## A = Active Alert, N = No Alert

Medication	Alert Type	Gene	Phenotype	Alert Language
codeine	А	CYP2D6	Ultrarapid Metabolizer	Consider an alternative drug or a 50% decrease in codeine dose and be alert for Adverse Drug Effects. Level of evidence: <b>Strong</b> . This ultrarapid metabolizer status predicts increased opiate effects of codeine.
	N			
	N		Normal	
	Α		Reduced Metabolizer	Consider starting with normal dose, but be alert for symptoms of insufficient pain relief. Level of evidence: <b>Moderate</b> . This reduced metabolizer status predicts reduced opiate activity of codeine.
				Consider an alternative drug or be alert for symptoms of insufficient pain relief. Level of evidence: <b>Strong</b> .
	Α		Poor Metabolizer	This poor metabolizer status predicts lack of codeine opiate activity.

## A = Active Alert, N = No Alert

Medication	Alert Type	Gene	Phenotype	Alert Language
Tramadol	А	CYP2D6	Ultrarapid Metabolizer	Consider a 50% decrease in dose and be alert for Adverse Drug Effects. Level of evidence:  Moderate. This ultrarapid metabolizer status predicts increased opiate effects of tramadol.
	N		Normal Metabolizer	
	А		Reduced Metabolizer	Consider an increased dose and be alert for symptoms of insufficient pain relief. Level of evidence: <b>Strong</b> . This reduced metabolizer status predicts reduced opiate activity of tramadol.
	А		Poor Metabolizer	Consider an alternative drug or be alert for symptoms of insufficient pain relief. Level of evidence: <b>Strong</b> . This poor metabolizer status predicts lack of tramadol opiate activity.