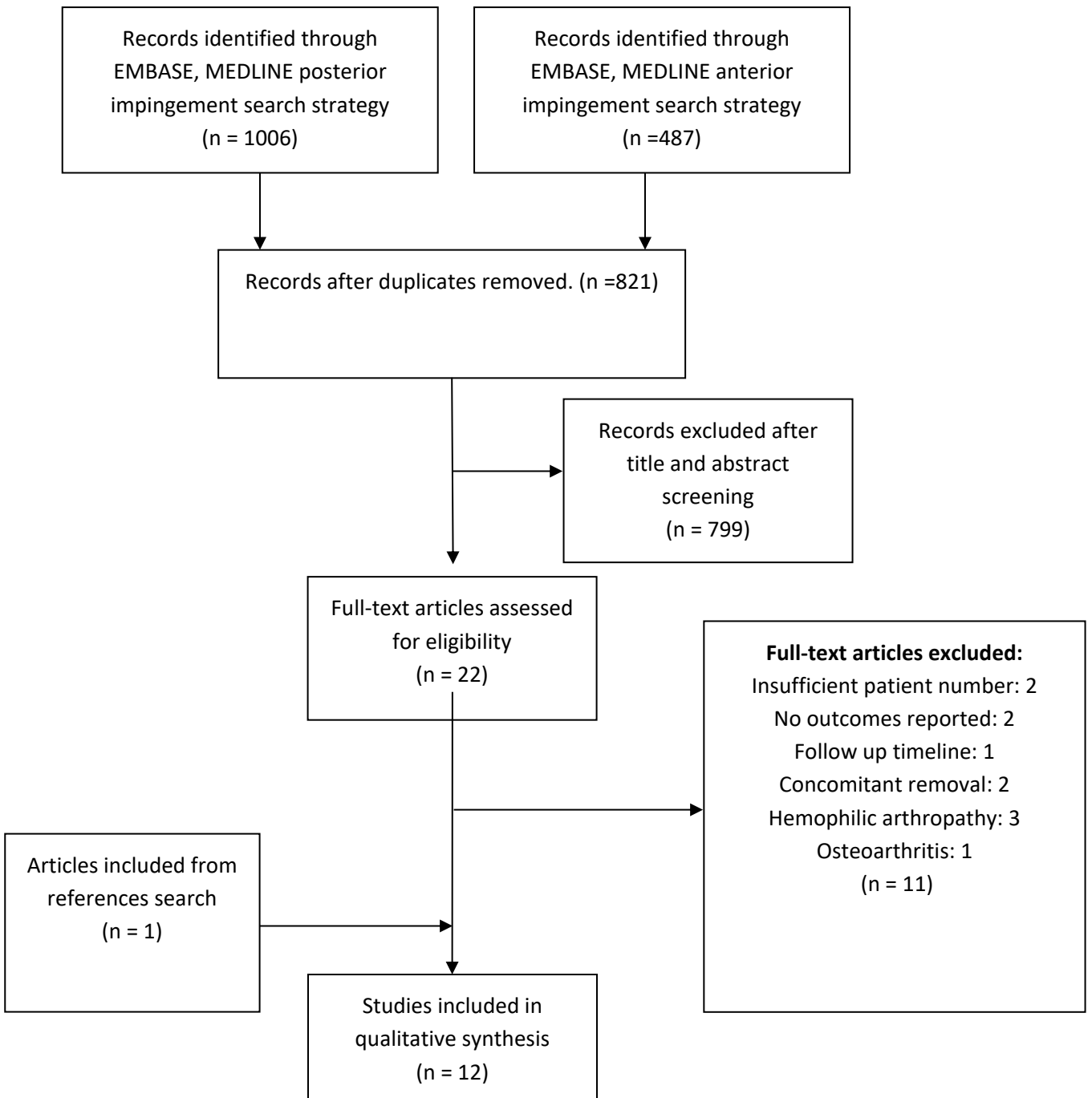


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Appendix Figure 1. Study selection flowchart and search strategies



Anterior Impingement Search Strategy, adopted from Zwiers et al (2015)

((ankle AND impingement) OR (ankle AND impingement AND syndrome) OR ((talar OR talus) AND compres*) OR (ankle AND osteophy*) OR ((talar OR talus OR tibiotalar) AND osteophy*) OR ((talar OR talus) AND impingement)) AND ((arthrosc*) OR (surgery OR procedures) OR (treatment))

Filters: Publication date from 2014/09/14 to 2019/10/07

Posterior Impingement Search Strategy, adopted from Zwiers et al (2013)

((ankle AND impingement) OR (ankle AND impingement AND syndrome) OR (os trigonum AND impingement) OR (os trigonum AND symptomatic) OR (Stieda AND process) OR ((talar or talus) AND compres*) OR (ankle ND osteophy*) OR ((talar OR talus) AND osteophy*) OR ((talar OR talus) AND impingement)) AND ((arthrosc*) OR (surgery OR procedures) OR (treatment))

Filters: Publication date from 2012/03/12 to 2019/10/07

Inclusion criteria:

At least 20 patients receiving arthroscopic resection of anterior or posterior impingement. Study reports follow-up for at least one validated patient reported-outcome measure. Full text available in English language. Adult population.

Exclusion criteria:

Systematic reviews, meta-analyses, expert opinions. Combined open and arthroscopic approaches. Mean follow up less than 1 year. Concomitant removal of anterior and posterior impingement. Greater than or equal to moderate osteoarthritis. Involved total ankle arthroplasty. Hemophilic arthropathy.