Fraud Detection Report

# Potential Fraud - Random Forest

## Top 10 Prescriber to Dispenser Locations

This table shows the top 10 Prescribe/Dispenser locations based on resiude.

fraud\_data\_table

| **PrescriberLocation** | **DispenserLocation** | **HB** | **DispenserLocationType** | **PrescriberLocationType** | **AvgResidual** | **MaxRatio** | **Count** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 18,112 | 18,112 | S08000017 | DISPENSING DOCTOR | GP PRACTICE | 2.07573212 | 2.6842818 | 2 |
| 18,428 | 7,616 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 1.83600581 | 2.1684383 | 1 |
| 18,339 | 7,596 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 1.60236086 | 1.6783342 | 2 |
| 18,240 | 7,635 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 1.43479684 | 1.6833434 | 1 |
| 18,288 | 7,612 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 1.31391085 | 1.5070459 | 1 |
| 18,447 | 7,642 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 1.27359392 | 1.6229218 | 1 |
| 18,057 | 7,644 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 1.09732677 | 1.3352436 | 1 |
| 18,630 | 7,625 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 1.07563188 | 1.2666078 | 1 |
| 18,151 | 7,639 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.93718884 | 1.1327790 | 1 |
| 18,644 | 7,641 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.92629596 | 1.1059764 | 1 |
| 18,377 | 7,617 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.88257474 | 0.9878419 | 1 |
| 18,630 | 7,517 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.84275828 | 0.9602737 | 1 |
| 18,273 | 7,631 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.81411173 | 0.9582039 | 1 |
| 18,057 | 7,619 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.76883231 | 0.9901305 | 1 |
| 18,413 | 7,520 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.63992215 | 0.7743597 | 1 |
| 18,199 | 7,593 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.63426772 | 0.7615409 | 1 |
| 18,409 | 7,520 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.62899718 | 0.7298635 | 1 |
| 18,310 | 7,516 | S08000017 | COMMUNITY PHARMACY | GP PRACTICE | 0.62424708 | 0.6995971 | 2 |
| 18,589 | 18,589 | S08000017 | DISPENSING DOCTOR | GP PRACTICE | 0.19284981 | 2.3275478 | 2 |
| 18,574 | 18,574 | S08000017 | DISPENSING DOCTOR | GP PRACTICE | 0.01865014 | 2.1736458 | 4 |

## Test Data Graph

This graph shows the output for the random forest model using NHS open data source Prescriber/Dispenser Dataset.

final\_graph

