Algorithm for Filtering Drug-Drug Interaction Alerts for

Potassium Supplements and Potassium Sparing Diuretics

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1. Select potassium products (RxNorm CUI):
   1. Potassium chloride (8591)
   2. Potassium gluconate (89903)
2. Alert if potassium sparing diuretic is spironolactone (9997)
   1. No serum potassium level within 48 hours OR
   2. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours OR
   3. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND taking ACE inhibitor or ARB OR
   4. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND kidney function is < 30 ml/min (LOINC 48642-3 or 48643-1) OR
   5. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND K+ > 77 mEq / day
3. Alert if potassium sparing diuretic is amiloride (644)
   1. No serum potassium level within 48 hours OR
   2. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours OR
   3. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND taking ACE inhibitor or ARB OR
   4. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND kidney function is < 30 ml/min (LOINC 48642-3 or 48643-1) OR
   5. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND K+ > 77 mEq / day
4. Alert if potassium sparing diuretic is triamterene (10763)
   1. Dose > 37.5 mg / day and
   2. No serum potassium level within 48 hours OR
   3. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours OR
   4. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND taking ACE inhibitor or ARB OR
   5. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND kidney function is < 30 ml/min (LOINC 48642-3 or 48643-1) OR
   6. Serum potassium level > 4.5 mEq/L (LOINC 2823-3) within 48 hours AND K+ > 77 mEq / day