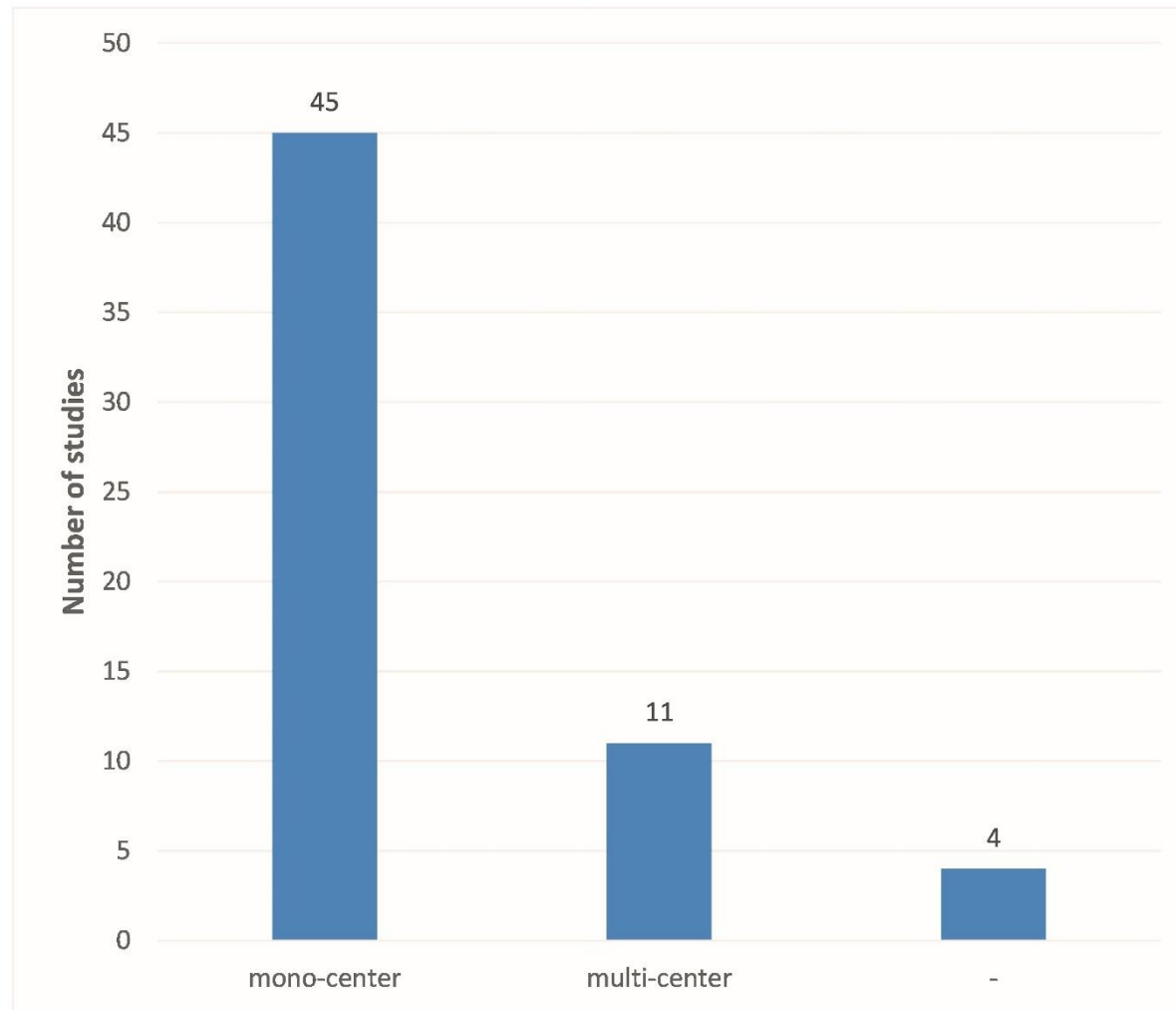
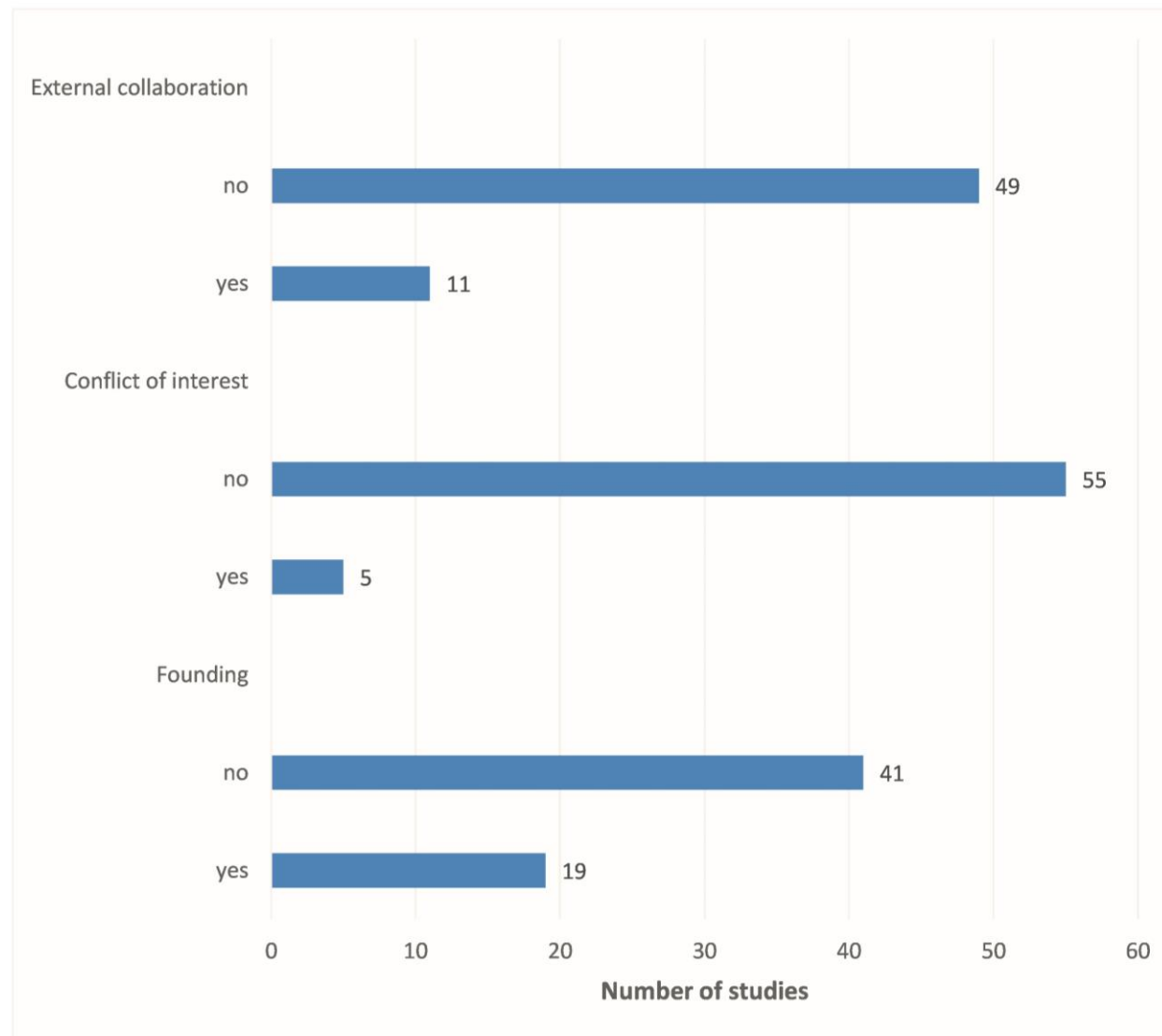


