[Template:Other uses](/wiki/Template:Other_uses" \o "Template:Other uses) [Template:Pp-semi-indef](/wiki/Template:Pp-semi-indef) [Template:Pp-move-indef](/wiki/Template:Pp-move-indef) [thumb|300px|](/wiki/File:Podkowiński-Szał_uniesień-MNK.jpg)[*Frenzy of Exultations*](/wiki/Frenzy_of_Exultations) (1894), by [Władysław Podkowiński](/wiki/Władysław_Podkowiński)

**Orgasm** (from [Greek](/wiki/Ancient_Greek) ὀργασμός *orgasmos* "excitement, swelling"; also **sexual climax**) is the sudden discharge of accumulated sexual excitement during the [sexual response cycle](/wiki/Human_sexual_response_cycle), resulting in rhythmic [muscular contractions](/wiki/Muscle_contraction) in the [pelvic](/wiki/Human_pelvis) region characterized by sexual pleasure.[[1]](#cite_note-1)[[2]](#cite_note-2)[[3]](#cite_note-3) Experienced by males and females, orgasms are controlled by the involuntary or [autonomic nervous system](/wiki/Autonomic_nervous_system). They are often associated with other involuntary actions, including muscular [spasms](/wiki/Spasm) in multiple areas of the body, a general [euphoric](/wiki/Euphoria) sensation and, frequently, body movements and vocalizations.[[2]](#cite_note-2) The period after orgasm (known as the [refractory period](/wiki/Refractory_period_(sex))) is often a relaxing experience, attributed to the release of the [neurohormones](/wiki/Neurohormone) [oxytocin](/wiki/Oxytocin) and [prolactin](/wiki/Prolactin) as well as [endorphins](/wiki/Endorphins) (or "endogenous [morphine](/wiki/Morphine)").[[4]](#cite_note-4) Human orgasms usually result from physical [sexual stimulation](/wiki/Sexual_stimulation) of the [penis](/wiki/Human_penis) in males (typically accompanying [ejaculation](/wiki/Ejaculation)), and the [clitoris](/wiki/Clitoris) in females.[[2]](#cite_note-2)[[5]](#cite_note-5)[[6]](#cite_note-6) Sexual stimulation can be by self-practice ([masturbation](/wiki/Masturbation)) or with a [sex partner](/wiki/Sex_partner) ([penetrative sex](/wiki/Sexual_penetration), [non-penetrative sex](/wiki/Non-penetrative_sex), or other [sexual activity](/wiki/Human_sexual_activity)).

The health effects surrounding the human orgasm are diverse. There are many physiological responses during sexual activity, including a relaxed state created by prolactin, as well as changes in the [central nervous system](/wiki/Central_nervous_system) such as a temporary decrease in the [metabolic](/wiki/Metabolism) activity of large parts of the [cerebral cortex](/wiki/Cerebral_cortex) while there is no change or increased metabolic activity in the [limbic](/wiki/Limbic_system) (i.e., "bordering") areas of the brain.[[7]](#cite_note-7) There is also a wide range of [sexual dysfunctions](/wiki/Sexual_dysfunction), such as [anorgasmia](/wiki/Anorgasmia). These effects impact cultural views of orgasm, such as the beliefs that orgasm and the frequency/consistency of it are important or irrelevant for satisfaction in a sexual relationship,[[8]](#cite_note-8) and theories about the biological and evolutionary functions of orgasm.[[9]](#cite_note-9)[[10]](#cite_note-10) Orgasm in non-human animals has been studied significantly less than orgasm in humans, but research on the subject is ongoing.

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## Definitions[[edit](/index.php?title=(none)&action=edit&section=1)]

In a clinical context, orgasm is usually defined strictly by the muscular contractions involved during sexual activity, along with the characteristic patterns of change in heart rate, blood pressure, and often respiration rate and depth.[[1]](#cite_note-1) This is categorized as the sudden discharge of accumulated sexual tension during the [sexual response cycle](/wiki/Human_sexual_response_cycle), resulting in rhythmic muscular contractions in the pelvic region.[[1]](#cite_note-1)[[2]](#cite_note-2)[[3]](#cite_note-3) However, definitions of orgasm vary and there is sentiment that consensus on how to consistently classify it is absent.<ref name=levine\_orgasm>[Template:Cite journal](/wiki/Template:Cite_journal)</ref> At least twenty-six definitions of orgasm were listed in the journal [*Clinical Psychology Review*](/wiki/Clinical_Psychology_Review).<ref name=mah\_&\_binik>[Template:Cite journal](/wiki/Template:Cite_journal)</ref>

There is some debate whether certain types of sexual sensations should be accurately classified as orgasms, including female orgasms caused by [G-spot](/wiki/G-spot) stimulation alone, and the demonstration of extended or continuous orgasms lasting several minutes or even an hour.[[11]](#cite_note-11) The question centers around the clinical definition of orgasm, but this way of viewing orgasm is merely physiological, while there are also psychological, endocrinological, and neurological definitions of orgasm.[[12]](#cite_note-12) In these and similar cases, the sensations experienced are subjective and do not necessarily involve the involuntary contractions characteristic of orgasm. However, the sensations in both sexes are extremely pleasurable and are often felt throughout the body, causing a mental state that is often described as transcendental, and with [vasocongestion](/wiki/Vasocongestion) and associated pleasure comparable to that of a full-contractionary orgasm. For example, modern findings support distinction between ejaculation and male orgasm.[[2]](#cite_note-2)<ref name=mah\_&\_binik/> For this reason, there are views on both sides as to whether these can be accurately defined as orgasms.[[12]](#cite_note-12)

## Achieving orgasm[[edit](/index.php?title=(none)&action=edit&section=2)]

### In general[[edit](/index.php?title=(none)&action=edit&section=3)]

Orgasms can be achieved by a variety of activities, including [vaginal](/wiki/Sexual_intercourse), [anal](/wiki/Anal_sex) or [oral](/wiki/Oral_sex) sex, [non-penetrative sex](/wiki/Non-penetrative_sex) or masturbation. Orgasm may also be achieved by the use of a [sex toy](/wiki/Sex_toy), such as a [sensual vibrator](/wiki/Vibrator_(sex_toy)) or an [erotic electrostimulation](/wiki/Erotic_electrostimulation). It can additionally be achieved by stimulation of the [nipples](/wiki/Nipple), [uterus](/wiki/Uterus), or other [erogenous zones](/wiki/Erogenous_zone), though this is rarer.[[13]](#cite_note-13)[[14]](#cite_note-14) In addition to physical stimulation, orgasm can be achieved from psychological arousal alone, such as during dreaming (nocturnal emission for males or females)[[12]](#cite_note-12)[[15]](#cite_note-15) or by [orgasm control](/wiki/Orgasm_control). Orgasm by psychological stimulation alone was first reported among people who had [spinal cord injury](/wiki/Spinal_cord_injury).[[15]](#cite_note-15) Although sexual function and [sexuality after spinal cord injury](/wiki/Sexuality_after_spinal_cord_injury) is very often impacted, this injury does not deprive one of sexual feelings such as [sexual arousal](/wiki/Sexual_arousal) and erotic desires.[[15]](#cite_note-15) A person may experience multiple orgasms,[[16]](#cite_note-16)[[17]](#cite_note-17)[[2]](#cite_note-2) or an involuntary orgasm, such as in the case of [rape](/wiki/Rape) or other [sexual assault](/wiki/Sexual_assault). An involuntary orgasm from forced sexual contact often results in feelings of [shame](/wiki/Shame) caused by internalization of [victim-blaming](/wiki/Victim_blaming) attitudes.[[18]](#cite_note-18)[[19]](#cite_note-19) The incidence of those who experience unsolicited sexual contact and experience orgasm is very low, though possibly under-reported due to shame or embarrassment; such orgasms additionally happen regardless of gender.[[19]](#cite_note-19) Scientific literature focuses on the psychology of female orgasm significantly more than it does on the psychology of male orgasm, which "appears to reflect the assumption that female orgasm is psychologically more complex than male orgasm," but "the limited empirical evidence available suggests that male and female orgasm may bear more similarities than differences. In one controlled study by Vance and Wagner (1976), independent raters could not differentiate written descriptions of male versus female orgasm experiences".[[12]](#cite_note-12)

### In males[[edit](/index.php?title=(none)&action=edit&section=4)]

#### General variabilities[[edit](/index.php?title=(none)&action=edit&section=5)]

In men, the most common way of achieving orgasm is by physical sexual stimulation of the [penis](/wiki/Human_penis).[[2]](#cite_note-2) This is usually accompanied by [ejaculation](/wiki/Ejaculation), but it is possible, though also rare, for men to orgasm without ejaculation (known as a "dry orgasm") or to ejaculate without reaching orgasm (which may be a case of [delayed ejaculation](/wiki/Delayed_ejaculation), a [nocturnal emission](/wiki/Nocturnal_emission) or a case of [anorgasmic ejaculation](/wiki/Anorgasmia)).[[2]](#cite_note-2)[[17]](#cite_note-17) Men may also achieve orgasm by stimulation of the [prostate](/wiki/Prostate) ([see below](/wiki/#Anal_and_nipple_stimulation_in_males_and_females)).[[16]](#cite_note-16)[[2]](#cite_note-2)

#### Two-stage model[[edit](/index.php?title=(none)&action=edit&section=6)]

The traditional view of male orgasm is that there are two stages: emission following orgasm, almost instantly followed by a [refractory period](/wiki/Refractory_period_(sex)).[[17]](#cite_note-17) In 1966, [Masters and Johnson](/wiki/Masters_and_Johnson) published pivotal research about the phases of sexual stimulation.<ref name=M&J/>[[20]](#cite_note-20) Their work included women and men, and, unlike [Alfred Kinsey](/wiki/Alfred_Kinsey) in 1948 and 1953,[[21]](#cite_note-21) tried to determine the [physiological](/wiki/Physiology) stages before and after orgasm.

