

The Correction of Severe Dupuytren's Contracture by Needle Fasciotomy

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Kurt L. aged 69

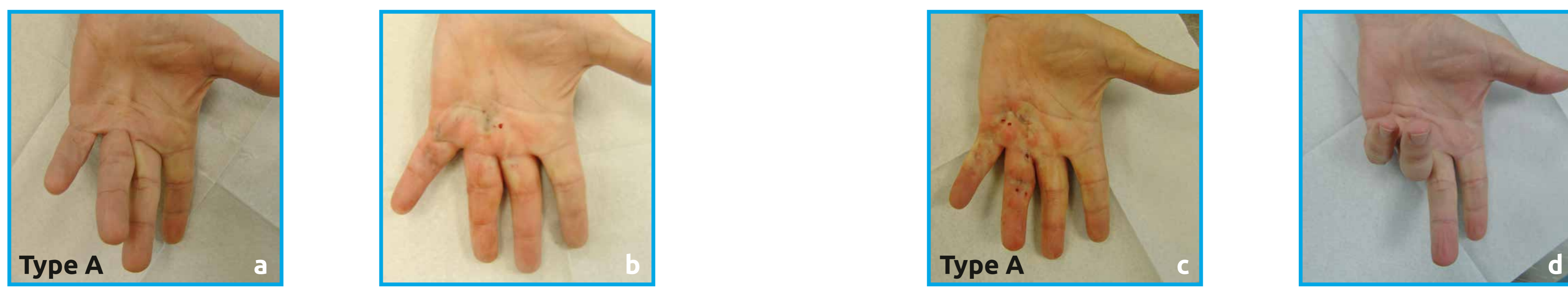


Fig. 1 PNF 2016 (a + b)

PNF 2017 (c + d)

Gisela E. aged 72

Heike W. aged 52

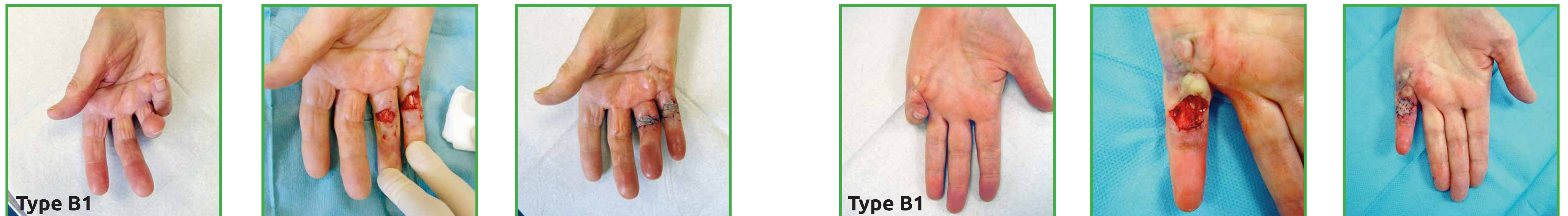


Fig. 2 Third recurrence following partial fasciectomy 1985, 1988 and 1990

Fig. 3 Second recurrence following partial fasciectomy 2007 and 2013

Wolfgang N. aged 66

Manfred L. aged 58

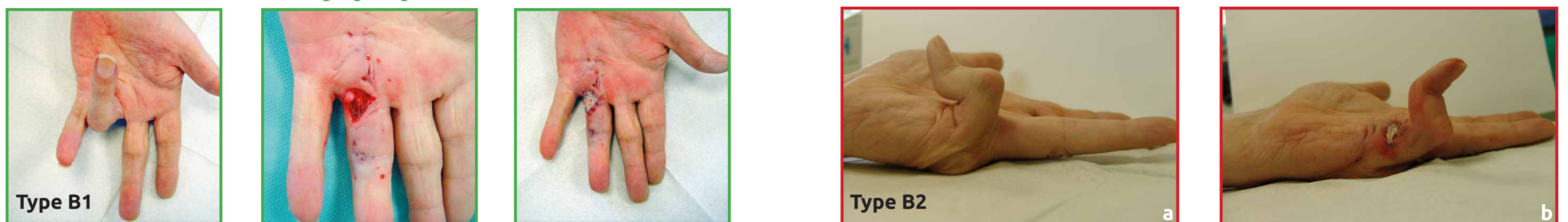


Fig. 4 Second recurrence following partial fasciectomy 2000 and 2001

Fig. 5 PNF+ 2017 (a + b)

Skin tearing is an integral part of the extended Percutaneous Needle Fasciotomy: PNF+ (1)

The interesting characteristic of these tears is that only the skin and the fibrous cords tear, not the neurovascular bundles (Fig. 2-6).