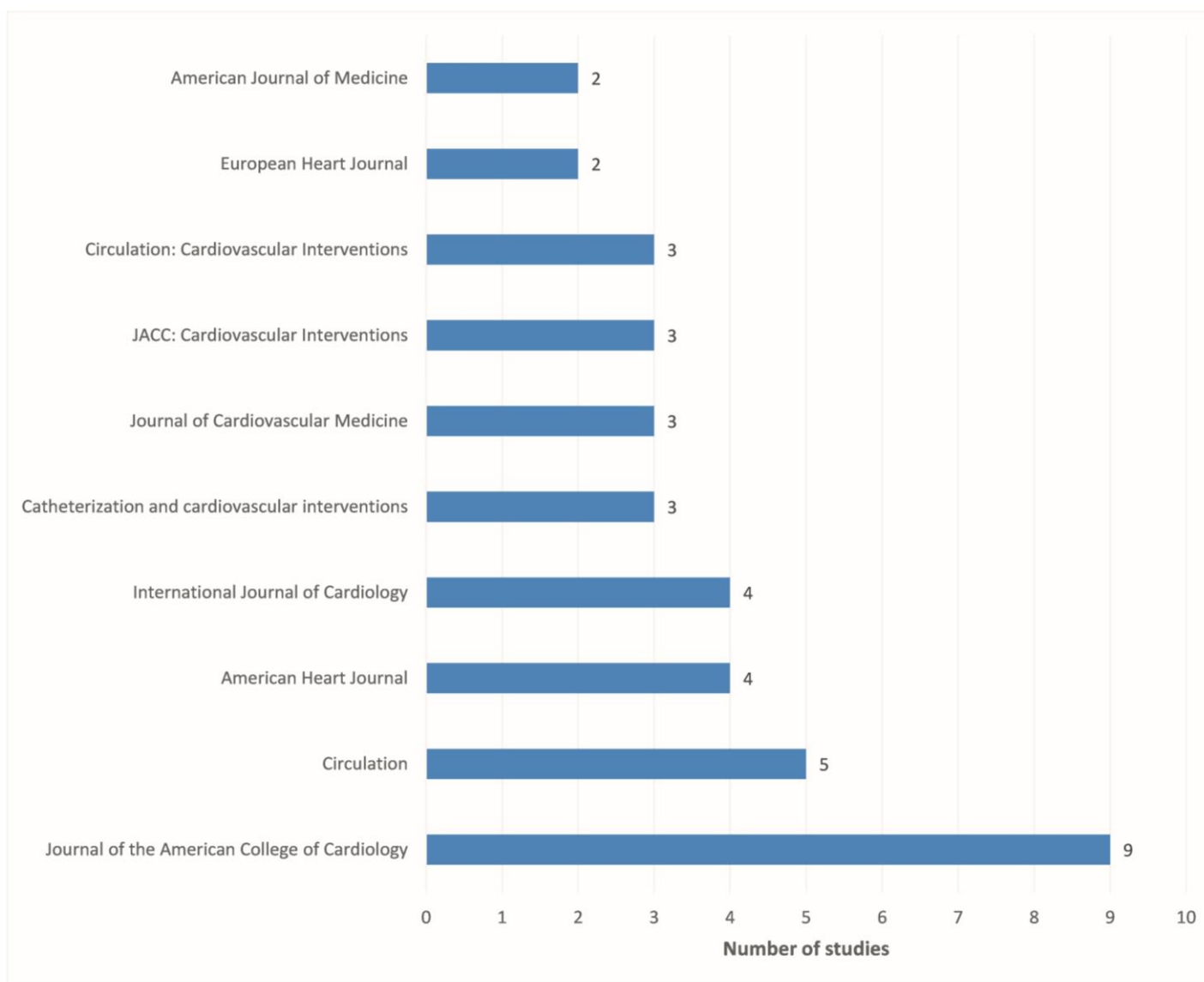
S1 Figure. Top five subject areas of the journals of publication found among the studies included.



