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Olfaction and Sexuality

Michael Buxbaum, MD

Thomas Jefferson University

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A patient who describes himself as "sanitary" told me of his concern with odors. Whenever he thinks about establishing a sexual relationship, he develops a fear that his partner may smell offensive, especially around her genital area. He describes signs and symptoms of sympathetic overactivity when he engages in foreplay, and is afraid that he might be impotent if he smells anything offensive. In fact, he has to insert a finger into his partner's vagina during foreplay, to test the nature of the odor. He feels relieved when the smell is neutral or perfumed, and demonstrates enhanced sexual performance. The patient, who uses deodorants extensively, reports pleasurable sensations when he sits in the bath and smells his own flatus bubbling through the water. Between the ages of five and seven, he recalls smelling his mother's flatus; he is anxious and embarrassed when he describes this incident in therapy. This anxiety is qualitatively similar to the anxiety he experiences during foreplay.

This brief vignette highlights the importance of odors in the sphere of human sexuality. It also suggests that odors now considered repulsive were stimulating in an earlier developmental period. Since olfaction plays a role in human development, many psychiatric patients report interesting olfactory symptoms. This article focuses on the relationship between olfaction and human sexuality.

Hippocrates was aware of a relationship between sexual development and olfaction; he noted that the sexual odors are not of adult quality until puberty. Smell is represented as a powerful sexual stimulus in various literary works, including those of Shelly, Baudelaire, Zola, and Shakespeare(1). Freud was impressed by the result of the lifting of the human nose from the earth when man assumed an upright posture. He believed the consequence was that a number of pleasurable sensations connected with the earth became repulsive, and that the loss of the sense of smell might be a part of repression of sexual drive, consistent with advancing civilization(2). In the "Three Contributions to the Theory of Sex," Freud stated in regard to fetishism:

Selection of the fetish depends on the coprophilic smell desire which has been lost by repression. Feet and hair are strong smelling objects which are raised to fetishes after renouncing the now unpleasant sense of smell. Accordingly only the filthy and ill smelling foot is the sexual object in the perversion corresponding to foot fetishism(3).

Dr. Buxbaum is a third year psychiatry resident.
The sense of smell is strongly connected to sexuality, and therefore is subject to repression and other forms of modification by the ego. The anatomical nose itself is one of the symbols for the penis. The story of Cyrano de Bergerac stands out among other examples in fiction. The popularity of rhinoplasty may be partially explained by the wish to conceal an organ which responds to unacceptable odors. Material from analysis of dreams frequently shows a relationship between nose bleeds and castration anxiety in men and menstruation (representing loss of the penis) in women.

There seem to be developmental changes in the conscious perception of odor. Infants and younger children find the natural smell of body secretions pleasant and exciting. Later in life, these odors are perceived as repulsive and unstimulating. There is evidence that preoedipal children can discriminate their own smell from that of others. Infants also discriminate their own mothers' breast pads as early as the first two days of life(4). Stein (5) exposed 300 normal children to the smell of sweat and synthetic feces, and found that children younger than four reacted positively, while children older than six exhibited a negative reaction. The switch in the quality of perception of odors seems to occur between the ages of four and six, during the oedipal phase of development.

We could speculate that it must be exciting for a child to smell his mother's natural scents and to be stimulated by them. As development progresses, the child's ego cannot allow this incestuous excitement, and consequently this sense of smell is repressed along with other libidinal impulses present in this developmental period. Kalogerakis (6) describes a case of a boy between the ages of two and five years, who was stimulated by olfactory perceptions but gradually repressed them.

Some research has been directed towards identification of specific substances, pheromones, which are thought to modify behavior through olfaction. These compounds have not yet been demonstrated in humans, but do play an important part in the life of lower animals, especially insects. In humans, they are thought to be similar to sex hormones in structure and to have a musk odor. Interestingly, the olfactory system is the only sensory system with a direct connection to the limbic system, where the centers associated with sexual arousal are located. In theory, the best evidence for the action of pheromones is the phenomenon of menstrual synchrony. Two recent studies (7,8) demonstrated menstrual synchrony between close friends, who lived in proximity for a period of four months. This synchrony does not occur between neighbors who are not friends. Another study (9) showed that, after a woman's sweat was applied to the upper lip of female volunteers synchronized their cycles within four months.

Several studies have been done to demonstrate the possible effect of steroid sex hormones on human behavior. All have serious methodical problems, and the evidence to be drawn from them is conflicting(4). A recent study (10) shows no effect of androstenol on perceived physical attractiveness between men and women. It is also interesting that the tissue covering the middle and inferior turbinates and a portion of the
The connection between olfaction and sexual stimulation in adult life should not be underestimated. This stimulation is often produced by artificial, institutionalized odors. These are scents characteristic of the variety of cosmetic products available on the market. Their importance is indicated by their seemingly endless numbers, their widespread usage and commercial success. Perhaps this usage demonstrates the human search for highly personal, yet socially acceptable smells. Here we may be seeing a revised, modified representation of an older, regressive interest in body odors. The repressed childhood interest had to be replaced by widespread use of artificial scents during both sexual and nonsexual activities.

Of course, a small minority of the population continues to favor the odor of natural body secretions, such as sweat, urine, and feces. In certain perversions, a pungent smell is required for sexual arousal and orgasm. Before psychotropic medications were available, regressed schizophrenic patients were frequently observed to be preoccupied with their own excretions, hoarding feces, smearing them on their bodies and even eating them. We can thus hypothesize that the developing ego represses the excitement associated with odors of natural body secretions, along with other libidinal impulses of the preoedipal period, and institutes a defensive modification of what is considered a pleasurable smell. In certain pathological states, the ego regresses and we can observe pleasurable sensations associated with odors usually considered repulsive.

In conclusion, strong connections exist between olfaction and human sexual behavior. In psychiatric practice, we often hear interesting olfactory data from our patients and are told how the sense of smell affects their existence. Childhood research material indicates that the perception of smell passes through certain developmental stages and, like other aspects of sexuality, is subject to repression and other modifications by the developing ego. When the outcome of such modification is normal, the odors once considered exciting will become offensive. Odors of different quality become stimulating in normal adulthood, yet personal preferences probably continue to depend on childhood memories of odors. In pathological cases the modification of olfaction by the ego is arrested or incomplete, and one sees various inappropriate behavior. Anatomic and physiologic similarities and connections between the olfactory and sexual apparatus have been demonstrated. This connection has also been extensively utilized in literature and art. The role of pheromones in human sexual behavior is not established.
REFERENCES


