

Gene

BRCA1

Associated Diseases

Fanconi Anemia, Complementation Group S
Primary Peritoneal Carcinoma
Familial Pancreatic Carcinoma
Breast Cancer
Fanconi Anemia
Breast-ovarian Cancer, Familial, Susceptibility To, 1
Hereditary Breast And Ovarian Cancer Syndrome

Phenotype

Irregular hyperpigmentation

Jaundice

Yellow pigmentation of the skin due to bilirubin, which in turn is the result of increased bilirubin concentration in the bloodstream.

Abnormality of the urinary system

An abnormality of the urinary system.

Dolichocephaly

An abnormality of skull shape characterized by a increased anterior-posterior diameter, i.e., an increased antero-posterior dimension of the skull. Cephalic index less than 76%. Alternatively, an apparently increased antero-posterior length of the head compared to width. Often due to premature closure of the sagittal suture.

Renal insufficiency

A reduction in the level of performance of the kidneys in areas of function comprising the concentration of urine, removal of wastes, the maintenance of electrolyte balance, homeostasis of blood pressure, and calcium metabolism.

Abnormality of the eye

Any abnormality of the eye, including location, spacing, and intraocular abnormalities.

Abnormality of vision

Abnormality of eyesight (visual perception).

Poor appetite

A reduced desire to eat.

Cryptorchidism

Testis in inguinal canal. That is, absence of one or both testes from the scrotum owing to failure of the testis or testes to descend through the inguinal canal to the scrotum.

Abnormal aortic valve morphology

Any abnormality of the aortic valve.

Astigmatism

A type of astigmatism associated with abnormal curvatures on the anterior and/or posterior surface of the cornea.

Aplasia/Hypoplasia of the radius

A small/hypoplastic or absent/aplastic radius.

Facial asymmetry

An abnormal difference between the left and right sides of the face.

Peritonitis

Inflammation of the peritoneum.

Abnormality of the uterus

An abnormality of the uterus.

Neoplasm of the pancreas

A tumor (abnormal growth of tissue) of the pancreas.

Ptosis

The upper eyelid margin is positioned 3 mm or more lower than usual and covers the superior portion of the iris (objective); or, the upper lid margin obscures at least part of the pupil (subjective).

Microcephaly

Head circumference below 2 standard deviations below the mean for age and gender.

Weight loss

Reduction of total body weight.

Nausea and vomiting

Nausea is a commonly encountered symptom that has been defined as an unpleasant painless subjective feeling that one will imminently vomit. Vomiting has been defined as the forceful expulsion of the contents of the stomach, duodenum, or jejunum through the oral cavity. While nausea and vomiting are often thought to exist on a temporal continuum, this is not always the case. There are situations when severe nausea may be present without emesis and less frequently, when emesis may be present without preceding nausea.

Epicanthus

A fold of skin starting above the medial aspect of the upper eyelid and arching downward to cover, pass in front of and lateral to the medial canthus.

Failure to thrive

Failure to thrive (FTT) refers to a child whose physical growth is substantially below the norm.

High palate

Height of the palate more than 2 SD above the mean (objective) or palatal height at the level of the first permanent molar more than twice the height of the teeth (subjective).

Breast carcinoma

The presence of a carcinoma of the breast.

Sloping forehead

Inclination of the anterior surface of the forehead from the vertical more than two standard deviations above the mean (objective); or apparently excessive posterior sloping of the forehead in a lateral view.

Intermittent diarrhea

Repeated episodes of diarrhea separated by periods without diarrhea.

Narrow palate

Width of the palate more than 2 SD below the mean (objective) or apparently decreased palatal width (subjective).

Aplasia/Hypoplasia of fingers

Small/hypoplastic or absent/aplastic fingers.

Hepatosplenomegaly

Simultaneous enlargement of the liver and spleen.

Hearing abnormality

An abnormality of the sensory perception of sound.

Aganglionic megacolon

An abnormality resulting from a lack of intestinal ganglion cells (i.e., an aganglionic section of bowel) that results in bowel obstruction with enlargement of the colon.

Melanoma

The presence of a melanoma, a malignant cancer originating from pigment producing melanocytes. Melanoma can originate from the skin or the pigmented layers of the eye (the uvea).