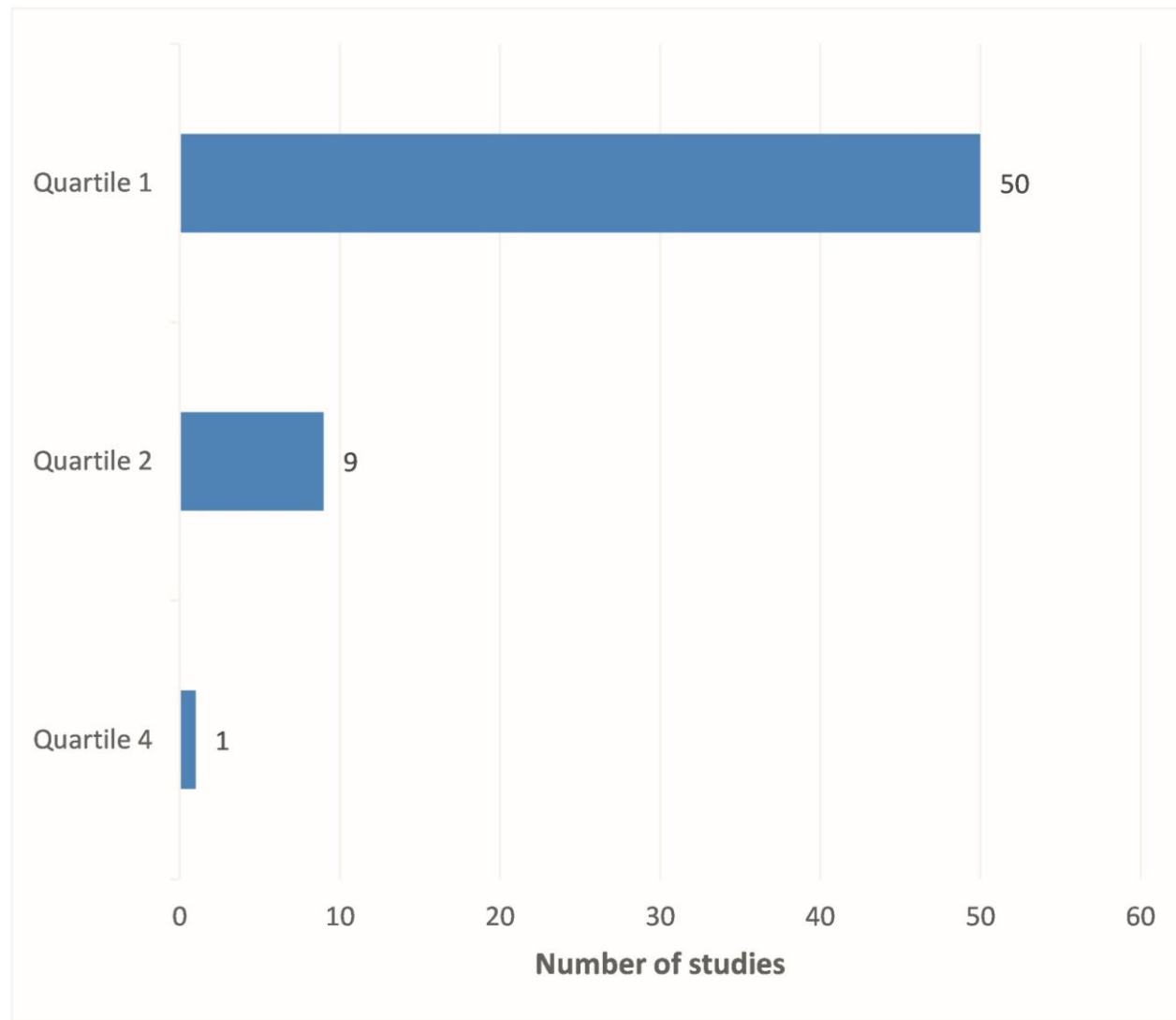
S2 Figure. Distribution by mono-multicenter design of studies included. The symbol “-” was used to denote meta-analysis.



S3 Figure. Distribution by the presence of external collaboration, conflict of interest and funding of studies included.



S4 Figure. Top ten journals found among studies included.



S5 Figure. Distribution by ranking of the subject area of the journal of publication of studies included. The symbol “-” was used for a journal not indexed in SciMago.

S1 Table. The research strategy developed for Ovid MEDLINE and adapted for the other databases.

