On Yawning; or, The Hidden Sexuality of the Human Yawn

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[EDITOR’S NOTE: This is a specially abridged version of the Ph.D. dissertation which the author defended (successfully!) on October 27, 2004. Dr. Seuntjens can be reached at <seuntjens@baillement.com>. The web site www.baillement.com is a lavish compendium of information about yawning.]

In science, the yawn has not received its due attention. In this investigation I provide (1) a systematic-encyclopedic overview of all available knowledge about yawning. The fields from which I derive my data are linguistics (semantics, etymology), sociology, psychology, the medical sciences (anatomy, physiology, pathology, and pharmacology), and the arts (literature, film, visual arts). Then, I (2) associate a number of these data in order to (3) test the hypothesis that yawning has an erotic side, a sexual aspect.

A Taboo, an Unsolved Riddle

The mass of data that I present in the encyclopedic overview makes one thing clear: there is no good explanation for yawning.

As regards physiology: the hypoxia and hypercapnia theories -- these long-untested theories that also figure prominently in common-sense notions -- were conclusively refuted by Robert Provine and his collaborators (Provine, Tate, and Geldmacher 1987). The now popular theory that yawning leads to wakefulness (‘arousal defense reflex,’ Askenasy 1989) is not without its problems (Regehr, Ogilvie, and Simons 1992).

In the paragraphs on pathology and pharmacology I enumerate so many different illnesses and disorders that are associated with increased yawning that for the moment it is impossible to extract a common factor. The same goes for the very many chemical substances that induce yawning (Crenshaw and Goldberg 1996: 415; Argiolas and Melis 1998: 12). What this common pharmacological factor, if there is one, constitutes, remains unclear.
In the chapter on the psychology of yawning I discuss various subthemes of which the most concrete are: contagiousness, non-verbal behavior, and conditionability. Neither of these subthemes has been completely clarified. Psychologically, too, the yawn is still very much an unsolved riddle.

In the chapter on the sociology of the yawn I note that the yawn is (quasi-)universally taboo. The reason why this is so remains shrouded in mystery: the various rationales given -- superstitious, hygienic, aesthetic, psychological -- are all implausible. The ethological rationale (bared teeth) may turn out to provide the best explanation for the taboo of yawning.

As a preliminary conclusion we may therefore state that Reber’s Law applies perfectly to the hitherto considered trivial behavior of yawning: the closer the yawn is examined, the more complex it is seen to be (Reber 1985: 618). In fact, we have really no idea what causes yawning and what purpose yawning serves or what mechanisms are responsible for yawning and even what the essential anatomical constituents of yawning are. In the age in which the human genome has been deciphered and space travel has become almost trite this verdict may sound like an affront.

**Eroticism-Sexuality**

Yet, in the light of the hypothesis that yawning has an erotic side, it becomes clear that in the data that I gathered there is at least one recurrent theme: eroticism-sexuality.

I found that both the ‘yawn’ and the ‘stretch’ of the stretch-yawn syndrome (SYS) are semantically and etymologically associated with ‘desire’ and ‘longing for’ (de Vries 1991: 142).

In several proverbs and sayings yawning -- and especially contagious yawning -- is interpreted as a clue of something more than just sympathy, that is, as a sign of being in love (Schlossar 1891: 402; Hand 1981, no. 12964; Beyer 1985: 187).

Yawning was both linked with acedia-boredom and with *luxuria* (lechery) and passion. As a non-verbal behavior the yawn was found to figure -- be it consciously or unconsciously -- in the courtship process (Howell 1659: 14; Mantegazza 1890: 126; Féré 1905; Givens 1978). That this is not a purely recent or western phenomenon was illustrated by passages from ancient Indian literature (Vatsyayana 1965; Biharial 1990; Kesavadasa 1993).

Not surprisingly perhaps, the few psychoanalysts and depth-psychologists who did mention the yawn interpreted it as a latent sexual signal (Meerloo 1955: 65; Marcus 1973; Felstein 1976).

Ethological studies in primates found a clear relationship between yawn-frequency and hierarchical status (Bielert 1978; Hadidian 1980; Depute 1994) and between yawn-frequency and the serum level of testosterone (Chambers and Phoenix 1981).

In discussing anatomy and physiology I recounted that Chouard and Bigot-Massoni (1990: 146, 152) described the feeling that accompanies the acme of yawning as a ‘mini orgasm’. Moreover, the same authors concluded: “Let us remember in conclusion its intimate and unconscious relation with sexual life, […]” (ibidem).

In discussing pathology I discovered that yawning and spontaneous ejaculation were mentioned concomitantly in terminal rabies (Beek 1969: 127).

In discussing pharmacology I found a link between yawning and spontaneous orgasm in withdrawal from heroin addiction (Parr 1976). Likewise, yawning and sexual response (SR) were associated as clinical side effects of several antidepressant drugs. In one publication an undeniable causal relation was reported: both spontaneous and intentional yawning provoked instantaneous ejaculation-orgasm (McLean, Forsythe, and Kapkin 1983). In experiments with animals many more substances were seen to induce, sometimes simultaneously, both SYS and SR. Moreover, in humans apomorphine induces both SYS and SR (Lal et al. 1989).

In the chapter on yawning and the arts, I discussed, in a somewhat more conjectural manner, the conspicuously erotic sigh and the equally erotic posture X. I argued for the interpretation of the sigh and posture X as the auditory and visual proxies for the SYS.

**My Conclusions About Yawning**

It is because of the critical mass of circumstantial evidence that was accumulated that all these data, passages, and quotations take on an ambivalent or double meaning. Nowhere is that clearer than in the use of the words ‘yawning’ and ‘stretching’ in the poetry of W. B. Yeats (1989 [1929]: 379), as for instance in:

O cruel Death give three things back,

[...]
Three dear things that women know,
[...] The third thing that I think of yet,
[...] Is that morning when I met
Face to face my rightful man
And did after stretch and yawn.

And what to think of the following passage taken from *The Prime of Miss Jean Brodie* by Muriel Spark (1967 [1961]: 59) in which the pupils Jenny and Sandy discuss their teacher’s love life?

For this reason she was more reticent than Jenny about the details of the imagined love affair. Jenny whispered, ‘They go to bed. Then he puts out the light. Then their toes touch. And then Miss Brodie… Miss Brodie…’ She broke into giggles.

‘Miss Brodie yawns,’ said Sandy in order to restore decency, now that she suspected it was all true.

This, of course, does not mean that every yawn can be interpreted as erotic or even sexual: “There are times when a yawn is simply a yawn.” (Even if a ‘simple’ yawn is not simple at all.)

In ‘The Thinking of Thoughts: What is *Le Penseur* Doing?’ Gilbert Ryle (1971: 480) presented the example of the blink of an eye to illustrate the necessity to interpret individual behavioral acts. Equally, we cannot but interpret every individual yawn as the occasion arises. In everyday life each and every individual yawn must be interpreted, as it cannot be ascribed to one specific cause, or be explained with total certainty. Likewise, we face a ‘prediction barrier’ in experiment and observation when predicting individual yawns.

In summary, the two foremost conclusions of my investigation are (1) the yawn is -- contrary to common-sense ideas -- far from trivial; yawning is an extremely complex behavior. (2) The yawn -- and this clashes even more with common-sense notions -- appears to have an erotic side, a sexual aspect.

**Bibliography**


*Physiognomy and Expression*, Paolo Mantegazza, London: Scott, 1890.


The phenomenon of yawning has been celebrated by songwriters, as well as scientists. This sheet music, for Harry Banks’ “Yawning Song,” was published in 1882.
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