



National Coordinating Center
for the Regional Genetics Networks

**The National Coordinating Center for the
Regional Genetics Networks**

Glossary of Prenatal Genetics Terms

English – Korean

2022 Edition

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In collaboration with:
**The Cross Cultural Health Care
Program (CCHCP)**

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Acknowledgments

Mission of the NCC

The National Coordinating Center for the Regional Genetics Networks (NCC) has been funded by the Health Resources and Services Administration (HRSA) since 2004. Our mission is to improve access to genetics for underserved populations. This mission is accomplished through different programs, many of which are educational tools and resources for non-genetics professionals. Learn more at <https://nccrcg.org>.

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Cindy Roat is an international consultant in language access in health care and patient navigation. She provides training and consulting for health care interpreters, providers, administrators, and patient navigators. Cindy compiled and edited this glossary for the NCC.

The Cross Cultural Health Care Program

The mission of The Cross Cultural Health Care Program (CCHCP) is to serve as a bridge between communities and health care institutions to advance access to quality health care that is culturally and linguistically appropriate. CCHCP provides resources, such as bilingual medical glossaries, as well as medical interpreter, patient navigator, and cultural competence training for individuals and institutions with the goal of systems change. Learn more at: <https://xculture.org>

CCHCP is supporting and coordinating the translation process of this glossary and is providing the glossary free of charge in its online store: <https://xculture.org/store/>

Table of Contents

Preface	5
How to Use the Glossary.....	5
Glossary of Terms.....	7
Family Relationships.....	21
Analogies	27
Index	29



Preface

The seven Regional Genetics Networks (RGNs), the National Genetics Education and Family Support Center (Family Center), and the National Coordinating Center for the Regional Genetics Networks (NCC) mission is to improve access to quality genetic services for medically underserved populations. This bilingual glossary of terms related to Prenatal Genetics is provided to help enable access to prenatal medical services to limited English proficiency populations.

How to Use the Glossary

This glossary is organized alphabetically in English. The first column shows the term in English. The second column has the definition of the term in English. The third column has the translation of the term.

At the end of the translations of the prenatal genetics terms are:

- A glossary of translations for family relationships terms. It is very important for genetic counselors to know if a relative is a blood relative or a relative by marriage.
- Examples of analogies used in genetics. Genetic counselors often use analogies to explain complex ideas in genetics. An analogy explains a new concept by comparing it to something more common.

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Glossary of Terms

English – Korean

(n) – noun (v) – verb (adj) – adjective (adv) – adverb

Term	Definition	Translation
Abnormal (adj)	Different from what is considered normal, average, or expected, e.g., a gene sequence that is different than that found in most people.	비정상적
Abortion (n)	The deliberate ending of a pregnancy by the removal of an embryo or fetus from the womb. Technically, this is called an “induced abortion” in order to distinguish it from a “spontaneous abortion” which is also called a miscarriage or stillbirth. Also called a “termination of pregnancy” or just “termination.”	낙태
Adoption (n)	The process of legally taking someone else’s child into your family to raise as your own child.	입양
Amniocentesis (n)	A procedure by which a sample of amniotic fluid is withdrawn from the amniotic sac. This is usually done by inserting a long needle through the abdominal and uterine walls with the guidance of ultrasound.	양수 천자
Amniotic fluid (n)	The liquid that surrounds a fetus as it develops in the uterus. This liquid contains skin cells that have sloughed off the fetus as well as other fetal cells.	양수
Anencephaly (n)	A neural tube defect that results in insufficient brain growth in a fetus. Babies with anencephaly usually die soon after birth or are stillborn.	무뇌증
Benign (adj)	Something that does not threaten health or life. May refer to a type of change to the DNA that does not create health consequences. E.g., when discussing cancer, “benign” means “not cancerous.”	양성
Birth canal (n)	The passageway from the uterus through the cervix, the vagina, and the vulva through which a baby passes during the birth process.	산도

Term	Definition	Translation
Birth defect (n)	A problem or physical difference with how the body works that is present at birth. Birth defects can be caused by genetic abnormalities, environmental influences, random chance, or by circumstances related to the birth process. Also called “congenital malformation” or “congenital anomaly.”	선천성 결함
Blood test (n)	A test in which blood is drawn (usually from the patient’s arm) and sent to a laboratory for analysis. In genetics, blood tests may provide cells for genetic sequencing, or blood samples may be used to assess things like protein or hormone levels.	혈액 검사
Buccal swab (n)	A way to collect DNA from the cells on the inside of a person's cheek.	구강 스왑
Carrier (n)	A person who has a genetic mutation in one of their two copies of a particular gene that is associated with a genetic condition. The other copy of the gene does not have a mutation, so that person usually does not have any medical issues related to the gene change.	보인자
Cell (n)	The smallest (microscopic) functional unit of living organisms. All living things are composed of one or more cells. Within each cell are the structures needed for the cell to process energy, dispose of waste, reproduce, and perform specialized functions.	세포
Cervix (n)	The narrow lower part of the uterus than connects to the vagina.	자궁 경부
Chorionic Villus Sampling (CVS) (n)	A procedure during pregnancy in which a sample of cells from the placenta is removed to check for possible genetic abnormalities.	융모막 융모 샘플링 (CVS)
Chromosome (n)	Thread-like structures located inside the nucleus of cells. In humans, there are 23 pairs of chromosomes, for a total of 46 chromosomes. Each chromosome is made of a long strand of DNA, which carries genetic information.	염색체
Chromosome test / Karyotype (n)	A test that looks at the number and types of chromosomes in a cell.	염색체 검사/핵형
Cleft lip (n)	A congenital malformation that occurs when the upper lip does not form properly, causing an opening in the upper lip that can extend to the nose. This can occur together with a cleft palate or on its own.	구순열