Search	Query	Items found
Final research block	((((("1990/01/01"[Date - Publication] : "2017/01/18"[Date - Publication])) AND ((italy OR italian))) AND (((Toxicities, Drug OR Drug Toxicities OR Toxicity, Drug OR Drug Toxicity OR Reactions, Adverse Drug OR Drug Reactions, Adverse OR Drug Reaction, Adverse OR Adverse Drug Reactions OR Adverse Drug Reaction OR Side Effects, Drug OR Side Effects, Drug OR Effects, Drug Side OR Drug Side Effect OR Drug Side Effects OR Side Effects of Drugs OR Drug Events, Adverse OR Drug Event, Adverse OR Adverse Drug Events OR Drug Related Side Effects and Adverse Reactions OR Adverse Drug Event OR drug safety OR toxicity)) OR (((((((hypersensitivity) OR allergy) OR nephotoxicity) OR allergic) OR atopy) OR "hypersensitivity"[MeSH Major Topic]) OR "renal insufficiency"[MeSH Major Topic])) OR (Electrocardiogram abnormal OR Electrocardiogram ST segment elevation OR Thirst OR Malaise OR Fatigue OR Coldness local OR Injection site reaction** OR Renal failure OR Arthralgia OR Sweating increased OR Cold sweat OR Angioedema OR Salivary gland enlargement OR Dysphagia OR Salivary hypersecretion OR Abdominal pain OR Diarrhoea OR Dysphonia OR Rhinitis OR Laryngeal discomfort OR Pharynx discomfort OR Hyperventilation OR Cough OR Asthma OR Bronchospasm OR Pharyngeal oedema OR Laryngeal oedema OR Pulmonary oedema OR Acute respiratory distress syndrome (ARDS) OR Respiratory arrest OR Pallor OR Flushing OR Hot flush OR Circulatory collapse or shock OR Cyanosis OR Palpitations OR Atrioventricular block OR Ventricular or atrial fibrillation OR Arrhythmia OR Angina pectoris OR Cardiac failure OR Myocardial infarction OR Cardiac arrest OR Photopsia OR Lacrimation increased OR Conjunctivitis OR Visual disturbance OR Blindness transient OR Taste abnormality OR Somnolence OR Amnesia OR Paraesthesia OR Dysarthria OR Loss of consciousness OR Convulsion OR Syncope OR Paralysis OR Transient ischaemic attack OR Coma OR Confusional state OR Anxiety OR Anaphylactoid reaction))) AND ((MS-325 OR Gd-DOTA OR Gd-BT-D03A OR Gd-EOB-DTPA OR Gd-DTPA-BMEA OR Gd-DTPA-BMA OR Gd-BOPTA OR Gd-HP-D03A OR Gd-DTPA Linear Ionic OR iopamidol OR iohexol OR iothalamate OR diatrizoate OR barium sulfate OR ferrous-ferric oxide ferumoxsil OR iohexol OR iohexol OR iohexol OR iodipamide OR diatrizoate OR iopamidol OR ioxilan OR iohexol OR ioversol OR iodixanol OR ioversol OR ioxaglate meglumine OR iopromide OR ioxilan OR ioversol OR iohexol OR iopamidol OR iothalamate OR iodixanol OR iopamidol OR iopromide OR ioversol OR iohexol OR iothalamate OR iopamidol OR iohexol OR iopromide OR Iohexol OR iothalamate OR contrast media OR iodate OR iodinate OR gadolinium))	984

Block 4	Search ("1990/01/01"[Date - Publication] : "2017/01/18"[Date - Publication])	17922109
Block 3	Search (Italy OR Italian)	896641
Block 2	((((Toxicities, Drug OR Drug Toxicities OR Toxicity, Drug OR Drug Toxicity OR Reactions, Adverse Drug OR Drug Reactions, Adverse OR Drug Reaction, Adverse OR Adverse Drug Reactions OR Adverse Drug Reaction OR Side Effects, Drug OR Side Effects, Drug OR Effects, Drug Side OR Drug Side Effect OR Drug Side Effects OR Side Effects of Drugs OR Drug Events, Adverse OR Drug Event, Adverse OR Adverse Drug Events OR Drug Related Side Effects and Adverse Reactions OR Adverse Drug Event OR drug safety OR toxicity)) OR ((((((hypersensitivity) OR allergy) OR nephrotoxicity) OR allergic) OR atopy) OR "hypersensitivity"[MeSH Major Topic]) OR "renal insufficiency"[MeSH Major Topic])) OR (Electrocardiogram abnormal OR Electrocardiogram ST segment elevation OR Thirst OR Malaise OR Fatigue OR Coldness local OR Injection site reaction** OR Renal failure OR Arthralgia OR Sweating increased OR Cold sweat OR Angioedema OR Salivary gland enlargement OR Dysphagia OR Salivary hypersecretion OR Abdominal pain OR Diarrhoea OR Dysphonia OR Rhinitis OR Laryngeal discomfort OR Pharynx discomfort OR Hyperventilation OR Cough OR Asthma OR Bronchospasm OR Pharyngeal oedema OR Laryngeal oedema OR Pulmonary oedema OR Acute respiratory distress syndrome (ARDS) OR Respiratory arrest OR Pallor OR Flushing OR Hot flush OR Circulatory collapse or shock OR Cyanosis OR Palpitations OR Atrioventricular block OR Ventricular or atrial fibrillation OR Arrhythmia OR Angina pectoris OR Cardiac failure OR Myocardial infarction OR Cardiac arrest OR Photopsia OR Lacrimation increased OR Conjunctivitis OR Visual disturbance OR Blindness transient OR Taste abnormality OR Somnolence OR Amnesia OR Paraesthesia OR Dysarthria OR Loss of consciousness OR Convulsion OR Syncope OR Paralysis OR Transient ischaemic attack OR Coma OR Confusional state OR Anxiety OR Anaphylactoid reaction)	3098793
Block 1	(MS-325 OR Gd-DOTA OR Gd-BT-D03A OR Gd-EOB-DTPA OR Gd-DTPA-BMEA OR Gd-DTPA-BMA OR Gd-BOPTA OR Gd-HP-D03A OR Gd-DTPA Linear Ionic OR iopamidol OR iohexol OR iothalamate OR diatrizoate OR barium sulfate OR ferrous-ferric oxide ferumoxsil OR iohexol OR iohexol OR iohexol OR iodipamide OR diatrizoate OR iopamidol OR ioxilan OR iohexol OR ioversol OR iodixanol OR ioversol OR ioxaglate meglumine OR iopromide OR ioxilan OR ioversol OR iohexol OR iopamidol OR iothalamate OR iodixanol OR iopamidol OR iopromide OR ioversol OR iohexol OR iothalamate OR iopamidol OR iohexol OR iopromide OR Iohexol OR iothalamate OR contrast media OR iodate OR iodinate OR gadolinium)	143949

