

Contents

Outline of this thesis	7
Chapter 1. General introduction	9
Chapter 2. Handle height and expectation of cart movement affect the control of trunk motion at movement onset in cart pushing	25
Chapter 3. Control of trunk motion following sudden stop perturbations during cart pushing	47
Chapter 4. Oblique abdominal muscle activity in response to external perturbations when pushing a cart	65
Chapter 5. Trunk muscle control in response to (un)expected turns in cart pushing	85
Chapter 6. Epilogue	101
Reference	115
Summary/ Samenvatting/ 摘要	129/135/141
Acknowledgements	145
Curriculum Vitae	151