Depression

Depression (also known as major depression or major depressive disorder) is a psychiatric disorder that affects mood, behavior, and overall health. It causes prolonged feelings of sadness, emptiness, or hopelessness, and a loss of interest in activities that were once enjoyed. People with depression may also have changes in appetite (leading to overeating or not eating enough), changes in sleeping patterns (sleeping too much or not being able to sleep), loss of energy, and difficulty concentrating.

Although depression is considered primarily a mental health disorder, it can also have physical features including headaches, other unexplained aches and pains, unusually slow or fast movements, and digestive problems. To be diagnosed with depression, an individual must have signs and symptoms nearly every day for at least 2 weeks. However, the features of this condition vary widely.

Depression most commonly begins in late adolescence or early adulthood, although it can appear at any age. If untreated, episodes of depression can last for weeks, months, or years, and can go away and come back (recur). Affected individuals may have difficulty functioning in their daily lives, including at school or work. People with depression have a higher risk of substance abuse problems and dying by suicide than the general population.

Several health conditions are closely related to depression or have depression as a characteristic feature. These include dysthymia (which has long-lasting signs and symptoms that are similar to, but not as severe as, those of depression), perinatal or postpartum depression (which occurs around or following the birth of a child), seasonal affective disorder (which is triggered by the changing of the seasons), bipolar disorder (which can include both "highs," or manic episodes, and depressive episodes), and generalized anxiety disorder. In people with schizoaffective disorder, depression or another mood disorder occurs together with features of schizophrenia (a brain disorder that affects a person's thinking, sense of self, and perceptions).

Frequency

Depression is one of the most common mental health disorders in the United States. More than 19 million American adolescents and adults are affected. In 2016, 6.7 percent of adults and 12.8 percent of adolescents reported having at least one episode of depression.

Depression is about twice as common in women as in men, which may be related in part to hormonal factors.
Causes
Depression is known to run in families, suggesting that genetic factors contribute to the risk of developing this disease. However, research into the genetics of depression is in its early stages, and very little is known for certain about the genetic basis of the disease. Studies suggest that variations in many genes, each with a small effect, combine to increase the risk of developing depression.

Determining the genetic risk factors for depression is challenging for several reasons. It is possible that what is currently considered to be a single disease called "depression" is actually multiple disorders with similar signs and symptoms; these disorders could have different genetic risk factors. The genetic variations related to depression may also be somewhat different between men and women. Researchers suspect that studies with many more people will be required to pinpoint the genetic variations that influence the risk of depression.

The genes thought to be associated with depression have diverse functions in the brain. Some of these genes may control the production (synthesis), transport, and activity of chemicals called neurotransmitters, which relay chemical signals that allow nerve cells (neurons) to communicate with one another. Other genes that may influence the risk of depression are involved in the growth, maturation, and maintenance of neurons, as well as the ability of the connections between neurons (synapses) to change and adapt over time in response to experience, a characteristic known as synaptic plasticity.

Nongenetic (environmental) factors also play critical roles in a person's risk of developing depression. The disorder can be triggered by substance abuse, certain medications, or stressful life events (such as divorce or the death of a loved one). Other risk factors include difficulties in relationships or social isolation, unemployment, financial problems, and childhood abuse or neglect. Some physical illnesses, such as cancer, thyroid disease, and chronic pain, are also associated with an increased risk of developing depression. It is likely that environmental conditions interact with genetic factors to determine the overall risk of developing this disease.

Inheritance Pattern
Depression does not have a clear pattern of inheritance in families. People who have a first-degree relative (for example, a parent or sibling) with depression appear to have a two to three times greater risk of developing the condition than the general public. However, many people who develop depression do not have a family history of the disorder, and many people with an affected relative never develop the disorder.

