

- 2011 Gooding J, Meinecke L, Rau G, Bahm J, Disselhorst-Klug C: Pathological muscular coactivation hinders effective movement execution: Exemplary analysis in children affected by brachial plexus lesion. Proceedings of XXIIIrd congress of the International Society of Biomechanics (ISB), 2011, Brussels, Belgium.
http://homepages.ulb.ac.be/~labo/ISB2011/ISB2011_ScientificProgram_files/1013.pdf
- 2006 Meinecke L, Breitbach-Faller N, Bartz C, Damen R, Rau G, Disselhorst-Klug C: Movement analysis in the early detection of newborns at risk for developing spasticity due to infantile cerebral palsy. *Human Movement Science*, Volume 25, Issue 2, 2006, Pages 125-144.
<https://doi.org/10.1016/j.humov.2005.09.012>
- Meinecke L: Quantification of the crosstalk ratio in surface electromyograms (Quantifizierung des Crosstalk-Anteils in Oberflächen-Elektromyogrammen). Dissertation, Hochschulbibliothek der RWTH Aachen, Germany, 2010.
http://publications.rwth-aachen.de/record/52648/files/Meinecke_Lars.pdf
- 2004 Bahm J, Becker M, Disselhorst-Klug C, Meinecke L, Williams S, Müller H, Sellhaus B, Schröder JM, Rau G: Surgical Strategy in Obstetric Brachial Plexus Palsy: The Aachen Experience. *Semin Plast Surg*, 2004 Nov; 18(4): 285–299.
DOI: 10.1055/s-2004-837255
- Meinecke L, Breitbach-Faller N, Bartz C, Rau G, Disselhorst-Klug C: Procedures for the classification of movement analysis data in early diagnosis of a developing spasticity in newborns with ICP. *Gait & Posture* 2003, 20, Suppl. 1: 61-112.
- Meinecke, L, Disselhorst-Klug C, Rau G: Crosstalk and co-activation in bipolar surface EMG data: A new methodology for detection, discrimination and quantification. 15th Congress of the International Society of Electrophysiology and Kinesiology, 2004, Boston, MA, USA.
- 2003 Bahm J, Meinecke L, Brandenbusch V, Rau G, Disselhorst-Klug C: High Spatial Resolution Electromyography and Video-Assisted Movement Analysis in Children with Obstetric Brachial Plexus Palsy. *Hand Clinics* 2003,19:393-399.
DOI: 10.1016/S0749-0712(03)00033-7
- Breitbach-Faller N, Meinecke L, Bartz C, Rau G, Hörnchen H, Disselhorst-Klug C: 3D-Bewegungsanalyse zur Frühdiagnostik einer sich entwickelnden Spastik bei Säuglingen mit infantiler Cerebralparese - Entwicklung eines neuen Mess- und Analyseverfahrens. 21. Kongress für perinatale Medizin, Deutsche Gesellschaft für Perinatale Medizin, Berlin, 2003.
DOI: 10.1055/s-2003-818069
- Meinecke L, Breitbach-Faller N, Bartz C, Rau G, Disselhorst-Klug C: Movement analysis in early diagnosis of a developing spasticity in newborns with infantile cerebral palsy. *Gait & Posture* 2003, 18, Suppl. 2: 96-98.

- 2002 Meinecke L, Disselhorst-Klug C, Bahm J, Rau G: Efficiency of Botulinumtoxin in therapy of children with obstetric plexus lesion. Proceedings of XIVth conference of the International Society for Elektromyography and Kinesiology (ISEK), Vienna, Austria, 2002:140-141.
- 2001 Meinecke L, Disselhorst-Klug C, Bahm J, Rau G: Analysis of upper extremity movement and muscular co-ordination for the evaluation of functional impairments. Gait and Posture 2001,14:145-147.
- Meinecke L, Disselhorst-Klug C, Bahm J, Rau G: Synchronous muscular co-ordination and 3-dimensional motion analysis in treatment of patients with obstetric plexus-lesion. Journal of Biomechanics 2001, 34.2001 (Suppl. 2), 229-229.