT) > 9 (see below).

Exclusion criteria were: presence of psychiatric disor-
All Groups Psychotherapy were conducted by an expert postdoctoral-level psychotherapists trained in Group-Analytical approach: Group Psychotherapy was preceded by 2 individual interviews aimed at discussing and informing upon general aspects of Group Psychotherapy and its rules.

Group Psychotherapy was delivered in 16 weekly sessions of 2 hours each. Time was spent at the end of each session to help participants to integrate cognitively the experience with theory. Each group, open and short-term, was composed of about 10 male patients, and after randomization resulted homogeneous for IELT (≤ 2), PEDT (≥ 9) and STAI-Y (≥ 40).

In our study we used the Homogeneous Group Psychotherapy, time-limited, that is characterized by the presence of patients who shared the same symptom, diagnosis or typology of problems (i.e. PE). The earliest experience of this Group Psychotherapy is due to Pratt (16, 17), Professor of Medicine at Boston Hospital, who developed a class-based method for treating patients with psychosomatic conditions and emotional dimensions of chronic and recurrent illness, and traced some dynamics which could be activated in this type of group. The presence of patients with similar issues offers participants the opportunity to interact with others in a safe, supportive environment: this fact facilitates the expression of those feelings which are often difficult to express outside of group, and to try out new behaviors and engage with others not only in receiving valuable feedback from other group members, but also in giving it. In fact homogeneity is at the basis of the mirroring process that enables the emergence of commuting, resonance and effective narration functions that, at the same time, generate a special sense of belonging (18).

The goals of Group Psychotherapy was to elaborate the meaning of sexual dysfunction, to permit patients to acquire internal and relational competence useful to achieve a most satisfying quality of life, to increase the ability to analyze and manage new events, start thinking to possible changes and ameliorations after a treatment cycle, reduction of anxiety, increase of compliance to medical treatment.

In this study we used Dapoxetine 30 mg (dose increaseable to 60 mg if ineffective), 1 tablet 1 hour before intercourse with a couple of glasses of water.

An alpha level of .05 (two-tailed) was chosen for all statistical tests in this study. We tested for differences between treatment groups on IELT and PEDT, STAI-X1 and STAI-X2 by using analyses of variance, before and at the end of treatment, post-hoc Tukey HSD tests were performed to investigate differences across groups at the end of treatment; finally, to determine the effects of the treatments in producing clinical improvement at the end of treatment, paired samples t-tests were performed. Statistical analysis was performed using the computer statistical package SPSS/17.0 (SPSS, Chicago, IL, USA).

To determine the effects of the treatments in producing clinical reduction of state and trait anxiety at the end of treatment, we performed an intention to treat Cochran’s Q test of the percentage of patients who had reduced anxiety at STAI-X1 and/or STAI-X2. For each measure, two categories were created: normal range and patholog-
ical range. Patients were deemed to have clinically reduced anxiety if their score was shifted from the pathological range to the normal range; otherwise, those not having reduced anxiety remained in the normal range or in the pathological range. An Intention to Treat Cochran’s Q test (ITT) was performed on a larger data set comprising subjects who completed the study, as well as subjects who dropped out the study for various causes, so not being analyzed in the post-test phase. In such an analysis the pre-test condition (normal vs pathological) was carried forward to serve as the post-test condition of dropouts. No patient witnessed either an increased in their state or trait anxiety level. Effect sizes were finally calculated: Cohen’s d was calculated for t tests, Cohen’s $\lambda$ for ANOVAs, Phi coefficient for the $X^2$ tests, and Cramér’s $V$ for the Cochran’s Q tests.

**Results**

Figure 1 shows a flow chart of the study. Out of 1237 male outpatients, 353 received a diagnosis of PE and a total sample of 279 patients who met the entry criteria, agreed to randomization and was analyzed in a pre-treatment phase. Patients were randomly divided in 3 groups, each of them was composed of 93 patients. Out of 279 enrolled patients, only 157 patients completed the intervention and were analyzed post-treatment; in detail the drop out rate was of 33% in Group A, 36% in group B and 61% in Group C respectively (drop out reasons are showed in Figure 1). There were no significant differences in all demographic and clinical variables between eligible patients carried through the intervention to the end and those who left the study. Preliminary comparisons at baseline demonstrated that the three treatment groups did not show significant differences on 15 demographic and clinical variables (age, marital status, employment status, stable love affair, cigarette smoking, diabetes, hypertension, obesity, heart condition, neuropathy, prostatitis, sexually transmitted diseases, depression, anxiety, and erectile dysfunction). The demographic and clinical characteristics of the treatment groups at baseline are shown in Table 1.

