



Subject	Resource	Link	Description
Variant interpretation	The Clinical Genome (ClinGen) and ClinVar	https://www.clinicalgenome.org/tools/web-resources/clinician/	Find resources for specific disorders. Enter a gene, condition, or medication to search available ClinGen linked resources. Includes a button to ClinVar for specific variant search where clinical laboratories assert the clinical significance of individual variants they have assessed. ClinGen rates genes and variations by evidence level, with only a few examples currently rated.
Variant interpretation	Clinical Pharmacogenetics Implementation Consortium (CPIC) Guidelines	https://www.pharmgkb.org/view/dosing-guidelines.do?source=CPIC#	Peer-reviewed dosage and gene-testing guidelines for pharmacogenomics drug-gene pairs.
Variant interpretation	Evaluation of Genomic Applications in Practice and Prevention (EGAPP, sponsored by CDC's Office of Public Health Genomics)	http://www.egappreviews.org/recommendations/index.htm	Consensus guidance on appropriate use of genetic tests in specific common disorders, including clinical scenarios.
Public health genomics	Public Health Genomics (CDC)	https://phgkb.cdc.gov/GAPPKB/phgHome.do?action=home	Search for CDC and other information on genomic discoveries with population health benefits. Includes link to Genomics & Health Impact Weekly Scan.

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Genetic testing	Genetic Testing Registry (GTR)	http://www.ncbi.nlm.nih.gov/GTR/	Search for genetic tests and labs performing them. Filter options and links to related information sources. Test and lab information is voluntarily provided by the labs themselves. May include the test's purpose, methodology, validity, evidence of the test's usefulness, and laboratory contacts and credentials. An NCBI/NLM product.
Genetic testing	GeneTests	http://www.genetests.org	Search for genetic tests and the labs performing them. Filter options and links to related information sources. Search by gene, disorder, type of test, laboratory location. Additional links to clinical genetics resources for practitioners. GeneTests is a business unit of BioReference Laboratories.
Genetic testing	NextGxDx (COMMERCIAL)	https://www.nextgxdx.com/	A commercial , web-survey approach to identifying available genetic and genomic tests.
Educational resources	Inter-Society Coordinating Committee for Practitioner Education in Genomics (ISCC)	http://www.Genome.gov/ISCC	Large group of medical and clinical educators from professional societies and related organizations, representing multiple professional disciplines, sharing their approaches and resources. Working groups create products to address educational gaps in resources, methods, and for target audiences.
Educational resources	Global Genetics and Genomics Community (G3C)	http://www.G-3-C.org	Genomic healthcare simulations – unfolding case scenarios. Interview “patients” at your own pace. Complete supplemental educational activities. Assess your genomic competency. Consider commentary about specific cases from genomic experts. Coming soon: earn CNE or CME credits.
Educational resources	Genetics and Genomics Competency Center (G2C2)	http://www.G-2-C-2.org	Search for genetics & genomics peer-reviewed resources for use in your classroom or practice including websites, books, articles and more. Browse or search genetic counselor, nurse, pharmacists, physician, and physician assistant competencies.
Educational resources	UK-Genomics Education Programme	http://www.genomicseducation.hee.nhs.uk/	Online courses, workshops, and a wide array of educational resources created to prepare the UK National Health Service providers to utilize genetic and genomic tools in practice.
Educational resources	Genetics Education Canada Knowledge Organization (GEC KO)	http://geneticseducation.ca/	Point of care tools for the primary care provider including educational resources, modules, and evidence-based summaries. Also provides listing of public resources and genetic centers.

