

Table SI. Search strategy and PubMed results.

Search number	Query	Search terms	Results (n)
1	(Acute kidney injury) AND (radial)	((‘acute kidney injury’[MeSH Terms] OR ((‘acute’[All Fields] AND ‘kidney’[All Fields]) AND ‘injury’[All Fields])) OR ‘acute kidney injury’[All Fields]) AND ((‘radial’[All Fields] OR ‘radially’[All Fields]) OR ‘radials’[All Fields])	60
2	(Acute kidney injury) AND (transradial)	((‘acute kidney injury’[MeSH Terms] OR ((‘acute’[All Fields] AND ‘kidney’[All Fields]) AND ‘injury’[All Fields])) OR ‘acute kidney injury’[All Fields]) AND ((‘transradial’[All Fields] OR ‘transradially’[All Fields]))	22
3	(Acute kidney injury) AND (femoral)	((‘acute kidney injury’[MeSH Terms] OR ((‘acute’[All Fields] AND ‘kidney’[All Fields]) AND ‘injury’[All Fields])) OR ‘acute kidney injury’[All Fields]) AND (((‘femor’[All Fields] OR ‘femorals’[All Fields]) OR ‘femur’[MeSH Terms]) OR ‘femur’[All Fields]) OR ‘femoral’[All Fields])	414
4	(Acute kidney injury) AND (transfemoral)	((‘acute kidney injury’[MeSH Terms] OR ((‘acute’[All Fields] AND ‘kidney’[All Fields]) AND ‘injury’[All Fields])) OR ‘acute kidney injury’[All Fields]) AND ((‘transfemoral’[All Fields] OR ‘transfemorally’[All Fields]))	124
5	(Acute kidney injury) AND (Percutaneous coronary intervention)	((‘acute kidney injury’[MeSH Terms] OR ((‘acute’[All Fields] AND ‘kidney’[All Fields]) AND ‘injury’[All Fields])) OR ‘acute kidney injury’[All Fields]) AND ((‘percutaneous coronary intervention’[MeSH Terms] OR ((‘percutaneous’[All Fields] AND ‘coronary’[All Fields]) AND ‘intervention’[All Fields]))) OR ‘percutaneous coronary intervention’[All Fields])	705
6	(Acute kidney injury) AND (coronary angiography)	((‘acute kidney injury’[MeSH Terms] OR ((‘acute’[All Fields] AND ‘kidney’[All Fields]) AND ‘injury’[All Fields])) OR ‘acute kidney injury’[All Fields]) AND ((‘coronary angiography’[MeSH Terms] OR ((‘coronary’[All Fields] AND ‘angiography’[All Fields]))) OR ‘coronary angiography’[All Fields]))	721
7	(Acute kidney injury) AND (cardiac catheterization)	((‘acute kidney injury’[MeSH Terms] OR ((‘acute’[All Fields] AND ‘kidney’[All Fields]) AND ‘injury’[All Fields])) OR ‘acute kidney injury’[All Fields]) AND (((‘cardiac catheterisation’[All Fields] OR ‘cardiac catheterization’[MeSH Terms]) OR ((‘cardiac’[All Fields] AND ‘catheterization’[All Fields]))) OR ‘cardiac catheterization’[All Fields]))	499
8	(Contrast-induced nephropathy) AND (Percutaneous coronary intervention)	((‘Contrast-induced’[All Fields] AND (((‘kidney diseases’[MeSH Terms] OR ((‘kidney’[All Fields] AND ‘diseases’[All Fields]))) OR ‘kidney diseases’[All Fields]) OR ‘nephropathies’[All Fields])) OR ‘nephropathy’[All Fields])) AND ((‘percutaneous coronary intervention’[MeSH Terms] OR ((‘percutaneous’[All Fields] AND ‘coronary’[All Fields]) AND ‘intervention’[All Fields]))) OR ‘percutaneous coronary intervention’[All Fields])	788
9	(Contrast-induced nephropathy) AND (cardiac catheterization)	((‘Contrast-induced’[All Fields] AND (((‘kidney diseases’[MeSH Terms] OR ((‘kidney’[All Fields] AND ‘diseases’[All Fields]))) OR ‘kidney diseases’[All Fields]) OR ‘nephropathies’[All Fields])) OR ‘nephropathy’[All Fields])) AND (((‘cardiac catheterisation’[All Fields] OR ((‘cardiac’[All Fields] AND ‘catheterization’[All Fields]))) OR ‘cardiac catheterization’[All Fields]))	247
10	(Contrast-induced nephropathy) AND (coronary angiography)	((‘Contrast-induced’[All Fields] AND (((‘kidney diseases’[MeSH Terms] OR ((‘kidney’[All Fields] AND ‘diseases’[All Fields]))) OR ‘kidney diseases’[All Fields]) OR ‘nephropathies’[All Fields]) OR ‘nephropathy’[All Fields])) AND ((‘coronary angiography’[MeSH Terms] OR ((‘coronary’[All Fields] AND ‘angiography’[All Fields]))) OR ‘coronary angiography’[All Fields]))	804
11	(Contrast-induced nephropathy) AND (radial)	((‘Contrast-induced’[All Fields] AND (((‘kidney diseases’[MeSH Terms] OR ((‘kidney’[All Fields] AND ‘diseases’[All Fields]))) OR ‘kidney diseases’[All Fields]) OR ‘nephropathies’[All Fields]) OR ‘nephropathy’[All Fields])) AND ((‘radial’[All Fields] OR ‘radially’[All Fields]) OR ‘radials’[All Fields]))	15

