

**Title;** Comparative Efficacy of Proximal Femoral Nail vs. Dynamic Condylar Screw in Treating Unstable Intertrochanteric Fractures: A Meta-Analysis

**Question?**

Is Proximal Femoral Nail superior to Dynamic Condylar Screw

Export references to a citation manager (End note)

**The PICO framework**

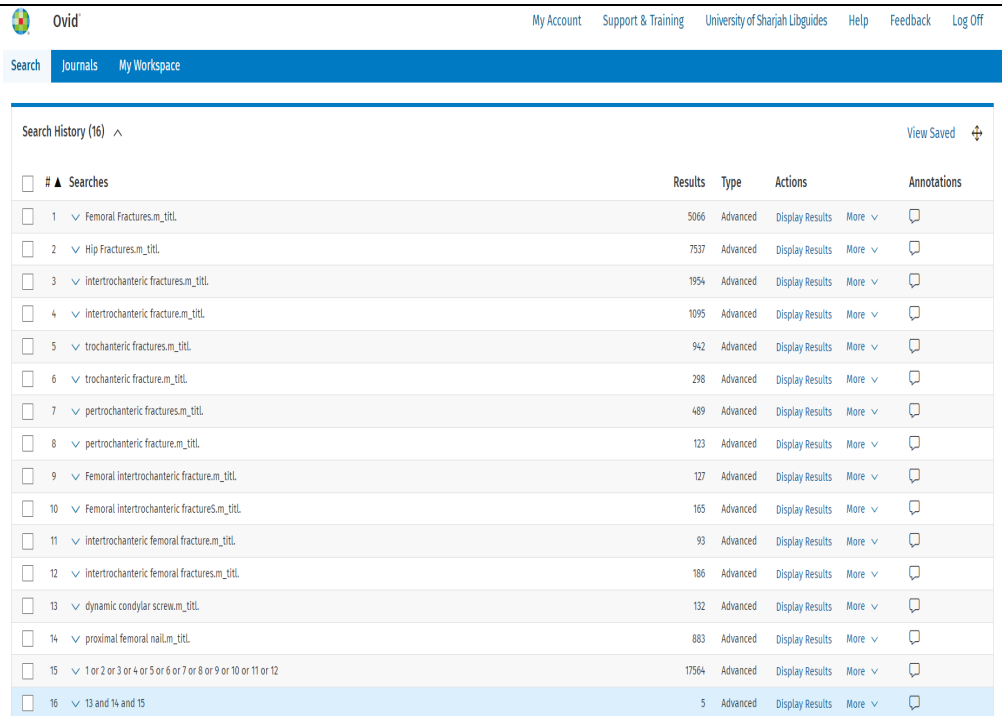
- Population (P) - Patients was diagnose as unstable intertrochanteric fracture
- Intervention (I) - Fixation with a Proximal Femoral Nail (PFN) as an intervention group
- Comparison (C) - Fixation with Dynamic Condylar Screw (DCS) as a comparison group
- Outcomes (O) - operation time, reduction type, blood transfusion, hospital stay duration, fracture consolidation times, implant related complications, re-operation rates and infection rates.

Search date: 01/04/2024

Search strategy:

(Proximal Femoral Nail) or (Dynamic condylar Screw) and ((trochantric) or (intertrochantric) or (intertrochantric))

Data base	Search term	Result
PubMed	((((("Femoral Fractures"[Mesh]) OR ("Hip Fractures"[Mesh])) OR (((((((((((intertrochanteric fractures) OR (intertrochanteric fracture)) OR (trochanteric fractures)) OR (trochanteric fracture)) OR (perthrochanteric fractures)) OR (perthrochanteric fracture)) OR (Femoral intertrochanteric fracture)) OR (Femoral intertrochanteric fractures)) OR (intertrochanteric femoral fracture)) OR (intertrochanteric femoral fractures)) OR (IFFs)) OR (IFF))) AND (((dynamic condylar screw) OR (DCS)) OR ("Bone Screws"[Mesh]))) AND (proximal femoral nail) OR (PFN)	<b>1015</b>
Scopus	(((Femoral Fractures) OR (Hip Fractures)) OR (((((((((((intertrochanteric fractures) OR (intertrochanteric fracture)) OR (trochanteric fractures)) OR (trochanteric fracture)) OR (perthrochanteric fractures)) OR (perthrochanteric fracture)) OR (Femoral intertrochanteric fracture)) OR (Femoral intertrochanteric fractures)) OR (intertrochanteric femoral fracture)) OR (intertrochanteric femoral fractures)) OR (IFFs)) OR (IFF))) AND (((dynamic condylar screw) OR	<b>905</b>