Masters and Johnson argued that, in the first stage, "accessory organs contract and the male can feel the ejaculation coming; two to three seconds later the ejaculation occurs, which the man cannot constrain, delay, or in any way control" and that, in the second stage, "the male feels pleasurable contractions during ejaculation, reporting greater pleasure tied to a greater volume of ejaculate".[[17]](#cite_note-17) They reported that, unlike females, "for the man the resolution phase includes a superimposed refractory period" and added that "many males below the age of 30, but relatively few thereafter, have the ability to ejaculate frequently and are subject to only very short refractory periods during the resolution phase". Masters and Johnson equated male orgasm and ejaculation and maintained the necessity for a refractory period between orgasms.[[17]](#cite_note-17)

#### Subsequent and multiple orgasms[[edit](/index.php?title=(none)&action=edit&section=7)]

There has been little scientific study of multiple orgasm in men.[[16]](#cite_note-16) In contrast to the two-stage model of male orgasm, Kahn (1939) equalized orgasm and ejaculation and stated that several orgasms can occur and that "indeed, some men are capable of following [an orgasm] up with a third and a fourth" orgasm.[[17]](#cite_note-17) Though it is rare for men to achieve multiple orgasms,[[2]](#cite_note-2) Kahn's assertion that some men are capable of achieving them is supported by men who have reported having multiple, consecutive orgasms, particularly without ejaculation.[[17]](#cite_note-17) Males who experience dry orgasms can often produce multiple orgasms, as the refractory period is reduced.[[17]](#cite_note-17) An increased infusion of the [hormone](/wiki/Hormone) [oxytocin](/wiki/Oxytocin) during ejaculation is believed to be chiefly responsible for the refractory period, and the amount by which oxytocin is increased may affect the length of each refractory period.[[22]](#cite_note-22) Another chemical which is considered to be responsible for the male refractory period is [prolactin](/wiki/Prolactin),[[2]](#cite_note-2)[[23]](#cite_note-23) which represses [dopamine](/wiki/Dopamine), which is responsible for sexual arousal.[[23]](#cite_note-23) Because of this, there is currently an experimental interest in drugs which inhibit prolactin, such as [cabergoline](/wiki/Cabergoline) (also known as Cabeser or Dostinex). Anecdotal reports on cabergoline suggest it may be able to eliminate the refractory period altogether, allowing men to experience multiple ejaculatory orgasms in rapid succession. At least one scientific study supports these claims,[[24]](#cite_note-24) although cabergoline is a hormone-altering drug and has many potential side effects. It has not been approved for treating sexual dysfunction.[[24]](#cite_note-24) Another possible reason for the lack or absence of a refractory period in men may be an increased infusion of the hormone [oxytocin](/wiki/Oxytocin). It is believed that the amount by which oxytocin is increased may affect the length of each refractory period. A scientific study to successfully document natural, fully ejaculatory, multiple orgasms in an adult man was conducted at [Rutgers University](/wiki/Rutgers_University) in 1995. During the study, six fully ejaculatory orgasms were experienced in 36 minutes, with no apparent refractory period.[[2]](#cite_note-2)[[25]](#cite_note-25) Later, P. Haake et al. observed a single male individual producing multiple orgasms without elevated prolactin response.[[26]](#cite_note-26) A man might refrain from ejaculation by putting pressure on the [perineum](/wiki/Perineum), about halfway between the [scrotum](/wiki/Scrotum) and the anus, just before ejaculating. This can, however, lead to [retrograde ejaculation](/wiki/Retrograde_ejaculation), i.e., redirecting semen into the [urinary bladder](/wiki/Urinary_bladder) rather than through the [urethra](/wiki/Urethra) to the outside. Men who have had prostate or bladder surgery, for whatever reason, may also experience dry orgasms because of retrograde ejaculation.

### In females[[edit](/index.php?title=(none)&action=edit&section=8)]

[thumb|right|*Study for Pasadena Lifesavers,* prismacolor, 1968.](/wiki/File:Pasadenalifesaversstudy.jpg) [Judy Chicago](/wiki/Judy_Chicago) created the *Pasadena Lifesavers,* a series of abstract paintings that blended colors to create an illusion that the shapes "turn, dissolve, open, close, vibrate, gesture, wiggle," to represent her own discovery that she was multi-orgasmic.

#### General orgasmic factors and variabilities[[edit](/index.php?title=(none)&action=edit&section=9)]

In women, the most common way to achieve orgasm is by physical sexual stimulation of the [clitoris](/wiki/Clitoris); general statistics indicate that 70–80 percent of women require direct clitoral stimulation (consistent [manual](/wiki/Fingering_(sexual_act)), [oral](/wiki/Oral_sex) or other concentrated friction against the external parts of the clitoris) to achieve orgasm,[[27]](#cite_note-27)[[28]](#cite_note-28)[[29]](#cite_note-29)[[30]](#cite_note-30) though indirect clitoral stimulation (for example, via [vaginal](/wiki/Vagina) penetration) may also be sufficient.[[6]](#cite_note-6)[[31]](#cite_note-31) The [Mayo Clinic](/wiki/Mayo_Clinic) stated, "Orgasms vary in intensity, and women vary in the frequency of their orgasms and the amount of stimulation necessary to trigger an orgasm."[[32]](#cite_note-32) Clitoral orgasms are easier to achieve because the [glans of the clitoris](/wiki/Clitoral_glans), or clitoris as a whole, has more than 8,000 sensory [nerve endings](/wiki/Nerve), which is as many (or more in some cases) nerve endings present in the human penis or [glans penis](/wiki/Glans_penis).[[33]](#cite_note-33)[[34]](#cite_note-34) As the clitoris is [homologous](/wiki/Homology_(biology)) to the penis, it is the equivalent in its capacity to receive sexual stimulation.[[35]](#cite_note-35)[[36]](#cite_note-36) One misconception, particularly in older research publications, is that the vagina is completely insensitive.[[37]](#cite_note-37) However, there are areas in the anterior vaginal wall and between the top junction of the [labia minora](/wiki/Labia_minora) and the [urethra](/wiki/Urethra) that are especially sensitive.[[38]](#cite_note-38) With regard to specific density of nerve endings, while the area commonly described as the [G-spot](/wiki/G-spot) may produce an orgasm,[[2]](#cite_note-2)[[39]](#cite_note-39) and the [urethral sponge](/wiki/Urethral_sponge), an area in which the G-spot may be found, runs along the "roof" of the vagina and can create pleasurable sensations when stimulated, intense sexual pleasure (including orgasm) from vaginal stimulation is occasional or otherwise absent because the vagina has significantly fewer nerve endings than the clitoris.[[5]](#cite_note-5)[[40]](#cite_note-40)[[41]](#cite_note-41) The greatest concentration of vaginal nerve endings are at the lower third (near the entrance) of the vagina.[[2]](#cite_note-2)[[5]](#cite_note-5)[[42]](#cite_note-42)[[43]](#cite_note-43) [Sex educator](/wiki/Sex_educator) Rebecca Chalker states that only one part of the clitoris, the urethral sponge, is in contact with the penis, fingers, or a [dildo](/wiki/Dildo) in the vagina.[[44]](#cite_note-44) Hite and Chalker state that the tip of the clitoris and the inner lips, which are also very sensitive, are not receiving direct stimulation during penetrative intercourse.[[44]](#cite_note-44)[[45]](#cite_note-45) Because of this, some couples may engage in the [woman on top position](/wiki/Woman_on_top) or the [coital alignment technique](/wiki/Coital_alignment_technique) to maximize clitoral stimulation.[[46]](#cite_note-46)[[47]](#cite_note-47) For some women, the clitoris is very sensitive after climax, making additional stimulation initially painful.[[48]](#cite_note-48) Masters and Johnson argued that all women are potentially multiply orgasmic, but that multiply orgasmic men are rare, and stated that "the female is capable of rapid return to orgasm immediately following an orgasmic experience, if restimulated before tensions have dropped below plateau phase response levels".[[17]](#cite_note-17) Though generally reported that women do not experience a [refractory period](/wiki/Refractory_period_(sex)) and thus can experience an additional orgasm, or multiple orgasms, soon after the first one,[[2]](#cite_note-2)<ref name=soc>[Template:Cite journal](/wiki/Template:Cite_journal)</ref> some sources state that both men and women experience a refractory period because women may also experience a period after orgasm in which further sexual stimulation does not produce excitement.[[49]](#cite_note-49)[[50]](#cite_note-50) After the initial orgasm, subsequent orgasms for women may be stronger or more pleasurable as the stimulation accumulates.[[48]](#cite_note-48)