S2 Table. PRISMA checklist.



PRISMA 2009 Checklist

Section/topic	#	Checklist item	Reported on page #
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	3
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	3
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	NA
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	4
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	4
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	4 + S1 Table
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	5
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	5
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	5
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	NA
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	5
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I^2) for each meta-analysis.	5



PRISMA 2009 Checklist

Section/topic	#	Checklist item	Reported on page #
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	NA
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	NA
RESULTS			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	5
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	S1 app.
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	NA
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	S1 app.
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	6-23
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	NA
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	NA
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	24
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	24
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	26
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	NA

From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed1000097

For more information, visit: www.prisma-statement.org.

S1 Appendix. Meta-analyses, observational studies, and clinical trials assessing contrast-induced nephropathy as clinical outcome for which were involved Italian researchers among those published in the scientific literature from January 1990 to January 2017.

Valente 2006⁶⁷

ID:	1
Year of publication:	2006
Italian Region/s involved:	Toscana
The title of the manuscript:	Contrast-induced nephropathy in urgent coronary interventions
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of Cardiovascular Medicine
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	134

Ranucci 2008⁵⁵

ID:	2
Year of publication:	2008
Italian Region/s involved:	Lombardia, Campania
The title of the manuscript:	Influence of the timing of cardiac catheterization and the amount of contrast media on acute renal failure after cardiac surgery
Study design:	Cohort study
Mono-/Multi-center:	Multi-center
The level of evidence:	III-2
Funding:	Yes
Conflict of interest:	No
External collaboration:	Yes
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Marenzi 2004⁶²

ID:	3
Year of publication:	2004
Italian Region/s involved:	Lombardia
The title of the manuscript:	Contrast-induced nephropathy in patients undergoing primary angioplasty for acute myocardial infarction
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Marenzi 2010⁵⁶

ID:	4
Year of publication:	2010
Italian Region/s involved:	Lombardia
The title of the manuscript:	Acute hyperglycemia and contrast-induced nephropathy in primary percutaneous coronary intervention
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	American Heart Journal
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	19

Marenzi 2009⁵³

ID:	5
Year of publication:	2009
Italian Region/s involved:	Lombardia
The title of the manuscript:	Contrast volume during primary percutaneous coronary intervention and subsequent contrast-induced nephropathy and mortality
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	Annals of Internal Medicine
Topic:	Internal Medicine
Ranking:	4

ID:	6
Year of publication:	2012
Italian Region/s involved:	Toscana
The title of the manuscript:	Persistent renal damage after contrast-induced acute kidney injury: incidence, evolution, risk factors, and prognosis
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	2

Maioli 2010⁷⁶

ID:	7
Year of publication:	2010
Italian Region/s involved:	Toscana
The title of the manuscript:	Preprocedural score for risk of contrast-induced nephropathy in elective coronary angiography and intervention
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of Cardiovascular Medicine
Topic:	Medicine (miscellaneous)
Ranking:	831

Lucreziotti 2014⁵⁹

ID:	8
Year of publication:	2014
Italian Region/s involved:	Lombardia
The title of the manuscript:	Female gender and contrast-induced nephropathy in primary percutaneous intervention for ST-segment elevation myocardial infarction
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	International Journal of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	81

La Manna 2010⁴¹

ID:	9
Year of publication:	2010
Italian Region/s involved:	Emilia Romagna
The title of the manuscript:	Risk for contrast nephropathy in patients undergoing coronarography
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	Artificial Organs
Topic:	Medicine (miscellaneous)
Ranking:	132

Russo 1995⁶⁵

ID:	10
Year of publication:	1995
Italian Region/s involved:	Campania
The title of the manuscript:	Early effects of contrast media on renal hemodynamics and tubular function in chronic renal failure
Study design:	Cohort study
Mono-/Multi-center:	Multi-center
The level of evidence:	III-2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of Americal Society of Nephrology
Topic:	Medicine (miscellaneous)
Ranking:	34

Quintavalle 2012²²

ID:	11
Year of publication:	2012
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Impact of a high loading dose of atorvastatin on contrast-induced acute kidney injury
Study design:	Post-hoc Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	2

Tropeano 2015²⁵

ID:	12
Year of publication:	2015
Italian Region/s involved:	Toscana
The title of the manuscript:	Impact of rosuvastatin in contrast-induced acute kidney injury in the elderly: post hoc analysis of the prato-acis trial
Study design:	Post-hoc Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of Cardiovascular Pharmacology and Therapeutics
Topic:	Cardiology and Cardiovascular Medicine Pharmacology (medical)
Ranking:	79