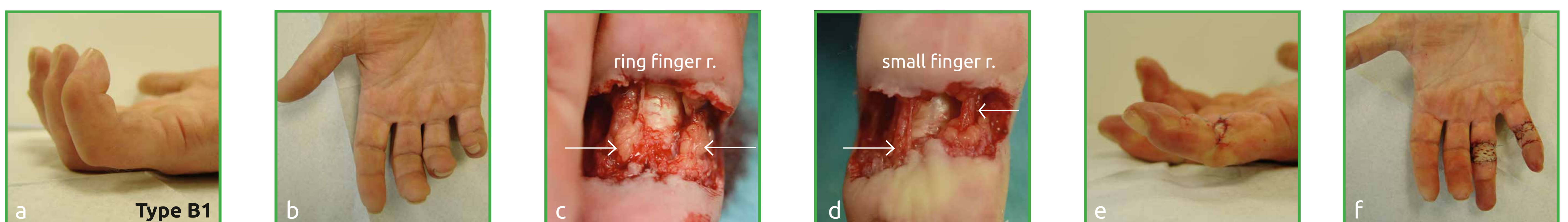


Fig. 6 54 year-old patient with Raynaud's syndrome. The neurovascular bundles (arrows) remain intact throughout the PNF+ (c,d).

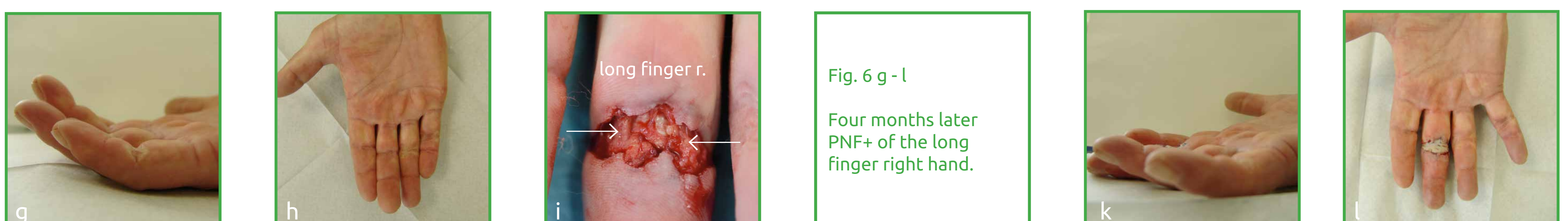


Fig. 6 g - l
Four months later
PNF+ of the long
finger right hand.

- Type A:**
- Clearly defined fibrous cords along the middle line of the finger ray, possibly accompanied by a contracture in the base joint (MP-joint).
- Type B1:**
- Contractures in the PIP-joint with fibrous cords along the sides.
 - Fibrous cords spread over a wide area of the palm.
 - Recurrences following partial fasciectomy.
- Type B2:**
- Contractures in the PIP-joint combined with secondary changes e.g. hyperextension in the end joint (DIP-joint).

Fig. 9 Experimental classification of Dupuytren's contractures according to their ease of surgical correction.

Type A is the non-complex contracture.

Type B1 and B2 are complex (severe)

Alongside the currently employed surgical therapy of Dupuytren's contracture, the conservative life-long passive stretching of contractures, accomplished using a comfortable dynamic splint (2), will establish itself as a recognised alternative treatment.

1. Lenze W. Die Technik der erweiterten perkutanen Nadelfasziotomie (PNF+) bei der Dupuytren'schen Kontraktur. Handchir Mikrochir Plast Chir 2017; 49: 47-50

2. Lenze W, Pattke J. Nadelfasziotomie und dynamische Schienung bei der Dupuytren'schen Kontraktur. 58. DGH-Kongress München: 2017, Poster P15