#### Clitoral and vaginal categories[[edit](/index.php?title=(none)&action=edit&section=10)]

Discussions of female orgasm are complicated by orgasms in women typically being divided into two categories: clitoral orgasm and vaginal (or G-spot) orgasm.[[12]](#cite_note-12)[[43]](#cite_note-43) In 1973, [Irving Singer](/wiki/Irving_Singer) theorized that there are three types of female orgasms; he categorized these as [vulval](/wiki/Vulva), uterine, and blended, but because he was a philosopher, "these categories were generated from descriptions of orgasm in literature rather than laboratory studies".[[2]](#cite_note-2) In 1982, Ladas, [Whipple](/wiki/Beverly_Whipple) and Perry also proposed three categories: the tenting type (derived from clitoral stimulation), the A-frame type (derived from G-spot stimulation), and the blended type (derived from clitoral and G-spot stimulation).[[51]](#cite_note-51) In 1999, Whipple and Komisaruk proposed [cervix](/wiki/Cervix) stimulation as being able to cause a fourth type of female orgasm.[[51]](#cite_note-51) Female orgasms by means other than clitoral or vaginal/G-spot stimulation are less prevalent in scientific literature[[12]](#cite_note-12) and most scientists contend that no distinction should be made between "types" of female orgasm.[[43]](#cite_note-43) This distinction began with [Sigmund Freud](/wiki/Sigmund_Freud), who postulated the concept of "vaginal orgasm" as separate from clitoral orgasm. In 1905, Freud stated that clitoral orgasms are purely an adolescent phenomenon and that upon reaching puberty, the proper response of mature women is a change-over to vaginal orgasms, meaning orgasms without any clitoral stimulation. While Freud provided no evidence for this basic assumption, the consequences of this theory were considerable. Many women felt inadequate when they could not achieve orgasm via vaginal intercourse alone, involving little or no clitoral stimulation, as Freud's theory made penile-vaginal intercourse the central component to women's sexual satisfaction.[[52]](#cite_note-52)[[53]](#cite_note-53)[[54]](#cite_note-54)[[55]](#cite_note-55) The first major national surveys of sexual behavior were the [Kinsey Reports](/wiki/Kinsey_Reports).[[21]](#cite_note-21) [Alfred Kinsey](/wiki/Alfred_Kinsey) was the first researcher to harshly criticize Freud's ideas about female sexuality and orgasm when, through his interviews with thousands of women,[[21]](#cite_note-21) Kinsey found that most of the women he surveyed could not have vaginal orgasms.[[53]](#cite_note-53) He "criticized Freud and other theorists for projecting male constructs of sexuality onto women" and "viewed the clitoris as the main center of sexual response" and the vagina as "relatively unimportant" for sexual satisfaction, relaying that "few women inserted fingers or objects into their vaginas when they masturbated". He "concluded that satisfaction from penile penetration [is] mainly psychological or perhaps the result of referred sensation".[[53]](#cite_note-53) Masters and Johnson's research into the female [sexual response cycle](/wiki/Human_sexual_response_cycle), as well as [Shere Hite's](/wiki/Shere_Hite), generally supported Kinsey's findings about female orgasm.[[45]](#cite_note-45)[[53]](#cite_note-53)[[56]](#cite_note-56)[[57]](#cite_note-57) Masters and Johnson's research on the topic came at the time of the [second-wave feminist movement](/wiki/Second-wave_feminism), and inspired feminists such as [Anne Koedt](/wiki/Anne_Koedt), author of [*The Myth of the Vaginal Orgasm*](/wiki/The_Myth_of_the_Vaginal_Orgasm), to speak about the "false distinction" made between clitoral and vaginal orgasms and women's biology not being properly analyzed.[[58]](#cite_note-58)

#### Clitoral and vaginal relationships[[edit](/index.php?title=(none)&action=edit&section=11)]

[Template:Further](/wiki/Template:Further) Accounts that the vagina is capable of producing orgasms continue to be subject to debate because, in addition to the vagina's low concentration of nerve endings, reports of the G-spot's location are inconsistent—it appears to be nonexistent in some women and may be an extension of another structure, such as the [Skene's gland](/wiki/Skene's_gland) or the clitoris, which is a part of the Skene's gland.[[6]](#cite_note-6)[[37]](#cite_note-37)[[41]](#cite_note-41)[[59]](#cite_note-59) In a January 2012 [*The Journal of Sexual Medicine*](/wiki/The_Journal_of_Sexual_Medicine) review examining years of research into the existence of the G-spot, scholars stated that "[r]eports in the public media would lead one to believe the G-spot is a well-characterized entity capable of providing extreme sexual stimulation, yet this is far from the truth".[[41]](#cite_note-41) Possible explanations for the G-spot were examined by Masters and Johnson, who were the first researchers to determine that the clitoral structures surround and extend along and within the labia. In addition to observing that the majority of their female subjects could only have clitoral orgasms, they found that both clitoral and vaginal orgasms had the same stages of physical response. On this basis, they argued that clitoral stimulation is the source of both kinds of orgasms,[[56]](#cite_note-56)[[57]](#cite_note-57) reasoning that the clitoris is stimulated during penetration by friction against its hood; their notion that this provides the clitoris with sufficient sexual stimulation has been criticized by researchers such as [Elisabeth Lloyd](/wiki/Elisabeth_Lloyd).[[31]](#cite_note-31) Australian [urologist](/wiki/Urology) Helen O'Connell's 2005 research additionally indicates a connection between orgasms experienced vaginally and the clitoris, suggesting that clitoral tissue extends into the anterior wall of the vagina and that therefore clitoral and vaginal orgasms are of the same origin.[[6]](#cite_note-6) Some studies, using [ultrasound](/wiki/Ultrasound), have found physiological evidence of the G-spot in women who report having orgasms during vaginal intercourse,[[39]](#cite_note-39)[[60]](#cite_note-60) but O'Connell suggests that the clitoris's interconnected relationship with the vagina is the physiological explanation for the conjectured G-spot. Having used [MRI](/wiki/Magnetic_resonance_imaging) technology which enabled her to note a direct relationship between the legs or roots of the clitoris and the erectile tissue of the "clitoral bulbs" and corpora, and the distal urethra and vagina, she stated that the vaginal wall is the clitoris; that lifting the skin off the vagina on the side walls reveals the bulbs of the clitoris—triangular, crescental masses of erectile tissue.[[6]](#cite_note-6) O'Connell et al., who performed dissections on the female genitals of [cadavers](/wiki/Cadaver) and used photography to map the structure of nerves in the clitoris, were already aware that the clitoris is more than just its glans and asserted in 1998 that there is more erectile tissue associated with the clitoris than is generally described in anatomical textbooks.[[40]](#cite_note-40)[[56]](#cite_note-56) They concluded that some females have more extensive clitoral tissues and nerves than others, especially having observed this in young cadavers as compared to elderly ones,[[40]](#cite_note-40)[[56]](#cite_note-56) and therefore whereas the majority of females can only achieve orgasm by direct stimulation of the external parts of the clitoris, the stimulation of the more generalized tissues of the clitoris via intercourse may be sufficient for others.[[6]](#cite_note-6) French researchers Odile Buisson and Pierre Foldès reported similar findings to that of O'Connell's. In 2008, they published the first complete 3D [sonography](/wiki/Medical_ultrasonography) of the stimulated clitoris, and republished it in 2009 with new research, demonstrating the ways in which erectile tissue of the clitoris engorges and surrounds the vagina, arguing that women may be able to achieve vaginal orgasm via stimulation of the G-spot because the highly innervated clitoris is pulled closely to the anterior wall of the vagina when the woman is sexually aroused and during vaginal penetration. They assert that since the front wall of the vagina is inextricably linked with the internal parts of the clitoris, stimulating the vagina without activating the clitoris may be next to impossible.[[37]](#cite_note-37)[[39]](#cite_note-39)[[61]](#cite_note-61)[[62]](#cite_note-62) In their 2009 published study, the "coronal planes during perineal contraction and finger penetration demonstrated a close relationship between the root of the clitoris and the anterior vaginal wall". Buisson and Foldès suggested "that the special sensitivity of the lower anterior vaginal wall could be explained by pressure and movement of clitoris's root during a vaginal penetration and subsequent perineal contraction".[[39]](#cite_note-39)[[62]](#cite_note-62) Supporting a distinct G-spot is a study by [Rutgers University](/wiki/Rutgers_University), published 2011, which was the first to map the female genitals onto the sensory portion of the brain;[[14]](#cite_note-14) brain scans showed that the brain registered distinct feelings between stimulating the clitoris, the cervix and the vaginal wall – where the G-spot is reported to be – when several women stimulated themselves in a [functional magnetic resonance](/wiki/Functional_magnetic_resonance_imaging) (fMRI) machine.[[14]](#cite_note-14)[[37]](#cite_note-37) "I think that the bulk of the evidence shows that the G-spot is not a particular thing," stated Barry Komisaruk, head of the research findings. "It's not like saying, 'What is the thyroid gland?' The G-spot is more of a thing like New York City is a thing. It's a region, it's a convergence of many different structures."[[41]](#cite_note-41) Commenting on Komisaruk's research and other findings, Emmanuele Jannini, a professor of endocrinology at the University of Aquila in Italy, acknowledged a series of essays published in March 2012 in *The Journal of Sexual Medicine*, which document evidence that vaginal and clitoral orgasms are separate phenomena that activate different areas of the brain and possibly suggest key psychological differences between women.[[37]](#cite_note-37)

