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** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 10,125 | 5,556 | S08000030 | COMMUNITY PHARMACY | GP PRACTICE | 1.4997483 | 1.6611588 | 1 |
| 10,445 | 5,558 | S08000030 | COMMUNITY PHARMACY | GP PRACTICE | 1.2059033 | 1.3940763 | 1 |
| 10,746 | 5,560 | S08000030 | COMMUNITY PHARMACY | GP PRACTICE | 1.1471295 | 1.2302748 | 1 |
| 13,091 | 5,778 | S08000030 | COMMUNITY PHARMACY | GP PRACTICE | 1.0333415 | 1.1750090 | 1 |
| 10,036 | 5,727 | S08000030 | COMMUNITY PHARMACY | GP PRACTICE | 0.8462093 | 0.9263071 | 1 |
| 10,361 | 5,773 | S08000030 | COMMUNITY PHARMACY | GP PRACTICE | 0.8353953 | 0.8806611 | 1 |
| 14,501 | 5,566 | S08000030 | COMMUNITY PHARMACY | GP PRACTICE | 0.7866689 | 0.8711040 | 1 |

## Test Data Graph

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

final\_graph