Abnormality of the upper limb

An abnormality of the arm.

Bicornuate uterus

The presence of a bicornuate uterus.

Abnormality of skin pigmentation

An abnormality of the pigmentation of the skin.

Autosomal dominant inheritance

A mode of inheritance that is observed for traits related to a gene encoded on one of the autosomes (i.e., the human chromosomes 1-22) in which a trait manifests in heterozygotes. In the context of medical genetics, an autosomal dominant disorder is caused when a single copy of the mutant allele is present. Males and females are affected equally, and can both transmit the disorder with a risk of 50% for each child of inheriting the mutant allele.

Abdominal pain

An unpleasant sensation characterized by physical discomfort (such as pricking, throbbing, or aching) and

perceived to originate in the abdomen.

Clubbing of toes

Terminal broadening of the toes (distal phalanges of the toes).

Abnormality of the ulna

An abnormality of the ulna bone of the forearm.

Colon cancer

Lymphadenopathy

Enlargement (swelling) of a lymph node.

Umbilical hernia

Protrusion of abdominal contents through a defect in the abdominal wall musculature around the umbilicus. Skin and subcutaneous tissue overlie the defect.

Toe syndactyly

Webbing or fusion of the toes, involving soft parts only or including bone structure. Bony fusions are referred to as "bony" Syndactyly if the fusion occurs in a radio-ulnar axis. Fusions of bones of the toes in a proximo-distal axis are referred to as "Symphalangism".

Hypopigmented skin patches

Hypogonadism

A decreased functionality of the gonad.

Abnormal eyelid morphology

An abnormality of the eyelids.

Pes planus

A foot where the longitudinal arch of the foot is in contact with the ground or floor when the individual is standing; or, in a patient lying supine, a foot where the arch is in contact with the surface of a flat board pressed against the sole of the foot by the examiner with a pressure similar to that expected from weight bearing; or, the height of the arch is reduced.

Sparse hair

Reduced density of hairs.

Renal hypoplasia/aplasia

Absence or underdevelopment of the kidney.

Clinodactyly of the 5th finger

Clinodactyly refers to a bending or curvature of the fifth finger in the radial direction (i.e., towards the 4th finger).

Abnormality of femur morphology

Any anomaly of the structure of the femur.

Anorexia

A lack or loss of appetite for food (as a medical condition).

Macrodontia

Increased size of the teeth, which can be defined as a mesiodistal tooth diameter (width) more than 2 SD above mean for age. Alternatively, an apparently increased maximum width of the tooth.

Oligohydramnios

Diminished amniotic fluid volume in pregnancy.

Long eyelashes

Mid upper eyelash length >10 mm or increased length of the eyelashes (subjective).

Dental malocclusion

Dental malocclusion refers to an abnormality of the occlusion, or alignment, of the teeth and the way the upper and lower teeth fit together, resulting in overcrowding of teeth or in abnormal bite patterns.

Abnormal foot morphology

An abnormality of the skeleton of foot.

Reduced bone mineral density

A reduction of bone mineral density, that is, of the amount of matter per cubic centimeter of bones.

Clinodactyly

An angulation of a digit at an interphalangeal joint in the plane of the palm (finger) or sole (toe).

Chromosome breakage

Elevated rate of chromosomal breakage or interchanges occurring either spontaneously or following exposure to various DNA-damaging agents. This feature may be assayed by treatment of cultured lymphocytes with agents such as chemical mutagens, irradiation, and alkylating agents.

Atrial septal defect

Atrial septal defect (ASD) is a congenital abnormality of the interatrial septum that enables blood flow between the left and right atria via the interatrial septum.

Anemia

A reduction in erythrocytes volume or hemoglobin concentration.

Thick upper lip vermillion

Height of the vermillion of the upper lip in the midline more than 2 SD above the mean. Alternatively, an apparently increased height of the vermillion of the upper lip in the frontal view (subjective).

Finger syndactyly

Webbing or fusion of the fingers, involving soft parts only or including bone structure. Bony fusions are referred to as "bony" Syndactyly if the fusion occurs in a radio-ulnar axis. Fusions of bones of the fingers in a proximo-distal axis are referred to as "Symphalangism".

