Incidence, Characteristics, and Management of Patients with Recurrent Myocardial Infarctions: Insights from the EYESHOT POST-MI

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Background. It is unknown whether patients who survived two or multiple episodes of myocardial infarction (MI) present different clinical characteristics and management than patients at their first MI. Methods. The EYESHOT post-MI was a prospective, observational, nationwide study aimed to evaluate the management of patients presenting to cardiologists 1 to 3 years from the last MI event. In 3 months of enrolment, 165 Italian cardiology centers included 1633 consecutive post-MI patients. In the present analysis, we stratified the study cohort according to the number of prior MI episodes (i.e., 1, 2 or ≥3). Results. Among the 1618 patients enrolled with complete data on MI history, 1335 (82.5%) were at their first MI episode, 209 (12.9%) had a history of 2 MIs, and the remaining 74 (4.6%) had ≥3 prior MIs. Patients with a history of multiple MIs were increasingly older and presented a significantly higher rate of risk factors compared to those at their first MI. During the year prior to enrolment, patients with 2 or ≥3 MI episodes more frequently underwent coronary angiography compared to the other group (p < 0.0001). In addition, several lifesaving and antianginal drugs were more frequently prescribed in patients presenting with a history of multiple MIs compared to those at their first MI. Conclusions. Our data suggest that patients with multiple MIs managed by cardiologists in routine clinical practice present an incremental clinical risk, more frequently undergo coronary angiography, and are more intensively managed with pharmacological therapies compared to patients at their first MI episode.

1. Introduction

Survivors of acute myocardial infarction (MI) have a considerable risk of recurrent infarction after discharge, especially during the first year [1–8]. Patients who experience re-MI are exposed to an increased risk of all-cause and cardiovascular major events, including mortality [1–8]. For this reason, the identification of re-MI predictors, as well as the intensification of secondary prevention strategies in patients at higher risk, appears crucial to reduce long-term cardiovascular events [9]. To date, it is unknown whether patients who survived two or multiple episodes of MI
present clinical characteristics of greater risk and receive more aggressive pharmaceutical treatments than patients at their first MI.

Using the data of the EYESHOT (EmploYEd antithrombotic therapies in patients with acute coronary Syndromes HOSPitalized in Italy) Post-MI study [10] that included consecutive post-MI patients presenting to cardiologists, we sought to assess incidence, characteristics, and current management of patients at their first MI compared to those with a history of multiple MIs.

2. Methods

The EYESHOT Post-MI was a prospective, observational, nationwide registry of consecutive patients with a prior MI managed by cardiologists [10]. All patients admitted in cardiology units and/or ambulatory clinics during a period of 3 months with a documented history of presumed spontaneous MI event (non-ST elevation, NSTEMI, or ST-elevation-MI, STEMI) occurred between 1 and 3 years before enrolment have been included. We excluded patients aged <18 years and those not giving informed consent. Enrolment was made at the beginning of outpatient or day-hospital visit or at hospital admission [10].

No specific protocols for evaluation, management, and/or treatment have been put forth during this observational study. However, current guidelines for the management of STEMI and NSTEMACS [11, 12] have been discussed during the investigator meetings.

All patients were informed of the nature and aims of the study and asked to sign an informed consent for the anonymous management of their individual data. Local Institutional Review Boards (IRB) approved the study protocol according to the current Italian rules.

Each site started patient enrolment after local IRB approval. Therefore, data were collected in different periods of consecutive 3 months in each site between March 1st, 2017, and December 16th, 2017 [10, 13]. Over these periods, 1633 consecutive patients were enrolled in 165 cardiology centers. In the present analysis, we considered 1618 patients (99.1%) with complete data on prior MI history.

2.1. Data Collection and Data Quality. Data on baseline characteristics, including demographics, risk factors, and medical history, were collected. Information on the use of diagnostic cardiac procedures, type and timing of revascularization therapy (if performed), and use of pharmacological or nonpharmacological therapies were recorded on an electronic case report form (CRF) [10].