Toso 2010²⁶

ID:	13
Year of publication:	2010
Italian Region/s involved:	Toscana
The title of the manuscript:	Usefulness of atorvastatin (80 mg) in prevention of contrast-induced nephropathy in patients with chronic renal disease
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

ID:	14
Year of publication:	2014
Italian Region/s involved:	Toscana, Lombardia
The title of the manuscript:	Relationship between inflammation and benefits of early high-dose rosuvastatin on contrast-induced nephropathy in patients with acute coronary syndrome
Study design:	Post-hoc Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	JACC: Cardiovascular Interventions
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	5

Marenzi 2015²⁹

ID:	15
Year of publication:	2015
Italian Region/s involved:	Lombardia
The title of the manuscript:	A meta-analysis of randomized controlled trials of statins for the prevention of contrast-induced acute kidney injury in patients with and without acute coronary syndromes
Study design:	Meta-analysis
Mono-/Multi-center:	-
The level of evidence:	I
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	International Journal of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	81

Quintavalle 2015⁷²

ID:	16
Year of publication:	2015
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Neutrophil gelatinase-associated lipocalin and contrast-induced acute kidney injury
Study design:	Post-hoc Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation: Cardiovascular Interventions
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	8

Ribichini 2010⁷⁷

ID:	17
Year of publication:	2010
Italian Region/s involved:	Veneto, Lazio, Piemonte
The title of the manuscript:	Early creatinine shifts predict contrast-induced nephropathy and persistent renal damage after angiography
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	Yes
Journal:	American Journal of Medicine
Topic:	Medicine (miscellaneous)
Ranking:	115

Guagliumi 2014⁷⁰

ID:	18
Year of publication:	2014
Italian Region/s involved:	Lombardia
The title of the manuscript:	Contrast-induced acute kidney injury after primary percutaneous coronary intervention: results from the HORIZONS-AMI substudy
Study design:	Post-hoc Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	Yes
Conflict of interest:	Yes
External collaboration:	Yes
Journal:	European Heart Journal
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	3

Preda 2011⁶⁶

ID:	19
Year of publication:	2011
Italian Region/s involved:	Lombardia
The title of the manuscript:	Effect on renal function of an iso-osmolar contrast agent in patients with monoclonal gammopathies
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	European Radiology
Topic:	Radiology, Nuclear Medicine, and Imaging
Ranking:	17

Marenzi 2003⁵⁰

ID:	20
Year of publication:	2003
Italian Region/s involved:	Lombardia
The title of the manuscript:	Continuous veno-venous hemofiltration for the treatment of contrast-induced acute renal failure after percutaneous coronary interventions
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Catheterization and cardiovascular interventions
Topic:	Cardiology and Cardiovascular Medicine Radiology, Nuclear Medicine and Imaging
Ranking:	63

Marenzi 2012⁴²

ID:	21
Year of publication:	2012
Italian Region/s involved:	Lombardia
The title of the manuscript:	Prevention of contrast nephropathy by furosemide with matched hydration
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	JACC: Cardiovascular Interventions
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	5

Maioli 2011⁴⁰

ID:	22
Year of publication:	2011
Italian Region/s involved:	Toscana
The title of the manuscript:	Effects of hydration in contrast-induced acute kidney injury after primary angioplasty
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation: Cardiovascular Interventions
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	8

Limbruno 2014⁷⁵

ID:	23
Year of publication:	2014
Italian Region/s involved:	Abruzzo
The title of the manuscript:	Refining the assessment of contrast-induced acute kidney injury: the load-to-damage relationship
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	Yes
External collaboration:	No
Journal:	Journal of Cardiovascular Medicine
Topic:	Medicine (miscellaneous)
Ranking:	831

Leoncini 2014²³

ID:	24
Year of publication:	2014
Italian Region/s involved:	Toscana, Lombardia
The title of the manuscript:	Early high-dose rosuvastatin for contrast-induced nephropathy prevention in acute coronary syndrome: Results from the PRATO-ACS Study (Protective Effect of Rosuvastatin and Antiplatelet Therapy On contrast-induced acute kidney injury and myocardial damage
Study design:	Post-hoc Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	American Heart Journal
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	19

La Manna 2008⁴⁴

ID:	25
Year of publication:	2008
Italian Region/s involved:	Emilia Romagna
The title of the manuscript:	Post-coronarography application of continuous veno-venous hemofiltration in the prevention of contrast nephropathy in patients with complex multisystem deficiency
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	In Vivo
Topic:	Medicine (miscellaneous)
Ranking:	752

ID:	26
Year of publication:	2014
Italian Region/s involved:	Lombardia
The title of the manuscript:	Continuous venovenous hemofiltration after coronary procedures for the prevention of contrast-induced acute kidney injury in patients with severe chronic renal failure
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Marenzi 2003⁴⁶

ID:	27
Year of publication:	2003
Italian Region/s involved:	Lombardia
The title of the manuscript:	The prevention of radiocontrast-agent-induced nephropathy by hemofiltration
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	The New England Journal of Medicine
Topic:	Medicine (miscellaneous)
Ranking:	4

Marraccini 2010⁶³

ID:	28
Year of publication:	2010
Italian Region/s involved:	Toscana
The title of the manuscript:	Contrast medium nephrotoxicity after renal artery and coronary angioplasty
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Acta Radiologica
Topic:	Radiology, Nuclear Medicine, and Imaging
Ranking:	83

Briguori 2011⁴⁹

ID:	29
Year of publication:	2011
Italian Region/s involved:	Campania, Lombardia, Emilia Romagna
The title of the manuscript:	Renal Insufficiency After Contrast Media Administration Trial II (REMEDIAL II): RenalGuard System in high-risk patients for contrast-induced acute kidney injury
Study design:	Post-hoc Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	2

