

Tactile Hallucinations: Presenting Symptom of Schizophrenia

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Abstract

Although previous reports about tactile hallucinations of sexual content suggesting Schizophrenia are known², this disorder has been characterized mostly by hallucinations of visual/auditory content. At Schizophrenia presentation these two types of hallucinations are the prominent features. This report describes a patient who had no previous psychiatric symptoms and for whom tactile hallucinations were the presenting symptom of Schizophrenia.

Introduction

The importance of Schizophrenia relies in the fact that its prevalence is 1% of the population and is the 4th leading cause of disability among adults. It is an usually chronic disorder, one of the most devastating medical illnesses¹.

The prodromal phase is defined retrospectively, after the person meets full criteria for the disorder³. The prodrome can be described in 2 ways: (1) the earliest, pre-psychotic form of a psychotic disorder (attenuated psychosis), or (2) as a syndrome that confers vulnerability to psychosis development, though psychosis development is not inevitable³.

Tactile hallucinations, also called haptic hallucinations, have been described as "sensations of being touched"² and as "false perception of touch or surface perception"⁷. Through history and literature, tactile hallucinations have been associated with drugs/alcohol use/withdrawal, Parkinson's Disease⁶ and with acute brain changes.

Literature review is significant for almost no documentation regarding tactile hallucinations. No reports were found of these hallucinations as a presenting symptom of incipient Schizophrenia.(utilizing what method fro the search)

Peled A, Ritsner M, et al, in "Touch feel illusion in schizophrenic patients" concluded that in Schizophrenia, altered functional integration of environmental inputs could constitute the basis for erroneous interpretation of reality⁴. Shergill SS, Cameron LA, et al, using fMRI identified somatosensory and post-parietal cortex areas that normally mediate perception as being activated during somatic hallucinations.

This report describes a case of a patient who eventually developed Schizophrenia and presented with tactile hallucinations as the first symptom. According to the National Institute of Mental Health (NIMH), about 75% of patients diagnosed with Schizophrenia experience hallucinations, most commonly auditory or visual⁸. 80% of patients diagnosed with Temporal lobe epilepsy (TLE) experience gustatory and olfactory hallucinations as well as auditory and visual hallucinations⁸. Tactile hallucinations have been reported by survivors of rape and childhood sexual abuse^{8,9}. Child abuse was a significant predictor of auditory and tactile hallucinations even in absence of adult abuse⁹.

Case Report

Miss. MS was a 21-year old single woman who was admitted to the inpatient psychiatric unit around December 2004 secondary to 4 months of experiencing tactile hallucinations, 3 months of auditory hallucinations and self-aggressive behavior.

Miss. MS related that in August 2004 she participated in a Botanical Class camp at a mountain in Puerto Rico. During the first week of the camp and while taking classes with classmates, she felt that her face was being touched very lightly by someone she was not able to see or hear. To this caress, Miss. MS responded by pushing away whoever she thought was touching her and told no one about it. This episode continued every day during the first week of camp.

The night before the recess from camp, Miss. MS was unable to sleep because she felt that someone was touching her legs and arms. She describes that although she had her face covered with her sleeping bag, she saw a silhouette that appeared to have spikes on the head. She thought it was a classmate from camp named CC standing in front of her. This person had dreadlocks on his hair.

Miss. MS reports that she felt her blanket wet and accused her classmate of been masturbating in front of her and touching her. All the classmates of Miss. MS were sleeping in the same room and denied the accusations made by her. One of the professors in charge accused her of being totally insane. Miss MS states that she hid the blanket as evidence, but felt confused when she could not find the stain on it. Miss. MS decided to stay in the camp in

order to be able to pass the class. That day, the class professor took her to her house for the recess.

While at her house during that night, she felt someone over her body. She describes that she was alone in her room, awake, crying and yelling. She needed to be comforted by her mother so she could be able to sleep. The next day her mother took her to the mountain to finish the camp. She was placed in a different cabin with a female classmate. There, she kept feeling being touched every night but her classmate stated that there was no one in there. Miss. MS claimed that she was able to finish camp thanks to this classmate support.

When Miss. MS arrived home on August 15, 2004, she was unable to sleep and needed to be accompanied by her mother. She started feeling being sexually penetrated and sexually assaulted by someone she could not see. She also felt been spied by her classmate CC. Pt continued having these hallucinations on a daily basis for one month. Her family took her to the patient's uncle who was a priest since her mother thought she was "transformed". The priest advised the family to take Miss. MS to a physician.

After a month, Miss. MS reported feeling dirty and like a "ramera" (whore). She felt that she was constantly raped by multiple men. Then, she started hearing a voice that called her "amor" (love). Auditory hallucinations increased in frequency and complexity. She then heard a man that at first talked to her and then talked to a woman. After one month, Miss. MS heard 12 voices talking between them at the same time. She heard the voices accusing her of making witchcraft and cults when her mother brought her a catholic present to protect her.

Pt reports that at that time she started to remember things from her childhood. She saw herself crying as a child. Then she took her dolls out and started playing with them. She also remembered that her mother and aunt were overprotective with her and that she was always playing by herself.

During the following two months, the patient was taken by her brother to a protestant church near her town. She started to read the bible, especially Apocalypse. She reports that at that moment she realized that she was the woman of "the prophecy" and that the one that raped her was the dragon. Miss. MS relates how she was tormented by this. She lost her faith and felt that she was losing control of herself. As a result, she started hitting the walls with her head and turned uncontrollable for which she was hospitalized.