Then, it was verified that assumptions for ANOVAs, paired samples t-tests and Cochran’s Q tests were not violated. Table 2 shows the results at baseline and at the end of treatment for all patients for whom results were available on the four main outcome measures (IELT, PEDT, STAI-X1 and STAY-X2). At baseline, no differences in outcome measures were found between the groups (see Table 2). All three groups improved during treatment, while at the end of treatment groups B and C improved more significantly than group A, on all the study variables. No significant differences among group B and group C were found at the end of treatment, on any of the study variables (Table 2). Finally, Table 3 shows the number (and percentage) of patients who were in the normal or pathological range of anxiety in each group at baseline and at the end of treatment. In the sample as a whole, patients significantly reduced their level of both state and trait anxiety (STAI-X1 and STAI-X2, respectively) from the pathological to the normal range. Specifically, both state and trait anxiety significantly decreased in all groups, and most patients improved to the normal range (Table 3).

**Discussion**

PE seems to be the most common sexual disorder in males (2). As described previously PE has a multifactorial etiology and many authors concentrated their attention on the study of a biopsychosocial approach to this disorder (19, 29, 30). Psychological and behavioral approaches to the treatment of PE were based on the hypothesis of an emotional origin of the disorder, and on physical rehabilitation through special techniques such as squeeze-pause and start-stop (3). Nowadays the liter-
Table 1.
Demographic and clinical features of treatment groups at baseline.
Figures are numbers (percentage) of patients unless stated otherwise.

| Patient characteristics       | Group A Dapoxetine (n = 93) | Group B Group therapy (n = 93) | Group C Combination (n = 93) | Total sample (n = 279) | Differences between groups |
|-------------------------------|-----------------------------|--------------------------------|----------------------------|------------------------|---------------------------|
| Mean (range) age (years)      | 45.19 (22-64)               | 37.00 (28-56)                  | 48.44 (20-68)              | 45.32 (20-68)         | F (2, 276) = 2.12, ns    |
| Marital status - Married      | 39 (41.93)                  | 48 (51.61)                     | 36 (38.71)                 | 123 (44.09)           | X² (2) = 5.40, ns        |
| Marital status - Single       | 47 (50.54)                  | 34 (36.56)                     | 48 (51.61)                 | 129 (46.24)           | X² (2) = 9.28, ns        |
| Marital status - Divorced     | 7 (7.53)                    | 11 (11.83)                     | 9 (9.66)                   | 27 (10.6)             | X² (2) = 98, ns          |
| Employment status - Employee  | 30 (32.26)                  | 23 (24.73)                     | 37 (39.78)                 | 90 (32.26)            | X² (2) = 4.82, ns        |
| Employment status - Director  | 7 (7.53)                    | 5 (5.38)                       | 4 (4.30)                   | 16 (5.73)             | X² (2) = 93, ns          |
| Employment status - Self-employed | 11 (11.82)               | 13 (13.98)                     | 6 (6.45)                   | 30 (10.75)            | X² (2) = 2.91, ns        |
| Employment status - Unemployed | 45 (48.38)                | 52 (55.91)                     | 46 (49.46)                 | 133 (51.25)           | X² (2) = 1.23, ns        |
| Stable love affair            | 69 (74.19)                  | 72 (78.20)                     | 79 (84.95)                 | 225 (80.65)           | X² (2) = 3.86, ns        |
| Cigarette smoking             | 31 (33.33)                  | 27 (29.03)                     | 19 (20.43)                 | 77 (27.60)            | X² (2) = 4.02, ns        |
| Diabetes                      | 7 (7.53)                    | 3 (3.23)                       | 8 (8.60)                   | 18 (6.45)             | X² (2) = 2.48, ns        |
| Hypertension                  | 15 (16.13)                  | 17 (18.28)                     | 24 (25.81)                 | 56 (20.07)            | X² (2) = 2.99, ns        |
| Obesity                       | 3 (3.23)                    | 5 (5.38)                       | 10 (10.75)                 | 18 (6.45)             | X² (2) = 4.63, ns        |
| Heart condition               | 6 (6.45)                    | 13 (13.98)                     | 10 (10.75)                 | 29 (10.39)            | X² (2) = 2.85, ns        |
| Neuropathy                    | 1 (1.08)                    | 2 (2.15)                       | 1 (1.08)                   | 4 (1.43)              | X² (2) = 51, ns          |
| Prostatitis                   | 3 (3.23)                    | 4 (4.30)                       | 8 (8.60)                   | 15 (5.38)             | X² (2) = 2.96, ns        |
| Sexually transmitted diseases | 0 (0)                       | 0 (0)                          | 0 (0)                      | 0 (0)                 | X² (2) = 2.46, ns        |
| Depression                    | 3 (3.23)                    | 6 (6.45)                       | 2 (2.15)                   | 11 (3.94)             | X² (2) = 93, ns          |
| Anxiety                       | 18 (19.35)                  | 26 (27.96)                     | 31 (33.33)                 | 75 (26.88)            | X² (2) = 4.70, ns        |
| Erectile dysfunction          | 46 (49.46)                  | 38 (40.86)                     | 41 (44.09)                 | 125 (44.80)           | X² (2) = 1.42, ns        |

