Medical Genetics Summaries (MGS)

Free and growing collection of clinical pharmacogenetics summaries. Each summary reviews one drug, its use and metabolism, the genetic variants that influence how an individual may respond to the drug and aggregates therapeutic guidelines from authoritative sources.

FAST FACTS FOR BUSY CLINICIANS

- Therapeutic Recommendations based on Genotype from the FDA drug label, medical and professional societies including CPIC, DPWG, ACMG, ASCO
- Introduction gives a clinical context
- Summarize latest research and evidence for easy consultation at point-of-care
- Synthesize drug and gene information
- Genetic testing strategies and links to relevant available tests in the NIH Genetic Testing Registry (GTR®)
- Nomenclature table that translates all naming conventions of relevant alleles and links to ClinVar and dbSNP

STANDARDIZED FORMAT

Introduction
Gene(s)
Drug
Genetic Testing
Therapeutic Recommendations based on Genotype excerpted from FDA, CPIC and other authoritative sources
Nomenclature - allele translation table including star alleles and HGVS

MGS CHAPTERS

- Codeine
- Tramadol
- Irinotecan
- Tamoxifen
- Pertuzumab
- Flurouracil
- Thioguanine
- Trastuzumab
- Capecitabine
- Mercaptopurine
- And many, many more…

https://go.usa.gov/xVEhN

MGS VIDEOS:

Medical Genetics Summaries
Overview: https://youtu.be/rCD-YmVj6S4
Pharmacogenetics: https://youtu.be/4Mhzv8LQTa0

NCBI

The National Center for Biotechnology Information’s medical genetics and human variation resources (MGV) help the genetics community advance the understanding of medical genetics and associated clinical applications.

ClinVar
User-submitted database for information about genomic variation and its relationship to human health.

MedGen
Aggregates information from and provides access to authoritative medical genetics resources.

Medical Genetics Summaries and GeneReviews®
Up-to-date, peer-reviewed, medically actionable summaries for heritable diseases and pharmacogenetics.

MedGen
Provider-submitted database of clinical and research molecular, cytogenetic and biochemical genetic tests and supporting information.

dbSNP and dbVar
Databases of small and large genomic variants including both common variations and clinical mutations.

dbGaP
Database for genotype and phenotype research studies.

OSIRIS
Open source short tandem repeat (STR) analysis tool for forensic, clinical and research use.

Variation Viewer
Interactive browser for examination of nucleotide variants in a genomic context.

U.S. National Library of Medicine
National Center for Biotechnology Information

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