#### Other factors and research[[edit](/index.php?title=(none)&action=edit&section=12)]

Regular difficulty reaching orgasm after ample sexual stimulation, known as [anorgasmia](/wiki/Anorgasmia), is significantly more common in women than in men ([see below](/wiki/#Dysfunction_and_satisfaction)).[[32]](#cite_note-32) In addition to sexual dysfunction being a cause for women's inability to reach orgasm, or the amount of time for sexual arousal needed to reach orgasm being variable and longer in women than in men, other factors include a lack of communication between sexual partners about what is needed for the woman to reach orgasm, feelings of sexual inadequacy in either partner, a focus on only penetration (vaginal or otherwise), and men generalizing women's trigger for orgasm based on their own sexual experiences with other women.[[5]](#cite_note-5)[[10]](#cite_note-10)[[28]](#cite_note-28) Masters and Johnson found that men took about four minutes to reach orgasm with their partners. Women took about 10–20 minutes to reach orgasm with their partners, but four minutes to reach orgasm when they masturbated.[[5]](#cite_note-5) Scholars state "many couples are locked into the idea that orgasms should be achieved only through intercourse [vaginal sex]" and that "[e]ven the word [*foreplay*](/wiki/Foreplay) suggests that any other form of sexual stimulation is merely preparation for the 'main event.'... ...Because women reach orgasm through intercourse less consistently than men, they are more likely than men to have [faked an orgasm](/wiki/Fake_orgasm)".[[5]](#cite_note-5) Sex counselor [Ian Kerner](/wiki/Ian_Kerner) stated, "It's a myth that using the penis is the main way to pleasure a woman." He cites research concluding that women reach orgasm about 25% of the time with intercourse, compared with 81% of the time during oral sex ([cunnilingus](/wiki/Cunnilingus)).[[63]](#cite_note-63) In the first large-scale empirical study worldwide to link specific practices with orgasm, reported in the [*Journal of Sex Research*](/wiki/Journal_of_Sex_Research) in 2006, demographic and sexual history variables were comparatively weakly associated with orgasm. Data was analyzed from the Australian Study of Health and Relationships, a national telephone survey of sexual behavior and attitudes and sexual health knowledge carried out in 2001–2002, with a representative sample of 19,307 Australians aged 16 to 59. Practices included "vaginal intercourse alone (12%), vaginal + manual stimulation of the man's and/or woman's genitals (49%), and vaginal intercourse + manual + oral (32%)" and the "[e]ncounters may also have included other practices. Men had an orgasm in 95% of encounters and women in 69%. Generally, the more practices engaged in, the higher a woman's chance of having an orgasm. Women were more likely to reach orgasm in encounters including cunnilingus".[[64]](#cite_note-64) Other studies suggest that women exposed to lower levels of prenatal [androgens](/wiki/Androgen) are more likely to experience orgasm during vaginal intercourse than other women.[[10]](#cite_note-10)

### Anal and nipple stimulation in males and females[[edit](/index.php?title=(none)&action=edit&section=13)]

[Template:See also](/wiki/Template:See_also)

In both sexes, pleasure can be derived from the nerve endings around the anus and the anus itself, such as during [anal sex](/wiki/Anal_sex). It is possible for men to achieve orgasms through [prostate](/wiki/Prostate) stimulation alone.[[16]](#cite_note-16)[[2]](#cite_note-2)[[13]](#cite_note-13) The prostate is located next to the rectum and is the larger, more developed male [homologue](/wiki/Homology_(biology)) (variation) to the [Skene's glands](/wiki/Skene's_glands) (which are believed to be connected to the female G-spot).[[65]](#cite_note-65) Prostate stimulation can produce a "deeper" orgasm, described by some men as more widespread and intense, longer-lasting, and allowing for greater feelings of ecstasy than orgasm elicited by penile stimulation only.[[2]](#cite_note-2)[[13]](#cite_note-13) However, though the experiences are different, male orgasms by penile stimulation are also centered in the prostate gland.[[66]](#cite_note-66) Sex toys designed for prostate stimulation are, according to Wibowo and Wassersug, one of the means that help men achieve multiple orgasms.[[16]](#cite_note-16) The practice of [pegging](/wiki/Pegging_(sexual_practice)) (consisting of a woman penetrating a man's anus with a [strap-on dildo](/wiki/Strap-on_dildo)) stimulates the prostate. It is also common for men to not reach orgasm as receptive partners solely from anal sex, and it may be that it is typical that receptive male partners do not reach orgasm solely by this activity.[[67]](#cite_note-67) For women, other than nerve endings found within the anus and rectum, anal pleasure may be achieved through indirect stimulation of the [clitoral "legs"](/wiki/Crus_of_clitoris) — extensions of the clitoris that flank the urethra, urethral sponge, and vagina, and extend back toward the [pubis](/wiki/Pubis_(bone)). Indirect stimulation of the clitoris through anal penetration may be caused by the shared sensory nerves; especially the [pudendal nerve](/wiki/Pudendal_nerve), which gives off the [inferior anal nerves](/wiki/Inferior_anal_nerves) and divides into two terminal branches: the [perineal nerve](/wiki/Perineal_nerve) and the [dorsal nerve of the clitoris](/wiki/Dorsal_nerve_of_clitoris).[[13]](#cite_note-13) The G-spot area, considered to be interconnected with the clitoris,[[6]](#cite_note-6)[[13]](#cite_note-13)[[41]](#cite_note-41) may also be accessible through anal penetration; besides the shared anatomy of the aforementioned sensory nerves, orgasm by stimulation of the clitoris or G-spot area through anal penetration is made possible because of the close proximity between the vaginal cavity and the rectal cavity, allowing for general indirect stimulation.[[68]](#cite_note-68)[[69]](#cite_note-69) Achieving orgasm solely by anal stimulation is rare among women.[[70]](#cite_note-70)[[71]](#cite_note-71) Direct stimulation of the clitoris, G-spot area, or both, during anal sex can help some women enjoy the activity and reach orgasm from it.[[34]](#cite_note-34)[[69]](#cite_note-69) The aforementioned orgasms are sometimes referred to as *anal orgasms,*[[71]](#cite_note-71)[[72]](#cite_note-72) but sexologists and sex educators generally believe that orgasms derived from anal penetration are the result of the anus's proximity to the clitoris or G-spot in women, and the prostate in men, rather than orgasms originating from the anus itself.[[13]](#cite_note-13)[[69]](#cite_note-69)[[71]](#cite_note-71) Author Jack Morin, however, has postulated that "anal orgasm" has nothing to do with the prostate orgasm, although the two are often confused.[[73]](#cite_note-73) On rare occasions, stimulation of the [breast](/wiki/Breast) area during sexual intercourse or [foreplay](/wiki/Foreplay), or solely having the breasts fondled, creates mild to intense orgasms, sometimes referred to as a *breast orgasm* or *nipple orgasm*, in some women.[[14]](#cite_note-14) According to one study, by Herbert Otto, which questioned 213 women, 29% of them had experienced an orgasm of this kind at one time or another.[[74]](#cite_note-74) Research suggests that the sensations are genital orgasms caused by nipple stimulation, and may also be directly linked to "the genital area of the brain".[[14]](#cite_note-14)[[75]](#cite_note-75) An orgasm is believed to occur in part because of the hormone [oxytocin](/wiki/Oxytocin), which is produced in the body during sexual excitement and arousal. It has also been shown that oxytocin is produced when a man or woman's nipples are stimulated and become erect.[[76]](#cite_note-76) A study published in the July 2011 [*The Journal of Sexual Medicine*](/wiki/The_Journal_of_Sexual_Medicine) was the first to map the female genitals onto the sensory portion of the brain, and concluded that sensation from the nipples travels to the same part of the brain as sensations from the vagina, clitoris and cervix. "Four major nerves bring signals from women's genitals to their brains," said researcher Barry Komisaruk of [Rutgers University](/wiki/Rutgers_University). "The pudendal nerve connects the clitoris, the pelvic nerve carries signals from the vagina, the hypogastric nerve connects with the cervix and uterus, and the vagus nerve travels from the cervix and uterus without passing through the spinal cord (making it possible for some women to achieve orgasm even though they have had complete spinal cord injuries)." Komisaruk cited one reason for this possibility to be oxytocin, which is also released during labor and triggers uterus contractions. Nipple stimulation triggers uterine contractions, which then produce a sensation in the genital area of the brain. Komisaruk also relayed, however, that preliminary data suggests that nipple nerves may directly link up with the relevant parts of the brain without uterine mediation, acknowledging the men in his study who showed the same pattern of nipple stimulation activating genital brain regions.[[14]](#cite_note-14)

## Medical aspects[[edit](/index.php?title=(none)&action=edit&section=14)]

### Physiological responses[[edit](/index.php?title=(none)&action=edit&section=15)]

Masters and Johnson were some of the first researchers to study the sexual response cycle in the early 1960s, based on the observation of 382 women and 312 men. They described a cycle that begins with excitement as blood rushes into the genitals, then reaches a plateau during which they are fully aroused, which leads to orgasm, and finally resolution, in which the blood leaves the genitals.[[1]](#cite_note-1) In the 1970s, [Helen Singer Kaplan](/wiki/Helen_Singer_Kaplan) added the category of desire to the cycle, which she argued precedes sexual excitation. She stated that emotions of anxiety, defensiveness and the failure of communication can interfere with desire and orgasm.[[77]](#cite_note-77) In the late 1980s and after, Rosemary Basson proposed a more cyclical alternative to what had largely been viewed as linear progression.[[78]](#cite_note-78) In her model, desire feeds arousal and orgasm, and is in turn fueled by the rest of the orgasmic cycle. Rather than orgasm being the peak of the sexual experience, she suggested that it is just one point in the circle and that people could feel sexually satisfied at any stage, reducing the focus on climax as an end-goal of all sexual activity.[[79]](#cite_note-79)

#### Males[[edit](/index.php?title=(none)&action=edit&section=16)]

As a man nears orgasm during stimulation of the penis, he feels an intense and highly pleasurable pulsating sensation of [neuromuscular](/wiki/Neuromuscular_junction) [euphoria](/wiki/Euphoria). These pulses are a series of throbbing sensations of the [bulbospongiosus muscles](/wiki/Bulbospongiosus_muscle) that begin in the anal sphincter and travel to the [tip of the penis](/wiki/Glans_penis). They eventually increase in speed and intensity as the orgasm approaches, until a final "plateau" (the orgasmic) pleasure sustained for several seconds.[[17]](#cite_note-17) The length of a man's orgasm has been estimated at 10–15 seconds on average, though it is possible for them to last up to 30 seconds.