At each site, the principal investigator was responsible for screening consecutive patients presenting between 1 and 3 years from the last MI. Data were collected using a web-based, electronic CRF with the central database located at the ANMCO (Associazione Nazionale Medici Cardiologi Ospedalieri) Research Center. By using a validation plan, integrated in the data entry software, data were checked for missing or contradictory entries and values out of the normal range.

2.2. Statistical Analysis. Categorical variables are presented as number and percentages and compared by the Chi-square test. Continuous variables are presented as mean and standard deviation (SD), except for timing from last MI and triglycerides, which are reported as median and interquartile range (IQR), and were compared by the analysis of variance (ANOVA), if normally distributed, or by Kruskall–Wallis test, if not. The study cohort was stratified according to the number of prior MI episodes (i.e., 1, 2, or ≥3).

A p value < 0.05 was considered statistically significant. All tests were 2-sided. Analyses were performed with SAS system software, version 9.4.

3. Results

Among the 1618 patients enrolled with complete data on MI history, 1335 (82.5%) were at their first MI episode, 209 (12.9%) had a history of 2 MIs, and the remaining 74 (4.6%) had ≥3 prior MIs.

Baseline characteristics of the study population are shown in Table 1. The mean age of enrolled patients was 66 ± 12 years, 80% were male, 28% diabetics, and 74% had hypercholesterolemia. The mean ejection fraction was 52 ± 10%, a systolic blood pressure ≤140 mmHg was present in 82%, a heart rate ≤70 bpm in 71%, and low-density lipoprotein (LDL) cholesterol levels ≤70 mg/dl in 49% of cases. Patients with a history of 2 or ≥3 MIs were older and presented a significantly higher rate of risk factors such as diabetes mellitus, hypertension, hypercholesterolemia, history of atrial fibrillation, heart failure, cerebrovascular events, surgical myocardial revascularization, chronic kidney disease or peripheral artery disease and higher levels of creatinine, and a lower mean left ventricular ejection fraction compared to those at their first MI (Table 1).

3.1. Diagnostic Procedures and Pharmacological Treatments. Diagnostic cardiac procedures performed in the 3 groups within the previous 12 months from enrolment are shown in Figure 1. During the year prior to enrolment, most patients received a transthoracic echocardiogram, followed by coronary angiography. Patients with ≥3 MI episodes more frequently underwent a coronary angiography and a Holter ECG compared to the other groups (Figure 1). Coronary angiography was performed in 1581 patients (97.7%), and, among these, 1456 (92.1%) had the angiographic data available (92.8% for those with 1 prior MI episode, 87.3% for those with 2 MI episodes, and 93.2% for patients with ≥3 MIs). Patients with a history of ≥3 MIs presented a higher rate of multivessel coronary artery disease (47.8% vs 38.2% vs 31.8%; p = 0.008), a higher number of coronary stent implanted (Table 1), and significant stenoses of the right coronary artery and of venous or arterial grafts compared to other groups (Figure 2).

Among patients enrolled, 15.3% were on diet, a regular physical activity was performed by 28.3%, without a significant difference between the 3 groups, and 61.0% of smokers at the time of last MI declared to have stopped smoking, with a higher prevalence in those at their first MI episode compared to other groups (p < 0.0001).
At the time of enrolment, most patients were prescribed on statins (93%), followed by beta-blockers (82%) and angiotensin-converting enzyme inhibitors/angiotensin receptor blockers (76%). Beta-blockers, diuretics, dual antiplatelet therapy (DAPT), mineralocorticoid receptor antagonists, oral anticoagulants, and antianginal drugs were more frequently used among patients presenting with a history of 2 or ≥3 MIs compared to those presenting at their first MI (Figure 3).

