Algorithm for deriving GC average dose and duration

* Missing prescription quantities (number of tablets prescribed) were first imputed with the average quantity of other prescriptions for the same drug and strength
* Prescription duration was replaced with the time difference between prescription dates if two prescriptions were within 90 days
* If there were two prescriptions on the same day, both prescription durations were replaced as the time till next prescription (on a different day)
* If the quantity was less than the prescription duration, the prescription duration was changed to equal the quantity
* If prescription duration was still missing, or within 7 days of another prescription for a different drug/strength, the duration was replaced with quantity divided by numerical daily dose if the quantity is greater than numerical daily dose and numerical daily dose isn’t missing
* Is duration was still missing, it was replaced with the average of that patient’s duration for their other prescriptions of the same drug with the same strength
* If duration was still missing, it was replaced with the average duration for all other patient’s prescriptions of the same drug with the same strength
* If the prescription duration was more than 90 days, it was replaced as 90 days
* If the quantity was less than the numerical daily dose, the quantity was replaced to equal the numerical daily dose
* If the quantity was less than 7, the quantity was replaced to equal 30
* If the prescription duration was less than 7, the prescription duration was replaced to equal 30 days
* If quantity was less than the prescription duration then the prescription duration was changed to equal the quantity
* If the quantity was greater than 400, it was replace with the average quantity of other prescriptions for the same drug with the same strength
* The total duration was calculated as the sum of all prescription durations for each patient
* The total dosage was calculated as the sum of quantity multiplied by strength for all prescriptions in each patient
* The average daily dose was calculated as the total dosage divided by the total duration of therapy.