Term	Definition	Translation
Cleft palate (n)	A congenital malformation where the roof of the mouth (palate) does not form properly, resulting in an opening into the nasal cavity. This can occur together with a cleft lip or on its own.	구개열
Clinically significant (adj)	If a test result is “clinically significant,” the result indicates a medical problem that can impact a person’s life.	임상적 유의성
Condition (e.g., “genetic condition”) (n)	A long-term medical health issue.	조건 (예: ‘유전적 조건’)
Consanguinity (n)	When parents are blood relatives to each other.	혈족
Cystic fibrosis (n)	A progressive genetic condition that affects the exocrine glands (the glands that make sweat and digestive juices) and causes the production of thick, sticky mucus. This mucus blocks the pancreatic duct, the intestines, and the lungs, leading to persistent respiratory infections.	낭성 섬유증
Deleterious mutation/ Disease-causing mutation (n)	A change in a person’s DNA that may cause a medical condition.	해로운 변이/질병을 일으키는 변이
Deletion (n)	Having a section of genetic information (DNA) missing.	결실
Diagnostic test (n)	A medical test that determines whether a patient has a particular medical problem. Diagnostic tests are often used when providers have a specific reason to believe that the medical problem may be present. Compare this to screening tests, which may be given routinely, even if the provider has no reason to believe the patient has a specific problem. Screening tests often only report whether a patient is at <u>an increased risk</u> for the medical problem in question, whereas diagnostic tests report whether the problem is actually present.	진단 검사

Term	Definition	Translation
DNA (Deoxyribonucleic Acid) (n)	<p>The material that carries the genetic information of a cell. It provides the instructions used in the development, functioning and reproduction of the organism of which it is a part.</p> <p>If you could stretch out the DNA of a chromosome and look at it through a microscope, it would look like a long ladder that is twisted into a spiral. The 'sides' of the ladder are made up of alternating phosphate and sugar groups. The 'rungs' are various combinations of two nitrogen bases: Adenine-Thymine and Cytosine-Guanine.</p> <p>Individual sections of DNA that code for specific traits/functions are called genes.</p>	DNA (데옥시리보핵산)
DNA marker (also called a "Genetic marker") (n)	A readily recognizable genetic trait, gene, or DNA segment.	DNA 마커('유전자 마커'라고도 칭함)
DNA mutation (n)	<p>A change in the typical sequence of the chemicals that make up the DNA, like the change in the order of letters in a word.</p> <p>Mutations or variants are often compared to misspelled words because chemicals that make up the DNA sequence are not in the expected order.</p>	DNA 변이
DNA sequence (n)	The exact arrangement of the chemicals that make up a section of DNA.	DNA 염기서열
DNA sequencing (n)	The laboratory technique used to determine the exact arrangement of the chemicals that make up a section of DNA. This is one type of genetic testing.	DNA 염기서열 분석
Dominant (adj)	A genetic trait in which one copy of the gene is sufficient for a trait to be expressed. In a dominant genetic condition, if one copy of the gene has a mutation, the personal will be affected with the condition.	우성
Donor egg or sperm (n)	An egg (singular) or sperm (plural) donated by one person to be joined under laboratory conditions and implanted in a woman's uterus. The donor egg or sperm may come from the woman or man who will raise any resulting child, or they may come from a third party.	난자 또는 정자 기증자

Term	Definition	Translation
Down syndrome (Trisomy 21) (n)	A genetic condition in which there are three copies of chromosome number 21 instead of two. Down syndrome causes a distinct facial appearance, intellectual disability, developmental delays, and may be associated with thyroid or heart disease.	다운증후군 (21 삼체성)
Duplication (n)	Having an extra section of genetic information (DNA). A duplication occurs when part of a chromosome is copied abnormally, resulting in extra genetic material.	복제
Edwards syndrome (Trisomy 18) (n)	A genetic condition in which there are three copies of chromosome number 18 instead of two. Trisomy 18 is a very severe condition that causes problems with the brain, the heart, the kidneys, and the digestive tract. Most children affected by trisomy 18 die before or soon after birth.	에드워드 증후군 (18 삼체성)
Egg (n)	The reproductive cells of a woman. When fertilized by sperm, the egg will grow into an embryo. Also called an "ovum," plural "ova."	난자
Embryo (n)	An unborn mammal, between conception and 8 weeks of gestation.	배아
Fallopian tube (n)	The tube that connects an ovary to the uterus.	난관
False negative (n)	A test result that finds no evidence of a condition when the condition actually does exist. For example, a false negative on a pregnancy test finds that the woman is not pregnant when, in fact, she is pregnant.	가음성
False positive (n)	A test result that finds evidence of a condition when the condition does NOT actually exist. For example, a false positive on a pregnancy test finds that the woman is pregnant when, in fact, she is not.	가양성
Familial (adj)	Belonging to a family, e.g., a familial trait is a trait that is shared among family members and may be due to genetic or environmental factors or both.	가족성
Family history (n)	The medical history of the members of a biological family.	내력
Fertilization (n)	The joining of an egg and sperm to create the first cell that will develop into an embryo, then fetus, then baby.	수정
Fetal surgery (n)	Surgery conducted on a fetus while it is still in the uterus.	태아 수술

