

# Treating phantom limb pain following amputation

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# **TREATING PHANTOM LIMB PAIN FOLLOWING AMPUTATION:**

The potential role of a traditional and teletreatment approach to mirror therapy

by Andreas Rothgangel  
June 25th 2019

1. Mirror therapy and the teletreatment should be tailored to the needs, preferences and characteristics of individual patients. (This dissertation)
2. Mirror therapy can reduce phantom limb pain but the individual necessary dose has not yet been established. (This dissertation)
3. Novel technology interventions need to be sufficiently mature and integrated in daily routines of professionals before effects should be evaluated. (This dissertation)
4. The effect evaluation of novel digital health applications requires the courage to explore alternatives to more traditional research designs. (This dissertation)
5. Successful implementation and upscaling of digital health applications in routine care should be initiated by small regional ecosystems. (Valorisation addendum)
6. Care professionals express an urgent need for clinical frameworks to guide the structured delivery of novel, complex interventions.
7. Future innovations in health care will be shaped by consumer-driven demands.
8. The future of health care will be characterized by personalized care solutions incorporating multi-stakeholder business models including health insurances, industry and the end-users.
9. Eine Bachelorarbeit kann die nächsten 20 Jahre deines Berufslebens beeinflussen.
10. Nearly every man who loses a limb carries about with him a constant or inconstant phantom of the missing member, a sensory ghost of that much of himself, and sometimes a most inconvenient presence, faintly felt at times, but ready to be called up to his perception by a blow, a touch, or a change of wind. (Silas Weir Mitchell, 1872)