## SUPPLEMENTARY MATERIAL

## Table S1. Management strategy at baseline by baseline diabetes status

|  |  |  |
| --- | --- | --- |
| **Treatment strategy** | **No diabetes** **(N = 40468)** | **Diabetes** **(N = 11542)** |
| Rhythm Control | 12411 (30.7) | 3193 (27.7) |
| Rate Control | 17100 (42.3) | 5190 (45.0) |
| Both | 4357 (10.8) | 1308 (11.3) |
| None | 5483 (13.5) | 1521 (13.2) |
| Unknown | 1117 (2.8) | 330 (2.9) |
| **Antiarrhythmic drugs** |  |  |
| Class I | 4010 (9.9) | 926 (8.0) |
| Class II | 21987 (54.3) | 6619 (57.4) |
| Class III |  7578 (18.7) | 2228 (19.3) |
| Class IV (calcium antagonists) | 9149 (22.6) | 3460 (30.0) |
| Class V | 3508 (8.7) | 1083 (9.4) |
|  |  |  |

## Table S2. Baseline characteristics in patients with diabetes who received insulin

|  |  |  |
| --- | --- | --- |
| **Baseline characteristics** | **Insulin and oral antidiabetics****(N = 599)** | **Insulin only****(N = 951)** |
|  |  |  |
| **Sex, n (%)** |  |  |
| * Male
 | 320 (53.4) | 503 (52.9) |
| * Female
 | 279 (46.6) | 448 (47.1) |
|  |  |  |
| Age, median (Q1; Q3), years | 71.0 (63.0;76.0) | 71.0 (64.0;78.0) |
|  |  |  |
| **Ethnicity, n (%)** |  |  |
| * Caucasian
 | 401 (68.9) | 634 (68.5) |
| * Hispanic/Latino
 | 43 (7.4) | 73 (7.9) |
| * Asian
 | 110 (18.9) | 183 (19.8) |
| * Afro-Caribbean/Mixed/Other
 | 28 (4.8) | 36 (3.9) |
|  |  |  |
| Body mass index, median (Q1; Q3), kg/m² | 30.9 (26.8;35.6) | 29.6 (25.7;33.8) |
| Systolic blood pressure, median (Q1; Q3), mmHg | 137.0 (120.0;149.0) | 132.0 (120.0;150.0) |
| Diastolic blood pressure, median (Q1; Q3), mmHg | 80.0 (70.0;88.0) | 80.0 (70.0;85.0) |
| Pulse, median (Q1; Q3), bpm | 90.0 (74.0;113.0) | 86.0 (72.0;110.0) |
|  |  |  |
| **Type of atrial fibrillation, n (%)** |  |  |
| * Permanent
 | 69 (11.5) | 118 (12.4) |
| * Persistent
 | 69 (11.5) | 119 (12.5) |
| * Paroxysmal
 | 123 (20.5) | 240 (25.2) |
| * New onset (unclassified)
 | 338 (56.4) | 474 (49.8) |
|  |  |  |
| **Care setting specialty at diagnosis, n (%)** |  |  |
| * Internal medicine/Neurology/Geriatrics
 | 188 (31.4) | 234 (24.6) |
| * Cardiology
 | 332 (55.4) | 610 (64.1) |
| * Primary care/general practice
 | 79 (13.2) | 107 (11.3) |
|  |  |  |
| **Care setting location at diagnosis, n (%)** |  |  |
| * Hospital
 | 348 (58.1) | 598 (62.9) |
| * Office/Anticoagulation clinic/Thrombosis centre
 | 153 (25.5) | 230 (24.2) |
| * Emergency room
 | 98 (16.4) | 123 (12.9) |
|  |  |  |
| **Medical history, n (%)** |  |  |
| * Heart failure
 | 159 (26.5) | 336 (35.3) |
| * Acute coronary syndromes
 | 124 (20.8) | 244 (25.9) |
| * Vascular disease1
 | 240 (40.4) | 425 (45.1) |
| * Carotid occlusive disease
 | 31 (5.2) | 44 (4.7) |
| * VTE
 | 21 (3.5) | 24 (2.6) |
| * Prior stroke/TIA/SE
 | 76 (12.8) | 152 (16.2) |
| * Prior bleeding
 | 18 (3.0) | 41 (4.3) |
| * Hypertension
 | 527 (88.0) | 820 (86.4) |
| * Hypercholesterolaemia
 | 394 (66.8) | 544 (59.1) |
| * Cirrhosis
 | 4 (0.7) | 16 (1.7) |
| * Moderate to severe CKD
 | 116 (20.0) | 265 (29.0) |
| * Dementia
 | 16 (2.7) | 20 (2.1) |
|  |  |  |
| Heavy alcohol consumption, n (%) | 6 (1.2) | 14 (1.8) |
| Current smoker, n (%) | 39 (7.3) | 78 (9.3) |
|  |  |  |
| **Antithrombotic treatment, n (%)** |  |  |
| NOAC ± AP | 169 (28.6) | 240 (25.7) |
| VKA ± AP | 271 (45.9) | 373 (39.9) |
| AP only | 115 (19.5) | 226 (24.2) |
| None | 36 (6.1) | 96 (10.3) |
|  |  |  |
| AP treatment (±OAC), n (%) | 272 (46.0) | 443 (47.4) |
|  |  |  |
| CHA2DS2-VASc score, median (Q1; Q3) | 4.0 (3.0;5.0) | 5.0 (4.0;6.0) |
| HAS-BLED score2, median (Q1; Q3) | 2.0 (1.0;2.0) | 2.0 (1.0;3.0) |
| GARFIELD-AF death score3, median (Q1; Q3) | 6.8 (3.6;11.6) | 7.8 (4.4;13.5) |
| GARFIELD-AF stroke score4, median (Q1; Q3) | 1.9 (1.3;2.8) | 2.3 (1.5;3.3) |
| GARFIELD-AF bleeding score5, median (Q1; Q3) | 2.0 (1.4;3.1) | 2.2 (1.5;3.4) |
|  |  |  |

1Defined as peripheral artery disease and/or coronary artery disease;

2The risk factor ‘Labile INRs’ is not included in the HAS-BLED score as it is not collected at baseline. As a result, the maximum HAS-BLED score at baseline is 8 points (not 9)

3Represents the expected probability of death within two-years follow-up

4Represents the expected probability of non-haemorrhagic stroke/SE within two-years follow-up

5Represents the expected probability of major bleeding within two-years follow-up

## Figure S1. Balance of variables associated with NOAC treatment (ref.: VKA) among patients without diabetes before and after propensity score weighting



## Figure S2. Balance of variables associated with NOAC treatment (ref.: VKA) among patients with diabetes before and after propensity score weighting



## Figure S3. Flowchart for the selection of the study population



**Figure S4.** Distribution of diabetes prevalence by country in AF patients enrolled in the GARFIELD-AF registry (Cohorts 1-5)



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