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Educational webinars	Webinars for Health Insurers and Payers: Understanding Genetic Testing (ISCC Insurer Education Working Group)	http://www.genome.gov/27563343 (videos and slide sets)	A webinar series to prepare insurers/payers for understanding genetic testing strategies, interpretations, outcomes and patient care, and use that understanding in making sound decisions regarding the healthcare activities of their insured. Produced by ISCC and BCBSA collaboration. 2015/2016
Educational webinars	The Genomics in Medicine Lecture Series (NHGRI and Suburban Hospital)	http://www.genome.gov/27555276 (Lecture videos and slide sets)	Videos of hour-long lectures for healthcare professionals; aimed to enhance understanding of the intersection between genomics and medicine. Includes some disease- and specialty-specific topics. [2011-2014, 24 lectures]
Educational webinars	The Genetics in Primary Care Institute (AAP) Webinars	https://geneticsinprimarycare.aap.org/Provider%20Education/Pages/gpci-webinars.aspx	A 6-part webinar series (videos and slide sets) focused on providing primary care providers with knowledge and resources to better provide genetic medicine as part of a medical home. Hour-long, educational webinars build upon existing PCP skills to provide a comprehensive approach to primary care in which genetic thinking is integrated in every patient encounter. See especially <i>Integrating Genetics into Your Practice: What every primary care provider needs to know</i> webinars [2013-2014].
Disease-specific information	NCBI's MedGen	http://www.ncbi.nlm.nih.gov/medgen	Flexible search (disease, gene, drug, etc.) to find information about human medical genetics, such as attributes of conditions with a genetic contribution. Well-summarized, with organized links to additional NCBI information resources. Play with it a bit to understand its power.
Disease-specific information	GeneReviews (housed in NCBI Books)	http://www.genereviews.org OR http://www.ncbi.nlm.nih.gov/books/NBK1116/	Expert-authored, peer-reviewed disease descriptions ("chapters") presented in a standardized format and focused on clinically relevant and medically actionable information on the diagnosis, management, and genetic counseling of patients and families with specific inherited conditions. Great for linking to from your clinical encounter notes.
Disease-specific information	PDQ Cancer Information Summaries: Genetics; National Cancer Institute	http://www.cancer.gov/publications/pdq/information-summaries/genetics	Evidence review summaries and recommendations including: a Cancer Genetics Overview; Cancer Genetics Risk Assessment and Counseling; Genetics of Breast and Gynecologic Cancers; Genetics of Colorectal Cancer; Genetics of Endocrine and Neuroendocrine Neoplasias; Genetics of Kidney; Genetics of Prostate Cancer; and Genetics of Skin Cancer.

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Disease-specific information	Online and EHR-integrated medical reference portals (WebMD, UpToDate, etc.)	Various	Genetic information is increasing and accuracy is improving generally. Cross-reference with other resources when in doubt.
Problem solving – Patient oriented	How to find a disease specialist (GARD)	https://rarediseases.info.nih.gov/resources/pages/25/how-to-find-a-disease-specialist	Several ways to identify healthcare professionals who have expertise in rare disorder, or experience with a particular condition. Also provides information about how to find genetics clinics and research on a particular condition.
Problem solving – Patient oriented	Undiagnosed Diseases Network (UDN)	http://commonfund.nih.gov/Diseases/index	An NIH-funded network of qualified clinical centers and technical and laboratory support centers across the US. Accepts applications from patients or providers to diagnose both rare and new diseases considered “undiagnosed,” through intensive clinical and genomic research. A possible solution to end the “diagnostic odyssey” and contribute to discovery simultaneously. See also Centers for Mendelian Genomics (CMGs) .
Problem solving – Patient-oriented	How to find a genetic counselor	http://nsgc.org/p/cm/ld/fid=51	Read about Genetic Counseling profession. Find a Genetic Counselor. Learn the breadth and value of genetic counseling activities. Find related resources.
Problem solving – Patient-oriented	How to find clinical genetic services	https://www.acmg.net/ACMG/Find_Genetic_Services/ACMG/SGweb/FindaGeneticService.aspx	Professional membership organization for medical genetic service providers. Find policy and practice guidelines, educational resources, and clinical genetic services.
Patient Advocacy	Genetic Alliance	http://geneticalliance.org/	A network of more than 1,200 disease-specific advocacy organizations, plus universities, private companies, government agencies, and public policy organizations. Provides a space for shared resources, creative tools, and innovative programs at the intersection of health and genetics. Active in policy and general advocacy circles.
Patient Advocacy (Privacy Legislation)	GINAhelp.org	http://www.GINAhelp.org	An introduction to the federal Genetic Information Nondiscrimination Act (GINA) and its protections in health insurance and employment. Site includes answers to common questions about GINA and examples to help you learn. Created by a coalition of policy, education, and advocacy groups. Not guaranteed to be up to date, but it is well-presented information. May 2010.