Term	Definition	Translation
Fetus (n)	An unborn mammal, between 8 weeks of gestation to birth.	태아
First trimester screening (n)	A blood test and ultrasound conducted at 10-13 weeks of pregnancy to screen for Down syndrome (trisomy 21), Edwards syndrome (trisomy 18), and certain other fetal problems.	제 1 삼분기 선별검사
Flip a coin (v)	A random decision-making tool used in the U.S. While a coin is flipped into the air and caught, a person predicts whether it will fall with the “heads” side up or the “tails” side up. If the coin falls as predicted, the person “wins.” This expression is often used as a metaphor for any outcome that is random and has two possible outcomes, and to describe a situation in which each outcome is as likely as the other.	동전 던지가하다
Fragile X syndrome (n)	A genetic condition that affects the FMR1 gene so that it does not function properly. This syndrome causes intellectual disability, behavioral and learning challenges and various physical characteristics that are not life threatening.	유약 X 증후군
Fragment (n)	A small piece; an incomplete part of a whole.	절편
Gene (n)	A specific sequence of DNA that codes for one or many functions within the cell and body.	유전자
General population (n)	<p>“Most people.”</p> <p>For example, if you have the same risk of getting cancer as the general population, that means that you have the same chance of getting cancer as everyone else. This is in contrast to a “high risk population” who has a greater chance of getting cancer than everyone else.</p>	일반 인구
Generation (n)	<p>The people who constitute a single step in a line of descent from an ancestor; a group of people born and living more or less at the same time.</p> <p>Example: You, your brothers, and sisters, all your spouses and your cousins are in the same generation. Your parents, your aunts, and uncles and all their spouses form a previous generation. Your grandparents, their siblings, and spouses from an even earlier generation. Your children and nieces and nephews form a later generation.</p>	세대

Term	Definition	Translation
Genetics (adj)	The science of how an organism's genes interact with the environment to produce certain traits.	유전학적
Genetic counseling (n)	A discussion with a medical professional with expertise in genetics about the basic concepts of genetics, genetic conditions, the chances of being affected by a genetic condition or having a child with a genetic condition, and genetic testing and treatment.	유전 상담
Genetic counseling intern (n)	A genetic counseling student who has not yet completed his/her academic studies and is now practicing under the supervision of a more experienced counselor in preparation for providing genetic counseling services independently after obtaining his/her graduate degree.	유전 상담 인턴
Genetic counselor (n)	A healthcare professional with a specialized graduate degree who works with people who have concerns about genetic conditions in their family. Genetic counselors provide information about genetic conditions, help patients understand their chances of being affected by a genetic condition or having a child with a genetic condition, and help them make informed decisions about testing and treatment. Genetic counselors also provide emotional support to patients and families.	유전 상담가
Genetic discrimination (n)	Occurs when people are treated differently by their employer or insurance company due to their genetic makeup. There are federal and state laws that help protect against genetic discrimination.	유전적 차별
Genetic factors (n)	Specific aspects of a person's genetic make-up that influence that person's health and development.	유전적 요소
Genetic information (n)	The instructions encoded in DNA, which tells every cell in a body how to grow, what to do and how to reproduce.	유전 정보
Genetic material (n)	All the parts of a cell that carry genetic information. Genetic material could include genes, parts of genes, a group of genes, a DNA molecule, a fragment of DNA, a group of DNA molecules, or the entire set of genetic instructions.	유전 물질
Genetic predisposition (n)	An increased chance of a person developing a certain trait or disease based on that person's particular genetic makeup.	유전적 소인
Genetic test (n)	A laboratory test designed to determine if a person has a change to their DNA.	유전 검사

Term	Definition	Translation
Genetic trait (n)	A characteristic within a family that is passed down from parent to child through their DNA.	유전 형질
Genetic variant (n)	A change from the typical DNA sequences. A genetic variant can be benign, deleterious or of uncertain significance. Also called “mutation,” although “genetic variant” is becoming the more common usage.	유전적 변이체
Geneticist (n)	A doctor or scientist who studies genetics.	유전학자
Hereditary (adj)	Passed down from parent to child.	유전성
Hereditary material (n)	Genetic material that is passed down from parent to child.	유전물질
In Vitro Fertilization (IVF) (n)	<p>The fertilization of an egg by a sperm outside of a woman’s body.</p> <p>The process involves extracting eggs from a woman’s ovaries, collecting sperm from a man, and combining a sperm and egg in a laboratory dish. The resulting fertilized egg is usually then implanted in a woman’s uterus so that it can develop into a baby.</p>	체외수정 (IVF)
Infertility (n)	The inability to have children.	난임
Informed consent (n)	The process of agreeing to a procedure or course of treatment after understanding what the procedure/treatment entails, the potential risks and benefits associated with it, and the other options available.	사전동의
Inheritance pattern (n)	The manner in which a particular genetic trait or disorder is passed from a parent to a child, e.g., autosomal dominant or recessive, X-linked dominant or recessive, or multifactorial.	상속 양식
Inherited (adj)	Passed down from parent to child.	상속된
Insertion (n)	Having an extra segment of DNA added in at a place where it is not usually found.	삽입
Intellectual disability (n)	A condition, varying in severity, in which a person has significant impairments in mental abilities, social skills, and core functions of daily living compared to others their age.	지적 장애