During orgasm, a human male experiences rapid, rhythmic contractions of the [anal sphincter](/wiki/Anus), the prostate, and the muscles of the penis. The [sperm](/wiki/Sperm) are transmitted up the [vas deferens](/wiki/Vas_deferens) from the [testicles](/wiki/Testicles), into the prostate gland as well as through the [seminal vesicles](/wiki/Seminal_vesicle) to produce what is known as [semen](/wiki/Semen).[[17]](#cite_note-17) The prostate produces a secretion that forms one of the components of ejaculate. Except for in cases of a dry orgasm, contraction of the sphincter and prostate force stored semen to be expelled through [the penis's urethral opening](/wiki/External_urethral_orifice_(male)). The process takes from three to ten seconds, and produces a pleasurable feeling.[[12]](#cite_note-12)[[17]](#cite_note-17) Ejaculation may continue for a few seconds after the euphoric sensation gradually tapers off. It is believed that the exact feeling of "orgasm" varies from one man to another.[[12]](#cite_note-12) Normally, as a man ages, the amount of semen he ejaculates diminishes, and so does the duration of orgasms. This does not normally affect the intensity of pleasure, but merely shortens the duration. After ejaculation, a refractory period usually occurs, during which a man cannot achieve another orgasm. This can last anywhere from less than a minute to several hours or days, depending on age and other individual factors.[[49]](#cite_note-49)[[50]](#cite_note-50)

#### Females[[edit](/index.php?title=(none)&action=edit&section=17)]

[thumb|right|200px|*Sinnenrausch* (ca. 1890), by](/wiki/File:ZmurkoFranciszek_Sinnenrausch.png) [Franciszek Żmurko](/wiki/Franciszek_Żmurko) A woman's orgasm may last slightly longer or much longer than a man's.[[48]](#cite_note-48)[[80]](#cite_note-80)[[81]](#cite_note-81) Women's orgasms have been estimated to last, on average, approximately 20 seconds, and to consist of a series of muscular contractions in the pelvic area that includes the vagina, the uterus, and the anus.[[80]](#cite_note-80) For some women, on some occasions, these contractions begin soon after the woman reports that the orgasm has started and continue at intervals of about one second with initially increasing, and then reducing, intensity. In some instances, the series of regular contractions is followed by a few additional contractions or shudders at irregular intervals.[[80]](#cite_note-80) In other cases, the woman reports having an orgasm, but no pelvic contractions are measured at all.[[82]](#cite_note-82) Women's orgasms are preceded by erection of the clitoris and moistening of the opening of the vagina. Some women exhibit a [sex flush](/wiki/Flushing_(physiology)), a reddening of the skin over much of the body due to increased blood flow to the skin. As a woman nears orgasm, the clitoral glans retracts under the [clitoral hood](/wiki/Clitoral_hood), and the [labia minora](/wiki/Labia_minora) (inner lips) become darker. As orgasm becomes imminent, the outer third of the vagina tightens and narrows, while overall the vagina lengthens and dilates and also becomes congested from engorged soft tissue.[[83]](#cite_note-83) Elsewhere in the body, [myofibroblasts](/wiki/Myofibroblast) of the nipple-[areolar](/wiki/Areolar_connective_tissue) complex contract, causing erection of the nipples and contraction of the areolar diameter, reaching their maximum at the start of orgasm.[[84]](#cite_note-84) A woman experiences full orgasm when her uterus, vagina, anus, and [pelvic](/wiki/Human_pelvis) muscles undergo a series of rhythmic contractions. Most women find these contractions very pleasurable.

Researchers from the [University Medical Center of Groningen](/wiki/University_of_Groningen) in the [Netherlands](/wiki/Netherlands) correlated the sensation of orgasm with muscular contractions occurring at a frequency of 8–13 Hz centered in the pelvis and measured in the anus. They argue that the presence of this particular frequency of contractions can distinguish between voluntary contraction of these muscles and spontaneous involuntary contractions, and appears to more accurately correlate with orgasm as opposed to other metrics like heart rate that only measure excitation. They assert that they have identified "[t]he first objective and quantitative measure that has a strong correspondence with the subjective experience that orgasm ultimately is" and state that the measure of contractions that occur at a frequency of 8–13 Hz is specific to orgasm. They found that using this metric they could distinguish from rest, voluntary muscular contractions, and even unsuccessful orgasm attempts.[[85]](#cite_note-85) Since ancient times in Western Europe, women could be [medically diagnosed](/wiki/Medical_diagnosis) with a disorder called [female hysteria](/wiki/Female_hysteria), the symptoms of which included faintness, nervousness, insomnia, fluid retention, heaviness in abdomen, muscle spasm, shortness of breath, irritability, loss of appetite for food or sex, and "a tendency to cause trouble".<ref name=Maines>[Template:Cite book](/wiki/Template:Cite_book)</ref> Women considered suffering from the condition would sometimes undergo "pelvic massage" — [stimulation of the genitals](/wiki/Fingering_(sexual_act)) by the doctor until the woman experienced "hysterical paroxysm" (i.e., orgasm). Paroxysm was regarded as a medical treatment, and not a sexual release.<ref name=Maines/> The disorder has ceased to be recognized as a medical condition since the 1920s.

### Brain[[edit](/index.php?title=(none)&action=edit&section=18)]

There have been very few studies correlating orgasm and brain activity in real time. One study examined 12 healthy women using a [positron emission tomography](/wiki/Positron_emission_tomography) (PET) scanner while they were being stimulated by their partners. Brain changes were observed and compared between states of rest, sexual stimulation, faked orgasm, and actual orgasm. Differences were reported on the brain changes associated with men and women during stimulation. However, the same changes in brain activity were observed in both sexes in which the brain regions associated with behavioral control, fear and anxiety shut down. Regarding these changes, [Gert Holstege](/wiki/Gert_Holstege) said in an interview with [*The Times*](/wiki/The_Times), "What this means is that deactivation, letting go of all fear and anxiety, might be the most important thing, even necessary, to have an orgasm."[[86]](#cite_note-86) While stroking the clitoris, the parts of the female brain responsible for processing fear, anxiety and behavioral control start to relax and reduce in activity. This reaches a peak at orgasm when the female brain's emotion centers are effectively closed down to produce an almost trance-like state. Holstege is quoted as saying, at the 2005 meeting of the European Society for Human Reproduction and Development: "At the moment of orgasm, women do not have any emotional feelings."[[87]](#cite_note-87) Initial reports indicated that it was difficult to observe the effects of orgasm on men using PET scan, because the duration of male orgasm was shorter. However, a subsequent report by Rudie Kortekaas, et al. stated, "Gender commonalities were most evident during orgasm... From these results, we conclude that during the sexual act, differential brain responses across genders are principally related to the stimulatory (plateau) phase and not to the orgasmic phase itself."[[7]](#cite_note-7) Research has shown that like in women, the emotional centers of a man's brain also deactivate during orgasm, but to a lesser extent than in women. Brain scans on both sexes have shown that the [pleasure centers](/wiki/Pleasure_center) of a man's brain show more intense activity than in women during orgasm.[[88]](#cite_note-88) Human [brain wave](/wiki/Electroencephalography) patterns show distinct changes during orgasm, which indicate the importance of the limbic system in the orgasmic response.<ref name=health.discovery.com/> Male and female brains demonstrate similar changes during orgasm, with brain activity scans showing a temporary decrease in the [metabolic](/wiki/Metabolism) activity of large parts of the [cerebral cortex](/wiki/Cerebral_cortex) with normal or increased metabolic activity in the limbic areas of the brain.[[7]](#cite_note-7) [EEG](/wiki/EEG) tracings from volunteers during orgasm were first obtained by Mosovich and Tallaferro in 1954.[[89]](#cite_note-89) These research workers recorded EEC changes resembling [petit mal](/wiki/Petit_mal) or the clonic phase of a [grand mal](/wiki/Grand_mal). Further studies in this direction were carried out by Sem-Jacobsen (1968), Heath (1972), Cohen et al. (1976),[[90]](#cite_note-90) and others.[[91]](#cite_note-91)[[92]](#cite_note-92) Sarrel et al. reported a similar observation in 1977. These reports continue to be cited.[[93]](#cite_note-93) Unlike them, Craber et al. (1985) failed to find any distinctive EEG changes in four men during masturbation and ejaculation; the authors concluded that the case for the existence of EEG changes specifically related to sexual arousal and orgasm remained unproven.[[94]](#cite_note-94) So disagreement arises as to whether the experiment conducted by Mosovich & Tallaferro casts a new light on the nature of orgasm. In some recent studies, authors tend to adopt the opposite point of view that there are no remarkable EEG changes during ejaculation in humans.[[95]](#cite_note-95)

### Health[[edit](/index.php?title=(none)&action=edit&section=19)]

#### General[[edit](/index.php?title=(none)&action=edit&section=20)]

Orgasm, and sexual activity as a whole, are physical activities that can require exertion of many major bodily systems. A 1997 study in the [*BMJ*](/wiki/BMJ) based upon 918 men age 45–59 found that after a ten-year follow-up, men who had fewer orgasms were twice as likely to die of any cause as those having two or more orgasms a week.[[96]](#cite_note-96) A follow-up in 2001 which focused more specifically on [cardiovascular](/wiki/Cardiovascular) health found that having sex three or more times a week was associated with a 50% reduction in the risk of heart attack or stroke. (Note that as a rule, [correlation does not imply causation](/wiki/Correlation_does_not_imply_causation).)