The table above seems to identify both organic and psychological multifactorial events in the pathogenesis of PE that are involved to varying extents in each patient. With the introduction of SSRI in the treatment of PE several studies have concluded that combined therapy is more effective than pharmacological therapy alone for men with ED and PE (5, 6). As discussed before, the use of group psychotherapy that had a huge emphasis during the 1970s and 1980s (7, 8) within psychiatry and psychology, nowadays has fallen into disuse in the clinical practice and has been considered not fit for sexual disorder by some authors (9). Those who are affected by PE often appear to be discouraged by the unsatisfying duration of intercourse, as well as by the sense of inadequacy related to their inability to satisfy their partner, it has negative consequences on the Quality of Life (QoL) of patients and their partners. A recent study conducted by Limocin et al. (22) showed that women with a partner affected by PE were more likely than controls to experience significant sexual distress.

Until 2008 the pharmacological treatment of PE was based on off-label use of SSRIs; in 2009 the European Agency for the Evaluation of Medicinal Products (EMA) approved the use of Dapoxetine for the specific treatment of PE in patients aged between 18 and 64 years. The efficacy of Dapoxetine compared to placebo has been proven in many studies. Although its side effects are rarely serious and generally well tolerated (23), patients’ compliance to their treatment is often low due to concerns about potential side effects and lack of knowledge about the condition.

Table 2.
Mean scores on two main outcome scales at baseline and at the end of treatment.

| Outcome measures          | Mean scores (SD; 95% CI) (n) | Differences between groups | Tukey HSD Post-hoc tests |
|---------------------------|------------------------------|----------------------------|--------------------------|
| Patient characteristics   | Group A - Dapoxetine         | Group B - Group therapy    | Group C - Combination    |                          |
| IELT:                     |                              |                            |                          |                          |
| Baseline (279)            | 50.77 (13.52; 48.02 to 53.52) | 46.86 (10.95; 48.54 to 53.00) | 48.33 (13.11; 46.67 to 50.99) | F (2, 276) = 2.29, ns    |
| End of treatment (139)    | 231.86 (39.97; 221.91 to 241.81) | 412.14 (45.36; 400.57 to 423.71) | 431.11 (53.96; 413.48 to 448.74) | F (2, 154) = 32.50, p < .001 |
|                           | t (61) = 35.67, p < .001     | t (58) = 61.86, p < .001    | t (56) = 42.56, p < .001  |                          |
| PEDT:                     |                              |                            |                          |                          |
| Baseline (279)            | 12.95 (3.32; 12.48 to 13.42)  | 12.29 (1.97; 11.89 to 12.69)  | 13.44 (6.28; 12.16 to 14.72)  | F (2, 276) = 1.91, ns    |
| End of treatment (139)    | 10.61 (8.59; 8.47 to 12.75)   | 5.57 (10.62; 2.86 to 6.26)   | 5.13 (13.86; 5.68 to 9.64)   | F (2, 154) = 7.57, p < .05 |
|                           | t (61) = 2.14, p < .05       | t (58) = 4.86, p < .001     | t (35) = 3.61, p < .001   |                          |
Dapoxetine still remain poor as demonstrated in recent study in which the dropout at one year was of about 90% (24). Some authors believe that the first approach with PE must consider topical therapy with anesthetic gel (lidocain, prilocain), which has demonstrated greater efficacy compared to placebo (25). Some Authors expressed concern that the administration of medical treatments for sexual disorders without attention to psychological factors may not be sufficient (26, 27).

According to Hunt and McHale (28) men suffering from andrological problems, such as ED and PE, commonly have concomitant psychosocial problems, vary in nature and severity, and that in many cases they may benefit from some form of psychotherapy.

