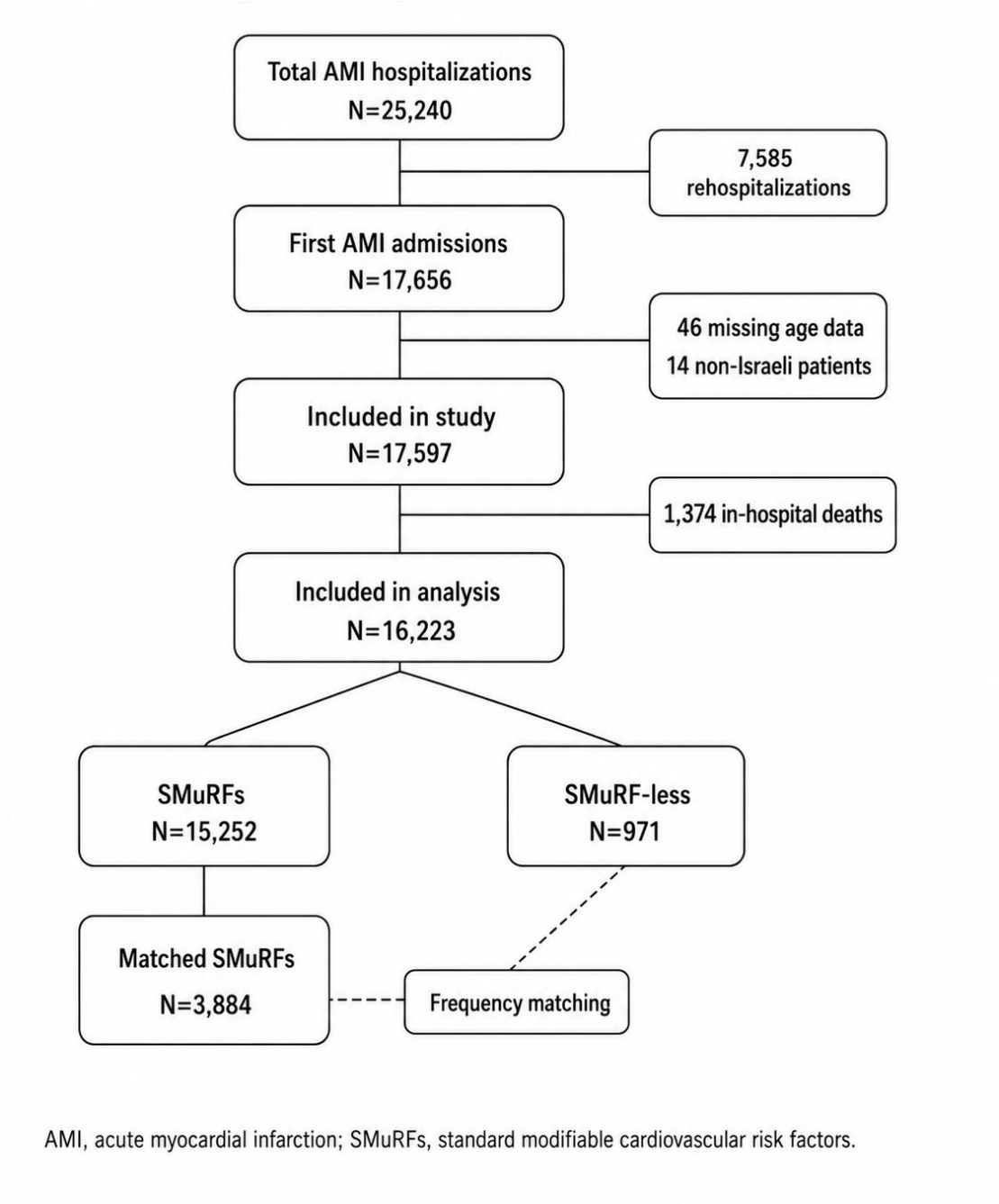
Supplementary Figure S1. Flow diagram of study cohort selection




AMI, acute myocardial infarction; SMuRFs, standard modifiable cardiovascular risk factors.