Other Names for This Condition
- clinical depression
- depressive disorder
- major depression
- major depressive disorder
• MDD
• unipolar depression

Diagnosis & Management

Genetic Testing Information

• What is genetic testing?
https://primer/testing/genetictesting

• Genetic Testing Registry: Depression

• Genetic Testing Registry: Depressive Disorder

• Genetic Testing Registry: Major depressive disorder

• International Society of Psychiatric Genetics: Genetic Testing and Psychiatric Disorders
https://ispg.net/genetic-testing-statement/

Research Studies from ClinicalTrials.gov

• ClinicalTrials.gov
https://clinicaltrials.gov/ct2/results?cond=%22depression%22+OR+%22clinical+depression%22+OR+%22major+depression%22+OR+%22major+depressive+disorder%22+OR+%22unipolar+depression%22

Other Diagnosis and Management Resources

• American Psychological Association: Depression: How Psychotherapy and Other Treatments Can Help People Recover
https://www.apa.org/topics/depression/recover

• Anxiety and Depression Association of America: Depression Treatment and Management
https://adaa.org/understanding-anxiety/depression-treatment-management

• MedlinePlus Health Topic: Antidepressants
https://medlineplus.gov/antidepressants.html

• MedlinePlus Medical Tests: Depression Screening
https://medlineplus.gov/lab-tests/depression-screening/

• National Alliance on Mental Illness: Treatment
https://www.nami.org/Learn-More/Mental-Health-Conditions/Depression/Treatment

• National Institute of Mental Health: Treatment and Therapies
https://www.nimh.nih.gov/health/topics/depression/index.shtml#part_145399
Additional Information & Resources

Health Information from MedlinePlus

• Encyclopedia: Major Depression
  https://medlineplus.gov/ency/article/000945.htm

• Encyclopedia: Persistent Depressive Disorder
  https://medlineplus.gov/ency/article/000918.htm

• Health Topic: Antidepressants
  https://medlineplus.gov/antidepressants.html

• Health Topic: Depression
  https://medlineplus.gov/depression.html

• Medical Tests: Depression Screening
  https://medlineplus.gov/lab-tests/depression-screening/

Additional NIH Resources

• National Institute of Mental Health
  https://www.nimh.nih.gov/health/topics/depression/index.shtml

Educational Resources

• European Bioinformatics Institute (EMBL-EBI): CONVERGE Project

• Johns Hopkins Medicine
  https://www.hopkinsmedicine.org/health/conditions-and-diseases/depression

• MalaCards: mental depression
  https://www.malacards.org/card/mental_depression

• Merck Manual Consumer Version
  https://www.merckmanuals.com/home/mental-health-disorders/mood-disorders/depression

• Stanford Medicine: Major Depression and Genetics
  http://med.stanford.edu/depressiongenetics/mddandgenes.html

• Womenshealth.gov
  https://www.womenshealth.gov/mental-health/mental-health-conditions/depression

Patient Support and Advocacy Resources

• American Foundation for Suicide Prevention
  https://afsp.org/find-support/

• American Psychiatric Association
  https://www.psychiatry.org/patients-families/depression/what-is-depression
• Anxiety and Depression Association of America
  https://adaa.org/understanding-anxiety/depression

• Depression and Bipolar Support Alliance
  https://www.dbsalliance.org/

• Medical Home Portal
  https://www.medicalhomeportal.org/diagnoses-and-conditions/depression

• National Alliance on Mental Illness (NAMI)
  https://www.nami.org/Learn-More/Mental-Health-Conditions/Depression

Scientific Articles on PubMed
• PubMed
  https://www.ncbi.nlm.nih.gov/pubmed?term=%28%28Depression%5BMAJR%29+OR+%28Depressive+Disorder%5BMAJR%29%29+AND+%28%28genetic%5BTI%29+OR+%28gene%5BTI%29+OR+%28genes%5BTI%29%29+AND+english%5Bla%29+AND+human%5Bmh%29+AND+%22last+720+days%22+AND+%5Bdp%5D

Catalog of Genes and Diseases from OMIM
• MAJOR DEPRESSIVE DISORDER
  http://omim.org/entry/608516

• MAJOR DEPRESSIVE DISORDER 1
  http://omim.org/entry/608520

• MAJOR DEPRESSIVE DISORDER 2
  http://omim.org/entry/608691

Medical Genetics Database from MedGen
• Depressive Disorder

• Depressivity
Sources for This Summary