Term	Definition	Translation
Klinefelter's syndrome (47, XXY) (n)	A genetic condition in which a male has two copies of the X chromosome and one copy of the Y chromosome; compared to the typical chromosome makeup where a male has one X chromosome and one Y chromosome.	클라인펠터 증후군 (47, XXY)
Marker chromosome (n)	A small extra fragment of a chromosome detected when doing a chromosome test like a karyotype. Marker chromosomes can sometimes cause health or development problems, depending on how much and what genetic material is contained within.	마커 염색체
Maternal Serum Screening (MSS or maternal serum alpha-fetoprotein test) (n)	A blood test available to pregnant women that identifies elevated risks for Down syndrome, trisomy 18 and neural tube defects. Usually conducted at in the second trimester, between 14-20 weeks.	모체혈청 선별검사(MSS 또는 모체혈청 알파태아단백 검사)
Microarray (n)	A high-resolution chromosome test that provides more information than a basic karyotype. A microarray measures the amount of chromosome material in a sample and can detect both large changes (e.g., if there is an extra or missing chromosome) as well as small changes (e.g., if there are very small pieces of chromosomes that are extra or missing). It does not look at the visual appearance or arrangement of chromosomes but measures the amount of genetic material.	마이크로어레이
Miscarriage (n)	The spontaneous (not intentional) loss of a pregnancy. See "abortion." Also called pregnancy loss.	유산
Molecule (n)	The smallest unit of a chemical compound that still has the properties of that compound. For example, a molecule of water is made up of two hydrogen atoms and one oxygen atom. Separately, they are just atoms, but when bonded together, they make a water molecule.	분자
Mosaicism (n)	A condition in which some, but not all, cells in a sample show a genetic difference.	섞임증
Multifactorial (adj)	Due to a combination of genetic and non-genetic (environmental, hormonal, etc.) risk factors that act together to determine risk.	다인성
Mutation (n)	A change in a gene, usually deleterious. See "genetic variant." In Spanish, the word is sometimes confused with "mutilation."	변이

Term	Definition	Translation
Non-Invasive Prenatal Testing (NIPT) (n)	A blood test available to pregnant women that identifies elevated risk for certain genetic conditions in the fetus. This test focuses on fragments of DNA from placental cells – which carry the fetus’ genetic make-up – that are found in the mother’s bloodstream.	비침습적 산전검사 (NIPT)
Nuchal thickening (n)	There is a pocket of fluid at the back of the neck of a fetus which can be measured in an ultrasound between 10-14 weeks gestation (called the nuchal translucency). If there is a large amount of fluid at this point, or if later in pregnancy the neck skin itself appears to be thicker, this is associated with a higher risk of chromosome problems and other rare genetic conditions.	후경부 투명대
Open Neural Tube Defect (ONTD) (n)	A birth defect of the spine, spinal cord, or brain that results from a hole in the spinal column not closing up when appropriate during early fetal development. The two most common types of ONTDs are spina bifida and anencephaly.	개방성 신경관 결손 (ONTD)
Ova (n)	See “egg.”	난자
Ovary (n)	The organ in a woman that stores and releases eggs. There are normally two.	난소
Penetrance (n)	The probability that a specific genetic trait will be expressed if a person carries a mutation. “Complete penetrance” means that everyone who carries a particular gene mutation will show the trait related to that altered gene. “Incomplete penetrance” means that only some of the people who have the altered gene will actually show the related trait.	침투
Placenta (n)	The organ that develops together with an embryo in a pregnant woman’s uterus to nourish the embryo through the umbilical cord.	태반 (n)
Presymptomatic (adj)	Before symptoms appear.	증상 발현 전 단계
Prognosis (n)	The most likely outcome of a disease process.	예후
Protein (n)	A molecule made up of chains of amino acids. Proteins do most of the work in cells and are required for the structure, function, and regulation of the body's tissues and organs. Genes determine how specific amino acids are put together to form a specific protein.	단백질