	(DCS)) OR (Bone Screws))) AND (proximal femoral nail) OR (PFN)	
Web of science	(((Femoral Fractures) OR (Hip Fractures)) OR (((((((((((intertrochanteric fractures) OR (intertrochanteric fracture)) OR (trochanteric fractures)) OR (trochanteric fracture)) OR (petrochanteric fractures)) OR (petrochanteric fracture)) OR (Femoral intertrochanteric fracture)) OR (Femoral intertrochanteric fractures)) OR (intertrochanteric femoral fracture)) OR (intertrochanteric femoral fractures)) OR (IFFs)) OR (IFF))) AND (((dynamic condylar screw) OR (DCS)) OR (Bone Screws))) AND (proximal femoral nail) OR (PFN)	195
OVID	 <p>The screenshot shows the Ovid search history interface. At the top, there are navigation links: 'My Account', 'Support &amp; Training', 'University of Sharjah Libguides', 'Help', 'Feedback', and 'Log Off'. Below the navigation bar, there are tabs for 'Search', 'Journals', and 'My Workspace'. The main content area is titled 'Search History (16)' and includes a 'View Saved' link with a plus icon. A table lists 16 search entries with columns for '# Searches', 'Results', 'Type', 'Actions', and 'Annotations'. The entries are numbered 1 through 16, with search terms like 'Femoral Fractures.m_titl.', 'Hip Fractures.m_titl.', 'intertrochanteric fractures.m_titl.', 'trochanteric fractures.m_titl.', 'petrochanteric fractures.m_titl.', 'Femoral intertrochanteric fracture.m_titl.', 'dynamic condylar screw.m_titl.', and 'proximal femoral nail.m_titl.'. The final entry (16) is highlighted in blue and shows 5 results.</p>	5
Cochrane Library		176
Google scholar	allintitle: dynamic condylar screw and proximal femoral nail	8

**Total: 2304**

**After duplicate removal: 1723**

After screening title and abstract = 7

After screening eligibility for inclusion: 6

### Final studies included:

- 1- Jamil MF, Mohd J, Abbas M, Siddiqui YS, Khan MJ. A comparative study of Proximal Femoral Nail (PFN) versus Dynamic Condylar Screw (DCS) in management of unstable trochanteric fractures. *Int J Burns Trauma* [Internet]. 2022;12(3):83–92. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/35891974><http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=PMC9301162>
- 2- Ghilzai AK, Idrees Z, Khan MA, Kazim M, Najjad R. Comparison of proximal femur nail and dynamic condylar screw in treating proximal femoral fractures. 2016;32(2):100–3.
- 3- Sadowski C, Lübbecke A, Saudan M, Riand N, Stern R, Hoffmeyer P. Treatment of reverse oblique and transverse intertrochanteric fractures with use of an intramedullary nail or a 95° screw-plate: A prospective, randomized study. *J Bone Jt Surg*. 2002;84(3):372–81.
- 4- Şensöz E, Ergun S, Kayaalp ME, Eceviz E. The Comparison of Dynamic Condylar Screw Plate to Proximal Femoral Nail in Reverse Oblique and Transverse Intertrochanteric Fractures: A Retrospective Study on 61 Patients. *Cureus*. 2023;15(3):8–13.
- 5- Şahin EK, İmerci A, Kınık H, Karapınar L, Canbek U, Savran A. Comparison of proximal femoral nail antirotation (PFNA) with AO dynamic condylar screws (DCS) for the treatment for unstable peritrochanteric femoral fractures. *Eur J Orthop Surg Traumatol*. 2014;24(3):347–52.
- 6- Elis J, Chechik O, Maman E, Steinberg EL. Expandable proximal femoral nails versus 95° dynamic condylar screw-plates for the treatment of reverse oblique intertrochanteric fractures. *Injury* [Internet]. 2012;43(8):1313–7. Available from: <http://dx.doi.org/10.1016/j.injury.2012.05.004>