

Obsessive-compulsive disorder

Description

Obsessive-compulsive disorder (OCD) is a mental health condition characterized by features called obsessions and compulsions. Obsessions are intrusive thoughts, mental images, or urges to perform specific actions. While the particular obsessions vary widely, they often include fear of illness or contamination; a desire for symmetry or getting things "just right;" or intrusive thoughts involving religion, sex, or aggression. Compulsions consist of the repetitive performance of certain actions, such as checking or verifying, washing, counting, arranging, acting out specific routines, or seeking assurance. These behaviors are performed to relieve anxiety, rather than to seek pleasure as in other compulsive behaviors like gambling, eating, or sex.

While almost everyone experiences obsessive feelings and compulsive behaviors occasionally or in particular contexts, in OCD they take up more than an hour a day and cause problems with work, school, or social life. People with OCD generally experience anxiety and other distress around their need to accommodate their obsessions or compulsions.

About half the time, OCD becomes evident in childhood or adolescence, and most other cases appear in early adulthood. It is unusual for OCD to start after age 40. It tends to appear earlier in males, but by adulthood it is slightly more common in females. Affected individuals can experience periods when their symptoms increase or decrease in severity, but the condition usually does not go away completely.

Some people with OCD have additional mental health disorders such as generalized anxiety, depression, phobias, panic disorders, or schizophrenia. OCD can also occur in people with other neurological conditions such as Tourette syndrome and similar disorders, traumatic brain injury, stroke, or dementia.

Frequency

OCD is a common condition, occurring in about 2 percent of the population.

Causes

The cause of OCD is unknown. Researchers are investigating whether the condition might involve changes in the brain's response to chemical messengers (neurotransmitters) such as serotonin or dopamine. Problems with regulating the activity

of and interaction between various parts of the brain are also thought to contribute to the condition.

Variations in certain genes that provide instructions for proteins that react to or transport serotonin have been associated with an increased risk of OCD. Variations in other genes involved in communication in the brain may also be associated with the condition. However, not all people with OCD have an associated variation, and not all people with the variations will develop OCD.

In addition to genetic factors, researchers are studying environmental factors that might contribute to OCD, including complications during pregnancy or childbirth and stressful life events. However, none have been conclusively associated with this disorder. It seems likely that environmental conditions interact with genetic factors to determine the overall risk of developing OCD.

Inheritance

The inheritance pattern of OCD is unclear. Overall, the risk of developing this condition is greater for first-degree relatives of affected individuals (such as siblings or children) as compared to the general public. For unknown reasons, the risk of inheriting the disorder appears to be higher in some families than in others. However, most people who have a close relative with OCD will not develop the condition themselves.

Other Names for This Condition

- Anancastic neurosis
- Anankastic neurosis
- Obsessive-compulsive neurosis
- OCD

Additional Information & Resources

Genetic Testing Information

- Genetic Testing Registry: Obsessive-compulsive disorder (<https://www.ncbi.nlm.nih.gov/gtr/conditions/C0028768/>)

Patient Support and Advocacy Resources

- National Organization for Rare Disorders (NORD) (<https://rarediseases.org/>)

Clinical Trials

- ClinicalTrials.gov ([https://clinicaltrials.gov/search?cond=%22Obsessive-compulsive disorder%22](https://clinicaltrials.gov/search?cond=%22Obsessive-compulsive%20disorder%22))

Catalog of Genes and Diseases from OMIM

- OBSESSIVE-COMPULSIVE DISORDER; OCD (<https://omim.org/entry/164230>)

Scientific Articles on PubMed

- PubMed (<https://pubmed.ncbi.nlm.nih.gov/?term=%28Obsessive-Compulsive+Disorder%5BMAJR%5D%29+AND+%28obsessive-compulsive+disorder%5BTI%5D%29+AND+review%5Bpt%5D+AND+english%5Bla%5D+AND+human%5Bmh%5D+AND+%22last+720+days%22%5Bdp%5D>)

References

- Bokor G, Anderson PD. Obsessive-compulsive disorder. J Pharm Pract. 2014Apr; 27(2):116-30. doi: 10.1177/0897190014521996. Epub 2014 Feb 27. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/24576790>)
- Bozorgmehr A, Ghadirivasfi M, Shahsavand Ananloo E. Obsessive-compulsivedisorder, which genes? Which functions? Which pathways? An integrated holisticview regarding OCD and its complex genetic etiology. J Neurogenet. 2017Sep;31(3):153-160. doi: 10.1080/01677063.2017.1336236. Epub 2017 Jun 13. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/28608743>)
- Brander G, Perez-Vigil A, Larsson H, Mataix-Cols D. Systematic review ofenvironmental risk factors for Obsessive-Compulsive Disorder: A proposed roadmapfrom association to causation. Neurosci Biobehav Rev. 2016 Jun;65:36-62. doi:10.1016/j.neubiorev.2016.03.011. Epub 2016 Mar 21. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/27013116>)
- Drubach DA. Obsessive-compulsive disorder. Continuum (Minneap Minn). 2015Jun; 21(3 Behavioral Neurology and Neuropsychiatry):783-8. doi:10.1212/01.CON.0000466666.12779.07. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/26039854>)
- Fernandez TV, Leckman JF, Pittenger C. Genetic susceptibility inobsessive-compulsive disorder. Handb Clin Neurol. 2018;148:767-781. doi:10.1016/B978-0-444-64076-5.00049-1. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/29478613>)
- Goodman WK, Grice DE, Lapidus KA, Coffey BJ. Obsessive-compulsive disorder. Psychiatr Clin North Am. 2014 Sep;37(3):257-67. doi: 10.1016/j.psc.2014.06.004. Epub 2014 Jul 23. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/25150561>)
- Pauls DL, Abramovitch A, Rauch SL, Geller DA. Obsessive-compulsive disorder:an integrative genetic and neurobiological perspective. Nat Rev Neurosci. 2014Jun;15(6):410-24. doi: 10.1038/nrn3746. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/24840803>)
- Sinopoli VM, Burton CL, Kronenberg S, Arnold PD. A review of the role ofserotonin

system genes in obsessive-compulsive disorder. *Neurosci Biobehav Rev.* 2017 Sep; 80:372-381. doi: 10.1016/j.neubiorev.2017.05.029. Epub 2017 May 30. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/28576508>)

- Veale D, Roberts A. Obsessive-compulsive disorder. *BMJ.* 2014 Apr 7;348:g2183. doi: 10.1136/bmj.g2183. No abstract available. Citation on PubMed (<https://pubmed.ncbi.nlm.nih.gov/24709802>)

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