Term	Definition	Translation
Random (adj)	Happening in an unpredictable way.	무작위성
Recessive (adj)	<p>A genetic trait in which both copies of a gene need to be altered for the trait to be expressed; recessive traits are typically inherited from both parents, each one contributing one copy of the gene in question.</p> <p>In prenatal genetics, recessive inheritance refers to conditions in which both copies of a particular gene pair need to be altered to develop a specific disease or condition.</p>	열성
Red flag (n)	A warning sign or a clue.	적신호
Replicate (v)	To copy.	복제하다
Reproductive history (n)	The experiences a woman has had related to pregnancy and childbirth. A reproductive history usually includes age at the onset of menses (have a monthly period), age at the beginning of sexual intercourse, age at first conception, number of pregnancies, number of live births, number of miscarriages, number of abortions.	출산 이력
Ring chromosome (n)	An abnormal formation of a chromosome in which the ends of two of the chromosome's arms have linked together to form a ring.	고리 염색체
<p>Risk (n)</p> <p>At risk (adj)</p> <p>At average risk (adj)</p> <p>At high risk (adj)</p> <p>At higher risk than "X" (adj)</p> <p>Risk factor (n)</p>	<p>The chance that something will happen; in the case of prenatal genetics, the chance that the child will have a genetic condition.</p> <p>Has some possibility of having a genetic condition.</p> <p>Has the same possibility of having a genetic condition as the general population.</p> <p>Has a greater possibility of having a genetic condition than the general population.</p> <p>Has a greater possibility of having a genetic condition than "X".</p> <p>A circumstance that increases the risk of having a genetic condition.</p>	<p>위험</p> <p>위험적</p> <p>평균 위험</p> <p>고위험적</p> <p>'X' 보다 위험적</p> <p>위험 요인</p>

Term	Definition	Translation
Runs in the family (e.g., sickle cell disease runs in the family) (v)	When a certain condition or trait seems to appear in many members of a single family	집안 내력이 있다 (예: 겸형 적혈구병은 집안 내력이다)
Screen (v)	To assess a person’s risk for a particular health problem, even if the person has no symptoms to suggest that they have the problem.	선별검사하다
Screening test (n)	<p>A test that looks to detect a particular health problem, even if a patient has no symptoms of that particular condition.</p> <p>Prenatal screening tests aren’t looking for genetic changes. They are designed to look at hormones, chemicals, other things that indicate a fetus might have a higher risk of a certain condition. They are not DNA results, do not give a definite answer about whether someone is affected, and do not provide a firm diagnosis. They are usually reported as a risk number (e.g., 1 in ____ chance), and if this number is above a certain cut-off point, the result will be categorized as ‘screen positive’ or ‘screen negative’.</p>	선별검사
Semen (n)	A liquid produced by the testes, the prostate gland, the seminal vesicle, and the bulbourethral gland that carries, nourishes and protects sperm cells on their way to fertilizing an egg. Also called seminal fluid.	정액
Seminal fluid (n)	See “semen.”	정액
Sickle cell disease (n)	A genetic disorder caused by a mutation in a gene that helps to make hemoglobin, an important part of red blood cells. In sickle cell disease, red blood cells can become sickle-shaped (instead of round as they should be). These affected blood cells do not function properly, and die early, leaving a shortage of red blood cells, and can block blood flow causing pain.	겸형 적혈구병
Sperm (n)	The reproductive cells of the man. When sperm fertilize a woman’s egg, a baby develops.	정자
Sperm donation (n)	The process through which a man allows his sperm to be collected and used to fertilize the eggs of a woman who is not his sexual partner.	정자 기증

Term	Definition	Translation
Spina bifida (n)	A congenital defect of the spine in which part of the spinal cord is exposed through an opening in the bone structure. This may result in nerve damage and some degree of paralysis in the legs.	척추 이분증
Statistically significant (adj)	A measurement of whether the findings of research are meaningful. Refers to the likelihood that a relationship between two factors is linked by something other than chance.	통계적 유의성
Teratogen (n)	Something that has the potential to disturb the normal development of an embryo or fetus.	기형원
Termination of pregnancy (n)	See “abortion.”	임신중절
<p data-bbox="185 751 342 810">Test result (n) negative (adj)</p> <p data-bbox="232 978 378 1010">Positive (adj)</p> <p data-bbox="232 1367 399 1461">Variant of uncertain significance (n)</p> <p data-bbox="232 1724 431 1755">Polymorphism (n)</p>	<p data-bbox="498 751 1092 940">A negative result on a diagnostic genetic test means that the laboratory did not find the specific genetic change that the test was designed to identify. A “screen negative” result on a screening test means that the person’s risk of having whatever the test was designed to find is lower than the risk for most people.</p> <p data-bbox="498 978 1092 1104">A positive result on a diagnostic genetic test means that the laboratory did find a specific genetic change that is associated with a hereditary condition (a deleterious mutation).</p> <p data-bbox="498 1142 1092 1293">A “screen positive” result on a screening test means that the person’s risk of having whatever the test screened for is significantly higher than expected. That still does not mean that the person definitely has that condition.</p> <p data-bbox="498 1367 1092 1682">If the laboratory finds a genetic change for which currently there is not enough information to know if this change is problematic or not, it reports a “variant of uncertain significance.” Basically, this means that the laboratory found a genetic change, but they don’t know what it means. Many of these variants will eventually be reclassified as either a “positive” or “negative” result. Most become “negative” and are thought to represent natural variation between individuals.</p> <p data-bbox="498 1724 1092 1850">Everyone has some degree of commonly occurring genetic changes that are not associated with medical problems. If the test finds this sort of change, it reports a “polymorphism.”</p>	<p data-bbox="1118 751 1235 831">검사 결과 음성</p> <p data-bbox="1143 978 1198 1010">양성</p> <p data-bbox="1143 1388 1341 1419">불확실성 변이형</p> <p data-bbox="1143 1755 1224 1787">다형성</p>

