| Chapter 1 | General introduction. | 9 |
| Chapter 2 | Slipped capital femoral epiphysis Current Concepts 2008-2014. | 15 |
| Chapter 3 | Incidence and gender differences of slipped capital femoral epiphysis in the Netherlands from 1998-2010 combined with a review of the literature on the epidemiology of SCFE. | 43 |
| Chapter 4 | Slipped capital femoral epiphysis and its association with endocrine, metabolic and chronic diseases, a systematic review of the literature. | 59 |
| Chapter 5 | Histopathology of physes in human slipped capital femoral epiphysis. | 83 |
| Chapter 6 | Current practice in the management of acute/unstable slipped capital femoral epiphysis in the UK and the Netherlands: Results of a survey of the membership of the BSCOS and the WKO. | 99 |
| Chapter 7 | The results of downgrading moderate and severe slipped capital femoral epiphysis by an early Imhauser femur osteotomy. | 111 |
| Chapter 8 | Progressive slip after removal of screw fixation in slipped capital femoral epiphysis: two case reports. | 125 |
| Chapter 9 | General discussion and summary. | 135 |

Samenvatting 143
List of abbreviations 151
Curriculum Vitae 152