Previous to this episode, Miss. MS is able to identify a period of 4 years of increased isolation. During this period she only talked to her brother. She wrote 11 dark-dead poems and gave them to her brother for him to write music for them and play them on his band. Dark poetry wrote by Miss. MS

was in English language even when her first language is Spanish and she is not that fluent in English. Some poems phrases were: "The dead is calling to my heart..." "The black horse is whining a sound, that nobody knows why... takes you to the valley of the dead". Her mother found the poems when she was hospitalized and threw them away. Miss. MS reports that she used to enter in her brother's computer without permission and saw at times porn sites during that time. Patient related how she felt lonely, sad and inadequate for everything.

After hospitalization, Miss. MS had a neurological evaluation that included: an EEG and a brain CT scan, with negative results. She was treated with Lexapro 10mg am, Zyprexa 5mg hs and Benadryl 50 mg hs for the last year but only with partial response: she kept hearing voices on an off on a daily basis but she states were more tolerable than initially. Zyprexa was increased to 10mg but only with partial response and was eventually discontinued due to 60# weight gain in 5 months. Lexapro was discontinued also due to patient feeling more depressed at optimal dose. Zoloft was started at 50mg on am with good response. She was also started on Abilify 7.5mg am for one week and then the dose was increased to 15mg am. The patient is stable now with no residual psychosis for the last 3 months while on Abilify.

At this moment, Miss. MS thinks that what she lived was totally real, she thinks that it was a bad spirit that disappeared only with her faith and the medications. Miss. MS exhibits excellent compliance with medications. She was able to complete her BA in Biology with honors even while hearing voices talking about her and criticizing her. In retrospect, she resents the feeling that her personality has changed. She does not want to socialize and has no desire to talk to anyone about anything; but feels well about the disappearance of her hallucinations.

Discussion

Miss. MS has required only one hospitalization since the beginning of her illness, this may be due to her compliance with medical treatment. Complete neurological workup revealed no organic cause for her symptomatology. Miss. MS denied any illicit drug/alcohol use. As per family reports, there is no family history of Schizophrenia.

Miss. MS was born with an eye spasm which still makes her unable to close the right eye even when asleep. On physical examination it is appreciated face asymmetry as well as deformity of her fingers. An ovarian cyst was diagnosed after menarche due to severe blood loss during a year period. During an appendectomy and ovarian cyst removal, she was incidentally

found to have an abdominal kidney. Upon literature review no correlation was found between this presentation and Schizophrenia development. Literature describes several syndromes of genetic origin with severe consequences in organ functioning that are associated with disorganization, psychosis and aggressive behavior. Miss. MS do not fit any of the syndromes presentation, however we cannot discard the possibility of a correlation between this physical findings and her illness development. Reports of many associations between chromosomal sites and Schizophrenia are known⁷, more than half of all chromosomes have been associated with Schizophrenia but the most commonly implicated are the long arms of chromosomes 5, 11 and 18, the short arm of chromosome 19 and the X chromosome.

Miss. MS reported feeling sad and lonely as a child, she denied physical or sexual abuse. Miss. MS related how she only had one or two friends, and was never too close to them. This behavior is typical of the premorbid history of Schizophrenia⁷. Pre-schizophrenics adolescents as Miss. MS, have no close friends, no dates and avoid team sports. They enjoy things that led to the exclusion of social activities as watching television or using the computer.

Miss. MS prodromal phase lasted about 4 years. Common prodromal signs include anxiety, blunted affect, social isolation, irritability, depression or dysphoric mood. In this patient criteria for a major depressive episode was not met but she presented with dysphoric mood and social isolation. Her feeling of being lightly touched during the week previous to the tactile hallucinations development can be identified as an attenuation of the psychosis.

During the year of 2005, the patient was treated with several medications by her neurologist which was the person that initiated her treatment. These included Depakote, Geodon, Seroquel, Risperdal, Zyprexa and Abilify, in unknown doses an apparently with a very poor response from patient. In terms of treatment, this patient had the recommended course which included exclusion of medical causes and immediate treatment of psychosis even in absence of the Schizophrenia diagnosis. Of the medications used, only Abilify has no reports published (up to 2005) as treatment for first episode Schizophrenia¹. In this case, the patient had an excellent response upon dosage optimization and has been able to be maintained in remission of psychotic symptomatology.

Conclusion

This case is very interesting because of the Schizophrenia presentation. Her initial presentation made it difficult to diagnose since several factors needed to be clarified. Sexual molestation needed to be explored to rule out the possibility of a PTSD.

As time passed, the patient developed symptoms characteristics of Schizophrenia that included: paranoid delusions, disorganized thoughts, disorganized behavior and tactile/auditory hallucinations for more than 6 months. In retrospect the prodromal period was clearly identified. Miss. MS did not present with symptoms that fulfill the criteria for a major depressive episode or manic episode during her illness development. She presented with sad mood after she gained some insight about her condition.

This report is significant for the occurrence of tactile hallucinations as the presenting symptom of incipient Schizophrenia. It also reminds us of being aware of the prodromal symptoms of Schizophrenia and raises the question of the possibility of prophylactic treatment for schizophrenic patients.

Competing Interests

The authors declare that they have no competing interests.

Authors' Contributions

VMQF was the person that interviewed the patient and was constantly in contact with her, organized the case presentation and manuscript. PACL was the in-site attending who supervised each visit and with whom treatment decisions were consulted, he was also the psychiatrist who suggested the search for medical correlations and previous workup done to patient plus the collateral history gathering. PACL was also the main editor of the case report. LF was the case presentation supervisor, he is also the department chairman that provided general support and was the person who suggested more history clarification and detailed description of tactile hallucinations to sustain the diagnosis.

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