Per Essving (1960) received his medical degree in 1987 at Uppsala University. After completing his training in orthopedic surgery in 1994, he has worked at the Department of Orthopedic Surgery at Örebro University Hospital. He was registered as a PhD student at Örebro University in 2006 and professor Kjell Axelsson has been his research supervisor.

The acute pain following knee arthroplasty surgery is often severe. A new technique for postoperative pain management, local infiltration analgesia (LIA), has recently been developed. LIA involves a long-acting local anesthetic (ropivacaine), a non-steroid anti-inflammatory drug (ketorolac) and epinephrine infiltrated into the knee joint during surgery and injected postoperatively via a catheter. This thesis presents four studies investigating the role of LIA following knee arthroplasty.