Pharmacogenomics Gene/Drug-Pair Decision Flow Chart: CYP2D6 - Codeine 2017
Codeine prescription

Is it for a child for a tonsilectomy or adenoidectomy or is the child <12 years old

FDA recommends against using codeine in these patients “Strong”

CYP2D6 Genotype

- Poor metabolizer (AS = 0)
  - Do not use codeine due to ineffectiveness “Strong”
- Intermediate metabolizer (AS = 0.5)
  - Normal dosing “Moderate”
- Normal metabolizer (AS=1.0-2.0)
  - Normal dosing “Strong”
- Ultrarapid metabolizer (AS >2.0)
  - Do not use codeine due to risk of overdose “Strong”

AS = Activity Score:
0 = two nonfunctional alleles
0.5 = one nonfunctional and one partial function alleles
1.0 = two partial function or one full function and one nonfunctional alleles
1.5 = one functional and one partial functional alleles
2.0 = two full functional alleles
>2.0 more than two alleles

Classification of recommendation: based on the strength of the literature base: Strong, moderate, or weak.