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** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 80,202 | 5,274 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 1.8309862 | 2.06304044630 | 1 |
| 80,255 | 5,154 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 1.3382010 | 1.56058971593 | 1 |
| 80,518 | 5,312 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 1.2903356 | 1.47722457627 | 1 |
| 81,099 | 5,209 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 1.2195815 | 1.33458340127 | 1 |
| 80,607 | 5,294 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 1.1429645 | 1.22268588771 | 1 |
| 80,561 | 4,679 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 1.1042391 | 1.35747067823 | 1 |
| 80,768 | 5,289 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 1.0176813 | 1.12861010830 | 2 |
| 80,274 | 5,164 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.8763741 | 1.24489795918 | 1 |
| 80,753 | 5,289 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.8504157 | 0.92397043295 | 1 |
| 80,274 | 5,162 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.8438604 | 1.09576138148 | 1 |
| 80,289 | 5,164 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.7543910 | 1.08162684869 | 1 |
| 80,749 | 5,273 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.6819257 | 0.74623952233 | 1 |
| 80,701 | 5,280 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.6407717 | 0.71881562369 | 1 |
| 80,491 | 5,304 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.6199109 | 0.77941865917 | 1 |
| 80,857 | 5,245 | S08000015 | COMMUNITY PHARMACY | GP PRACTICE | 0.6192144 | 0.69143454559 | 1 |
| 80,081 | 80,132 | S08000015 | DISPENSING DOCTOR | GP PRACTICE | -0.8661109 | 0.00009496676 | 1 |

## Test Data Graph

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

final\_graph

