

## Comparison of SIGN Implants in Treatment of Closed Distal Femur Fractures in a Rural Hospital in Tanzania

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SIGNFracture Care International is a non-profit organisation that was established in 1999 by Dr Lewis Zirkle. It provides hospitals with intramedullary nails that are tailored for use in resource-limited settings. In treating distal femur fractures SIGN offers two options: the standard SIGN nail and the fin SIGN nail. The standard nail has a distal interlocking screw that can be placed without image intensifier. The fin nail is also inserted without image intensifier, but a fin replaces the distal interlocking screw.



Biography –James joined the Cavell Leitch property team in August 2019 after three and a half years of experience at a mid-sized law firm in Christchurch. James takes great pride in building strong relationships with his clients and in providing practical legal advice in order to help his clients achieve the best possible outcomes.

### 6. Publication of speakers:

1. To evaluate the effectiveness of standard SIGN nails and fin SIGN nails in distal femoral fractures. To establish any differences between the standard SIGN nail and the fin SIGN nail implants.
2. Comparison of SIGN Implants in Treatment of Closed Distal Femur Fractures in a Rural Hospital in Tanzania
3. Retrospective analysis of SIGN database at Nkoaranga Hospital, Tanzania between July 2017
4. Knee range of movement of greater than 30 degrees post-operatively was 64% (9/14) in standard nails and 50% (7/14) in fin nails
5. The standard nail provided greater knee ROM however fin nails achieved greater post-operative painless weight-bearing rates and lower screw-loosening rates.

7. [International Conference on Advance Surgical Skills and Anesthesia, October 12-13, 2020, Global-Surg-2020, Osaka, Japan](#)

8. Abstract Citation : [James Allen: Comparison of SIGN Implants in Treatment of Closed Distal Femur Fractures in a Rural Hospital in Tanzania, October 12-13, 2020, Global-Surg-2020, Osaka, Japan pp:1](#)