

Percutaneous Femoral Shortening over a Nail Using On-Site Smashing Osteotomy Technique

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Abstract

Introduction Closed femoral-shortening osteotomy over an intramedullary nail for the treatment of leg length discrepancy (LLD) and tall stature is a demanding surgical technique, classically requiring specialized instrumentation (intramedullary saw and chisel). Herein, we describe surgical technique and our experience with shortening osteotomy over a nail, using a percutaneous multiple drill-hole osteotomy technique to perform the bone section with the osteotomized bone smashed and let on-site. Pre and Post-operative clinical and radiological data are presented. Shortening was achieved, with a final LLD of < 1 cm in all patients. All patients were satisfied and considered the lengths of the lower limbs to be equal. Our technique did not require special surgical skill or specialized instrumentation. Moreover, we did not record intraoperative and post-operative complications. We concluded that percutaneous femoral-shortening osteotomy over a nail using the on-site smashing osteotomy technique was effective and safe in treating LLD in this initial case series.

Biography:

Rami Jahmani is an orthopaedic surgeon from Jordan University of Science and Technology, Jordan. He is a specialist in Bone lengthening and reconstruction, Dr Jahmani has completed fellowship from Paley Institute, USA and has more than 10 years' experience in this field. He has published many papers and book chapters, and developed many surgical techniques.

References:

1. Jahmani, Rami & Lovisetti, Giovanni & Alorjani, Mohammed & Bashaireh, Khaldoon. (2020). Percutaneous femoral shortening over a nail using on-site smashing osteotomy technique. *European Journal of Orthopaedic Surgery & Traumatology*. 30. 10.1007/s00590-019-02556-7.
2. Jahmani, Rami & Obeidat, Omar & Yusef, Dawood. (2021). Brucella Septic Hip Arthritis: A Case Report. *The American journal of case reports*. 22. e928592. 10.12659/AJCR.928592.
3. Bashaireh, Khaldoon & Alorjani, Mohammed & Jahmani, Rami & Khateeb, Abedallah & Nimri, Faisal & Al-Ebbini, Mohammad & Ababneh, Abdel. (2020). Primary Bone Tumors in North of Jordan. *Journal of Epidemiology and Global Health*. 11. 10.2991/jegh.k.201102.001.
4. Jahmani, Rami & Paley, Dror. (2020). Stump Overgrowth after Limb Amputation in Children. 10.5772/intechopen.90532.