

Supplementary material

Supplementary material Appendix 1: Search strategy of the electronic databases

CENTRAL search strategy

- #1 [mh "Percutaneous Coronary Intervention"]
- #2 (PCI OR "percutaneous coronary intervention"):ti,ab
- #3 "percutaneous coronary revascularization":ti,ab
- #4 (balloon NEAR/3 angioplasty):ti,ab
- #5 atherectomy:ti,ab 362 件 #6 [mh "Coronary Angiography"]
- #7 "coronary angiography":ti,ab
- #8 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7
- #9 (distal radial NEAR/3 procedure):ti,ab
- #10 (distal transradial NEAR/3 procedure):ti,ab
- #11 (distal radial NEAR/3 access):ti,ab
- #12 (distal transradial NEAR/3 access):ti,ab
- #13 (distal radial NEAR/3 approach):ti,ab
- #14 (distal transradial NEAR/3 approach):ti,ab
- #15 #9 OR #10 OR #11 OR #12 OR #13 OR #14
- #16 (snuffbox or snuff-box):ti,ab
- #17 plamar:ti,ab
- #18 #15 OR #16
- #19 #8 AND #18

MEDLINE (via PubMed) search strategy

- 1 exp Percutaneous Coronary Intervention/
- 2 (PCI or "percutaneous coronary intervention*").tw.
- 3 "percutaneous coronary revascularization*".tw.
- 4 (balloon adj3 angioplast*).tw.
- 5 atherectom*.tw.
- 6 exp Coronary Angiography/
- 7 coronary angiography.tw.

8 or/1-7

9 (distal radial adj3 procedure\$.tw. or (distal transradial adj3 procedure\$.tw. or (distal radial adj3 access\$.tw. or (distal transradial adj3 access\$.tw. or (distal radial adj3 approach\$.tw. or (distal transradial adj3 approach\$.tw.

10 (snuffbox or snuff-box).tw.

11 plamar.tw

12 or/9-11

13 8 and 12

EMBASE (via ProQuest Dialog) search strategy

S1 EMB.EXACT.EXPLODE("percutaneous coronary intervention"

S2 ab(PCI) OR ti(PCI) OR ab("percutaneous coronary intervention") OR ti("percutaneous coronary intervention")

S3 ab("percutaneous coronary revascularization") OR ti("percutaneous coronary revascularization")

S4 ab(balloon AND angioplasty) OR ti(balloon AND angioplasty)

S5 ab(atherectomy) OR ti(atherectomy)

S6 EMB.EXACT.EXPLODE("coronary angiography")

S7 ab(coronary angiography) OR ti(coronary angiography)

S8 S1 OR S2 OR S3 OR S4 OR S5 OR S6 OR S7

S9 (ab("distal radial" AND (procedure OR access OR approach) OR ti("distal radial" AND (procedure OR access OR approach)) OR ab("distal transradial" AND (procedure OR access OR approach)) OR ti("distal transradial" AND (procedure OR access OR approach)))

S10 ab(snuffbox OR snuff-box) OR ti(snuffbox OR snuff-box)

S11 ab(plamar) OR ti(plamar)

S12 S9 OR S10 OR S11

S13 S8 AND S12

Supplementary material Appendix 2: Search strategy of the clinical trial registries

ICTRP search strategy

Condition; "Coronary angiography" OR " Percutaneous coronary intervention" OR "PCI"

Intervention; "distal radial" OR "distal transradial" OR "snuffbox" OR "Palmar"

ClinicalTrials.gov search strategy

“distal radial” OR “distal transradial” OR “snuffbox” OR "Palmar"

Supplementary Table 1 Quality scores for incidence rate of radial artery spasm

Authors	Risk of bias 2 tool assessment					
[ref no.]	Bias arising from randomization process	Bias due to deviations from intended interventions	Bias due to missing outcome data	Bias in measurement of the outcome	Bias in selection of the reported results	Overall risk of bias
Koutouzis [25]	Low	Low	Low	Low	Some concerns	Some concerns
Vefalı [16]	Some concerns	Low	Low	Low	Some concerns	Some concerns

Supplementary Table 2 Quality scores for incidence rate of radial artery occlusion

Authors	Risk of bias 2 tool assessment					
[ref no.]	Bias arising from randomization process	Bias due to deviations from intended interventions	Bias due to missing outcome data	Bias in measurement of the outcome	Bias in selection of the reported results	Overall risk of bias
Mokbel [26]	Some concerns	Low	Low	Low	Some concerns	Some concerns
Koutouzis [25]	Low	Low	Low	Low	Some concerns	Some concerns

Supplementary Table 3 Quality scores for mean puncture numbers

Authors	Risk of bias 2 tool assessment					
[ref no.]	Bias arising from randomization process	Bias due to deviations from intended interventions	Bias due to missing outcome data	Bias in measurement of the outcome	Bias in selection of the reported results	Overall risk of bias
Koutouzis [25]	Low	Low	Low	Some concerns	Some concerns	Some concerns

Supplementary Table 4 Quality scores for mean time for hemostasis

Authors	Risk of bias 2 tool assessment					
[ref no.]	Bias arising from randomization process	Bias due to deviations from intended interventions	Bias due to missing outcome data	Bias in measurement of the outcome	Bias in selection of the reported results	Overall risk of bias
Mokbel [26]	Some concerns	Low	Low	High	Some concerns	High
Vefalı [16]	Some concerns	Low	Low	High	Some concerns	High