### 4. Discussion

The present study provides unique contemporary data on clinical characteristics, healthcare resource utilization, and treatment patterns of patients at their first MI or with multiple MIs managed by cardiologists in routine clinical practice. Although several studies have evaluated the impact of re-MI on outcomes [1–9], this is the first study, to the best of our knowledge, that has demonstrated the incremental association between clinical risk and the increase in the number of re-MI events. Patients with multiple MIs were older and presented more comorbidities, more frequently underwent invasive testing within the previous 12 months from enrolment such as coronary angiography, and were more aggressively treated with pharmacological therapies compared to patients at their first MI event. These data suggest that the history of multiple recurrent MI is

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#### Table 1: Baseline clinical characteristics, hemodynamic, and laboratory variables of patients presenting with a history of 1, 2, or ≥3 MIs.

|                         | Total population n = 1618 | History of 1 MI n = 1335 | History of 2 MIs n = 209 | History of ≥3 MIs n = 74 | p value |
|-------------------------|---------------------------|--------------------------|--------------------------|--------------------------|---------|
| Age (years), mean ± SD  | 66 ± 12                   | 65 ± 12                  | 69 ± 11                  | 70 ± 11                  | <0.0001 |
| Females, n (%)          | 316 (19.5)                | 269 (20.2)               | 37 (17.7)                | 10 (13.5)                | 0.29    |
| Type of last MI STEMI NSTEMI  | 821 (50.7) 797 (49.3) | 718 (53.8) 617 (46.2)   | 74 (35.4) 135 (64.6)    | 29 (39.2) 45 (60.8)      | <0.0001 |
| Time from last MI 12–24 months 24–36 months | 1018 (62.9) 600 (37.1) | 843 (63.2) 492 (36.8)   | 126 (60.3) 83 (39.7)    | 49 (66.2) 25 (33.8)      | 0.61    |
| BMI (kg/m²), mean ± SD  | 27.2 ± 4.1                | 27.2 ± 4.0               | 27.5 ± 4.3               | 27.7 ± 4.6               | 0.29    |
| Active smokers, n (%)   | 307 (19.0)                | 254 (19.0)               | 36 (17.2)                | 17 (23.0)                | 0.55    |
| Diabetes mellitus, n (%)| 453 (28.0)                | 346 (25.9)               | 80 (38.3)                | 27 (36.5)                | 0.0003  |
| Hypertension, n (%)     | 1270 (78.5)               | 1025 (76.8)              | 176 (84.2)               | 69 (93.2)                | 0.0004  |
| Hypercholesterolemia, n (%) | 1203 (74.4) 977 (73.2) | 97 (79.4)                | 60 (81.1)                | 60 (81.1)                | 0.06    |
| History of atrial fibrillation, n (%) | 207 (12.8) 149 (11.2) | 37 (17.7)                | 21 (28.4)                | <0.0001 |
| Chronic renal dysfunction, n (%) | 198 (12.2) 132 (9.9) | 48 (23.0)                | 18 (24.3)                | <0.0001 |
| Peripheral artery disease, n (%) | 111 (6.9) 76 (5.7) | 26 (12.4)                | 9 (12.2)                 | <0.0001 |
| COPD, n (%)             | 184 (11.4)                | 132 (9.9)                | 38 (18.2)                | 14 (18.9)                | 0.0002  |
| History of major bleedings, n (%) | 68 (4.2) 43 (3.2) | 17 (8.1)                 | 8 (10.8)                 | <0.0001 |
| History of heart failure, n (%) | 48 (3.0) 34 (2.6) | 10 (4.8)                 | 4 (5.4)                  | 0.09    |
| Prior PCI, n (%) >2 stent implanted, n (%) | 249 (15.4) 160 (12.0) | 57 (27.3)                | 32 (43.2)                | <0.0001 |
| Prior CAGB, n (%)       | 170 (10.5)                | 98 (7.3)                 | 45 (21.5)                | 27 (36.5)                | <0.0001 |
| Ejection fraction (%), mean ± SD available for 1461 (90.3%) pts | 52.4 ± 9.9 | 53.4 ± 9.0 | 48.3 ± 12.1 | 47.3 ± 12.1 | <0.0001 |
| SBP (mmHg), mean ± SD   | 130 ± 17                  | 130 ± 17                 | 127 ± 17                 | 133 ± 21                 | 0.02    |
| Target values of blood pressure, n (%) | 620 (38.3) 497 (37.3) | 97 (46.4)                | 26 (35.1)                | 0.03    |
| Pulse pressure (mmHg), mean ± SD | 53.1 ± 14.3 53.0 ± 14.0 | 52.3 ± 14.4 | 56.8 ± 17.4 | 0.06    |
| HR (bpm), mean ± SD     | 68 ± 12                   | 67 ± 11                  | 67 ± 13                  | 69 ± 15                  | 0.32    |
| Hb (g/dL), mean ± SD available for 1099 (67.9%) pts | 13.7 ± 1.8 | 13.8 ± 1.7 | 13.1 ± 1.9 | 13.0 ± 2.1 | <0.0001 |
| Creatinine (mg/dL), mean ± SD available for 1106 (68.4%) pts | 1.1 ± 0.4 | 1.0 ± 0.4 | 1.2 ± 0.5 | 1.3 ± 1.2 | 0.0001 |
| Total cholesterol (mg/dL), mean ± SD available for 998 (61.1%) pts | 145.3 ± 35.6 | 144.8 ± 35.1 | 148.5 ± 40.0 | 146.8 ± 33.6 | 0.54    |
| LDL cholesterol available for 893(55.2%) pts | 76.4 ± 29.4 | 75.8 ± 28.7 | 79.2 ± 33.8 | 80.3 ± 28.7 | 0.61    |
| Triglycerides (mg/dL), median (IQR) available for 968 (59.8%) pts | 106 [80–145] | 104 [80–144] | 115 [92–156] | 105 [75–130] | 0.12    |
| Glycemia (mg/dL), mean ± SD available for 980 (60.6%) pts | 111.9 ± 32.4 | 110.2 ± 29.7 | 120.2 ± 38.8 | 119.5 ± 49.5 | 0.01    |