Term	Definition	Translation
Testes (n)	The organs in a man that create and release sperm. Also called “testicles.” Singular testis.	고환
Toxic exposure (n)	Contact with something that is harmful or poisonous.	독성 노출
Trait (n)	A characteristic of a person. In genetics, traits are aspects of a person defined or influenced by their genetic code. E.g., Eye color, blood type, risk for certain diseases.	특성
Translocation (n)	Translocations are a type of chromosome rearrangement. They can be ‘balanced’, meaning that two chromosomes have pieces that have ‘swapped’ with each other, but there is still the correct amount of chromosome material. Balanced translocations do not usually cause medical or development problems. They can also be ‘unbalanced’, where pieces of chromosomes have traded places, but there is missing or extra chromosome material. Unbalanced translocations will often cause medical and development problems.	전좌
Typo (n)	A mistyped word; shortened slang for “typographical error.” In genetic counseling “a typo” is commonly used as an analogy to refer to mutations or variants in a gene.	돌연변이
Ultrasound (n)	An imaging method that uses high frequency sound waves to create a picture of something inside the body, such as a fetus or baby.	초음파
Uterus (n)	The organ in a woman’s lower abdomen in which a fertilized egg develops into an embryo, then a fetus, then a baby. Also called “womb.”	자궁
Vagina (n)	The tube-like part of the female reproductive system that extends from the cervix to the outside of the body.	질
Variant (n)	A version of something that differs from the norm. So, a genetic variant is a change to the usual genetic sequence.	변이체
Vas deferens (n)	The tubes that lead from the testes to the urethra, through which sperm is ejaculated.	정관
X-linked (adj)	A trait that is influenced or determined by a gene on the “X” chromosome.	X 연관

Family Relationships

For genetic counselors, it is very important to know if a relative is a blood relative or a relative by marriage.

Term	Definition	Translation
Parent	Your mother or father.	부모
Mother	For genetic purposes, the woman whose egg was fertilized and grew to be you.	어머니
Mother-in-law	Your husband or wife's mother.	시어머니, 장모님
Stepmother	Your father's wife who is not your biological mother.	새어머니
Adoptive mother	A woman who is not your biological mother but who accepted legal responsibility for and raised you.	양어머니
Godmother	A woman chosen by your parents to be your spiritual guide in life, named as such through a ceremony in the Catholic church.	대모
Father	For genetic purposes, the man whose sperm fertilized the egg that grew to be you.	아버지
Father-in-law	Your husband or wife's father.	시아버지, 장인어른
Stepfather	Your mother's husband who is not your biological father.	새아버지
Adoptive father	A man who is not your biological father but who accepted legal responsibility for and raised you.	양아버지
Godfather	A man chosen by your parents to be your spiritual guide in life, named as such through a ceremony in the Catholic church.	대부
Aunt	Your mother or father's sister or sister-in-law.	고모, 이모
Maternal aunt	Your mother's sister or sister-in-law.	이모
Paternal aunt	Your father's sister or sister-in-law.	고모
Uncle	Your mother or father's brother or brother-in-law.	삼촌, 외삼촌
Maternal uncle	Your mother's brother or brother-in-law.	외삼촌
Paternal uncle	Your father's brother or brother-in-law.	삼촌

Term	Definition	Translation
Cousin First cousin First cousin once removed Second cousin	Usually understood to be a first cousin. Your aunt or uncle’s child. Your aunt or uncle’s grandchild or your first cousin’s child The children of first cousins are second cousins to each other.	사촌 사촌 사촌의 자녀 육촌
Grandparent	Your parent’s father or mother.	조부모
Grandmother Maternal grandmother Paternal grandmother	Your mother or father’s mother. Your mother’s mother. Your father’s mother.	할머니 외할머니 친할머니
Grandfather Maternal grandfather Paternal grandfather	Your mother or father’s father. Your mother’s father. Your father’s father.	할아버지 외할아버지 친할아버지
Great aunt Maternal great aunt Paternal great aunt	Your mother or father’s aunt. Your mother’s aunt. Your father’s aunt.	조부모의 여자 형제 할머니의 여자 형제 할아버지의 여자 형제
Great uncle Maternal great uncle Paternal great uncle	Your father or mother’s uncle. Your mother’s uncle. Your father’s uncle.	조부모의 남자 형제 할머니의 남자 형제 할아버지의 남자 형제
Great grandparents	The parents of any of your grandparents.	증조부모
Great grandmother	The mother of any of your grandparents.	증조모
Great grandfather	The father of any of your grandparents.	증조부

Term	Definition	Translation
Siblings Half siblings Stepsiblings	<p>The children of your father and mother.</p> <p>Siblings (brothers and sisters) who have either the same mother and different fathers, or the same father but different mothers. Half-siblings share some genetic similarity with you.</p> <p>The children of your stepmother but not your father; or the children of your stepfather but not your mother. Stepsiblings do not share any genetic similarity with you.</p>	<p>형제,자매</p> <p>이복 형제,자매</p> <p>의붓 형제,자매</p>
Twins Identical twins Fraternal twins	<p>Two siblings born at the same time</p> <p>A twin that developed from the same egg and sperm, meaning that they are mostly genetically identical. Also called monozygotic twins.</p> <p>A twin who developed from a different egg and sperm than, meaning that he or she is genetically different and has the same number of shared genes as any other sibling. Also called dizygotic twins.</p>	<p>쌍둥이</p> <p>일란성 쌍둥이</p> <p>이란성 쌍둥이</p>
Triplets	<p>Three siblings born at the same time</p>	<p>삼둥이</p>
Sister Sister-in-law Half sister Stepsister	<p>A sibling who is a girl.</p> <p>Your brother's wife.</p> <p>A girl who is the either the child of your father with a different mother, or the child of your mother with a different father.</p> <p>The daughter of your stepmother or stepfather and therefore not biologically related to you.</p>	<p>여자 형제</p> <p>남자 형제의 아내 또는 남편의 여자 형제</p> <p>이복 여자 형제</p> <p>의붓 여자 형제</p>

