



National Coordinating Center
for the Regional Genetics Networks

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

**Glossary of
Cancer Genetics Terms**

English – Tagalog

2023 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/>

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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 cancer genetics is provided to help enable access to cancer genetics 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 cancer genetics terms is a page with Examples of Genes That are Often Checked in Genetic Testing, and 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. There is also a page on Common Interpreting Errors, and a page on Analogies. Genetic counselors often use analogies to explain complex ideas in genetics.

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Glossary of Terms

English – Tagalog

(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.	Hindi-normal/Abnormal
Benign (adj)	Something mild that does not threaten health or life. In cancer genetics, “benign” means “not cancerous.”	Hindi-nakapipinsala/Hindi kumakalat
Blood test (n)	A test in which blood is drawn (usually from the patient’s arm) and sent to a laboratory for analysis. In cancer genetics, blood tests provide cells for genetic sequencing.	Pagsusuri sa dugo
Breast cancer (n)	Cancer of the breast tissue. This cancer is more common in women, but it can affect men as well.	Kanser sa suso
Buccal swab (n)	A way to collect DNA from the cells on the inside of a person's cheek.	Pag-swab sa loob ng pisngi
CA-125 blood test (n)	A blood test used to look for early signs of ovarian cancer in women with a high cancer risk.	CA-125 pagsusuri sa dugo
Carrier (n)	A person who carries a genetic mutation in one of the two copies of a particular gene, regardless of whether they get cancer or not.	Carrier
Cell (n)	A small (microscopic) structure that forms the basic building block of every known living organism.	Selula
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 proteins and a single molecule of DNA, which carries genetic information.	Chromosome
Colonoscopy (n)	A diagnostic test in which a flexible tube with a tiny camera on the end is inserted into the colon (large intestine) through the rectum in order to see the condition of the inside of the colon, or to take a small sample of tissue, or to cut out polyps (small growths).	Colonoscopy
Condition (e.g., “genetic condition”) (n)	A chronic (long-term) health issue.	Kundisyon (hal., “genetic na kundisyon”)

Term	Definition	Translation
Consanguinity (n)	When parents are blood relatives to each other.	Kadugo o magkamag-anak
DCIS (ductal carcinoma in situ) (n)	A pre-cancerous growth in the breast, which is still within the milk ducts but has the potential of growing and spreading to other parts of the breast tissue. Sometimes called Stage 0 breast cancer.	DCIS (ductal carcinoma in situ [kanser sa daluyan ng gatas sa suso])
DTC (direct-to-consumer genetic testing) (n)	Genetic testing that is marketed directly to people at home through the internet or the TV etc. instead of through a medical provider.	DTC (direct-to-consumer na pagsusuri sa genes)
Deleterious mutation/ Disease-causing mutation (n)	A change in a person’s DNA that may cause a medical condition. In cancer genetics, having a disease-causing mutation may increase the chance of getting cancer but does not mean that a person will definitely get cancer.	Pagbura ng mutasyon/ Sakit na nagdudulot ng mutasyon
DNA (deoxyribonucleic acid) (n)	The molecule 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. The DNA is organized into chromosomes.	DNA (Deoxyribonucleic Acid)
DNA banking (n)	The secure, long-term storage of a person’s genetic material. DNA banking allows families to have access to a deceased family member’s DNA. When new genetic testing techniques are developed, doctors can test the banked DNA and use genetic information from the deceased person to tailor medical treatment for living descendants.	DNA banking (pag-iimbak ng DNA)
DNA marker (also called a “genetic marker”) (n)	A readily recognizable genetic trait, gene, or DNA segment.	DNA marker (tinatawag rin na “genetic marker”)
DNA mutation (n)	A change in the typical order of the chemicals that make up the DNA. Mutations or variants are often compared to misspelled words because chemicals that make up the DNA sequence are not in the expected order.	Mutasyon ng DNA
DNA sequence (n)	The exact order of the chemicals that make up a DNA molecule.	Sekwensiya ng DNA
DNA sequencing (n)	The laboratory technique used to determine the exact order of the chemicals that make up a DNA molecule. This is one type of genetic testing.	Pag-sekwensiya ng DNA