BMI: body mass index; COPD: chronic obstructive pulmonary disease; Hb: hemoglobin; HR: heart rate; LDL: low density lipoprotein; SBP: systolic blood pressure; STEMI: ST-elevation myocardial infarction; TIA: transient ischemic attack. a Systolic blood pressure ≥140 mmHg or diastolic blood pressure ≥90 mmHg or use of blood pressure lowering drugs. b History of claudication; aorta-iliac occlusive disease reconstruction surgery; peripheral vascular bypass surgery, angioplasty, or stent; documented abdominal aortic aneurysm, aneurysm repair or stent; and documented positive noninvasive testing such as abnormal ankle-brachial index or pulse volume recording. c Clinically evident bleeding with haemoglobin reduction ≥ 2 g/dL or requiring transfusion or hospitalization. d SBP ≤ 120 mmHg and DBP ≤ 80 mmHg.
considered by cardiologists as one of the major predictors of risk for cardiovascular diseases, so much so that it deserves more intensive management compared to patients at the first MI.

The prognostic impact of re-MI may be dramatic in patients surviving after a first coronary event [14–19]. Compared to patients without re-MI, those who suffer re-MI showed significantly higher rates of mortality at short- and long-term follow-up [1–9, 14–19]. A recent paper, analyzing a prospective cohort of 3387 patients, showed that re-MI was associated with 25-fold higher risk of death at 1 year compared to patients with a single acute coronary event [20]. This increase in mortality risk may be related, as also suggested by our data, to the greater number of comorbidities present in patients with re-MI rather than to the recurrence of the MI event per se, which appears increasingly rare. Indeed, in recent cohorts of post-MI patients, a progressive decline in re-MI occurrence at long-term follow-up was observed [20, 21]. In our contemporary cohort, which includes only patients with previous MI, it is interesting to note that 13% had a history of 2 MIs and 5% multiple MIs, with an incremental increase in the risk profile.

