

## Attachment C: Algorithm Potential Drug-Drug Interactions (DDI)

Task	Process Step	
<b>Create Denominator:</b> Part D enrollees who have at least one Part D claim for an object drug or a precipitant drug selected for a drug-drug interaction.	Step 1	Keep beneficiaries who are enrolled in Part D coverage for at least 5 of the 6 months of the measurement period.
	Step 2	Keep beneficiaries who are not actively enrolled in multiple plans concurrently as of the end the measurement period.
	Step 3	Keep beneficiaries who are alive at the end of the measurement period.
	Step 4	Pull all Part D claims for eligible beneficiaries after completing Steps 1-3.
	Step 5	Exclude claims with date of service not within the measurement period.
	Step 6	Exclude claims if NDC code is not in the DDI NDC code list.
	Step 7	Exclude claims that are not for covered drugs.
	Step 8	Exclude claims that are not in "final action" status.
	Step 9	Exclude claims that are deleted by an Adjustment/Deletion record.
	Step 10	Exclude claims that were processed more than 3 months after the end of the measurement period.
	Step 11	Create formats for each of the 10 Object Drug Groups and the 11 Precipitant Drug Groups (2 for precip_4: CNS & SSRI)
	Step 12	Create the object and precipitant Part D claims data files by using the formats against the remaining Part D claims dataset. Pull only claims that do not have days_supply = '000'.
	Step 13	Append all of the object and precipitant drug datasets together; then delete the duplicates. Count unique beneficiaries to get the denominator.
<b>Create Numerator:</b> Part D enrollees in the denominator with at least one DDI event in the Part D claims.	Step 1	Merge the Object and Precipitant datasets together for each DDI pair, keeping only those beneficiaries that are in both datasets and where the drug therapies overlap in time.
	Step 2	Count unique beneficiaries to get the numerator.