Abstract

Serotonergic influences on sexual function are poorly understood. SSRI have been associated not only with impairment of sexual function but with restoration of sexual potency. We report a case of recurrent priapism that was treated with Fluoxetine and low dose Perphenazine. During 20 months of follow up, his priapism has been in remission but it recurred very dramatically twice after drugs were tapered off. This case report proves that sexual side effects of Fluoxetine and low dose of Perphenazine may be more variable than previously thought.

Introduction

The recognition and treatment of Idiopathic Recurrent Priapism and the role of psychologic factors have become topics of increasing clinical concern. Serotonergic influences on sexual function are poorly understood. Fluoxetine is a highly specific serotonin reuptake inhibitor, which has been reported to cause sexual dysfunction such as anorgasmia, delayed ejaculation, prolonged erection and impotence in 20-25% of all treated patients.1,2 Although priapism has been associated with Fluoxetine and Perphenazine very rarely1, one author reports restoration of sexual potency with use of Fluoxetine.3 We present a case of idiopathic recurrent priapism who was treated with Fluoxetine and low dose Perphenazine.

Case Report

A 42 year old man, diagnosed with Idiopathic Recurrent Priapism (Low flow type) was referred to us from one of our Urologist colleagues. The chief complaint of the patient was prolonged and painful erection. He had to go to the emergency department 15 times during a year. He received urgent therapeutic intervention with irrigation by non-heparinized saline and corporeal blood aspiration ranging from 150 to 200 ml. His medical history indicated that an adequate response was not achieved with the Urologic treatments. He also received Thioridazine (25 mg/q 8h) for several weeks before being referred to us by urologists, but he insisted on stopping it because of sedation. All urologic work up and laboratory studies were conducted to exclude known causes of priapism. When he came to our clinic he was worried and tense. He met DSM-IV-TR criteria for adjustment disorder with anxiety - depressive features reactive to his medical condition. His sensorium was clear and there was no evidence of psychosis or history of primary psychiatric or other medical disorders.

Treatment was changed to a regimen of Fluoxetine (20 mg/day) and Perphenazine (2 mg/day) for anxiety and depression target treatment. During this treatment, the patient had no sexual side effects. Also, his priapism, and depression and anxiety symptoms all went in remission. During 20 months of follow up, it was decided to discontinue the drugs, but priapism recurred very dramatically twice when the doses were reduced. The drugs had to be continued as the patient was not willing to stop them.

Discussion

SSRIs most often have adverse effects on reaching orgasm and decrease the sex drive in both sexes.1 There are some reports of SSRIs (e.g. Fluoxetine and Citalopram) inducing priapism.4,5 Penile erection is due to peripheral parasympathetic and α−adrenergic activity. Fluoxetine is an antidepressant with the lowest affinity for cholinergic and α−adrenergic receptors.6 On the other hand, some clinicians use low dose of neuroleptics (e.g. Perphenazine) to treat anxiety. There are two reports of priapism in patients receiving Perphenazine.7,8 As many as 50% of men taking dopamine receptor antagonists experience impotence. Also anorgasmia, decreased libido and retrograde ejaculation are reported in these patients. Priapism and painful orgasms have been described possibly due to adrenergic antagonist activity.1

This case showed that sexual side effects of Fluoxetine and low dose Perphenazine may be more variable than previously thought. Animal models showing paradox or opposing responses to serotonin-enhance agents may apply to human sexual functioning as well.3 Although, Fluoxetine and Perphenazine are associated with induction of priapism alone, it is not clear as to how the combination of these two agents treats it. Psychological factors could play an important role in treatment of this disorder. Future interventional and well-controlled studies are required to illustrate the role of psychiatric treatment for Idiopathic Recurrent Priapism.
References

Case Report

Transfusion associated graft versus host disease
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Abstract
This case report describes an immunocompetent lady who developed transfusion associated graft versus host disease following transfusion from a close relative. The diagnosis was established by HLA typing and STR analysis of the patient and her family.

Introduction
Transfusion associated graft versus host disease (TAGvHD) is a dreadful and one of the most feared complications of blood transfusion. It can occur following transfusion of red cells, platelets and granulocytes. Like GvHD occurring after bone marrow transplantation, TAGvHD is also characterized by fever, skin rash, diarrhoea and hepatitis.1 However, it is remarkably different from bone marrow transplant associated GvHD.

The diagnosis of TA-GvHD is often delayed due to lack of awareness and seemingly non-specific manifestations.2 The rarity of this syndrome prompted us to share our experience of the diagnosis of a lady with this dreadful albeit rare complication, precipitated by an unfortunate combination of preventable local circumstances.

Case Report
A 25 years old lady was admitted in Armed Forces Bone Marrow Transplant Centre (AFBMTC), Rawalpindi, Pakistan, with a two month history of recurrent fever with jaundice and skin lesions for one month. She gave birth to a baby girl on 29th March 2007, following which she was transfused one unit of whole blood, the donor being her real sister, in Sargodha. Fifteen days after delivery she developed high grade fever and her blood counts dropped (Table). In the meantime, she also developed jaundice. She was referred to a hospital in Lahore where her bone marrow aspiration and trephine biopsies were reported as “Not Diagnostic” and AFB and blood culture were reported as negative. After about two weeks of initial transfusion, she had developed generalized exfoliative skin rash all over her body. After a month of treatment, she was taken home to Faisalabad by her relatives. During her 10 days stay at home, her blood counts were done regularly. On 5th of June, her platelets suddenly dropped to 5000/ul. She was referred to AFBMTC. At the time of admission in AFBMTC, she had very low blood counts; bilirubin was 4.62 mg/dl and ALP 1050 U/l. She was admitted to be investigated for pancytopenia and was given adequate treatment. Her initial investigations revealed Aspergillus flavus and MRSA in nasal swabs. USG and CT scan abdomen showed space occupying lesion in spleen. Red blood cells were not deficient for CD59, Coomb's test and G6PD screening were negative and FDP were <250 mg/ml. Keeping in view her fever and rash, she was referred to Armed Forces Institute of Pathology (AFIP) for investigations regarding autoimmune disease, where after a review, TAGvHD was suggested to be a possible cause of her pancytopenia and deranged LFTs. Specimens were collected to carry out tissue typing and short tandem repeat (STR) analysis of the patient, her sister and her brother. Buccal swab was obtained as the source of pretransfusion DNA sample of the patient. Later laboratory investigations for suspected autoimmune disease showed ANA, anti dsDNA and anti ENA antibodies to be negative.

Table. Serial Blood Counts of the Patient.

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* 1 unit whole blood transfused
** 2 units RCC and 6 units platelets transfused