There is some research suggesting that greater resting heart rate variability is associated with orgasms through penile-vaginal intercourse without additional simultaneous clitoral stimulation.[[37]](#cite_note-37) A small percentage of men have a disease called [postorgasmic illness syndrome](/wiki/Postorgasmic_illness_syndrome) (POIS), which causes severe muscle pain throughout the body and other symptoms immediately following [ejaculation](/wiki/Ejaculation). The symptoms last for up to a week.<ref name=Balon2005>[Template:Cite book](/wiki/Template:Cite_book)</ref><ref name=Wylie2015>[Template:Cite book](/wiki/Template:Cite_book)</ref><ref name=GARD>[Template:Cite encyclopedia](/wiki/Template:Cite_encyclopedia)</ref> Some doctors speculate that the frequency of POIS "in the population may be greater than has been reported in the academic literature",<ref name=Ashby2010>[Template:Cite journal](/wiki/Template:Cite_journal)</ref> and that many POIS sufferers are undiagnosed.<ref name=McMahon2014>[Template:Cite journal](/wiki/Template:Cite_journal)</ref>

#### Dysfunction and satisfaction[[edit](/index.php?title=(none)&action=edit&section=21)]

The inability to have orgasm, or regular difficulty reaching orgasm after ample sexual stimulation, is called [anorgasmia](/wiki/Anorgasmia) or inorgasmia.[[97]](#cite_note-97) If a male experiences [erection](/wiki/Erection) and ejaculation but no orgasm, he is said to have [sexual anhedonia](/wiki/Sexual_anhedonia) (a condition in which an individual cannot feel pleasure from an orgasm) or ejaculatory [anhedonia](/wiki/Anhedonia). Anorgasmia is significantly more common in women than in men,[[98]](#cite_note-98)[[99]](#cite_note-99) which has been attributed to the lack of [sex education](/wiki/Sex_education) with regard to women's bodies, especially in [sex-negative](/wiki/Antisexualism) cultures, such as clitoral stimulation usually being key for women to orgasm.[[99]](#cite_note-99) Approximately 25% of women report difficulties with orgasm,[[100]](#cite_note-100) 10% of women have never had an orgasm,[[101]](#cite_note-101) and 40% or 40–50% have either complained about sexual dissatisfaction or experienced difficulty becoming sexually aroused at some point in their lives.[[102]](#cite_note-102) A 1994 study by Laumann et al. found that 75% of men and 29% of women always have orgasms with their partner.[[103]](#cite_note-103) Women are much more likely to be nearly always or always orgasmic when alone than with a partner.[[8]](#cite_note-8) However, in a 1996 study by Davis et al., 62% of women in a partnered relationship said they were satisfied with the frequency/consistency of their orgasms.[[8]](#cite_note-8) Additionally, some women express that their most satisfying sexual experiences entail being connected to someone, rather than solely basing satisfaction on orgasm.[[104]](#cite_note-104)[[105]](#cite_note-105) Kinsey's [*Sexual Behavior in the Human Female*](/wiki/Kinsey_Reports) showed that, over the previous five years of sexual activity, 78% of women had orgasms in 60% to 100% of [sexual encounters with other women](/wiki/Women_who_have_sex_with_women), compared with 55% for heterosexual sex.[[106]](#cite_note-106) Kinsey attributed this difference to female partners knowing more about women's sexuality and how to optimize women's sexual satisfaction than male partners do.[[5]](#cite_note-5) Like Kinsey, scholars such as Peplau, Fingerhut and Beals (2004) and Diamond (2006) found that lesbians have orgasms more often and more easily in sexual interactions than heterosexual women do,[[5]](#cite_note-5) and that female partners are more likely to emphasize the emotional aspects of lovemaking.[[5]](#cite_note-5) In contrast, research by Diane Holmberg and Karen L. Blair (2009), published in the *Journal of Sex Research*, found that women in same-sex relationships enjoyed identical sexual desire, sexual communication, sexual satisfaction, and satisfaction with orgasm as their heterosexual counterparts.[[107]](#cite_note-107) Specifically in relation to simultaneous orgasm and similar practices, many sexologists claim that the problem of [premature ejaculation](/wiki/Premature_ejaculation)[[108]](#cite_note-108) is closely related to the idea encouraged by a scientific approach in early 20th century when mutual orgasm was overly emphasized as an objective and a sign of true sexual satisfaction in intimate relationships.

If orgasm is desired, anorgasmia may be attributed to an inability to relax. It may be associated with performance pressure and an unwillingness to pursue pleasure, as separate from the other person's satisfaction; often, women worry so much about the pleasure of their partner that they become anxious, which manifests as impatience with the delay of orgasm for them. This delay can lead to frustration of not reaching orgasmic sexual satisfaction.[[100]](#cite_note-100) Psychoanalyst [Wilhelm Reich](/wiki/Wilhelm_Reich), in his 1927 book [*Die Funktion des Orgasmus*](/wiki/Die_Funktion_des_Orgasmus) (published in English in 1980 as *Genitality in the Theory and Therapy of Neurosis*) was the first to make orgasm central to the concept of mental health, and defined [neurosis](/wiki/Neurosis) in terms of blocks to having [orgastic potency](/wiki/Orgastic_potency). Although orgasm dysfunction can have psychological components, physiological factors often play a role. For instance, delayed orgasm or the inability to achieve orgasm is a common side effect of many medications.

[Menopause](/wiki/Menopause) may involve loss of hormones supporting sexuality and genital functionality. Vaginal and clitoral atrophy and dryness affects up to 50%–60% of postmenopausal women.[[109]](#cite_note-109) Testosterone levels in men fall as they age. Sexual dysfunction overall becomes more likely with poor physical and emotional health. "Negative experiences in sexual relationships and overall well-being" are associated with sexual dysfunction.[[110]](#cite_note-110)[[111]](#cite_note-111)

## Theoretical biological and evolutionary functions of female orgasm[[edit](/index.php?title=(none)&action=edit&section=22)]

### Shifts in research[[edit](/index.php?title=(none)&action=edit&section=23)]

The function(s) of the human female orgasm have been debated among researchers.[[112]](#cite_note-112) Because male orgasms that expel [sperm](/wiki/Sperm) from the body into the vagina during sexual intercourse may result in conception, researchers have several hypotheses about the role, if any, of the female orgasm in the reproductive and therefore evolutionary process.[[9]](#cite_note-9)[[10]](#cite_note-10)[[31]](#cite_note-31)[[55]](#cite_note-55) The literature started with the argument that female orgasm is a byproduct of shared early male ontogeny, where male orgasm is an [adaptation](/wiki/Adaptation).[[113]](#cite_note-113) Research has shifted to investigate and also support the sire-choice hypothesis, which proposes that female orgasm has been shaped by [natural selection](/wiki/Natural_selection) to function in the selection of high quality sires (male parents) for offspring. Therefore, orgasm increases the chances of conceiving with males of a high genetic quality.[[114]](#cite_note-114)[[115]](#cite_note-115) Research by [Randy Thornhill](/wiki/Randy_Thornhill) et al. indicates that female orgasm is more frequent during intercourse with a male partner with low [fluctuating asymmetry](/wiki/Fluctuating_asymmetry).[[116]](#cite_note-116)

### Selective pressure and mating[[edit](/index.php?title=(none)&action=edit&section=24)]

Wallen K and Lloyd EA stated, "In men, orgasms are under strong selective pressure as orgasms are coupled with ejaculation and thus contribute to male reproductive success. By contrast, women's orgasms in intercourse are highly variable and are under little selective pressure as they are not a reproductive necessity."[[10]](#cite_note-10) [Desmond Morris](/wiki/Desmond_Morris) suggested in his 1967 popular-science book [*The Naked Ape*](/wiki/The_Naked_Ape) that the female orgasm evolved to encourage physical intimacy with a male partner and help reinforce the [pair bond](/wiki/Pair_bond). Morris suggested that the relative difficulty in achieving female orgasm, in comparison to the male's, might be favorable in [Darwinian](/wiki/Darwinism) evolution by leading the female to select [mates](/wiki/Mating) who bear qualities like patience, care, imagination, intelligence, as opposed to qualities like size and aggression, which pertain to mate selection in other primates. Such advantageous qualities thereby become accentuated within the species, driven by the differences between male and female orgasm. If males were motivated by, and taken to the point of, orgasm in the same way as females, those advantageous qualities would not be needed, since self-interest would be enough.

### Fertility[[edit](/index.php?title=(none)&action=edit&section=25)]

There are theories that the female orgasm might increase fertility.[[9]](#cite_note-9)[[31]](#cite_note-31)[[55]](#cite_note-55) For example, the 30% reduction in size of the vagina could help clench onto the penis (much like, or perhaps caused by, the [pubococcygeus muscles](/wiki/Pubococcygeus_muscle)), which would make it more stimulating for the male (thus ensuring faster or more voluminous ejaculation). The British biologists Baker and Bellis have suggested that the female orgasm may have a [peristalsis](/wiki/Peristalsis) or "upsuck" action (similar to the [esophagus'](/wiki/Esophagus) ability to swallow when upside down), resulting in the retaining of favorable sperm and making conception more likely.[[117]](#cite_note-117) They posited a role of female orgasm in [sperm competition](/wiki/Sperm_competition).

The observation that women tend to reach orgasm more easily when they are ovulating also suggests that it is tied to increasing fertility.[[118]](#cite_note-118) Evolutionary biologist Robin Baker argues in [*Sperm Wars*](/wiki/Sperm_Wars) that occurrence and timing of orgasms are all a part of the female body's unconscious strategy to collect and retain sperm from more evolutionarily fit men.[Template:Citation needed](/wiki/Template:Citation_needed) An orgasm during intercourse functions as a bypass button to a woman's natural cervical filter against sperm and pathogens. An orgasm before functions to strengthen the filter.