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Discipline specific organizations-to learn more	The American Society of Human Genetics	http://www.ashg.org/	Professional membership organization for human genetics specialists. Find resources to learn about genetic research; genetics educational opportunities; genetic services, and social and scientific policies.
Discipline specific organizations-to learn more	International Society of Nurses in Genetics	http://www.isong.org/	Professional membership organization for nurses focused on discovery, interpretation, and management of genomic information in education, practice, and research. Find out about educational opportunities; genetic services, and policies.
Discipline specific organizations-to learn more	National Society of Genetic Counselors	http://nsgc.org	Professional membership organization for the Genetic Counselor. Find a Genetic Counselor. Learn the breadth and value of genetic counseling activities. Find related resources.
PATIENT TOOLS			
Genetic and Genomic Disease	Genetics Home Reference	https://ghr.nlm.nih.gov/	Consumer-friendly information about the effects of genetic variations on human health. Search for conditions, genes, and chromosomes. A handbook for learning about genetics and its relationship to health. Includes a glossary with links to additional information.
Genetic and Genomic Disease	Genetic and Rare Diseases Information Center (GARD)	http://rarediseases.info.nih.gov/gard (English) http://rarediseases.info.nih.gov/gard/pages/64/sobre-gard (Spanish)	Find useful information about genetic and other rare diseases provided in lay-language. The GARD Information Center responds to requests for information from patients, family members, and providers by phone, email, and via a web form. Experienced and qualified Information Specialists provide current and accurate information in both English and Spanish .
Genetic and Genomic Disease	OrphaNet (European Union site)	http://www.orpha.net (English) http://www.orpha.net/consor/cgi-bin/index.php?lng=ES (Spanish)	Search for information on rare diseases and orphan drugs, designed for all audiences, with links to additional resources. Official site of the European Union. Languages: French, English, Spanish , German, Italian, Portuguese, Dutch.

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Genetic and Genomic Disease	UNIQUE: Understanding chromosome disorders (UK site)	http://www.rarechromo.org http://www.rarechromo.org/html/DisorderGuides.asp (Disorder guides in English) http://www.rarechromo.org/html/DisorderGuidesTranslations.asp (Disorder guides in multiple languages including Spanish)	Download booklets in lay language summarizing published literature and unpublished anonymized survey information about the effects of specific rare chromosome disorders to help families know what to expect, and clinicians to counsel their patients. Patients can register for matching to others with similar rare chromosome anomalies. Booklets free but donations appreciated. English, Spanish , and others.
Genetic and Genomic Disease	My Family Health Portrait Tool	https://familyhistory.hhs.gov/	This web-based tool helps users organize family history information and then print it out for presentation to their health care provider. In addition, the tool helps users save their family history information to their own computer and even share family history information with other family members. Available in English, Spanish , and others.
Genetic and Genomic Disease	Baby's First Test	http://www.babysfirsttest.org	Provides information that prepares parents for the newborn screening process. Offers current educational and family resources about newborn screening at the local, state, and national levels and serves as the clearinghouse for newborn screening information.
Genetic and Genomic Education	The Genetic Science Learning Center at The University of Utah	http://learn.genetics.utah.edu/	Highly creative and engaging videos, interactives, and other web-based learning resources that enhance genetic and genomic literacy among non-professionals and professionals alike. Succeeds in translating science and health for non-experts.
Genetic and Genomic Education	Genome: Unlocking Life's Code	https://unlockinglifescode.org/	Companion website to the popular Smithsonian/NHGRI science museum exhibit; several modes to explore online, including a virtual visit; learning resources for teachers and students; topics on genomic medicine, cancer genomics, and much more. 2014-2015.
Genetic and Genomic Education	Genome Magazine (COMMERCIAL)	http://genomemag.com/	A commercial, quarterly print and online magazine for the public at large: patients, family, caregivers, and healthcare professional. Provides original articles that cover personalized medicine and the genomic revolution that makes it possible.

Genetics in Your Clinic: What You Can and Should Do Now, a Virtual Meeting organized by the American Society of Human Genetics, took place March 22, 2016. For more information, see the ASHG Virtual Meeting website: <http://engage.vevent.com/index.jsp?eid=782&seid=1617> or www.ashg.org.