

SUPPLEMENTAL MATERIAL

SUPPLEMENTAL TABLES

Appendix 1. Characteristics of included studies

Source	Mean Age, y	Female %	No. of Patients	Years of Diagnosis	AF Type	AF Incidence Any/New/Prior	AF Evaluation	Mortality Measures	Selection	Comparability	Outcome Ascertainment ⁽¹⁾	Newcastle-Ottawa Scale
Randomized Trials												
Crenshaw, ² 1997	62	25	40891	1990-1993	Any	10%/NR/NR	Hosp	30 d	3	1	2	6
Pedersen, ¹¹ 1999*	69	42	6676	1990-1992	Any/New [#] /Prior	21%/17%/4%	Hosp	Hosp, 5 y	3	2	3	8
Wong, ⁷ 2000*	63	27	13858	1995-1997	New	NR/7%/NR	Hosp	30 d, 1 y	3	2	3	8
Pizzetti, ⁵ 2001*	NR	22	17749	1991-1993	New	NR/8%/NR	Hosp	Hosp, 6 m, 4 y	3	2	3	8
Lehto, ⁹ 2005*	67	29	5477	1998-1999	Any/New [#] /Prior	NR/7%/12%	3 y	30 d, 3 y	3	2	3	8
Kober, ¹⁷ 2006	67	32	14660	1998-2001	Any/New/Prior	15%/12%/2%	10 d	3 y	3	2	3	8
Tangelder, ²⁴ 2008	67	31	1883	2001-2002	New	NR/9%/NR	R	6 m	3	0	2	5
Lopes, ²³ 2009	61	24	5745	2004-2006	Any/New/Prior	11%/6%/5%	14 d	90 d	3	2	2	7
Non Randomized Trials												
Community studies												
Goldberg, ²⁸ 1990	66	47	4108	1975-1986	Any/New	16%/9%/NR	Hosp	Hosp, 5 y	3	2	3	8
Saczynski, ¹² 2009	69	43	7513	1990-2005	New [#]	NR/13%/NR	Hosp	Hosp, 1 y, 5 y	3	2	2	7
Registries												
Behar, ¹ 1992	64	26	5803	1981-1983	New [#]	NR/10%/NR	Hosp	Hosp, 1y, 6 y	4	2	3	8
Eldar, ³ 1998	63	26	2866	1992-1996	New [#]	NR/9%/NR	CCU	30 d, 1y	4	2	3	8
Rathore, ⁶ 2000*	77	50	106780	1994-1996	Any/New/Prior	22%/11%/11%	Hosp	Hosp, 1 y	2	2	1	5
Mehta, ¹⁰ 2003*	65	32	21785	1999-2001	New [#] /Prior	NR/6%/8%	Hosp	Hosp	3	2	2	7
Kinjo, ⁴ 2003*	64	23	2475	1998-2002	Any/New	12%/8%/NR	Hosp	Hosp, 1 y	3	2	3	8
Lau, ³² 2009	65	36	3230	2005-2007	New [#] /Prior	NR/4%/11%	Hosp	Hosp, 1 y	3	2	2	7
Convenience sample												
Klass, ³⁰ 1970	66	NR	409	1966-1968	New [#] /Prior	NR/8%/1%	Hosp	Hosp	3	0	1	4
Cristal, ²⁷ 1976*	60	24	318	NR	New [#]	NR/11%/NR	CCU	Hosp	3	0	2	5
Liem, ⁴⁸ 1976 [□]	68	29	700	1972-1974	New [#]	NR/8%/NR	5 d	Hosp	2	0	2	4
Liberthson, ³³ 1976	64	NR	917	1968-1974	New [#]	NR/6%/NR	CCU	Hosp	3	0	2	5
Hunt, ²⁹ 1978	NR	NR	969	1972-1975	Any	11%/NR/NR	CCU	Hosp, 1y	3	0	3	6
Sugiura, ⁴² 1985	63	39	102	NR	New	NR/18%/NR	3 d	Hosp	3	2	2	7
Bigger, ²⁵ 1985	NR	23	504	1974-1980	Any	4%/NR/NR	CCU	3 y	3	2	3	8
Nielsen, ⁴⁹ 1991 [□]	60	22	152	1988-1989	Any	9%/NR/NR	CCU	Hosp	3	0	2	5
Petretta, ³⁶ 1991	66	25	275	1985-1988	Any	NR/NR/NR	NR	Hosp	3	0	2	5
Kobayashi, ⁴⁷ 1992* [□]	64	14	127	1984-1987	New [#]	NR/18%/NR	CCU	Hosp	2	0	2	4
Suarez, ⁴¹ 1995	74	30	322	1988-1991	Any	NR/NR/NR	NR	Hosp	3	0	2	5
Madias, ³⁴ 1996	64	30	517	NR	Any/New	14%/11%/NR	Hosp	Hosp	3	0	2	5
Sakata, ³⁸ 1997	66	25	1039	1985-1995	Any/New/Prior	10%/8%/1%	Hosp	Hosp, 8 y	3	2	2	7
Galcerá Thomas, ⁴⁵ 1999	65	23	1239	1992-1994	Any	8%/NR/NR	Hosp	Hosp, 1 y	3	0	2	5