Term	Definition	Translation
Dominant (adj)	<p>A genetic trait in which one copy of the gene is sufficient for a trait to be expressed; dominant traits can be inherited from a single parent.</p> <p>In cancer genetics, dominant inheritance refers to conditions in which having only one altered copy of a particular gene pair is sufficient to cause an increased risk for cancer.</p>	Nangingibabaw
Duplication (n)	A duplication occurs when part of a chromosome is copied abnormally, resulting in extra genetic material.	Pagkopya
Early age of onset (n)	Cancer diagnosed at an early age, usually before the age of 50.	Kanser na nasuri habang bata pa
Egg (n)	The reproductive cells of a woman. When fertilized by sperm, the egg will grow into a baby.	Itlog
Environmental causes or factors (n)	<p>Causes of illness that come from a person’s surroundings, not from their genetic make-up. Environmental causes of illness include infection, trauma, diet, exposure to toxins, etc. Some environmental causes of illness can be avoided or changed, while genetic causes cannot.</p>	Mga sanhi o salik sa kapaligiran
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.	Familiyal o sa pamilya
Family history (n)	The medical history of the members of a family.	Kasaysayan ng pamilya
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.	Pagpitik ng barya
Fragment (n)	A small piece; an incomplete part of a whole.	Maliit na piraso
Gene (n)	A specific sequence of DNA that determines specific traits in an individual.	Gene

Term	Definition	Translation
<p>Gene copy (n)</p> <p>Normal gene copy (n)</p> <p>Altered gene copy (n)</p>	<p>In human cells, DNA is arranged in 23 pairs of chromosomes, for a total of 46 chromosomes. These chromosomes contain all the genes that make up the DNA. One chromosome of each pair is inherited from each parent. As such, individuals have two copies of every gene, one inherited from the mother and one inherited from the father.</p> <p>A normal copy of a gene is one that is found most frequently in the population. Also called the “working copy.”</p> <p>An altered copy of a gene is one that differs from the working copy and is considered to be “abnormal.” Also called the “non-working copy.”</p>	<p>Kopya ng gene</p> <p>Normal na kopya ng gene</p> <p>Nabagong kopya ng gene</p>
<p>Gene deletion (n)</p>	<p>Having a piece of genetic information missing from a gene.</p>	<p>Pagkabura ng gene</p>
<p>General population (n)</p>	<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>	<p>Pangkalahatang populasyon</p>
<p>Generation (n)</p>	<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>	<p>Henerasyon</p>
<p>Genetic (adj)</p>	<p>Having to do with inherited traits.</p>	<p>Genetic</p>
<p>Genetic counseling (n)</p>	<p>A discussion with a genetic counselor 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.</p>	<p>Pagpapayo sa genetic</p>

Term	Definition	Translation
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.	Intern sa pagpapayo sa genetic
Genetic counselor (n)	A healthcare professional with a specialized graduate degree who works with people undergoing genetic testing. 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.	Tagapayo sa genetic
Genetic discrimination (n)	The act of refusing to provide, or charging more for, insurance or any service based on an individual's genetic make-up.	Diskriminasyon sa genetic
Genetic factors (n)	Specific aspects of a person's genetic make-up that influence that person's health and development.	Mga salik sa genetic
Genetic information (n)	The information encoded in genes, which tells every cell in a body how to grow, what to do and how to reproduce.	Impormasyon sa genetic
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.	Genetic na materyal
Genetic predisposition (n)	An increased chance of a person developing a certain trait or disease based on that person's particular genetic makeup.	Genetic na predisposition o tendensiya
Genetic test (n)	A laboratory test designed to determine if a person has a gene mutation or a typical DNA sequence.	Pasusuri sa genetic
Single gene test (n)	Single gene test: analysis of one particular gene.	Pagsusuri sa isang gene
Gene panel test (n)	Gene panel test: analysis of several genes that have been shown to be associated with a particular condition; Example: breast cancer gene panel.	Pagsusuri sa gene panel