Briguori 2010⁷³

ID:	30
Year of publication:	2010
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Cystatin C and contrast-induced acute kidney injury
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	2

ID:	31
Year of publication:	2016
Italian Region/s involved:	Lombardia
The title of the manuscript:	A comparison between two different definitions of contrast-induced acute kidney injury in patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	International Journal of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	81

Donahue 2015⁶⁰

ID:	32
Year of publication:	2015
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Acute kidney injury in patients with chronic kidney disease undergoing internal carotid artery stent implantation
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	JACC: Cardiovascular Interventions
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	5

Bianchi 2013⁵²

ID:	33
Year of publication:	2013
Italian Region/s involved:	Lombardia
The title of the manuscript:	Cardiac catheterization and postoperative acute kidney failure in congenital heart pediatric patients
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	Anesthesia and Analgesia
Topic:	Anesthesiology and Pain Medicine
Ranking:	11

ID:	34
Year of publication:	2014
Italian Region/s involved:	Sicilia
The title of the manuscript:	Renal function-adjusted contrast volume redefines the baseline estimation of contrast-induced acute kidney injury risk in patients undergoing primary percutaneous coronary intervention
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation: Cardiovascular Interventions
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	8

Bolognese 2012⁷⁸

ID:	35
Year of publication:	2012
Italian Region/s involved:	Toscana
The title of the manuscript:	Impact of iso-osmolar versus low-osmolar contrast agents on contrast-induced nephropathy and tissue reperfusion in unselected patients with ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	Yes
External collaboration:	Yes
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Andò 2015⁵¹

ID:	36
Year of publication:	2015
Italian Region/s involved:	Sicilia, Piemonte, Lombardia, Emilia Romagna, Lombardia, Liguria
The title of the manuscript:	Acute kidney injury after percutaneous coronary intervention
Study design:	Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	Yes
Conflict of interest:	Yes
External collaboration:	Yes
Journal:	Catheterization and cardiovascular interventions
Topic:	Cardiology and Cardiovascular Medicine Radiology, Nuclear Medicine and Imaging
Ranking:	63

Barbieri 2015⁵⁷

ID:	37
Year of publication:	2015
Italian Region/s involved:	Piemonte, Campania
The title of the manuscript:	Elevated homocysteine and the risk of contrast-induced nephropathy: a cohort study
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	Yes
Journal:	Angiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	143

Budano 2011⁶⁹

ID:	38
Year of publication:	2011
Italian Region/s involved:	Piemonte, Lombardia
The title of the manuscript:	Impact of contrast-induced acute kidney injury definition on clinical outcomes
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	American Heart Journal
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	19

ID:	39
Year of publication:	2015
Italian Region/s involved:	Lombardia, Emilia Romagna
The title of the manuscript:	Incidence, prognostic impact, and optimal definition of contrast-induced acute kidney injury in consecutive patients with stable or unstable coronary artery disease undergoing percutaneous coronary intervention insights from the all-comer PRODIGY trial
Study design:	Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	Yes
Journal:	Catheterization and cardiovascular interventions
Topic:	Cardiology and Cardiovascular Medicine Radiology, Nuclear Medicine and Imaging
Ranking:	63

Alessandri 2013³³

ID:	40
Year of publication:	2013
Italian Region/s involved:	Lazio
The title of the manuscript:	Prevention of acute renal failure post-contrast imaging in cardiology: a randomized study
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	European Review for Medical and Pharmacological Sciences
Topic:	Medicine (miscellaneous)
Ranking:	121

Briguori 2004³⁵

ID:	41
Year of publication:	2004
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Standard vs double dose of N-acetylcysteine to prevent contrast agent-associated nephrotoxicity
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	European Heart Journal
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	3

Briguori 2005³⁸

ID:	42
Year of publication:	2005
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Nephrotoxicity of low-osmolality versus iso-osmolality contrast agents: impact of N-acetylcysteine
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Kidney International
Topic:	Nephrology
Ranking:	17

Briguori 2007³⁷

ID:	43
Year of publication:	2007
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Renal insufficiency following contrast media administration trial (REMEDIAL)
Study design:	Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Circulation
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	2

Briguori 2002³¹

ID:	44
Year of publication:	2002
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	Acetylcysteine and contrast agent-associated nephrotoxicity
Study design:	Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Briguori 2015⁴³

ID:	45
Year of publication:	2015
Italian Region/s involved:	Campania
The title of the manuscript:	RenalGuard system in high-risk patients for contrast-induced acute kidney injury
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	American Heart Journal
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	19

Calabrò 2011³⁰

ID:	46
Year of publication:	2011
Italian Region/s involved:	Campania
The title of the manuscript:	Use and efficacy of saline hydration and N-acetyl cysteine to prevent contrast-induced nephropathy in low-risk populations undergoing coronary artery angiography
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Internal and emergency medicine
Topic:	Emergency Medicine
Ranking:	11

Carraro 1998⁷⁹

ID:	47
Year of publication:	1998
Italian Region/s involved:	Friuli-Venezia Giulia
The title of the manuscript:	Effects of a dimeric vs a monomeric nonionic contrast medium on renal function in patients with mild to moderate renal insufficiency: a double-blind, randomized clinical trial
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	Yes
Journal:	European Radiology
Topic:	Radiology, Nuclear Medicine, and Imaging
Ranking:	17