Appendix 1. Continued

Source	Mean Age, y	Female %	No. of Patients	Years of Diagnosis	AF Type	AF Incidence Any/New/Prior	AF Evaluation	Mortality Measures	Selection	Comparability	Outcome Ascertainment [□]	Newcastle-Ottawa Scale
Mahon, ³⁵ 2000	67	40	852	1992-1994	Any	20%/NR/NR	Hosp	Hosp	3	2	2	7
Janion, ⁴⁶ 2001	59	28	881	1992-1996	Any	12%/NR/NR	Hosp	Hosp, 1 y, 6 y	3	1	2	6
Cicek, ²⁶ 2003	59	23	100	NR	New [#]	NR/19%/NR	Hosp	30 d	3	0	1	4
Asanin, ¹³ 2005 [□]	64	31	650	1996-1998	New [#]	NR/10%/NR	CCU	Hosp, 7 y	1	2	2	5
Rastenyte, ³⁷ 2005*	54	25	2008	1983-1992	Any	7%/NR/NR	Hosp	1 y	4	0	2	7
Trappolini, ¹⁵ 2006	75	25	848	2000-2003	New [#]	NR/10%/NR	CCU	Hosp	3	2	2	7
Siu, ⁴⁰ 2007	64	25	431	1997-2005	New [#]	NR/14%/NR	Hosp	3 y	3	0	3	6
Li, ¹⁴ 2008	74	36	967	2001-2006	Any/New [#] /Prior	10%/7%/4%	Hosp	Hosp	3	2	2	7
Sankaranarayanan, ³⁹ 2008	68	28	500	2000-2001	Any/New/Prior	25%/11%/13%	Hosp	Hosp, 1 y, 6 y	3	0	3	6
Koracevic, ³¹ 2008	64	45	543	2000-2005	Any	11%/NR/NR	NR	Hosp	3	0	2	5
Torres, ⁴³ 2008	65	28	1183	2003-2005	Any	12%/NR/NR	2 d	Hosp, 6 m	3	2	2	7
Cui, ⁴⁴ 2008*	63	30	297	2001-2005	Any	11%/NR/NR	10 d	30 d, 6 m	3	0	1	4
Berton, ⁸ 2009*	70	29	505	1995-1998	Any/New	13%/9%/NR	7 d	Hosp, 7 y	3	2	3	8

AF, Atrial Fibrillation; MI, Myocardial Infarction; NR, Not Reported; R, Until randomization; Hosp, during hospitalization; d, days; m, months; y, years; CCU, Coronary Care Unit stay.
 Any AF=AF during the MI; New AF=AF occurring after the MI; Prior AF=Pre-existing AF to MI.

*Studies that evaluated Atrial Fibrillation and/or Atrial Flutter

For the purpose of this study, we dealt with studies derived from Randomized Trials as observational studies.

[□]Exposure ascertainment for case-control studies

[#]New AF with no history of AF prior to MI.

