

Table S1 Search strategies for all databases.

Database	Search strategies
Cochrane library	(Arthritis, Psoriatic or plaque psoriasis or psoriatic arthritis or Psoriasis, Arthritic or Arthritic Psoriasis or Psoriasis Arthropathica or Psoriatic Arthropathy or Arthropathies, Psoriatic or Arthropathy, Psoriatic or Psoriatic Arthropathies):ab,kw,ti (tofacitinib or tofacitinib citrate or tasocitinib or Xeljanz or CP 690,550 or CP690550 or CP-690550 or CP 690550 or CP-690,550):ab,kw,ti #1 and #2
Medline	((tofacitinib[Title/Abstract] OR tofacitinib citrate[Title/Abstract] OR tasocitinib[Title/Abstract] OR Xeljanz[Title/Abstract] OR CP 690,550[Title/Abstract] OR CP690550[Title/Abstract] OR CP-690550[Title/Abstract] OR CP 690550[Title/Abstract] OR CP-690,550[Title/Abstract]) AND (Arthritis, Psoriatic[Title/Abstract] OR plaque psoriasis[Title/Abstract] OR psoriatic arthritis[Title/Abstract] OR Psoriasis, Arthritic[Title/Abstract] OR Arthritic Psoriasis[Title/Abstract] OR Psoriasis Arthropathica[Title/Abstract] OR Psoriatic Arthropathy[Title/Abstract] OR Arthropathies, Psoriatic[Title/Abstract] OR Arthropathy, Psoriatic[Title/Abstract] OR Psoriatic Arthropathies[Title/Abstract])) AND (randomized controlled trial[Publication Type] OR Controlled Clinical Trial[Publication Type] OR randomized[Title/Abstract] OR controlled[Title/Abstract] OR trial[Title/Abstract] OR random[Title/Abstract] OR placebo[Title/Abstract] OR groups[Title/Abstract]) psoriatic arthritis/exp
EMBASE	Arthritis, Psoriatic':ab,kw,ti OR 'plaque psoriasis':ab,kw,ti OR 'Psoriasis, Arthritic':ab,kw,ti OR 'Arthritic Psoriasis':ab,kw,ti OR 'Psoriasis Arthropathica':ab,kw,ti OR 'Psoriatic Arthropathy':ab,kw,ti OR 'Arthropathies, Psoriatic':ab,kw,ti OR 'Arthropathy, Psoriatic':ab,kw,ti OR 'Psoriatic Arthropathies':ab,kw,ti tofacitinib:ab,kw,ti OR 'tofacitinib citrate':ab,kw,ti OR tasocitinib:ab,kw,ti OR Xeljanz:ab,kw,ti OR 'CP 690,550':ab,kw,ti OR CP690550:ab,kw,ti OR CP-690550:ab,kw,ti OR 'CP 690550':ab,kw,ti OR CP-690,550:ab,kw,ti
Wiley Online library	randomized controlled trial':ab,kw,ti OR 'Controlled Clinical Trial':ab,kw,ti OR randomized:ab,kw,ti OR controlled:ab,kw,ti OR trial:ab,kw,ti OR random:ab,kw,ti OR placebo:ab,kw,ti OR groups:ab,kw,ti #1 OR #2 #3 AND #4 AND #5 (tofacitinib OR "tofacitinib citrate" OR tasocitinib OR Xeljanz OR "CP 690,550" OR CP690550 OR CP-690550 OR "CP 690550" OR CP-690,550) AND ("randomized controlled trial" OR "Controlled Clinical Trial" OR randomized OR controlled OR trial OR random OR placebo OR groups) AND ("Arthritis, Psoriatic" OR "plaque psoriasis" OR "psoriatic arthritis" OR "Psoriasis, Arthritic" OR "Arthritic Psoriasis" OR "Psoriasis Arthropathica" OR "Psoriatic Arthropathy" OR "Arthropathies, Psoriatic" OR "Arthropathy, Psoriatic" OR "Psoriatic Arthropathies")

Web of Science
BIOSIS Previews

TS=(tofacitinib OR tofacitinib citrate OR tasocitinib OR Xeljanz OR CP 690,550 OR CP690550 OR CP-690550 OR CP 690550 OR CP-690,550) AND TS=(Arthritis, Psoriatic OR plaque psoriasis OR psoriatic arthritis OR Psoriasis, Arthritic OR Arthritic Psoriasis OR Psoriasis Arthropathica OR Psoriatic Arthropathy OR Arthropathies, Psoriatic OR Arthropathy, Psoriatic OR Psoriatic Arthropathies) AND TS=(randomized controlled trial OR Controlled Clinical Trial OR randomized OR controlled OR trial OR random OR placebo OR groups) (tofacitinib or tofacitinib citrate or tasocitinib or Xeljanz or CP 690,550 or CP690550 or CP-690550 or CP 690550 or CP-690,550).ab,ti. Psoriasis Arthropathica or Psoriatic Arthropathy or Arthropathies, Psoriatic or Arthropathy, Psoriatic or placebo or groups).ab,ti.

1 and 2
3 and 4