Intrauterine growth retardation

An abnormal restriction of fetal growth with fetal weight below the tenth percentile for gestational age.

Abnormal renal morphology

Any structural anomaly of the kidney.

Abnormal aortic morphology

An abnormality of the aorta.

Somatic mutation

A mode of inheritance in which a trait or disorder results from a de novo mutation occurring after conception, rather than being inherited from a preceding generation.

External ear malformation

A malformation of the auricle of the ear.

Abnormal carotid artery morphology

Any structural abnormality of the carotid arteries, including the common carotid artery and its' arterial branches.

Abnormal preputium morphology

An abnormality of the retractable fold of skin that covers the tip of the penis.

Upslanted palpebral fissure

The palpebral fissure inclination is more than two standard deviations above the mean for age (objective); or, the inclination of the palpebral fissure is greater than typical for age.

Cranial nerve paralysis**Neoplasm of the liver**

A tumor (abnormal growth of tissue) of the liver.

Abnormal testis morphology

An anomaly of the testicle (the male gonad).

Frontal bossing

Bilateral bulging of the lateral frontal bone prominences with relative sparing of the midline.

Abnormality of blood and blood-forming tissues

An abnormality of the hematopoietic system.

Proptosis

An eye that is protruding anterior to the plane of the face to a greater extent than is typical.

Constipation

Infrequent or difficult evacuation of feces.

Prostate cancer

A cancer of the prostate.

Intellectual disability

Subnormal intellectual functioning which originates during the developmental period. Intellectual disability, previously referred to as mental retardation, has been defined as an IQ score below 70.

Duodenal stenosis

The narrowing or partial blockage of a portion of the duodenum.

Low anterior hairline

Distance between the hairline (trichion) and the glabella (the most prominent point on the frontal bone above the root of the nose), in the midline, more than two SD below the mean. Alternatively, an apparently decreased distance between the hairline and the glabella.

Choanal atresia

Absence or abnormal closure of the choana (the posterior nasal aperture).

Anal atresia

Congenital absence of the anus, i.e., the opening at the bottom end of the intestinal tract.

Cleft palate

Cleft palate is a developmental defect of the palate resulting from a failure of fusion of the palatine processes and manifesting as a separation of the roof of the mouth (soft and hard palate).

Chronic fatigue

Subjective feeling of tiredness characterized by a lack of energy and motivation that persists for six months or longer.

Absent testis

Testis not palpable in the scrotum or inguinal canal.

Elevated hepatic transaminase

Elevations of the levels of SGOT and SGPT in the serum. SGOT (serum glutamic oxaloacetic transaminase) and SGPT (serum glutamic pyruvic transaminase) are transaminases primarily found in the liver and heart and are released into the bloodstream as the result of liver or heart damage. SGOT and SGPT are used clinically mainly as markers of liver damage.

Ventriculomegaly

An increase in size of the ventricular system of the brain.

Micrognathia

Developmental hypoplasia of the mandible.

Hydroureter

The distention of the ureter with urine.

Hearing impairment

A decreased magnitude of the sensory perception of sound.

Intestinal pseudo-obstruction

A functional rather than mechanical obstruction of the intestines, associated with manifestations that resemble those caused by an intestinal obstruction, including distension, abdominal pain, nausea, vomiting, constipation or diarrhea, in an individual in whom a mechanical blockage has been excluded.

Autosomal recessive inheritance

A mode of inheritance that is observed for traits related to a gene encoded on one of the autosomes (i.e., the human chromosomes 1-22) in which a trait manifests in individuals with two pathogenic alleles, either homozygotes (two copies of the same mutant allele) or compound heterozygotes (whereby each copy of a gene has a distinct mutant allele).

Blepharophimosis

A fixed reduction in the vertical distance between the upper and lower eyelids with short palpebral fissures.

Exocrine pancreatic insufficiency

Impaired function of the exocrine pancreas associated with a reduced ability to digest foods because of lack of digestive enzymes.

