HELEN LINDNER is originally from Hong Kong and currently resides in Sweden. In 2006, she received her Bachelor degree in Occupational Therapy at Örebro University. After graduation, she worked as occupational therapist at the ‘Limb Deficiency and Arm Prosthesis Centre’ at Örebro University Hospital, one of four major upper limb prosthetic clinics in Sweden. Helen became a doctoral student in 2008 and her research interest is ‘measuring outcomes in upper limb prosthetics’.

In the field of upper limb prosthetics, the current priority is to measure outcomes with validated prosthetic outcome measures. Thus, outcome measures with psychometric evidence toward prosthesis users are necessary. A major part of this thesis was to search and assess psychometric evidence of the Assessment of Capacity for Myoelectric Control (ACMC), a clinical tool that assesses the ability to control a myoelectric prosthetic hand. Overall, the evidence found in this thesis supports the use of ACMC to assess the ability to control a myoelectric prosthetic hand. This suggests that the ACMC can be recommended for clinical use. This thesis also includes a content comparison of prosthetic outcome measures that were developed in recent years. The comparison showed the similarities and differences among these outcome measures and therefore can be used as a guide for prosthetic professionals to select appropriate outcome measures for their aims of evaluations. The long-term goal of this comparison is to encourage the use of validated upper limb prosthetic outcome measures in clinical practice.