Desmond Morris proposed that orgasm might facilitate conception by exhausting the female and keeping her horizontal, thus preventing the sperm from leaking out. This possibility, sometimes called the "Poleaxe Hypothesis" or the "Knockout Hypothesis", is now considered highly doubtful. A 1994 [Learning Channel](/wiki/TLC_(TV_channel)) documentary on sex had fiber optic cameras inside the vagina of a woman while she had sexual intercourse. During her orgasm, her [pelvic muscles](/wiki/Pelvic_floor) contracted and her [cervix](/wiki/Vaginal_portion_of_cervix) repeatedly dipped into a pool of semen in the [vaginal fornix](/wiki/Vaginal_fornix), as if to ensure that sperm would proceed by the [external orifice of the uterus](/wiki/External_orifice_of_the_uterus), making conception more likely.[[119]](#cite_note-119) Evolutionary psychologists Christopher Ryan and Cacilda Jethá, in their discussion of the female orgasm, address how long it takes for females to achieve orgasm compared to males, and females' ability to have multiple orgasms, hypothesizing how especially well suited to multiple partners and [insemination](/wiki/Insemination) this is. They quote [primate sexuality](/wiki/Primate_sexuality) specialist Alan Dixson in saying that the monogamy-maintenance explanation for female orgasm "seems far-fetched" because "females of other primate species, and particularly those with multimale-multifemale [promiscuous] mating systems such as macaques and chimpanzees, exhibit orgasmic responses in the absence of such bonding or the formation of stable family units." On the other hand, Dixson states that "Gibbons, which are primarily monogamous, do not exhibit obvious signs of female orgasm."[[120]](#cite_note-120) The [female promiscuity](/wiki/Female_promiscuity) explanation of female sexuality was echoed at least 12 years earlier by other evolutionary biologists, and there is increasing scientific awareness of the female [proceptive phase](/wiki/Proceptive_phase).[[121]](#cite_note-121) Though Dixson classifies humans as mildly polygynous in his survey of primate sexuality, he appears to have doubts, when he writes, "One might argue that ... the female's orgasm is rewarding, increases her willingness to copulate with a variety of males rather than one partner, and thus promotes sperm competition." Ryan and Jethá use this as evidence for their theory that [partible paternity](/wiki/Partible_paternity) and promiscuity were common for early modern humans.[[120]](#cite_note-120)

### Adaptive or vestigial[[edit](/index.php?title=(none)&action=edit&section=26)]

The clitoris is [homologous](/wiki/Homology_(biology)) to the penis; that is, they both develop from the same embryonic structure.[[35]](#cite_note-35)[[36]](#cite_note-36) While researchers such as [Geoffrey Miller](/wiki/Geoffrey_Miller_(psychologist)), [Helen Fisher](/wiki/Helen_Fisher_(anthropologist)), [Meredith Small](/wiki/Meredith_Small) and [Sarah Blaffer Hrdy](/wiki/Sarah_Blaffer_Hrdy) "have viewed the clitoral orgasm as a legitimate adaptation in its own right, with major implications for female sexual behavior and sexual evolution,"[[9]](#cite_note-9) others, such as [Donald Symons](/wiki/Donald_Symons) and [Stephen Jay Gould](/wiki/Stephen_Jay_Gould), have asserted that the clitoris is [vestigial](/wiki/Vestigiality) or nonadaptive, and that the female orgasm serves no particular evolutionary function.[[9]](#cite_note-9)[[55]](#cite_note-55) However, Gould acknowledged that "most female orgasms emanate from a clitoral, rather than vaginal (or some other), site" and stated that his nonadaptive belief "has been widely misunderstood as a denial of either the adaptive value of female orgasm in general, or even as a claim that female orgasms lack significance in some broader sense". He explained that although he accepts that "clitoral orgasm plays a pleasurable and central role in female sexuality and its joys," "[a]ll these favorable attributes, however, emerge just as clearly and just as easily, whether the clitoral site of orgasm arose as a [spandrel](/wiki/Spandrel_(biology)) or an adaptation". He said that the "male biologists who fretted over [the adaptionist questions] simply assumed that a deeply vaginal site, nearer the region of fertilization, would offer greater selective benefit" due to their Darwinian, [*summum bonum*](/wiki/Summum_bonum) beliefs about enhanced reproductive success.[[55]](#cite_note-55) Proponents of the nonadaptive hypothesis, such as Elisabeth Lloyd, refer to the relative difficulty of achieving female orgasm through vaginal sex, the limited evidence for increased fertility after orgasm and the lack of statistical correlation between the capacity of a woman to orgasm and the likelihood that she will engage in intercourse.[[31]](#cite_note-31)[[122]](#cite_note-122) "Lloyd is by no means against evolutionary psychology. Quite the opposite; in her methods and in her writing, she advocates and demonstrates a commitment to the careful application of evolutionary theory to the study of human behavior," stated [Meredith L. Chivers](/wiki/Meredith_Chivers). She added that Lloyd "meticulously considers the theoretical and empirical bases for each account and ultimately concludes that there is little evidence to support an adaptionist account of female orgasm" and that Lloyd instead "views female orgasm as an ontogenetic leftover; women have orgasms because the urogenital neurophysiology for orgasm is so strongly selected for in males that this developmental blueprint gets expressed in females without affecting fitness, just as males have nipples that serve no fitness-related function".[[122]](#cite_note-122) A 2005 [twin study](/wiki/Twin_study) found that one in three women reported never or seldom achieving orgasm during sexual intercourse, and only one in ten always orgasmed. This variation in ability to orgasm, generally thought to be psychosocial, was found to be 34% to 45% genetic. The study, examining 4000 women, was published in [*Biology Letters*](/wiki/Biology_Letters), a [Royal Society](/wiki/Royal_Society) journal.[[123]](#cite_note-123)[[124]](#cite_note-124) Elisabeth Lloyd has cited this as evidence for the notion that female orgasm is not adaptive.[[31]](#cite_note-31)[[125]](#cite_note-125) Miller, Hrdy, Helen O'Connell and [Natalie Angier](/wiki/Natalie_Angier) have criticized the "female orgasm is vestigial" hypothesis as understating and devaluing the psychosocial value of the female orgasm.[[9]](#cite_note-9) Hrdy stated that the hypothesis smacks of [sexism](/wiki/Sexism).[[126]](#cite_note-126) O'Connell said, "It boils down to rivalry between the sexes: the idea that one sex is sexual and the other reproductive. The truth is that both are sexual and both are reproductive."[[6]](#cite_note-6) O'Connell used [MRI](/wiki/Magnetic_resonance_imaging) technology to define the true size and shape of the clitoris, suggesting that it extends into the anterior wall of the vagina ([see above](/wiki/#In_females)).

O'Connell describes typical textbook descriptions of the clitoris as lacking detail and including inaccuracies, saying that the work of [Georg Ludwig Kobelt](/wiki/Georg_Ludwig_Kobelt) in the early 19th century provides a most comprehensive and accurate description of clitoral anatomy. She argues that the bulbs appear to be part of the clitoris and that the distal urethra and vagina are intimately related structures, although they are not erectile in character, forming a tissue cluster with the clitoris that appears to be the center of female sexual function and orgasm.[[6]](#cite_note-6) By contrast, Nancy Tuana, at the 2002 conference for *Canadian Society of Women in Philosophy*, argues that the clitoris is unnecessary in reproduction, but that this is why it has been "historically ignored", mainly because of "a fear of pleasure. It is pleasure separated from reproduction. That's the fear". She reasoned that this fear is the cause of the ignorance that veils female sexuality.[[127]](#cite_note-127)

### Other theories[[edit](/index.php?title=(none)&action=edit&section=27)]

Brody Costa et al. suggest that women's vaginal orgasm consistency is associated with being told in childhood or adolescence that the vagina is the important zone for inducing female orgasm. Other proposed factors include how well women focus mentally on vaginal sensations during penile-vaginal intercourse, the greater duration of intercourse, and preference for above-average penis length.[[128]](#cite_note-128) Costa theorizes that vaginal orgasm is more prevalent among women with a prominent [tubercle of the upper lip](/wiki/Tubercle_of_the_upper_lip).[[129]](#cite_note-129) His research indicates that "[a] prominent and sharply raised lip tubercle has been associated with greater odds (odds ratio = 12.3) of ever having a vaginal orgasm, and also with greater past month vaginal orgasm consistency (an effect driven by the women who never had a vaginal orgasm), than less prominent lip tubercle categories." However, lip tubercle was not associated with social desirability responding, or with orgasm triggered by masturbation during penile-vaginal sex, solitary or partner clitoral or vaginal masturbation, vibrator, or cunnilingus.[[129]](#cite_note-129) An empirical study carried out in 2008 provides evidence for Freud's implied link between inability to have a vaginal orgasm and psychosexual [immaturity](/wiki/Defence_mechanisms). In the study, women reported their past month frequency of different sexual behaviors and corresponding orgasm rates and completed the Defense Style Questionnaire (DSQ-40), which is associated with various [psychopathologies](/wiki/Psychopathology). The study concluded that a "vaginal orgasm was associated with less somatization, dissociation, displacement, autistic fantasy, devaluation, and isolation of affect." Moreover, "vaginally anorgasmic women had immature defenses scores comparable to those of established (depression, social anxiety disorder, panic disorder, and obsessive–compulsive disorder) outpatient psychiatric groups." In the study, a vaginal orgasm (as opposed to a clitoral orgasm) was defined as being triggered solely by penile–vaginal intercourse.[[130]](#cite_note-130) According to [Wilhelm Reich](/wiki/Wilhelm_Reich), the lack of women's capacity to have a vaginal orgasm is due to a lack of [orgastic potency](/wiki/Orgastic_potency), which he believed to be the result of culture's suppression of genital sexuality.[[131]](#cite_note-131)

