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| **Supplementary Data: Table S1. Prescribing Patterns according to WHO-ATC anatomical groups** |
|  | **Dementia****(n=147)** | **No Dementia****(n=436)** | **Total****(n=583)** | **P-value2**  | **T-value, χ2 or Fishers exact test** | **Controlling for Age, Sex and co-morbidity3**  |
| Number of patients prescribed ≥ 1 of the following medications according to the WHO-ATC anatomical groups1, N (%) |  |  |  |  |  |  |
| Alimentary Tract and Metabolism (WHO-ATC A) | 110 (74.8) | 296 (67.9) | 406 (69.6) | 0.11 | χ2 = 2.5 | aOR = 0.9, 95% CI = 0.6-1.5 |
| Blood and Blood Forming Organs (WHO-ATC B) | 105 (71.4) | 302 (69.3) | 407 (69.8) | 0.62 | χ2 = 0.2 | aOR = 1.0, 95% CI = 0.6-1.6 |
| Cardiovascular System (WHO-ATC C) | 126 (85.7) | 381 (87.4) | 507 (87.0) | 0.60 | χ2 = 0.3 | aOR = 0.7, 95% CI = 0.4–1.3 |
| Genito-Urinary System and Sex Hormones (WHO-ATC G) | 31 (21.1) | 70 (16.1) | 101 (17.3) | 0.16 | χ2 = 1.9 | aOR = 1.2, 95% CI = 0.7-2.0 |
| Systemic Hormonal Preparations (WHO-ATC H) | 25 (17.0) | 100 (22.9) | 125 (21.4) | 0.13 | χ2 = 2.3 | aOR = 0.6, 95% CI = 0.4-1.0 |
| Anti-infectives for Systemic Use (WHO-ATC J) | 22 (15.0) | 41 (9.4) | 63 (10.8) | 0.06 | χ2 = 3.5 | aOR = 1.6, 95% CI = 0.8-2.9 |
| Anti-neoplastic and Immunomodulating Agents (WHO-ATC L) | 5 (3.4) | 26 (6.0) | 31 (5.3) | 0.23 | χ2 = 1.4 | aOR = 0.7, 95% CI = 0.2-1.9 |
| Musculo-Skeletal System (WHO-ATC M) | 38 (25.9) | 100 (22.9) | 138 (23.7) | 0.47 | χ2 = 0.5 | aOR = 1.2, 95% CI = 0.8-2.0 |
| Nervous System (WHO-ATC N) | 111 (75.5) | 239 (54.8) | 350 (60.0) | <0.001\* | χ2 = 19.6 | aOR = 2.0, 95% CI = 1.3-3.2ǂ |
| Anti-parasitic Products, Insecticides and Repellants (WHO-ATC P) | 2 (1.4) | 10 (2.3) | 12 (2.1) | 0.74 | F = 0.74 | aOR = 0.6, 95% CI = 0.1-3.3 |
| Respiratory System (WHO-ATC R) | 37 (25.2) | 125 (28.7) | 162 (27.8) | 0.41 | χ2 = 0.7 | aOR = 0.8, 95% CI = 0.5-1.2 |
| Sensory Organs (WHO-ATC S) | 13 (8.8) | 28 (6.4) | 41 (7.0) | 0.32 | χ2 = 1.0 | aOR = 1.0, 95% CI = 0.2-2.2 |
| Various (WHO-ATC V) | 1 (0.7) | 4 (0.9) | 5 (0.9) | 1.0 | F = 1.0 | aOR = 0.5, 95% CI = 0.1-5.2 |

1WHO-ATC D (Dermatologicals) excluded as emollients without any active ingredients were not coded.

2P-value for two-way table with measures of association

3P-value for dependent variable utilising linear or logistic regression as appropriate, with age, sex and CIRS-G as the independent variables.

\*Statistically significant at p-level <0.05, utilising χ2 test.

ǂ Statistically significant at p-level <0.05, utilising logistic regression.

WHO-ATC = World Health Organization Anatomical Therapeutic Chemical, CIRS-G = Cumulative Illness Rating Scale in Geriatrics, aOR = Adjusted Odds Ratio, β = beta- coefficient, 95% CI = 95% Confidence Interval