Table SI. Continued.

Search number	Query	Search terms	Results (n)
12	(Contrast-induced nephropathy) AND (femoral)	(‘Contrast-induced’[All Fields] AND (((‘kidney diseases’[MeSH Terms] OR (‘kidney’[All Fields] AND ‘diseases’[All Fields])) OR ‘kidney diseases’[All Fields]) OR ‘nephropathies’[All Fields]) OR ‘nephropathy’[All Fields])) AND (((‘femor’[All Fields] OR ‘femorals’[All Fields]) OR ‘femur’[MeSH Terms]) OR ‘femur’ [All Fields]) OR ‘femoral’[All Fields])	38

Table SII. Risk of bias assessment of included studies.

A, Randomized controlled trials

Study	Random sequence generation	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data	Selective reporting	Other biases	(Refs.)
Andò <i>et al</i>	Low risk	Unclear risk	Unclear risk	Low risk	Low risk	Low risk	Low risk	(10)
Samy <i>et al</i>	Unclear risk	Unclear risk	Unclear risk	Unclear risk	Low risk	Low risk	Unclear risk	(8)

B, Retrospective studies

Study	Selection of participants	Confounding variables	Intervention measurements	Blinding of outcome assessment	Incomplete outcome data	Selective outcome reporting	(Refs.)
Azzalini <i>et al</i>	Low risk	High risk	Low risk	High risk	Low risk	Low risk	(26)
Cortese <i>et al</i>	Low risk	Low risk	Low risk	High risk	High risk	Low risk	(27)
Damluji <i>et al</i>	Low risk	Unclear risk	Low risk	High risk	Low risk	Low risk	(28)
Kooiman <i>et al</i>	Low risk	Low risk	Low risk	High risk	Low risk	Low risk	(25)
Kolte <i>et al</i>	Low risk	Low risk	Low risk	High risk	Low risk	Low risk	(29)
Feldkamp <i>et al</i>	Low risk	High risk	Low risk	High risk	High risk	Low risk	(23)
Gili <i>et al</i>	Low risk	Low risk	Low risk	High risk	Low risk	Low risk	(9)
Pancholy <i>et al</i>	Low risk	High risk	Low risk	High risk	Low risk	Low risk	(21)
Steinvil <i>et al</i>	Low risk	Low risk	Low risk	Low risk	Low risk	Low risk	(22)
Barbieri <i>et al</i>	Low risk	High risk	Low risk	High risk	High risk	Low risk	(24)
Kanic <i>et al</i>	Low risk	Low risk	Low risk	High risk	Low risk	Low risk	(12)
Khalil <i>et al</i>	Low risk	High risk	Low risk	High risk	Low risk	High risk	(11)