Observational studies suggested that patients with previous MI and/or myocardial revascularization are less subjected to tests for the evaluation of ischemia and undergo more coronary angiography [22]. This finding was confirmed in our study in which patients with multiple MI more frequently underwent coronary angiography in the year prior to enrolment than patients at their first MI event, even if those with multiple MIs did not present a more extensive coronary artery disease compared to those at their first MI episode. In addition, in patients with a history of multiple MIs, a more aggressive pharmacological therapy, including DAPT, beta-blockers, diuretics, and antianginal drugs, was prescribed by cardiologist compared to those with 1 or 2 MIs. Again, this more invasive and aggressive attitude may be related to the greater risk perceived by cardiologists based

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**Figure 1:** Diagnostic procedures performed within 12 months before enrolment in the 3 groups. CCTA: coronary computed tomography angiography; MRI: magnetic resonance imaging.

**Figure 2:** Frequency of coronary vessel with significant stenoses (≥50% for left main and ≥70% for other vessels at coronary angiography) in the 3 groups (data on 1456 patients with angiographic data available). LAD: left anterior descending; LCx: left circumflex; LM: left main; RCA: right coronary artery.
on the number of comorbidities rather than the number of previous MI episodes. In this regard, prior studies found incomplete prescription of recommended medications to predict re-MI [23, 24]. In our series, about one in four patients, regardless of the number of prior MIs, was not prescribed OMT at the time of enrolment. This indicates that there was potential to intensify treatment and possibly some of the recurrent MI events could have been delayed or prevented.

4.1. Study Limitations. Our study must be evaluated in the light of the known limitations of observational, cross-sectional studies. In addition, even if the participating centers were asked to include in the registry all consecutive post-MI patients, we were not able to verify the enrolment process, due to the absence of administrative auditing. We believe that it is unlikely, however, that selective enrolment in few sites may have substantially changed the study results. Finally, data reported in the present analysis are limited to the time of enrolment, and we do not have data on long-term persistence to prescribed therapies, their changes, and relative outcomes.

5. Conclusions

This contemporary, nationwide, real-world cohort of consecutive patients with prior MI managed by cardiologists suggests that those with multiple MIs present an incremental clinical risk, more frequently undergo coronary angiography, and are more intensively managed with pharmacological therapies compared to patients at their first MI episode. Whether this more aggressive attitude is associated with an improved long-term prognosis should be evaluated in large, randomized studies.

Appendix

Drugs not reported have been used in less than 8% of the cases

Steering committee and list of participating centers and investigators.

Steering Committee.
L De Luca (Chairman), MM Gulizia (Co-Chairman), F Colivicchi, A Di Lenarda, D Gabrielli, G Geraci, F Nardi, R Rossini.

Coordinating Center.
ANMCO Research Center (AP Maggioni, D Lucci, A Lorimer, G Orsini, L Gonzini, P Priami).

Participating Centers and Investigators.
Salerno (F Piscione, A Silverio, RM Benvenga); Caserta, A.O. S. Anna e S. Sebastiano (F Mascia, A Fusco, S Cicala); Pavia, Fondazione IRCCS Pol. S. Matteo, (L Oltrona Visconti, B Marinoni, U Canosi); Napoli, AOU Federico II (P Cirillo, B Trimarco, F Ziviello); Rimini (D Grosseto, M Menozzi, D Mezzena); Napoli, AORN Cardarelli, Cardiologia c/UTIC (C Mauro, A Sasso, A Bellis); Napoli, AORN Osp. dei Colli-PO V. Monaldi (P Calabrò, F Gragnano, A Cesaro); Roma, S. Pertini (V Venturelli, V Porretta, N Borrelli); Catanzaro, Materdomini (C Indolfi, S De Rosa, D Torella); Milano, Niguarda, Cardiologia 1 (N Morici); Genova, Galliera (P Bernabò, M Molfese, F Della Rovere)
Data Availability

The data used to support the findings of this study are available from the corresponding author upon request.
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Conflicts of Interest

Prof. De Luca. reports personal fees from Amgen, Aspen, Astra Zeneca, Bayer, Boeringer Ingelheim, Daiichi Sankyo, Menarini, Pfizer, outside the submitted work; Lucci is an employee of Heart Care Foundation, which conducted the study with an unrestricted grant of research from Astra Zeneca, Italy. All other authors have reported that no potential conflicts of interest exist with any companies/organizations whose products or services may be discussed in this article.
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