

**Supplementary Table 2: Risk of bias assessment results**

Study	Year	selection	Comparability	Outcome	Total score
Sun <i>et al.</i> (1)	2018	☆☆☆	☆☆	☆☆☆	8
Zhou <i>et al.</i> (2)	2015	☆☆☆	☆	☆☆☆	7
Zhang <i>et al.</i> (3)	2017	☆☆☆	☆	☆☆	6
Zhang <i>et al.</i> (4)	2017	☆☆☆	☆☆	☆☆☆	8
Ma <i>et al.</i> (5)	2012	☆☆☆	☆☆	☆☆☆	8
Lu <i>et al.</i> (6)	2022	☆☆☆	☆☆	☆☆☆	8
Li <i>et al.</i> (7)	2017	☆☆☆	☆☆	☆☆	7
Li <i>et al.</i> (8)	2017	☆☆☆	☆	☆☆☆	7
Gou <i>et al.</i> (9)	2019	☆☆☆	☆☆	☆☆☆	8

## References

1. Sun R, Zhang Y, Yu Z. Clinical efficacy of augmented medial assisted plate for treating comminuted metaphyseal fracture of the distal femur. *International Journal of Clinical and Experimental Medicine*. 2018;11(4):3859-65.
2. Zhou LP, Zhao AM. Comparison of the efficacy of bilateral locking titanium plate and unilateral locking titanium plate for distal femoral fracture. *Journal of Clinical Orthopaedics*. 2015;18(03):331-4. (<https://doi.org/10.3969/j.issn.1008-0287.2015.03.027>)
3. Zhang L. A comparative study of unilateral and bilateral internal fixation with plates in patients with comminuted distal femur fractures. *Health Frontiers*. 2017;26(5):244-5. (<https://doi.org/10.3969/j.issn.9128-6509.2017.05.232>)
4. Zhang J, Qiu YM, Yin WZ, Ding JH, Shen YG, Cao SF. Comparative study of unilateral and bilateral plate in fixation of comminuted distal femoral fractures. *Orthopaedic Biomechanics Materials and Clinical Study*. 2017;14(01):56-60. (<https://doi.org/10.3969/j.issn.1672-5972.2017.01.015>)
5. Ma N, Xia J, Zhao HM, Yu T, Yu GR, Yuan F. A comparative study of two treatment methods for comminuted distal femoral fractures. *Chin J Bone Joint Injury*. 2012;27(12):1084-6.
6. Lu JH, Shi NW, Bai MS, Peng CJ, Zhang W, Wang BY. Study on the efficacy and safety of three different internal fixation methods in the treatment of comminuted fractures of distal femur. *J Trauma Surg*. 2022;24(10):770-6. (<https://doi.org/10.3969/j.issn.1009-4237.2022.10.010>)
7. Li ZJ. Comparison of medial and lateral locking titanium plates and unilateral locking titanium plates in the treatment of distal femur fractures. *Chinese and Foreign Medical Research*. 2017;15(03):25-6. (<https://doi.org/10.14033/j.cnki.cfmr.2017.3.012>)
8. Li BN, Zhou YJ, Ning RD. Comparison of the effects of lateral anatomic locking plate and bilateral plates in the treatment of C2, C3 comminuted distal femoral fractures. *J Clin Patho Res*. 2017;37(11):2421-7. (<https://doi.org/10.3978/j.issn.2095-6959.2017.11.022>)
9. Gou CG, Zhou S, Jia ZG, Xin J. Application of three internal fixation methods in patients with comminuted distal medial femur fractures. *J Clin Res*. 2019;36(7):1270-2,5. (<https://doi.org/10.3969/ji.ssn.1671-7171.2019.00.000>)