Term	Definition	Translation
Genetic trait (n)	A characteristic within a family that is passed down from parent to child genetically.	Genetic na katangian
Geneticist (n)	A doctor or scientist who studies genetics.	Dalubhasa sa genetics
Germline testing (n)	<p>Germline testing refers to the analysis of a person's DNA, which he or she inherited from his or her parents.</p> <p>In biology and genetics, the germline is the group of cells that will pass on the genetic material to children, in other words, the cells from which the eggs and sperm come. After the egg and sperm come together to form a baby, these cells will then divide and multiply and will form the entire body.</p> <p>Germline testing is different from testing the DNA of someone's tumor, which may have a mutation that happened during the person's lifetime and was not inherited from his or her parents.</p>	Pagsusuri sa germline
Hereditary (adj)	Passed down from parent to child.	Namamana
Hereditary material (n)	Genetic material that is passed down from parent to child.	Namamanang katangian
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.	May kabatirang pagsang-ayon
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.	Pattern na namana
Inherited (adj)	Passed down from parent to child.	Minana
Lynch syndrome (n)	An inherited genetic disorder that increases a person's risk of getting cancer of the colon, rectum, uterus, ovaries, and other cancers.	Lynch syndrome

Term	Definition	Translation
Malignant (adj)	In cancer, this term means that the cancer cells or tumor are harmful and have the potential of spreading to other tissues or parts of the body.	Malignant o nakamamatay
Metastasis (n)	The spreading of cancer from one organ to another.	Pagkalat
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.	Molecule
Multifactorial (adj)	Due to a combination of genetic and non-genetic (environmental, hormonal, etc.) risk factors that act together to determine risk.	Multifactorial
Mutation (n)	A change in a gene, which can be deleterious (disease causing) or benign (non-disease-causing). In Spanish, the word is sometimes confused with “mutilation.”	Mutasyon
Oncologist (n)	A physician who specializes in diagnosing and treating cancer.	Oncologist
Oophorectomy	The surgical removal of one or both ovaries.	Oophorectomy (Operasyon para tanggalin ang mga obaryo)
Ovarian cancer (n)	Cancer of the ovaries, the organs in a woman that release eggs.	Kanser sa obaryo
Packets of genetic information (n)	A phrase genetic counselors use to describe genes or chromosomes.	Mga impormasyon tungkol sa genetic
Pattern (n)	A repeating arrangement or sequence; for example, the pattern of cancers in a family.	Pattern
Pedigree (n)	A family tree that can be used to trace the inheritance of specific genetic traits.	Pedigree
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.	Pag-penetrance

Term	Definition	Translation
Predisposition to cancer	Having a change in one of number of specific genes (a genetic mutation) that creates a higher than normal risk of a person developing cancer.	Madaling kapitan ng kanser
Prognosis (n)	The most likely outcome of a disease process.	Posibleng kalalabasan
Proliferation (cell proliferation) (n)	The controlled process by which a cell multiplies. Cancer arises when the process of cell division becomes uncontrolled.	Paglaganap (paglaganap ng selula)
Prophylactic mastectomy (n)	A mastectomy is the surgical removal of the breast. “Prophylactic” means something done to prevent disease. A prophylactic mastectomy is the surgical removal of a healthy breast to prevent breast cancer. Prophylactic mastectomy is an option for individuals with a very high breast cancer risk, for example, women with a BRCA mutation.	Operasyon para tanggalin ang suso
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.	Protina
Random (adj)	Happening in an unpredictable way.	Hindi tiyak
Recessive (adj)	A genetic trait in which both copies of a gene are needed for the trait to be expressed; recessive traits are inherited from both parents, each one contributing one copy of the gene in question. In cancer genetics, recessive inheritance refers to conditions in which both copies of a particular gene pair need to be altered to develop the disease.	Recessive
Recurrence (n)	When something happens again. In cancer, a return of the disease after treatment and after a period of time during which the cancer cannot be detected.	Pag-ulit
Red flag (n)	A warning sign or a clue.	Babala

