Updated Beer's Criteria for Potentially Inappropriate Medication Use in Older Adults Reference Chart

Antimicrobial Agents Included in the American Geriatrics Society's 2023 Updated Beer's Criteria		
Medication Name	Recommendation(s)	Rationale
Nitrofurantoin	 Avoid in residents with a creatinine clearance (CrCl) <30mL/min. Avoid prescribing for long-term UTI prophylaxis/suppression. 	1,2 Potential for pulmonary toxicity, hepatotoxicity, and peripheral neuropathy, especially with long term use. Safer alternatives are generally available.
Trimethoprim/ Sulfamethoxazole	 Use with caution in residents receiving ACEI, ARB, or ARNI medications with decreased/declining renal function. Renal dose adjustments necessary in residents with creatinine clearance <30mL/min. Avoid in residents receiving phenytoin. Avoid, or closely monitor INR, in residents receiving warfarin. 	1,2 Increased risk of hyperkalemia when used concurrently with an ACEI, ARB, or ARNI in the presence of decreased CrCI. 2 Increased risk of worsening renal function due to crystalluria. 3 Increased risk of phenytoin toxicities. 4 Increased risk of bleeding (increased INR).
Ciprofloxacin	 Renal dose adjustments necessary in residents with a creatinine clearance (CrCl) <30mL/min. Avoid, or closely monitor INR, in residents receiving warfarin. Avoid is residents receiving theophylline. Closely monitor in patients with existing cardiac disease and/or receiving concurrent medications with cardiac effects 	¹ Increased risk of CNS effect (e.g., seizures, confusion) and tendon rupture. ² Increased risk of bleeding (increased INR). ³ Increased risk of theophylline toxicities. ⁴ Increased risk for cardiac effects, including prolonged QTc interval and/or aortic aneurysm/dissection.
Macrolides	 Avoid, or closely monitor INR, in residents receiving warfarin Closely monitor in patients with existing cardiac disease and/or receiving concurrent medications with cardiac effects 	 ¹ Increased risk of bleeding (increased INR). ² Increased risk for cardiac effects, including prolonged QTc interval.

Adapted from: AGS 2023 Updated Beers Criteria: https://doi.org/10.1111/jgs.18372