Patent ductus arteriosus

In utero, the ductus arteriosus (DA) serves to divert ventricular output away from the lungs and toward the placenta by connecting the main pulmonary artery to the descending aorta. A patent ductus arteriosus (PDA) in the first 3 days of life is a physiologic shunt in healthy term and preterm newborn infants, and normally is substantially closed within about 24 hours after birth and completely closed after about three weeks. Failure of physiological closure is referred to a persistent or patent ductus arteriosus (PDA). Depending on the degree of left-to-right shunting, PDA can have clinical consequences.

Myelodysplasia

Clonal hematopoietic stem cell disorders characterized by dysplasia (ineffective production) in one or more hematopoietic cell lineages, leading to anemia and cytopenia.

Recurrent urinary tract infections

Repeated infections of the urinary tract.

Abnormality of chromosome stability

A type of chromosomal aberration characterised by reduced resistance of chromosomes to change or deterioration.

Short stature

A height below that which is expected according to age and gender norms. Although there is no universally accepted definition of short stature, many refer to "short stature" as height more than 2 standard deviations below the mean for age and gender (or below the 3rd percentile for age and gender dependent norms).

Azoospermia

Absence of any measurable level of sperm in his semen.

Anteverted nares

Anteriorly-facing nostrils viewed with the head in the Frankfurt horizontal and the eyes of the observer level with the eyes of the subject. This gives the appearance of an upturned nose (upturned nasal tip).

Nystagmus

Rhythmic, involuntary oscillations of one or both eyes related to abnormality in fixation, conjugate gaze, or vestibular mechanisms.

Hip dislocation

Displacement of the femur from its normal location in the hip joint.

Abnormal cardiac septum morphology

An anomaly of the intra-atrial or intraventricular septum.

Tracheoesophageal fistula

An abnormal connection (fistula) between the esophagus and the trachea.

Arteriovenous malformation

An anomalous configuration of blood vessels that shunts arterial blood directly into veins without passing through the capillaries.

Cataract

A cataract is an opacity or clouding that develops in the crystalline lens of the eye or in its capsule.

Scoliosis

The presence of an abnormal lateral curvature of the spine.

Extrahepatic cholestasis

Impairment of bile flow due to obstruction in large bile ducts outside the liver.

Triphalangeal thumb

A thumb with three phalanges in a single, proximo-distal axis. Thus, this term applies if the thumb has an accessory phalanx, leading to a digit like appearance of the thumb.

Leukopenia

An abnormal decreased number of leukocytes in the blood.

Aplasia/Hypoplasia of the uvula

Underdevelopment or absence of the uvula.

Hydrocephalus

Hydrocephalus is an active distension of the ventricular system of the brain resulting from inadequate passage of CSF from its point of production within the cerebral ventricles to its point of absorption into the systemic circulation.

Pancreatic adenocarcinoma

The presence of an adenocarcinoma of the pancreas.

Short palpebral fissure

Distance between the medial and lateral canthi is more than 2 SD below the mean for age (objective); or, apparently reduced length of the palpebral fissures.

Hypertrophic cardiomyopathy

Hypertrophic cardiomyopathy (HCM) is defined by the presence of increased ventricular wall thickness or mass in the absence of loading conditions (hypertension, valve disease) sufficient to cause the observed abnormality.

Decreased fertility in males

Abnormality of the liver

An abnormality of the liver.

Neoplasm

An organ or organ-system abnormality that consists of uncontrolled autonomous cell-proliferation which can occur in any part of the body as a benign or malignant neoplasm (tumour).

Abnormal thumb morphology

An abnormal structure of the first digit of the hand.

Meckel diverticulum

Meckel's diverticulum is a congenital diverticulum located in the distal ileum.

Almond-shaped palpebral fissure

A shape created by an acute downward arching of the upper eyelid and upward arching of the lower eyelid, toward the medial canthus, which gives the outline of the palpebral fissures the configuration of an almond. Thus, the maximum distance between the fissures is offset from, and medial to, the center point.

Delayed speech and language development

A degree of language development that is significantly below the norm for a child of a specified age.

Aplasia/Hypoplasia of the iris

Absence or underdevelopment of the iris.

Abnormal nervous system morphology

A structural anomaly of the nervous system.