Appendix 2. Factors adjusted for in the included studies

Source	Adjustment Variables
Randomized Trials	
Crenshaw, ² 1997*#	Age-Gender-Heart Rate-Killip class-Current smoker-Former smoker-Systolic Blood Pressure-Diastolic Blood Pressure-Hypertension-Previous MI-Diabetes-Weight-Height-MI location-Peak Creatine Kinase level-Time to Thrombolytic therapy-Thrombolytic therapy
Pedersen, ¹¹ 1999*#	Age-Gender-Wall Motion Index-Thrombolytic therapy-Previous MI-Hx Angina Pectoris-Hx Hypertension-Hx Diabetes Mellitus-Congestive Heart Failure-Ventricular Fibrillation-Ventricular Tachycardia
Wong, ⁷ 2000	Age-Systolic Blood Pressure-Weight-Killip class-Heart Rate-Infarct location-Hypertension-Diabetes Mellitus-Prior angioplasty-Prior Cerebrovascular Disease-Prior bypass surgery-Recurrent Angina-Reinfarction-Worsening Heart Failure-Hypotension-Shock-Third degree Heart Block-Ventricular Fibrillation-Severe Bleeding
Pizzetti, ⁵ 2001	Age-Gender-MI location-Previous MI-Hx Hypertension-Hx Diabetes Mellitus-Killip class-Systolic Blood Pressure-Hx Angina-Time from onset of symptoms-Heart Rate-Antiarrhythmics-Randomised treatment
Lehto, ⁹ 2005*	Age-Heart Rate-Prior MI-Smoking-Diabetes Mellitus-Hx Hypercholesterolemia-Hx chronic Heart Failure-Killip class-Thrombolytic use-Statin use
Kober, ¹⁷ 2006*	Age-Pulse Pressure-Baseline Creatinine-Heart Rate-Weight-Anterior MI-New Left Bundle Branch Block-Smoking status-Killip class at qualifying MI-Hx Angina-Hx Heart Failure-Hx Unstable Angina- Hx Peripheral Arterial Disease- Hx Alcohol abuse-Hx Stroke- Hx Chronic Obstructive Pulmonary Disease-Prior MI-Prior Percutaneous Transluminal Coronary Angioplasty, Coronary Artery Bypass Graft or Thrombolytics-Previous Hospitalizations-Renal function-Diabetes Mellitus-Country of enrollment-Randomized treatment
Tangelder, ²⁴ 2008	NR
Lopes, ²³ 2009*#	Age-Gender-US patients-Height-Weight-Systolic Blood Pressure-Diastolic Blood Pressure-Heart Rate-Killip class-MI location-Hx MI-Hx Coronary Artery Disease-Hx Congestive Heart Failure-Hx Diabetes-Hx Hypertension-Hx Stroke-Hx Transient Ischaemic Attack-Prior Percutaneous Coronary Intervention-Prior Coronary Artery Bypass Grafting-Current smoking-Creatinine clearance-Creatine Kinase level-Creatine Kinase MB level-Troponin-Brain Natriuretic Peptide-Intraaortic Balloon Pump-Automatic Implantable Cardioverter Defibrillator-Percutaneous Coronary Intervention-Cardiac Surgery-Red Blood Cell Transfusion-Recatheterization-RePercutaneous Coronary Intervention-Stents-Moderate or severe Bleed-Congestive Heart Failure-Shock-Cardiac Arrest-Deep Vein Thrombosis-Acute Ventricular Septal Defect-Recurrent MI-Recurrent ischemia-Renal Failure-Pulmonary Embolism-Stroke-Cardiac Tamponade-Ventricular Fibrillation-Ventricular Tachycardia-Ventricular Rupture-Pericarditis-Acute Mitral Regurgitation-Asystole-Acute Atrioventricular Block
Non Randomized Trials	
Community studies	
Goldberg, ²⁸ 1990	Age-Gender-MI order-Congestive Heart Failure-Cardiogenic Shock-Ventricular Tachycardia-Ventricular Fibrillation-Drug therapy
Saczynski, ¹² 2009	Age-Gender-Hx Angina-Hx Hypertension-Hx Diabetes Mellitus-Hx Stroke-Hx Heart Failure-Previous MI-Q wave-Anterior MI-ST segment elevation-Heart Failure-Cardiogenic Shock-Stroke- Length of hospital stay
Registries	
Behar, ¹ 1992	Age-Gender-Hx MI-Diabetes Mellitus-Congestive Heart Failure-Serum LDH level > 4 times the upper normal limit at the respective participating centre
Eldar, ³ 1998	Age-Gender-Previous MI-Diabetes Mellitus-Congestive Heart Failure
Rathore, ⁶ 2000	Age-Race-Gender-Heart Rate-Systolic Blood Pressure-Killip class-Hypertension-Time to presentation-Current smoker-Anterior MI-Prior Cerebrovascular Disease-Prior MI-Antiarrhythmic use
Mehta, ¹⁰ 2003	Age-Gender-ST segment elevation-Non ST segment elevation-Unstable Angina-US patients-Medical Hx-Prior Angina-Prior MI-Prior Stroke-Prior Congestive Heart Failure-Prior Percutaneous Coronary Intervention-Prior Coronary Artery Bypass Surgery-Current smoker-Hypertension-Diabetes Mellitus-Hyperlipidemia-Medications used-Heart Rate-Systolic Blood Pressure-Diastolic Blood Pressure-Serum Creatinine-Cardiac Arrest-Killip class-Q waves-Left Bundle Branch Block
Kinjo, ⁴ 2003	Age-Gender-Diabetes Mellitus-Hypertension-Current smoking-Previous MI-Previous Cerebrovascular Disease-Systolic Blood Pressure < 100 mm Hg-Heart Rate ≥ 100 beats/min-Killip class IV-Left Anterior Descending Artery-Multivessel Disease-TIMI flow grade 3
Lau, ³² 2009	Age-Increased Heart Rate-Elevated Cardiac Biomarkers-ST segment changes-Cardiogenic Shock-Impaired Renal function-Hx Ischemic Heart Disease or Heart Failure-Absence of Percutaneous Coronary Intervention

