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** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 31,601 | 4,105 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 1.7901181 | 1.9555926 | 1 |
| 32,317 | 4,056 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 1.5970616 | 1.7530407 | 2 |
| 33,057 | 4,122 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 1.2071662 | 1.2687075 | 1 |
| 32,750 | 4,048 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 1.0850491 | 1.1575116 | 1 |
| 32,355 | 4,021 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 1.0742201 | 1.1678289 | 1 |
| 31,244 | 4,143 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 1.0368947 | 1.1379750 | 1 |
| 32,001 | 4,078 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 1.0326916 | 1.1674167 | 2 |
| 33,061 | 33,061 | S08000020 | DISPENSING DOCTOR | GP PRACTICE | 0.8807689 | 1.5595855 | 1 |
| 32,904 | 4,010 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 0.7772875 | 0.8334011 | 2 |
| 31,009 | 4,322 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 0.7772031 | 0.8089540 | 1 |
| 31,691 | 4,314 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 0.7309835 | 0.7941246 | 1 |
| 31,511 | 4,051 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 0.6435509 | 0.7264508 | 1 |
| 31,723 | 4,061 | S08000020 | COMMUNITY PHARMACY | GP PRACTICE | 0.6121229 | 0.6693735 | 1 |

## Test Data Graph

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

final\_graph