Primary peritoneal carcinoma

A type of cancer that originates in the peritoneum. It is to be distinguished from metastatic cancer of the peritoneum. Peritoneal cancer can occur anywhere in the abdominal space, and affects the surface of organs contained inside the peritoneum.

Back pain

An unpleasant sensation characterized by physical discomfort (such as pricking, throbbing, or aching) localized to the back.

Global developmental delay

A delay in the achievement of motor or mental milestones in the domains of development of a child, including motor skills, speech and language, cognitive skills, and social and emotional skills. This term should only be used to describe children younger than five years of age.

Thrombocytopenia

A reduction in the number of circulating thrombocytes.

Pyridoxine-responsive sideroblastic anemia

A type of sideroblastic anemia that is alleviated by pyridoxine (vitamin B-6) treatment.

Prominent nasal bridge

Anterior positioning of the nasal root in comparison to the usual positioning for age.

Growth delay

A deficiency or slowing down of growth pre- and postnatally.

Multiple cafe-au-lait spots

The presence of six or more cafe-au-lait spots.

Proximal placement of thumb

Proximal mislocalization of the thumb.

Coarse facial features

Absence of fine and sharp appearance of brows, nose, lips, mouth, and chin, usually because of rounded and heavy features or thickened skin with or without thickening of subcutaneous and bony tissues.

Hypospadias

Abnormal position of urethral meatus on the ventral penile shaft (underside) characterized by displacement of the urethral meatus from the tip of the glans penis to the ventral surface of the penis, scrotum, or perineum.

Visual impairment

Visual impairment (or vision impairment) is vision loss (of a person) to such a degree as to qualify as an additional support need through a significant limitation of visual capability resulting from either disease, trauma, or congenital or degenerative conditions that cannot be corrected by conventional means, such as refractive correction, medication, or surgery.

Hypertelorism

Interpupillary distance more than 2 SD above the mean (alternatively, the appearance of an increased interpupillary distance or widely spaced eyes).

Spina bifida

Incomplete closure of the embryonic neural tube, whereby some vertebral arches remain unfused and open. The mildest form is spina bifida occulta, followed by meningocele and meningomyelocele.

Strabismus

A misalignment of the eyes so that the visual axes deviate from bifoveal fixation. The classification of strabismus may be based on a number of features including the relative position of the eyes, whether the deviation is latent or manifest, intermittent or constant, concomitant or otherwise and according to the age of onset and the relevance of any associated refractive error.

Functional intestinal obstruction

Ovarian neoplasm

A tumor (abnormal growth of tissue) of the ovary.

Tetralogy of Fallot

A congenital cardiac malformation comprising pulmonary stenosis, overriding aorta, ventricular septum defect, and right ventricular hypertrophy. The diagnosis of TOF is made if at least three of the four above mentioned features are present.

Heterogeneous

Microphthalmia

A developmental anomaly characterized by abnormal smallness of one or both eyes.

Abnormal fallopian tube morphology

An abnormality of the fallopian tube.

Diabetes mellitus

A group of abnormalities characterized by hyperglycemia and glucose intolerance.

Multifactorial inheritance

A mode of inheritance that depends on a mixture of major and minor genetic determinants possibly together with environmental factors. Diseases inherited in this manner are termed complex diseases.

Ovarian carcinoma

A malignant neoplasm originating from the surface ovarian epithelium.

Hypoplasia of the ulna

Underdevelopment of the ulna.

Abdominal distention

Distention of the abdomen.

Peritoneal abscess

The presence of an abscess of the peritoneum.

Abnormality of the hypothalamus-pituitary axis

Abnormality of the pituitary gland (also known as hypophysis), which is an endocrine gland that protrudes from the bottom of the hypothalamus at the base of the brain. The pituitary gland secretes the hormones ACTH, TSH, PRL, GH, endorphins, FSH, LH, oxytocin, and antidiuretic hormone. The secretion of hormones from the anterior pituitary is under the strict control of hypothalamic hormones, and the posterior pituitary is essentially an extension of the hypothalamus, so that hypothalamus and pituitary gland may be regarded as a functional unit.

Hyperreflexia

Hyperreflexia is the presence of hyperactive stretch reflexes of the muscles.

Abnormal localization of kidney

An abnormal site of the kidney.