

Supplementary

Action	L	D	O	L,D	L,O	D,O	L,D,O	No	Total
Maintaining	93.85%	0.00%	0.23%	0.00%	1.82%	0.00%	0.00%	4.10%	100.00%
	2.56%	82.05%	0.00%	5.13%	2.56%	0.00%	0.00%	7.69%	100.00%
	0.00%	0.00%	91.89%	0.00%	0.00%	1.35%	0.00%	6.76%	100.00%
	7.25%	3.63%	0.00%	83.94%	1.55%	0.52%	2.07%	1.04%	100.00%
	7.24%	0.00%	1.96%	0.59%	87.87%	0.00%	0.98%	1.37%	100.00%
	0.00%	3.64%	2.73%	0.91%	7.27%	84.55%	0.91%	0.00%	100.00%
	2.50%	0.25%	0.50%	4.50%	9.25%	0.50%	80.75%	1.75%	100.00%
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%
Diagonal Sum									88.11%
Subtle Increase	71.43%	0.55%	0.00%	6.04%	21.43%	0.00%	0.55%	-	100.00%
	9.52%	52.38%	2.38%	16.67%	2.38%	14.29%	2.38%	-	100.00%
	0.00%	1.33%	36.00%	0.00%	17.33%	42.67%	2.67%	-	100.00%
	10.26%	0.00%	0.00%	71.79%	1.28%	0.00%	16.67%	-	100.00%
	5.00%	0.00%	0.00%	0.00%	89.50%	0.00%	5.50%	-	100.00%
	0.88%	1.75%	0.00%	1.75%	6.14%	66.67%	22.81%	-	100.00%
	0.56%	0.00%	0.00%	1.68%	6.70%	1.68%	89.39%	-	100.00%
	37.84%	29.73%	0.00%	2.70%	0.00%	29.73%	0.00%	-	100.00%
Diagonal Sum									68.17%
Increase	71.68%	0.00%	0.00%	7.08%	17.70%	0.00%	3.54%	-	100.00%
	2.78%	2.78%	0.00%	69.44%	0.00%	5.56%	19.44%	-	100.00%
	0.00%	0.00%	6.12%	0.00%	77.55%	6.12%	10.20%	-	100.00%
	3.92%	0.00%	0.00%	68.63%	1.96%	0.00%	25.49%	-	100.00%
	7.76%	0.00%	0.00%	0.86%	74.14%	0.00%	17.24%	-	100.00%
	2.30%	1.15%	0.00%	4.60%	10.34%	4.60%	77.01%	-	100.00%
	0.00%	0.00%	0.00%	3.41%	6.82%	0.00%	89.77%	-	100.00%
	57.14%	6.35%	1.59%	9.52%	15.87%	4.76%	4.76%	-	100.00%
Diagonal Sum									45.39%

Table S1: Medication retention rates in the dataset were evaluated for each action: ‘Maintaining’ (88.11%), ‘Subtle Increase’ (68.17%), and ‘Increase’ (45.39%). Abbreviations are as follows ‘L’:levodopa, ‘D’:dopamine agonists, ‘O’: others, ‘No’: None. Dopamine agonists showed the greatest variability in retention rates, with 82.05%, 52.38%, and 2.78% for the Maintain, Subtle Increase, and Increase actions, respectively. This indicates that dopamine agonists are the most likely to undergo prescription changes, especially in the Increase category, where 69.44% of cases involved the addition of levodopa. In contrast, medications in the Maintain action had retention rates exceeding 80% across all categories.