Briguori 2004³⁶

ID:	48
Year of publication:	2004
Italian Region/s involved:	Campania, Lombardia
The title of the manuscript:	N-Acetylcysteine versus fenoldopam mesylate to prevent contrast agent-associated nephrotoxicity
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Patti 2011²¹

ID:	49
Year of publication:	2011
Italian Region/s involved:	Lazio, Puglia
The title of the manuscript:	Short-term, high-dose Atorvastatin pretreatment to prevent contrast-induced nephropathy in patients with acute coronary syndromes undergoing percutaneous coronary intervention (from the ARMYDA-CIN [atorvastatin for reduction of myocardial damage during angioplasty--contrast-induced nephropathy] trial
Study design:	Randomized clinical trial
Mono-/Multi-center:	Multi-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Marenzi 2006³⁴

ID:	50
Year of publication:	2006
Italian Region/s involved:	Lombardia
The title of the manuscript:	N-acetylcysteine and contrast-induced nephropathy in primary angioplasty
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	Yes
Conflict of interest:	No
External collaboration:	No
Journal:	The New England Journal of Medicine
Topic:	Medicine (miscellaneous)
Ranking:	4

Marenzi 2006⁴⁸

ID:	51
Year of publication:	2006
Italian Region/s involved:	Lombardia
The title of the manuscript:	Comparison of two hemofiltration protocols for prevention of contrast-induced nephropathy in high-risk patients
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	American Journal of Medicine
Topic:	Medicine (miscellaneous)
Ranking:	115

Biondi-Zoccai 2014⁸⁰

ID:	52
Year of publication:	2014
Italian Region/s involved:	Lazio, Piemonte, Campania
The title of the manuscript:	Nephropathy after administration of iso-osmolar and low-osmolar contrast media: evidence from a network meta-analysis
Study design:	Meta-analysis
Mono-/Multi-center:	-
The level of evidence:	I
Funding:	No
Conflict of interest:	No
External collaboration:	Yes
Journal:	International Journal of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	81

Barbieri 2014²⁸

ID:	53
Year of publication:	2014
Italian Region/s involved:	Piemonte
The title of the manuscript:	The role of statins in the prevention of contrast-induced nephropathy: a meta-analysis of 8 randomized trials
Study design:	Meta-analysis
Mono-/Multi-center:	-
The level of evidence:	I
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of Thrombosis and Thrombolysis
Topic:	Cardiology and Cardiovascular Medicine Hematology
Ranking:	112

Giacoppo 2014²⁷

ID:	54
Year of publication:	2014
Italian Region/s involved:	Calabria
The title of the manuscript:	Meta-analysis of randomized controlled trials of preprocedural statin administration for reducing contrast-induced acute kidney injury in patients undergoing coronary catheterization
Study design:	Meta-analysis
Mono-/Multi-center:	-
The level of evidence:	I
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of the American College of Cardiology
Topic:	Cardiology and Cardiovascular Medicine
Ranking:	1

Lombardi 2015⁸³

ID:	55
Year of publication:	2015
Italian Region/s involved:	Toscana
The title of the manuscript:	2015 update on acute adverse reactions to gadolinium-based contrast agents in cardiovascular mr. large multi-national and multi-ethnic population experience with 37788 patients from the eurocmr registry
Study design:	Cohort study
Mono-/Multi-center:	Multi-center
The level of evidence:	III - 2
Funding:	Yes
Conflict of interest:	Yes
External collaboration:	Yes
Journal:	Journal of Cardiovascular Magnetic Resonance
Topic:	Radiological and Ultrasound Technology
Ranking:	1

Vallero 2002³²

ID:	56
Year of publication:	2002
Italian Region/s involved:	Piemonte
The title of the manuscript:	Contrast nephropathy in cardiac procedures: no advantages with prophylactic use of N-acetylcysteine (NAC)
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III - 2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Giornale Italiano di Nefrologia
Topic:	Nephrology
Ranking:	51

ID:	57
Year of publication:	1990
Italian Region/s involved:	Campania
The title of the manuscript:	Randomized prospective study on renal effects of two different contrast media in humans: protective role of a calcium channel blocker
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Nephron
Topic:	Nephrology
Ranking:	26

ID:	58
Year of publication:	2001
Italian Region/s involved:	Lombardia
The title of the manuscript:	Pharmacokinetics and safety of iomeprol in healthy volunteers and in patients with renal impairment or end-stage renal disease requiring hemodialysis
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Investigative Radiology
Topic:	Radiology, Nuclear Medicine, and Imaging
Ranking:	7

Simonetti 1994⁸¹

ID:	59
Year of publication:	1994
Italian Region/s involved:	Lazio, Sardegna
The title of the manuscript:	A double-blind comparative study of the safety and efficacy of iomeprol in renal intra-arterial digital subtraction angiography
Study design:	Randomized clinical trial
Mono-/Multi-center:	Mono-center
The level of evidence:	II
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	European Journal of Radiology
Topic:	Radiology, Nuclear Medicine, and Imaging
Ranking:	44

Morabito 2012⁵⁸

ID:	60
Year of publication:	2012
Italian Region/s involved:	Lazio
The title of the manuscript:	Incidence of contrast-induced acute kidney injury associated with diagnostic or interventional coronary angiography
Study design:	Cohort study
Mono-/Multi-center:	Mono-center
The level of evidence:	III-2
Funding:	No
Conflict of interest:	No
External collaboration:	No
Journal:	Journal of Nephrology
Topic:	Nephrology
Ranking:	23

S2 Appendix. List of reviews included in the systematic review.

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