Term	Definition	Translation
<p>Brother</p> <p>Brother-in-law</p> <p>Half brother</p> <p>Stepbrother</p>	<p>A sibling who is a boy.</p> <p>Your sister’s husband.</p> <p>A boy who is the either the child of your father with a different mother, or the child of your mother with a different father.</p> <p>The son of your stepmother or stepfather and therefore not biologically related to you.</p>	<p>남자 형제</p> <p>여자 형제의 남편 또는 아내의 남자 형제</p> <p>이복 남자 형제</p> <p>의붓 남자 형제</p>
<p>Niece</p>	<p>Your sibling’s daughter.</p>	<p>여조카</p>
<p>Nephew</p>	<p>Your sibling’s son.</p>	<p>남조카</p>
<p>Spouse</p>	<p>Your husband or wife.</p>	<p>배우자</p>
<p>Wife</p>	<p>The woman to whom you are married.</p>	<p>아내</p>
<p>Husband</p>	<p>The man to whom you are married.</p>	<p>남편</p>
<p>Children</p>	<p>Genetically speaking, the people who are produced from your egg or sperm.</p>	<p>자식</p>
<p>Daughter</p> <p>Daughter-in-law</p> <p>Stepdaughter</p> <p>Adoptive daughter</p> <p>Goddaughter</p>	<p>Your child who is a girl.</p> <p>Your son’s wife.</p> <p>Your spouse’s daughter who is not your biological child.</p> <p>A girl for whom you have accepted legal responsibility and raised even though she is not your biological child.</p> <p>A girl for whom you have accepted spiritual responsibility within a ceremony of the Catholic church; she may or may not be biologically related to you.</p>	<p>딸</p> <p>며느리</p> <p>의붓딸</p> <p>입양딸</p> <p>대녀</p>

Term	Definition	Translation
Son	Your child who is a boy.	아들
Son-in-law	Your daughter's husband.	사위
Stepson	Your spouse's son who is not your biological child.	의붓아들
Adoptive son	A boy for whom you have accepted legal responsibility and raised even though he is not your biological child.	입양아들
Godson	A boy for whom you have accepted spiritual responsibility within a ceremony of the Catholic church. He may or may not be biologically related to you.	대자
Ancestor	A person from whom you are descended, usually more remote than a grandparent.	조상
Fiancé(e)	The person whom you have promised to marry. Man: fiancé Woman: fiancée	약혼자
Domestic partner	The person with whom you are living and have an intimate relationship, but to whom you are not married.	동거인
Divorced	Having ended a marriage.	이혼
Engaged	Having promised to marry someone.	약혼
Widow	A woman whose husband has died.	과부
Widower	A man whose wife has died.	편부
Relative	A person in your family.	친척
Blood relation	A person who is related to you by blood not marriage, e.g., your sister, but not your sister-in-law; your mother but not your stepmother; your daughter but not your adopted daughter.	혈연
Next of kin	Your closest living blood relation.	최근친

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Analogies

Genetic counselors often use analogies to explain complex ideas in genetics. An analogy explains a new concept by comparing it to something more common. A clue that an analogy is being used are the words “It’s as if” and “It’s like”

Examples:

“Genes are **like** an instruction book or an instruction manual. And in a book, there is a certain sequence to a story.”

“**It’s as if** you were reading through a long book and looking for one typo, for a letter that is mistaken.”

“So, a mutation is **like** an unexpected change in the order of the letters.”

“A gene is **like** a recipe, and mutations are like changes in that recipe.”

“It’s **like** chapters in a book, and like misspellings.”

“Our cells are **like** libraries and our chromosomes are like books.”

“**Like** a flip of a coin.” (to explain that there is a 50% chance that a mutation will be passed on every time the patient has a child).

“Inside every cell are genes, which are **like** instruction books for our bodies; they tell our bodies how to grow and develop.”

“It is kind of **like** you a reading a book and you notice that a word is spelled wrong; that is what this genetic test looks for.”

Some analogies may not work with certain patients, due to linguistic or experiential differences.

Analogies that focus on genes as “letters in a book” may make no sense to speakers of character-based written languages such as Chinese, Japanese, and Korean.

“**It’s as if** you were reading through a long book and looking for one typo, for a letter that is mistaken.”

“So a mutation is **like** an unexpected change in the order of the letters.”

“It’s **like** chapters in a book, and like misspellings.”

“It is kind of **like** if you a reading a book and you notice that a word is spelled wrong; that is what this genetic test looks for.”

Analogies that focus on genes as a recipe may not work for patients who do not cook with written recipes.

