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Nail plate and bed reconstruction for pincer nail deformity

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Pincer nail deformity is a severe condition in which the nail bed becomes compressed and the nail shows an over curvature. We retrospectively analysed 13 pincer nail deformities treated using our nail plate and bed reconstruction technique. Visual analogue scale scores, the width of nail root, width of nail tip, height of nail tip, width index, and height index were assessed before and after surgery. The over curvature was corrected after detachment of the nail plate. The nail fold was pushed underneath the nail plate and then fixed. The width of nail tip significantly increased after surgery ($p < 0.05$) and was maintained during follow-up. The height of nail tip decreased after surgery ($p < 0.05$). This nail plate and bed reconstruction technique is a simple and quick surgical method for correcting deformities and reduces risks of complications such as skin necrosis and infection compared to other existing surgical techniques. We recommend this efficient surgical technique for the treatment of pincer nails.

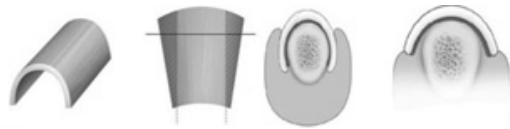


Fig. 1. Illustration of nail bending technique and nail bed fixation. (A) The nail plate is bent to detach periosteum at the point of the maximal curve. (B) The nail fold is placed and fixed underneath the lifted nail bed to act as a buttress [curved arrow: nail plate, white arrow: nail bed].

Biography

Hyun Hee Choi has her expertise in evaluation and passion in improving health. Her specialty and interesting subjects are coronary artery disease intervention and endovascular treatment of peripheral artery disease. She obtained a degree of Physics in Elwha Woman's University before being a doctor. She has tried to use her knowledge of physics to evaluation and improvement of medical department.

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