The flow diagram illustrates the derivation of the final analytical cohort from the source population of patients hospitalized with AMI and a documented COPD diagnosis. Patients were excluded because of predefined eligibility criteria, in-hospital mortality during the index hospitalization, or absence of documented spirometry within the predefined time window. The final cohort included 169 patients with available spirometry data.

Supplementary Table S1. Baseline characteristics of COPD-AMI patients with and without documented spirometry

| Group | | Lung Function Data | | | P |
|---|---|---|---|---|---|
| | | No | Yes | Total | |
| **n** | | **767** | **169** | **963** | |
| **Demographics** | | | | | |
| Age, Years | Mean (SD) | 71.91(11.4) | 66.76(9.86) | | <0.001 |
| | <65 | 205 (26.7) | 73 (43.2) | 278 (29.7) | |
| | 65-75 | 268 (34.9) | 62 (36.7) | 330 (35.3) | <0.001 |
| | ≥75 | 294 (38.3) | 34 (20.1) | 328 (35) | |
| Sex | Male | 592 (77.2) | 130 (76.9) | 722 (77.1) | 0.942 |
| Ethnicity | Arab / Other | 188 (24.5) | 61 (36.1) | 249 (26.6) | 0.002 |
| **Cardiac diseases** | | | | | |
| Supraventricular arrhythmias | | 170 (22.2) | 24 (14.2) | 194 (20.7) | 0.021 |
| Pulmonary heart disease | | 99 (12.9) | 23 (13.6) | 122 (13) | 0.806 |
| CIHD | | 562 (73.3) | 146 (86.4) | 708 (75.6) | <0.001 |
| s/p MI | | 151 (19.7) | 29 (17.2) | 180 (19.2) | 0.45 |
| **Cardiovascular risk factors** | | | | | |
| Renal diseases | | 74 (9.6) | 5 (3) | 79 (8.4) | 0.005 |
| DM | | 308 (40.2) | 91 (53.8) | 399 (42.6) | 0.001 |
| Dyslipidemia | | 589 (76.8) | 133 (78.7) | 722 (77.1) | 0.593 |
| Hypertension | | 396 (51.6) | 107 (63.3) | 503 (53.7) | 0.006 |
| Smoking | | 476 (62.1) | 136 (80.5) | 612 (65.4) | <0.001 |
| **Other disorders** | | | | | |
| Neurological disorders | | 139 (18.1) | 24 (14.2) | 163 (17.4) | 0.224 |
| Malignancy | | 36 (4.7) | 10 (5.9) | 46 (4.9) | 0.505 |
| Anemia | | 385 (50.2) | 60 (35.5) | 445 (47.5) | <0.001 |
| **Administrative characteristics of the hospitalization** | | | | | |
| Admitted/transposed to ICCU | | 418 (54.5) | 98 (58) | 516 (55.1) | 0.409 |
| Length of hospital stay, days | ≥7 | 417 (54.4) | 82 (48.5) | 499 (53.3) | 0.168 |
| **Clinical characteristics of the hospitalization** | | | | | |
| Type of AMI | STEMI | 278 (36.2) | 45 (26.6) | 323 (34.5) | 0.017 |
| Type of treatment | Invasive | 452 (58.9) | 126 (74.6) | 578 (61.8) | <0.001 |

Data are presented as n (%) for categorical variables and mean ± standard deviation (SD) for continuous variables. The table compares baseline demographic, clinical, hospitalization-related, and treatment characteristics between COPD-AMI patients included in the final analytical cohort because documented spirometry was available and eligible COPD-AMI patients excluded because spirometry data were unavailable. Abbreviations: AMI, acute myocardial infarction; COPD, chronic obstructive pulmonary disease; SD, standard deviation; CIHD, chronic ischemic heart disease; DM, diabetes mellitus; PVD, peripheral vascular disease; ICCU, intensive coronary care unit; STEMI, ST-segment elevation myocardial infarction.