

Canadian Family Medicine Clinical Card

2019
www.learnfm.ca

Bugbee CA
Keegan DA



Comprehensive Family History

Core Family History

Relevant health information from three generations including:

- grandparents, aunts, uncles, half-siblings, nieces and nephews
- cousins and great-grandparents, if available.

Key Elements^{1,2}:

Personal Information:

- Names
- Ages
- Current health status
- If deceased: age and cause of death
- Ethnicity

Issues to explore:

- early onset of illness
- pregnancy issues
- infertility
- miscarriages or still birth
- birth defects
- known familial diseases or conditions
e.g. Cystic Fibrosis, Huntington Dz, familial ALS, Sickle Cell Dz)
- known nonmedical conditions
- consanguinity:

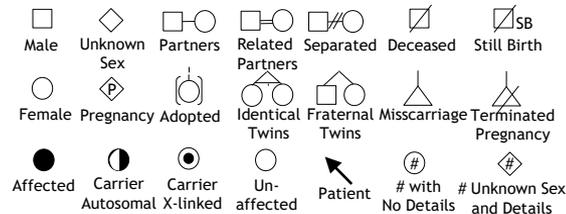
"Is there any chance that any of the couples in your family may be blood relatives?"

Red Flags

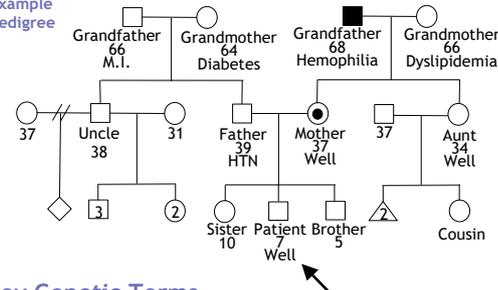
Red Flags		Dx To Think About:
General	FamHx significant for: two or more congenital anomalies +/- dev. delay or intellectual disability	genetic syndrome
	multiple affected siblings or individuals in multiple generations multiple child deaths, still born, miscarriages	suggests genetic etiology
	extreme presentation of common conditions or pathology	
Specific	Hereditary Cancers early onset, colorectal cancer in multiple generations, usually in each generation	Familial Adenomatous Polyposis or Hereditary Non-Polyposis Colorectal Ca
	early onset, >1 primary melanoma in patient, >1 family member with melanoma	Familial Melanoma
	early onset, >1 primary breast ca in patient, >1 family members with breast ca, breast ca + ovarian ca, breast ca in males	Hereditary Breast and Ovarian Ca
	≥2 endocrine neoplasias	Multiple Endocrine Neoplasia
Blood	recurrent, unusual, or early onset VTE	Factor V Leiden
	significant bleeding history or sequelae anemia	Hemophilia Sickle Cell Dz or Thalassemia
Other	early onset (<65yrs) dementia	Early Onset Alzheimer Disease
	syncope, sudden cardiac death in family member, unexplained drowning, single car MVC	Heritable Arrhythmia/ Cardiomyopathy

Constructing a Pedigree

Legend



Example Pedigree



Key Genetic Terms

Pattern	Features
Genotype	An individual's genetic makeup.
Phenotype	An individual's observed characteristics; based on genetics and environment.
Autosomal Dominant	Typically affects each generation. 50% likelihood of being affected.
Autosomal Recessive	Typically skips generations. 25% chance of being affected, 50% chance of being a carrier.
X-Linked Dominant	Females more likely affected. No affected sons of an affected male.
X-Linked Recessive	Males more likely affected. Can have affected males in each generation.
Mitochondrial	Affects males and females equally. Only passed on by mothers.
Expressivity	The phenotypic variability of a genetic disease.
Penetrance	The proportion of patients with a mutation that have a disease phenotype.