Term	Definition	Translation
Risk (n) At risk (adj) At average risk (adj) At high risk (adj) At higher risk than “X” (adj) Risk factor (n)	<p>The chance that something will happen; in the case of cancer genetics, the chance of getting cancer.</p> <p>Has some possibility of getting cancer.</p> <p>Has the same possibility of getting cancer 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 getting cancer than the general population. Has a greater possibility of getting cancer than “X.”</p> <p>A circumstance that increases the risk of getting cancer.</p>	<p>Panganib</p> <p>Nanganganib</p> <p>Sa katamtamang antas ng panganib</p> <p>Nasa mataas na panganib</p> <p>Nasa mas mataas na panganib kaysa sa “X”</p> <p>Salik ng panganib</p>
Runs in the family (e.g., cancer runs in the family) (v)	<p>Is passed down from parents to children to grandchildren.</p>	<p>Nasa lahi ng pamilya</p>
Saliva (spit) test (n)	<p>A genetic test done by collecting saliva (spit) instead of blood.</p>	<p>Sample ng laway (dura)</p>
Screen (v)	<p>To test a person for a particular common health problem, even though the person has no symptoms to suggest that they have the problem.</p>	<p>Pag-screen</p>
Screening test (n)	<p>A test that looks for a common health problem even though the patient has no symptoms to suggest they have the particular disease.</p>	<p>Screening na pagsusuri</p>
Sperm (n)	<p>The reproductive cells of the man. When sperm fertilize a woman’s egg, a baby develops.</p>	<p>Semilya</p>
Sporadic (adj)	<p>Random, once in a while.</p> <p>In genetics, sporadic cancers are those caused by random chance or unknown factors in the environment.</p>	<p>Pabugsu-bugso</p>
Statistically significant (adj)	<p>Not caused by chance.</p>	<p>Istatistika na napakahalaga</p>

Term	Definition	Translation
Syndrome (n)	<p>A group of symptoms or features that consistently occur together or a condition characterized by a set of associated features.</p> <p>For example, a hereditary cancer syndrome refers to risk for a group of cancers all caused by a particular gene mutation. BRCA1 mutations increase risk for breast and ovarian cancers. This is called Hereditary Breast and Ovarian Cancer Syndrome. See also, Lynch Syndrome.</p>	Syndrome

Term	Definition	Translation
Test result (n)		Resulta ng pagsusuri
Negative (adj)	A negative result on a genetic test means that the laboratory did not find the specific genetic change that the test was designed to identify.	Negatibo
True negative (n)	When a patient is being tested to see if he or she has a specific genetic change that is present in other family members, a negative result can be considered a “true negative.” This means that instead of having an increased risk for cancer like other family members, they have the same risk as everyone else in the general population.	Totoong negatibo
Uninformative negative (n)	Sometimes a family has a strong history of a particular cancer, but no genetic change related to that cancer has been found in that family. An “uninformative negative” result means that a specific test was negative but is not conclusive because the “family” mutation has not been identified, and/or there may be changes that the test could not detect in the gene being analyzed, or in other genes that were not tested.	Walang impormasyong negatibo
Positive (adj)	A positive result on a genetic test means that the laboratory did find a specific genetic change that is associated with a hereditary cancer syndrome (a deleterious mutation). In cancer genetics, that means that the patient has an increased risk of getting the cancer(s) associated with the gene.	Positibo
Variant of uncertain significance (n)	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. All 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.	Variant ng hindi tiyak na kahalagahan
Polymorphism (n)	Everyone has some degree of commonly occurring genetic changes that are not associated with cancer. If the test finds this sort of change, it reports a “polymorphism.”	Polimorpismo
Trait (n)	A characteristic.	Katangian
Tumor (n)	An abnormal growth of cells; a tumor can be benign (not harmful) or malignant (harmful, cancer).	Tumor

Term	Definition	Translation
Tumor testing (n)	An analysis of the DNA of someone’s tumor. This analysis is meant to identify changes that a person might have acquired in his/her tumor cells that are not present in the rest of his/her body cells and were not inherited from his/her parents. This testing is often done to help make treatment decisions.	Pagsusuri sa tumor
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.	Typo
Ultrasound (n)	An imaging method that uses high frequency sound waves to create a picture of something inside the body.	Ultrasound
Variant (n)	A version of something that differs from the norm. So, a genetic variant is a change to the usual genetic sequence.	Variant