“A gene is like a recipe, and mutations are like changes in that recipe.”

Analogies that discuss random chance in terms of a coin toss may not work for patients from cultures where people don't flip coins to make decisions.

“Like a flip of a coin” (to explain that there is a 50% chance that a mutation will be passed on every time the patient has a child).

Index

A

Abnormal.....	7
Abortion.....	7
Adoption.....	7
Adoptive daughter.....	24
Adoptive father.....	21
Amniocentesis.....	7
Amniotic fluid.....	7
Ancestor.....	25
Anencephaly.....	7
At average risk.....	17
At high risk.....	17
At higher risk than.....	17
At risk.....	17
Aunt.....	21

B

Benign.....	7
Birth canal.....	7
Birth defect.....	8
Blood Relation.....	25
Blood test.....	8
Brother.....	24
Buccal swab.....	8

C

Carrier.....	8
Cell.....	8
Cervix.....	8
Children.....	24
Chorionic Villus Sampling (CVS).....	8
Chromosome.....	8
Chromosome test / Karyotype.....	8
Cleft lip.....	8
Cleft palate.....	9
Clinically significant.....	9
Condition (e.g., “Genetic condition”).....	9
Consanguinity.....	9
Cousin.....	22
Cystic fibrosis.....	9

D

Daughter.....	24
Deleterious mutation.....	9
Deletion.....	9
Diagnostic test.....	9
Disease-causing mutation.....	9

Divorced	25
DNA (Deoxyribonucleic Acid).....	10
DNA marker (also called a “Genetic marker”)	10
DNA mutation.....	10
DNA sequence	10
DNA sequencing	10
Domestic partner.....	25
Dominant.....	10
Donor egg or sperm.....	10
Down syndrome (Trisomy 21)	11
Duplication	11
<i>E</i>	
Edwards syndrome (Trisomy 18).....	11
Egg	11
Embryo	11
Engaged	25
<i>F</i>	
Fallopian tube.....	11
False negative	11
False positive	11
Familial	11
Family history	11
Father	21
Fertilization.....	11
Fetal surgery.....	11
Fetus.....	12
Fiancé	25
First trimester screening	12
Flip a coin.....	12
Fragile X syndrome	12
Fragment	12
Fraternal twins.....	23
<i>G</i>	
Gene	12
General population.....	12
Generation.....	12
Genetic counseling	13
Genetic counseling intern.....	13
Genetic counselor.....	13
Genetic discrimination	13
Genetic factors	13
Genetic information	13
Genetic material	13
Genetic predisposition	13
Genetic test	13
Genetic trait.....	14
Genetic variant	14
Geneticist.....	14
Genetics.....	13
Grandfather	22

Grandmother.....	22
Grandparent.....	22
Great aunt.....	22
Great grandfather.....	22
Great grandmother.....	22
Great grandparents.....	22
Great uncle.....	22
<i>H</i>	
Half sister.....	23
Hereditary.....	14
Hereditary material.....	14
Husband.....	24
<i>I</i>	
Identical twins.....	23
In Vitro Fertilization (IVF).....	14
Infertility.....	14
Informed consent.....	14
Inheritance pattern.....	14
Inherited.....	14
Insertion.....	14
Intellectual disability.....	14
<i>K</i>	
Klinefelter’s syndrome (47, XXY).....	15
<i>M</i>	
Marker chromosome.....	15
Maternal aunt.....	21
Maternal great uncle.....	22
Maternal Serum Screening (MSS or maternal serum alphafetoprotein test).....	15
Microarray.....	15
Miscarriage.....	15
Mosaicism.....	15
Mother.....	21
Mother-in-law.....	21
Multifactorial.....	15
<i>N</i>	
Nephew.....	24
Next-Of-Kin.....	25
Niece.....	24
Non-Invasive Prenatal Testing (NIPT).....	16
Nuchal thickening.....	16
<i>O</i>	
Open neural tube defect.....	16
Ova.....	16
Ovary.....	16
<i>P</i>	
Penetrance.....	16

Placenta	16
Polymorphism.....	19
Presymptomatic	16
Prognosis	16
Protein	16
<i>R</i>	
Random	17
Recessive	17
Red flag.....	17
Relative	25
Replicate	17
Reproductive history	17
Ring chromosome.....	17
Risk	17
Risk factor	17
Runs in the family.....	18
<i>S</i>	
Screen.....	18
Screening test.....	18
Semen.....	18
Seminal fluid.....	18
Siblings.....	23
Sickle cell disease	18
Sister.....	23
Son.....	25
Sperm	18
Sperm donation.....	18
Spina bifida	19
Spouse	24
Statistically significant	19
Stepdaughter.....	24
Stepfather.....	21
Stepmother.....	21
Stepsiblings.....	23
Stepson.....	25
<i>T</i>	
Teratogen	19
Termination of pregnancy	19
Test result.....	19
Testes	20
To flip a coin	12
Toxic exposure.....	20
Trait	20
Translocation	20
Triplets.....	23
Twins	23
Typo.....	20
<i>U</i>	
Ultrasound.....	20

Uncle..... 21

Uterus 20

V

Vagina 20

Variant 20

Variant of uncertain significance 19

Vas deferens 20

W

Widow 25

Widower 25

Wife 24

X

X-linked 20