Group therapy is a form of psychotherapy in small group of individuals with the purpose to assist them in emotional growth and personal problem solving, that encompasses many different kinds of groups with varying theoretical approaches. Group psychotherapy characterized by a psychodynamic approach (such as in our study) is able to facilitate active and introspective work among the participants with the aim to reduce invalidating symptoms and to achieve a change in their personality and modality of interaction.

Moreover, our choice of a short group psychotherapy was born from the evidence of effectiveness in patients affected by moderate anxiety and depression (29); furthermore, short psychotherapy showed lower drop-out rate compared to long term one (30). On the contrary, in our study patients’ partners were not included to reduce/minimize patients’ inhibition and create an environment free from couple dynamics (feelings like sadness, anxiety, anger, dissatisfaction and sexual disorders often underlie dysfunctional relationships) (31).

Some teorical limitations of this study were the facts that is not blinded (it is not possible to blind a psychotherapy group), the absence of a placebo group versus Dapoxetine (in the presence of a drug with certain indication for the treatment of PE it didn’t seems ethical a placebo group). The follow up is not extremely long but congruous with the aims of a prospective randomized study and the superior efficacy of a short term therapy (30). It should be interesting in future studies to evaluate with a cross-over analysis the correlation between single arms. Another potential limitation of the study is the lack of an objective method for the evaluation of IELT, as the stop watch techniques, but this is a method unfit in the clinical setting of our patients and in any case the authors give more importance of the subjective evaluation of the time as reported by Jannini et al. (11) “the presence of a stopwatch, even for short diagnostic purpose, is not frequently accepted”.

Poor compliance remains a limit of this disorder as also showed in a recent study of Mondaini et al. (24) but it’s also depend on the organization problems linked to the psychotherapy.

**Conclusions**

The PE is a complex sexual disorder with a multifactorial pathogenesis that needs to be taken into account for proper treatment. This is only possible by adopting a multidisciplinary approach. Indeed, psychotherapeutic treatment not only contributes to treating the disorder in those cases in which the psychological pathogenesis is more relevant, but also decreases anxiety, reducing relapses and helping patients deal with the disorder. Ultimately, an improvement of QoL is achieved in those patients. Our study highlights the importance in considering a combination of therapies as a correct way to treat PE, either due to a hypothetical psychological etiology, or due to frequent PE-related psychological consequences. Our results showed that psychotherapy may also improve the efficacy of pharmacotherapy (compliance with medical treatment).

Moreover, in our experience Group Psychotherapy seems to be suitable also for patients with this kind of sexual disorder (25). Finally, as claimed by Hunt and McHale (28) who stated that "for most men the most effective treatment for andrological disorders, depending on the cause of the problem, may be a combination of medical and psychological treatment", we would like to underline the importance of multidisci-

### Table 3.

**Number (%) of patients’ range at STAI-X1 and STAI-X2, at baseline and at the end of the treatment.**

| Range                          | STAI-X1 Group A - Dapoxetine | STAI-X1 Group B - Group therapy | STAI-X1 Group C - Combination | STAI-X2 Group A - Dapoxetine | STAI-X2 Group B - Group therapy | STAI-X2 Group C - Combination |
|-------------------------------|-------------------------------|---------------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------------|
|                               | Baseline End of treatment     | Baseline End of treatment       | Baseline End of treatment     | Baseline End of treatment     | Baseline End of treatment       | Baseline End of treatment     |
|                               | (n = 93) (n = 62)             | (n = 93) (n = 59)               | (n = 93) (n = 36)             | (n = 93) (n = 62)             | (n = 93) (n = 59)               | (n = 93) (n = 36)             |
| Normal                        | 76 59                         | 68 52                           | 69 33                         |                               |                                 |                               |
| Pathological                  | 17 3                          | 25 7                            | 24 3                          |                               |                                 |                               |
| Baseline - End of treatment comparisons | $\chi^2(2) = 5.98, p < .05$ | $\chi^2(2) = 4.90, p < .05$    | $\chi^2(2) = 4.79, p < .05$ |                               |                                 |                               |
| Differences between groups    | Baseline: $\chi^2(2) = 2.26, ns$ | End of treatment: $\chi^2(2) = 1.96, ns$ |                               |                               |                                 |                               |
plurality (32, 33): our data showed that group C, treated with the combination of pharmacotherapy and psychotherapy, was the one that improved the most in terms of results, as shown in Table 2. According to the results of our study, Group Psychotherapy appears to be effective in improving IELT, sexual satisfaction and anxiety both alone or in combination with Dapoxetine in treatment of PE. Considering the multi-pathogenic nature of PE, combined treatment seems to be preferable to a single therapy, whether pharmacological or psychotherapeutic, even though the study does not show any statistically significant difference between treated groups.

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