## Tantric sex[[edit](/index.php?title=(none)&action=edit&section=28)]

[Tantric sex](/wiki/Tantric_sex), which is not the same as [Buddhist tantra (Vajrayana)](/wiki/Vajrayana), is the ancient Indian spiritual tradition of sexual practices. It attributes a different value to orgasm than traditional cultural approaches to sexuality. Some practitioners of [tantric](/wiki/Tantra) sex aim to eliminate orgasm from sexual intercourse by remaining for a long time in the pre-orgasmic and non-emission state. Advocates of this, such as [Rajneesh](/wiki/Rajneesh), claim that it eventually causes orgasmic feelings to spread out to all of one's conscious experience.[[132]](#cite_note-132)[[133]](#cite_note-133) Advocates of tantric and neotantric sex who claim that Western culture focuses too much on the goal of climactic orgasm, which reduces the ability to have intense pleasure during other moments of the sexual experience, suggest that eliminating this enables a richer, fuller and more intense connection.[[134]](#cite_note-134)

## Literature[[edit](/index.php?title=(none)&action=edit&section=29)]

[thumb|](/wiki/File:Carracci_-_Jupiter_et_Junon.jpeg)[*Jupiter*](/wiki/Jupiter_(mythology)) *and* [*Juno*](/wiki/Juno_(mythology)), by [Annibale Carracci](/wiki/Annibale_Carracci). Orgasm has been widely described in literature over the centuries. In antiquity, [Latin literature](/wiki/Latin_literature) addressed the subject as much as [Greek literature](/wiki/Greek_literature): Book III of [Ovid's](/wiki/Ovid) [*Metamorphoses*](/wiki/Metamorphoses) retells a discussion between [Jove](/wiki/Jove) and [Juno](/wiki/Juno_(mythology)), in which the former states: "The sense of pleasure in the male is far / More dull and dead, than what you females share."[[135]](#cite_note-135) Juno rejects this thought; they agree to ask the opinion of [Tiresias](/wiki/Tiresias) ("who had known [Venus](/wiki/Venus_(mythology))/Love in both ways," having lived seven years as a female).[[136]](#cite_note-136) Tiresias offends Juno by agreeing with Jove, and she strikes him blind on the spot (Jove lessens the blow by giving Tiresias the gift of foresight, and a long life).[[137]](#cite_note-137) Earlier, in the [*Ars Amatoria*](/wiki/Ars_Amatoria), Ovid states that he abhors sexual intercourse that fails to complete both partners.[[138]](#cite_note-138) The theme of orgasm survived during [Romanticism](/wiki/Romanticism) and is incorporated in many [homoerotic](/wiki/Homoeroticism) works. In *FRAGMENT: Supposed to be an Epithalamium of Francis Ravaillac and Charlotte Cordé*, [Percy Bysshe Shelley](/wiki/Percy_Bysshe_Shelley) (1792–1822), "a translator of extraordinary range and versatility",[[139]](#cite_note-139) wrote the phrase "No life can equal such a death." That phrase has been seen as a [metaphor](/wiki/Metaphor) for orgasm,[[140]](#cite_note-140) and it was preceded by the rhythmic urgency of the previous lines "Suck on, suck on, I glow, I glow!", which has been seen as alluding to [fellatio](/wiki/Fellatio).[[140]](#cite_note-140) For Shelley, orgasm was "the almost involuntary consequences of a state of abandonment in the society of a person of surpassing attractions".[[141]](#cite_note-141) [Edward Ellerker Williams](/wiki/Edward_Ellerker_Williams), the last love of Shelley's life, was remembered by the poet in "The Boat on the Serchio", which has been considered as possibly "the grandest portrayal of orgasm in literature":[[140]](#cite_note-140) Shelley, in this poem, associates orgasm with death when he writes "the death which lovers love".[[140]](#cite_note-140) In [French literature](/wiki/French_literature), the term [*la petite mort*](/wiki/La_petite_mort) (the little death) is a famous [euphemism](/wiki/Euphemism) for orgasm;[[142]](#cite_note-142) it is the representation of man who forgets himself and the world during orgasm. [Jorge Luis Borges](/wiki/Jorge_Luis_Borges), in the same vision, wrote in one of the several [footnotes](/wiki/Footnote) of "[Tlön, Uqbar, Orbis Tertius](/wiki/Tlön,_Uqbar,_Orbis_Tertius)" that one of the churches of [Tlön](/wiki/Tlön) claims [Platonically](/wiki/Platonism) that "All men, in the vertiginous moment of coitus, are the same man. All men who repeat a line from [Shakespeare](/wiki/Shakespeare) *are* William Shakespeare."[[143]](#cite_note-143) Shakespeare himself was knowledgeable of this idea: lines "I will live in thy heart, die in thy lap, and be buried in thy eyes" and "I will die bravely, like a smug bridegroom", said respectively by [Benedick](/wiki/Benedick) in [*Much Ado About Nothing*](/wiki/Much_Ado_About_Nothing) and by King Lear in [the play of that ilk](/wiki/King_Lear),[[144]](#cite_note-144) are interpreted as "to die in a woman's lap" = "to experience a sexual orgasm".[[145]](#cite_note-145) [Sigmund Freud](/wiki/Sigmund_Freud) with his [psychoanalytic](/wiki/Psychoanalytic) projects, in [*The Ego and the Id*](/wiki/The_Ego_and_the_Id) (1923), speculates that sexual satisfaction by orgasm make [Eros](/wiki/Eros) ("life instinct") exhausted and leaves the field open to [Thanatos](/wiki/Thanatos) ("death instinct"), in other words, with orgasm Eros fulfills its mission and gives way to Thanatos.[[146]](#cite_note-146) Other modern authors have chosen to represent the orgasm without metaphors. In novel [*Lady Chatterley's Lover*](/wiki/Lady_Chatterley's_Lover) (1928), by [D. H. Lawrence](/wiki/D._H._Lawrence), we can find an explicit narrative of a sexual act between a couple: "As he began to move, in the sudden helpless orgasm there awoke in her strange thrills rippling inside her..."[[147]](#cite_note-147)

## Other animals[[edit](/index.php?title=(none)&action=edit&section=30)]

[Template:See also](/wiki/Template:See_also) The mechanics of male orgasm are similar in most male mammals.[Template:Further explanation needed](/wiki/Template:Further_explanation_needed) Females of some mammal and some non-mammal species, such as alligators,[[148]](#cite_note-148) have clitorises. There has been ongoing research about the [sexuality and orgasms of dolphins](/wiki/Sexuality_of_dolphins), a species which apparently engages in sexual intercourse for [reasons other than procreation](/wiki/Animal_co-opted_sexual_behavior).[[149]](#cite_note-149) The duration of orgasm varies considerably among different mammal species.[[150]](#cite_note-150)

## See also[[edit](/index.php?title=(none)&action=edit&section=31)]

[Template:Multicol](/wiki/Template:Multicol)

* [Child sexuality](/wiki/Child_sexuality)
* [Coitus reservatus](/wiki/Coitus_reservatus)
* [Eroto-comatose lucidity](/wiki/Eroto-comatose_lucidity)
* [Female ejaculation](/wiki/Female_ejaculation) (*squirt*)
* [Female sexual arousal disorder](/wiki/Female_sexual_arousal_disorder)
* [Forced orgasm](/wiki/Forced_orgasm) (a [BDSM](/wiki/BDSM) term)
* [Kama Sutra](/wiki/Kama_Sutra) — an ancient text on human sexual behavior

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* [Persistent sexual arousal syndrome](/wiki/Persistent_sexual_arousal_syndrome)
* [Postorgasmic illness syndrome](/wiki/Postorgasmic_illness_syndrome)
* [Sex position](/wiki/Sex_position)
* [Sexual function](/wiki/Sexual_function)
* [*La petite mort*](/wiki/La_petite_mort)— "the little death" in French (a euphemism for orgasm)
* [Venus Butterfly](/wiki/Venus_Butterfly)

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## References[[edit](/index.php?title=(none)&action=edit&section=32)]

[Template:Reflist](/wiki/Template:Reflist)

## Further reading[[edit](/index.php?title=(none)&action=edit&section=33)]

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## External links[[edit](/index.php?title=(none)&action=edit&section=34)]

[Template:Commons category](/wiki/Template:Commons_category)

* [Men's Health: Male Orgasm](http://menshealth.about.com/od/sexualhealth/a/male_orgasm.htm)
* [Net Doctor: Female Orgasm](http://www.netdoctor.co.uk/menshealth/feature/helpwithorgasms.htm)
* [The Science of Orgasm, by Barry R. Komisarak, Carlos Beyer-Flores, & Beverly Whipple](https://books.google.com/books?id=7rfLcoQ2koQC&dq=&pg=PP1&ots=wVP5clVxss&sig=cRJ8rsavVqgSAoVHcOvwCmANfq4&prev=http://www.google.com/search%3Fhl%3Den%26q%3D%2522The%2BScience%2Bof%2BOrgasm%2522%2BWhipple%26btnG%3DSearch&sa=X&oi=print&ct=title)
* [Ted Talk by](https://www.youtube.com/watch?v=7jx0dTYUO5E) [Mary Roach](/wiki/Mary_Roach) on 10 things you didn't know about orgasm

[Template:Reproductive physiology](/wiki/Template:Reproductive_physiology) [Template:Human sexuality](/wiki/Template:Human_sexuality) [Template:Post-orgasmic diseases](/wiki/Template:Post-orgasmic_diseases) [Template:Use dmy dates](/wiki/Template:Use_dmy_dates)

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