

## Warfarin and its MANY interactions!

### Drugs that potentiate warfarin → Increase Bleeding Risk<sup>1,2</sup>

DRUG	RECOMMENDATIONS/COMMENTS
<b>Acetaminophen</b>	↓ acetaminophen dose to lowest necessary • Consider alternative analgesic
<b>Alternative Meds (ginkgo, fenugreek, etc.)</b>	Weigh benefit of Comprehensive/Alternative Medicine (CAM) vs. ↑ risk of bleeding
<b>Amiodarone</b>	Consider ↓ warfarin 30-50% • ↑ INR monitoring if adjusting amiodarone dose
<b>Antibiotics (select: ciprofloxacin, clarithromycin, erythromycin, metronidazole, trimethoprim-sulfamethoxazole, etc.)</b>	Consider alternative antibiotic if supported by Culture/Sensitivity Consider ↓ warfarin ≤ 20% at start of abx therapy ↑ INR monitoring around abx course
<b>Antifungals (fluconazole, miconazole)</b>	Consider ↓ warfarin dose 10% to 20% ↑ INR monitoring around antifungal course
<b>Antiplatelet Agents (aspirin, clopidogrel, etc.)</b>	↑ monitoring for INR and signs/symptoms of bleeding
<b>NSAIDs (ibuprofen, celecoxib, naproxen, etc.) "Anti-inflammatory Agents"</b>	Avoid simultaneous use if possible • COX-2-inhibitor preferable
<b>PPIs (lansoprazole, omeprazole, etc.)</b>	↑ INR monitoring
<b>SSRIs (citalopram, fluoxetine, etc.) "Antidepressants"</b>	↑ INR monitoring

### Don't Forget About Food Interactions!

Increase Bleeding Risk	Increase Clotting Risk
<b>Vitamin E</b> (E.g., supplements, coconut oils, seeds)	<b>Cruciferous Vegetables</b> Leafy greens rich in vitamin K (E.g., spinach)
<b>Cranberry Juice</b>	<b>Black Licorice</b>
<b>Alcohol</b> (acute ingestion)	<b>Alcohol</b> (chronic ingestion)

### Drugs that attenuate warfarin → Increase Clotting Risk<sup>1,2</sup>

DRUG	RECOMMENDATIONS/COMMENTS
<b>Alternative Meds (St. John's Wort)</b>	Weigh benefit of CAM product vs. ↑ risk of clotting Avoid simultaneous use if possible Monitor for decreased anticoagulant effects
<b>Estrogen derivatives</b>	Weigh prospective benefits of estrogen derivatives vs. ↑ risk of clotting Management of interaction may differ depending on the indication for hormone treatment (e.g., for hormone replacement therapy vs. contraception). ↑ INR monitoring around hormone therapy if used concurrently.
<b>Metformin</b>	↑ INR monitoring Warfarin potentiates Metformin • Must ALSO monitor for hypoglycemia
<b>Ritonavir</b>	↑ INR monitoring May need to substantially ↑ warfarin dose

### The 8 A's of Warfarin Interactions!<sup>3</sup>

Acetaminophen • Alternative Meds • Amiodarone • Antibiotics • Antifungals • Antiplatelet Agents • Anti-inflammatory Agents • Antidepressants

*This reference is NOT all inclusive, and information presented is for general informational purposes only. Any changes in therapy must be discussed with the prescriber first*

1. Ament PW, Bertolino JG, Liszewski JL. Clinically significant drug interactions. Am Fam Physician. 2000;61(6):1745-1754.
2. Lexicomp Online, Lexi-Drugs Online, Warfarin; August 3rd, 2020.
3. Juurlink DN. Drug interactions with warfarin: what clinicians need to know. CMAJ. 2007;177(4):369-371. doi:10.1503/cmaj.070946

