“Sleeping Beauty paraphilia”: Deviant desire in the context of bodily self-image disturbance in a patient with a fronto-parietal traumatic brain injury

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Summary

Background:
Several case series and reports describe paraphilia as occurring after brain damage, mostly in the frontal lobes and diencephalic structures. Hypersexuality and paraphilic behaviors are also documented in a variety of other neurologic disorders, (e.g., Kluver Bucy syndrome, and more rarely in multiple sclerosis). In multiple sclerosis, hypersexual behavior and paraphilias have been associated with various focal brain lesions in the frontal and temporal lesions when inflammatory demyelination involves the hypothalamus and septal regions.

Case Report:
A case of a patient who developed a particular and progressive sexual deviant behaviour after a head trauma. This men felt sexually aroused from seeing sleeping women as well as from taking care of their hands and nails while they were asleep. The patient was diagnosed with a moderate dysexecutive syndrome characteristic of a frontal disorder and a very specific parietal-related bodily self image disorder characterized by an incomplete mental image of his hands. The clinical hypothesis was that the paraphilia might be related to his post-traumatic disturbed bodily self image and more specifically to its related impulsive needs to complete his hands representation.

Conclusions:
This case report highlights the potential link between paraphilia, deviant and aggressive sexual behaviour, neurological disturbance and self-representation. The treatment of paraphilias remains very complex, and requires taking into account not only the social and psychological aspects of the disease, but also its organic dimensions.

key words: paraphilia • body image disturbance • sex offenders • sexual deviant behaviour • self representation • desire • intention

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Background

Paraphilias are defined as recurrent, and intense sexual urges, fantasies, or behaviors that involve unusual objects, activities, or situations and cause clinically significant distress or impairment in social, occupational, or other important areas of functioning [1]. The major categories of paraphilias in DSM-IV are fetishism, frotteurism, exhibitionism, pedophilia, sexual masochism, sexual sadism, transvestic fetishism, voyeurism, and also a separate category for other paraphilias not otherwise specified, such as zoophilia. Recurrent and intense sexually arousing urges, fantasies, and behaviors have to occur for at least 6 months [1].

There have been several case series and reports of paraphilia occurring after brain damage [2–4]. More critically, idio- pathic paraphilias almost always begin in childhood adolescence, or early adulthood, and rarely occur with new onset after the age of 30 years, while acquired paraphilias are often associated with focal brain injury [5]. Although, brain damage is most frequently associated with hyposexuality, sometimes hypersexuality and atypical sexual interests may be present, especially after a traumatic frontal brain injury [2,4,5,6,7]. Hypersexuality and deviant behavior (e.g., paraphilia, sexual offenses) are associated with several focal brain lesions, especially those that involve loss of integrity of the frontal lobes and diencephalic structures. In a recent study, Walter et al. tested 13 pedophilic patients and 14 healthy control subjects during visual stimulation with emotional and erotic pictures with functional magnetic resonance imaging (fMRI) [11]. Walter et al. observed differential activations during the erotic condition comprised the hypothalamsus, the periaqueductal gray, and dorsolateral prefrontal cortex. Alterations of emotional processing concerned the amygdala-hippocampus and dorsomedial prefrontal cortex [10]. Hypersexuality and paraphilic behaviors are also documented in a variety of other neurologic disorders, (e.g., Klüver-Bucy syndrome, and more rarely in multiple sclerosis). In multiple sclerosis, hypersexual behavior and paraphilias are distinctly uncommon in this population of patients, but have been associated with various focal brain lesions in the frontal and temporal lesions when inflammatory demyelination involves the hypothalamus and septal regions [9,10]. In a sample of 476 male paraphilics and sex offenders, Langevin found that 49.3% of them had sustained head injuries that led to unconsciousness and of these 22.5% sustained significant neurological insults [8]. Although neuroimaging data about paraphilics and sex offenders are limited and with methodological limits, the most frequent finding involves verbal deficits and other manifestations of left fronto-temporal anomalies [4].

In the first time of his marriage he could control these fantasies, but over the years he lost the control of his sexual urges and he must irresistibly act his deviant behaviour. In order to realize his uncontrollable impulse, he was used to provide his wife sleeping pills to satisfy his paraphilia. In the first time his wife used to agree to take sleeping pills, but later she refused to bend to man’s freakish will. The man began secretly to administer benzodiazepines since the dosage of 25 mg of Bromazepam.

In September 2006, his wife discovered this practice and refused to take sleeping pills and the couple entered in a very strong conflict.

Because of the extremely powerful obsession with sleeping women and painting their nails, the patient disguised himself with a latex mask an attacked his wife, as she returned from work, with an Olerosin Capsicum (OC) spray, to anaesthetize her. During this episode, his wife succeeded in taking off his mask, escaped and called the police who brought him to the psychiatric emergencies.

The psychiatric exam was normal as well as the routine laboratory tests. The patient did not take medications and did not have a family history of medical illness.

However in the patient history was found an episode of head trauma at the age of 10 years with a four days post-traumatic coma.

In order to explain this unknown form of paraphilia and bizarre sexual behaviour, he received neurological evaluations, including neuroimaging and neuropsychological exams.

The cerebral MRI showed a moderate atrophy in the fronto-parietal region with a diffuse and severe white matter injury compatible with his previous head trauma (Figure 1). On a functional viewpoint, this brain network is known to sustain among others, the sense of self, body-image, and attention mechanisms. His neuropsychological exam was in line with this assumption. The patient was diagnosed with a moderate dysexecutive syndrome and a very specific body image disorder characterized by an incomplete mental image of his hands, mostly the right (i.e., personal representational hemineglect), as ascertained by his graphical representation of his body parts [12].

The clinical hypothesis was that the paraphilia might be related to his post-traumatic disturbed body image and more specifically to the incomplete hands representation.

Discussion

In this case report the focal moderate atrophy in the fronto-parietal region, a brain network involve in attention mechanisms, and bodily self representation [12–15], in association with the diffuse and severe white matter injury, might explain the present unusual form of paraphilia that is characterized by being sexually aroused and attracted by the sleeping women (the so-called “sleeping beauty paraphilia”). Although substantial neuropsychiatric morbidity has been identified among persons with paraphilia, we are unaware of previous similar case reports. Presumably, the occurrence of head trauma leading to catatonia in adolescents...
might have played a critical role on the development of his sexual self and body image.

This case report highlights the potential link between paraphilia, deviant and aggressive sexual behaviour, neurological disturbance and self-representation.

**CONCLUSIONS**

The treatment of paraphilias remains very complex, and requires taking into account the not only social and psychological, but also organic dimensions of disease.

**REFERENCES:**