Appendix 2. Continued

Source	Adjustment Variables
Convenience sample	
Klass, ³⁰ 1970	NR
Cristal, ²⁷ 1976	NR
Liem, ⁴⁸ 1976	NR
Liberthson, ³³ 1976	NR
Hunt, ²⁹ 1978	NR
Sugiura, ⁴² 1985	NR
Bigger, ²⁵ 1985	Age-Hx MI-Hx Angina pectoris-Cigarette smoking-Diabetes Mellitus-Left Ventricular Failure-Enlarged heart (x-ray)-Anterior MI-Creatine Kinase > 1000-Pulmonary vascular congestion-Diuretic therapy-Antiarrhythmic drugs-Beta Blocker therapy-Digitalis
Nielsen, ⁴⁹ 1991	NR
Petretta, ³⁶ 1991	NR
Kobayashi, ⁴⁷ 1992	NR
Suarez, ⁴¹ 1995	NR
Madias, ³⁴ 1996	NR
Sakata, ³⁸ 1997	Age-Gender-Peak Creatine Kinase levels-Left Ventricular Ejection Fraction-Hypertension-Diabetes Mellitus-Hypercholesterolemia-Hx MI-Smoking
Galcera Thomas, ⁴⁵ 1999	NR
Mahon, ³⁵ 2000*#	Age-Gender-ST depression-ST elevation-T wave inversion-Left Bundle Branch Block-Q wave-Smoking-Hypertension-Diabetes Mellitus-Family Hx-Previous MI-Thrombolysis-Coronary Care Unit-Left Ventricular Failure-Cardiogenic Shock
Janion, ⁴⁶ 2001	NR
Cicek, ²⁶ 2003	NR
Asanin, ¹³ 2005*#	Age-Gender-Hx Hypertension-Hx Diabetes Mellitus-Previous MI-Hx Angina Pectoris-Thrombolysis-Peak Creatine Phosphokinase level-Beta Blocker therapy-Heart Failure during hospitalization
Rastenyte, ³⁷ 2005	NR
Trappolini, ¹⁵ 2006*#	Age-Gender-Ischemic Events-Coronary Risk Factors-Killip class-Thrombolytic therapy-Pericarditis
Siu, ⁴⁰ 2007	NR
Li, ¹⁴ 2008	Age-Killip class III/IV-Failure of revascularization
Sankaranarayanan, ³⁹ 2008	NR
Koracevic, ³¹ 2008	NR
Torres, ⁴³ 2008*#	Age-Gender-Hx Diabetes Mellitus-Smoking-Hx Dyslipidemia-Hx Hypertension-Obesity-Hx Angina-Hx MI-Prior Percutaneous Transluminal Coronary Angioplasty or Coronary Artery Bypass Graft-Heart Failure-Coronary angiography-Reperfusion therapy-Severe Left Ventricular Dysfunction
Cui, ⁴⁴ 2008	NR
Berton, ⁵ 2009*	Age-Diabetes Mellitus-Peak Creatine Kinase-Killip class > 1-Estimate Glomerular Filtration Rate-Thrombolysis-Left Ventricular Ejection Fraction

AF, Atrial Fibrillation; MI, Myocardial Infarction; Hx, History; NR, Not Reporting multivariate analysis

* Studies adjusting for Age, Diabetes, Heart Failure and Coronary Revascularization

Studies adjusting for Age, Diabetes, Hypertension, Prior MI, Heart Failure and Coronary Revascularization