Examples of Genes That are Often Checked in Genetic Testing

Term	Definition	Translation
BRCA 1 BRCA 2	<p>“The Breast Cancer Genes.”</p> <p>The tumor suppressor genes that in mutated form tend to be associated with an increased risk of certain cancers, especially breast and ovarian cancers.</p>	BRCA 1 BRCA 2
MLH1 MSH2 MSH6 PMS2	<p>“The Colon Cancer Genes.”</p> <p>These genes are involved in fixing mistakes that occur when DNA replicates. An abnormality in one of these genes can lead to Lynch Syndrome, a condition linked to increased risk of cancer in the colon, rectum, uterus, ovaries, as well as other organs.</p>	MLH1 MSH2MSH6 PMS2
ATM	<p>The ATM gene helps create a protein located in the cell nucleus that controls the rate at which cells grow and divide. The ATM protein also helps cells recognize damaged DNA strands.</p> <p>A mutation in the ATM gene can lead to increased risks for cancer or a condition called ataxia-telangiectasia a degenerative neurological condition that causes severe disability.</p>	ATM
PALB2	<p>Another gene in which mutations can lead to breast cancer and possibly other cancers.</p>	PALB2

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.	Magulang
Mother	For genetic purposes, the woman whose egg was fertilized and grew to be you.	Ina
Mother-in-law	Your husband or wife’s mother.	Biyenang-babae
Stepmother	Your father’s wife who is not your biological mother.	Madrasta
Adoptive mother	A woman who is not your biological mother but who accepted legal responsibility for and raised you.	Inang umampon
Godmother	A woman chosen by your parents to be your spiritual guide in life, named as such through a ceremony in the Catholic church.	Ninang
Father	For genetic purposes, the man whose sperm fertilized the egg that grew to be you.	Ama
Father-in-law	Your husband or wife’s father.	Biyenang-lalaki
Stepfather	Your mother’s husband who is not your biological father.	Amain
Adoptive father	A man who is not your biological father but who accepted legal responsibility for and raised you.	Amang umampon
Godfather	A man chosen by your parents to be your spiritual guide in life, named as such through a ceremony in the Catholic church.	Ninong
Aunt	Your mother or father’s sister or sister-in-law.	Tiyahin
Maternal aunt	Your mother’s sister or sister-in-law.	Tiyahin sa panig ng ina
Paternal aunt	Your father’s sister or sister-in-law.	Tiyahin sa panig ng ama
Uncle	Your mother or father’s brother or brother-in-law.	Tiyuhin
Maternal uncle	Your mother’s brother or brother-in-law.	Tiyuhin sa panig ng ina
Paternal uncle	Your father’s brother or brother-in-law.	Tiyuhin sa panig ng ama

Term	Definition	Translation
Cousin	Usually understood to be a first cousin.	Pinsan
First cousin	Your aunt or uncle's child.	Unang pinsan
First cousin once removed	Your aunt or uncle's grandchild or your first cousin's child	Anak ng pinsan
Second cousin	The children of first cousins are second cousins to each other.	Pangalawang pinsan
Grandparent	Your parent's father or mother.	Lolo at lola
Grandmother	Your mother or father's mother.	Lola
Maternal grandmother	Your mother's mother.	Lola sa panig ng ina
Paternal grandmother	Your father's mother.	Lola sa panig ng ama
Grandfather	Your mother or father's father.	Lolo
Maternal grandfather	Your mother's father.	Lolo sa panig ng ina
Paternal grandfather	Your father's father.	Lolo sa panig ng ama
Great aunt	Your mother or father's aunt.	Tiyahin sa tuhod
Maternal great aunt	Your mother's aunt.	Tiyahin sa tuhod sa panig ng ina
Paternal great aunt	Your father's aunt.	Tiyahin sa tuhod sa panig ng ama
Great uncle	Your father or mother's uncle.	Tiyuhin sa tuhod
Maternal great uncle	Your mother's uncle.	Tiyuhin sa tuhod sa panig ng ina
Paternal great uncle	Your father's uncle.	Tiyuhin sa tuhod sa panig ng ama
Great grandparents	The parents of any of your grandparents.	Lolo at lola sa tuhod
Great grandmother	The mother of any of your grandparents.	Lola sa tuhod
Great grandfather	The father of any of your grandparents.	Lolo sa tuhod

