Algorithm for Filtering Drug-Drug Interaction Alerts for

Warfarin and Salicylates

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1. Select the following anticoagulants (RxNorm CUI):
   1. Warfarin (11289)

2. Go to RxNORM CPCS and use the following query to find the clinical drugs for your drug ingredient concept set:

SELECT RXCUI,STR FROM rxnorm\_cpcs.RXNCONSO

WHERE TTY = 'SCD' and RXCUI in

(SELECT RXCUI2 FROM rxnorm\_cpcs.RXNREL

WHERE RELA = 'consists\_of' and RXCUI1 in

(SELECT RXCUI2 FROM rxnorm\_cpcs.RXNREL

WHERE RELA = 'has\_ingredient' and RXCUI1 in (**COMMA-DELIMITED LIST GOES HERE**)))

ORDER BY STR

;

Restrict to medications for human consumption

1. Identify salicylates via RxNorm:
   1. Aspirin (1191)
   3. Identify clinical drug components
   4. Remove products not available in US
   5. Identify clinical drug or pack

Exclude topical, keep rectal.

1. Determine if dose of aspirin is > 3 gram per day – if not, no alert
2. Determine if directions for use is “as needed” – if yes, then no alert
3. Identify non-acetylated salicylates (RX CUI):
   1. Salicylic acid (9525)
   2. Sodium Salicylate (9907)
   3. Magnesium trisalicylate (29170)
   4. Salsalate (36108)
   5. Bismuth subsalicylate (19478)
   6. Phenyl salicylate (895808)

exclude topical formulations

1. Determine if systemic dose is > 3 gram per day – if not, no alert
   1. Need to convert bismuth subsalicylate to salicylate equivalent dose
      1. 2.57 mg bismuth subsalicylate = 1 mg salicylate
      2. 3 gram = 29.5 tablets of bismuth subsalicylate 262mg