

University of Groningen

Adaptive seating and adaptive riding in children with cerebral palsy

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Propositions
Accompanying the thesis

Adaptive seating and adaptive riding
In children with cerebral palsy

1. The effect of seat inclination on the quality of reaching in children with cerebral palsy: one type does not fit all (*this thesis; Chapter 2*)
2. Foot-support enhances in seated children with cerebral palsy functioning at GMFCS levels I-III the capacity to modulate trunk extensor activity to the specifics reaching movements (*this thesis; Chapter 3*)
3. The optimal seating condition in children with cerebral palsy functioning at GMFCS levels I-III is associated with more feedforward control of the reaching arm, which implies less cerebral effort used in the control of the arm movement and more attention available for the environmental context (*this thesis; Chapter 2 and 3*)
4. Adaptive seating systems have a promising potential to promote meaningful participation in daily activities in children with severe forms of cerebral palsy (*this thesis; Chapter 4*)
5. Adaptive seating systems that include hip and trunk support devices are most promising to improve postural control and arm function in children with severe forms of cerebral palsy, but evidence is lacking (*this thesis; Chapter 4*)
6. Hope on horseback: adaptive riding that includes postural challenge exercises may enhance gross motor function and may reduce stereotyped postural adjustments in children with cerebral palsy (*this thesis; Chapter 5*)
7. PhD metamorphosis: Watch me wiggle from my egg, leg by leg; watch me munch leaves high and low, and grow-and grow; watch the chrysalis I create, and wait-and wait; watch me spread new wings to dry, and fly...and fly (*Deborah Heiligman: From caterpillar to butterfly*)
8. A little knowledge that acts is worth infinitely more than much knowledge that is idle. (*Khalil Gibran: The Prophet*)