Term	Definition	Translation
<p>Siblings</p> <p>Half siblings</p> <p>Stepsiblings</p>	<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>Mga kapatid</p> <p>Mga kapatid sa ama o ina</p> <p>Mga kapatid na anak ng madrasta o amain</p>
<p>Twins</p> <p>Identical twins</p> <p>Fraternal twins</p>	<p>Two siblings born at the same time.</p> <p>Twins who developed from the same egg and sperm, meaning that they are genetically identical. Also called monozygotic twins.</p> <p>Twins who developed from different eggs and sperm, meaning that they are genetically different and have the same number of shared genes as any other sibling. Also called dizygotic twins.</p>	<p>Kambal</p> <p>Identical na kambal</p> <p>Fraternal na kambal</p>
<p>Triplets</p>	<p>Three siblings born at the same time.</p>	<p>Triplets</p>
<p>Sister</p> <p>Sister-in-law</p> <p>Half sister</p> <p>Stepsister</p>	<p>A sibling who is a girl.</p> <p>Your brother’s wife or your husband’s sister.</p> <p>A girl who is 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>Kapatid na babae</p> <p>Hipag</p> <p>Kapatid na babae sa ama o ina</p> <p>Kapatid na babae sa madrasta o amain</p>
<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 or your wife’s brother.</p> <p>A boy who is 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>Kapatid na lalaki</p> <p>Bayaw</p> <p>Kapatid na lalaki sa ama o ina</p> <p>Kapatid na lalaki sa madrasta o amain</p>

Term	Definition	Translation
Niece	Your sibling's daughter.	Pamangkin na babae
Nephew	Your sibling's son.	Pamangkin na lalaki
Spouse	Your husband or wife.	Asawa
Wife	The woman to whom you are married.	Misis
Husband	The man to whom you are married.	Mister
Children	Genetically speaking, the people who are produced from your egg or sperm.	Mga anak
Daughter	Your child who is a girl.	Anak na babae
Daughter-in-law	Your son's wife.	Manugang na babae
Stepdaughter	Your spouse's daughter who is not your biological child.	Anak na babae sa dating asawa
Adoptive daughter	A girl for whom you have accepted legal responsibility and raised even though she is not your biological child.	Inamong anak na babae
Goddaughter	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.	Inaanak na babae
Son	Your child who is a boy.	Anak na lalaki
Son-in-law	Your daughter's husband.	Manugang na lalaki
Stepson	Your spouse's son who is not your biological child.	Anak na lalaki sa dating asawa
Adoptive son	A boy for whom you have accepted legal responsibility and raised even though he is not your biological child.	Inamong anak na lalaki
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.	Inaanak na lalaki
Ancestor	A person from whom you are descended, usually more remote than a grandparent.	Ninuno

Term	Definition	Translation
Fiancé(e)	The person whom you have promised to marry. Man: fiancé Woman: fiancée	Kasintahan
Domestic partner	The person with whom you are living and have an intimate relationship, but to whom you are not married.	Ka-live in
Divorced	Having ended a marriage.	Diborsiyado
Engaged	Having promised to marry someone.	May kasunduang pakasal
Widow	A woman whose husband has died.	Biyuda
Widower	A man whose wife has died.	Biyudo
Relative	A person in your family.	Kamag-anak
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.	Kadugo
Next of kin	Your closest living blood relation.	Pinakamalapit na kamag-anak

Common Interpreting Errors

Source speech	Interpreted as	More accurate rendition
“Cancer just happens by chance.”	“Cancer happens suddenly.” “Cancer happens because you are unlucky. “	“Sometimes we don’t know what causes cancer.”
Cancer genes	Cancer cells	Genes that may cause cancer when altered (mutated).
“You are at higher risk for developing cancer.”	Getting cancer	There is a greater possibility that you might get cancer.
“These genes protect us against cancer.”	“They protect us, like the immune system . . . They kill cancer cells . . .”	“These genes help us to not get cancer.”
Colonoscopy	Scan	Colonoscopy

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.”

“In the DNA there are molecule strings – **like** in this picture, each letter is a different molecule string.”

“So a mutation is **like** a broken gene.”

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

Genetic counselors may mix the analogy in with more literal descriptions:

Example:

“We know that there are two in particular that when they don’t work right, **when there’s a typo in the instruction manual**, they can cause a high risk for breast and ovarian cancer.”

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).

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