

Therapie der CP

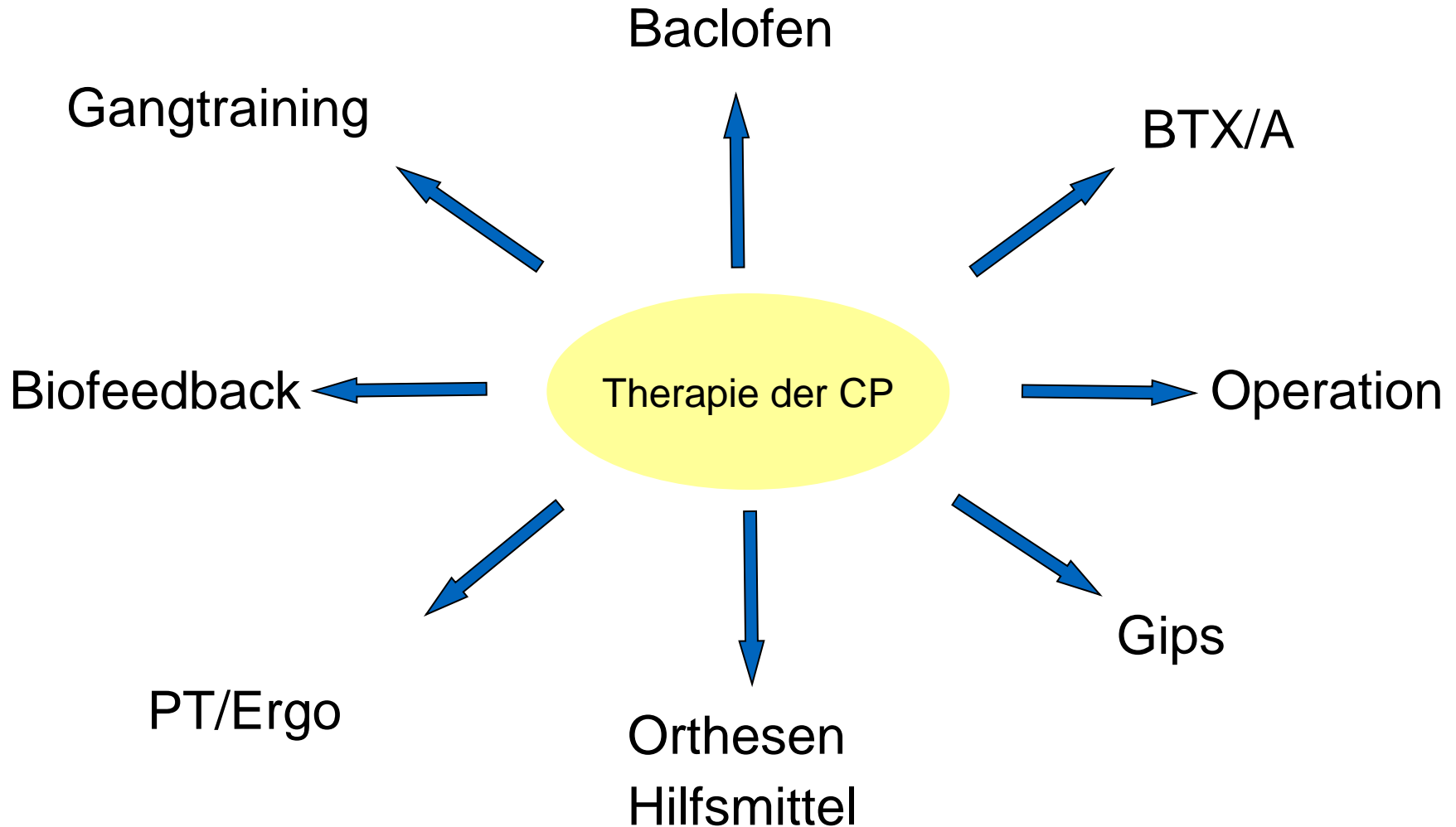
Kinder- und Jugendmedizinische Aspekte

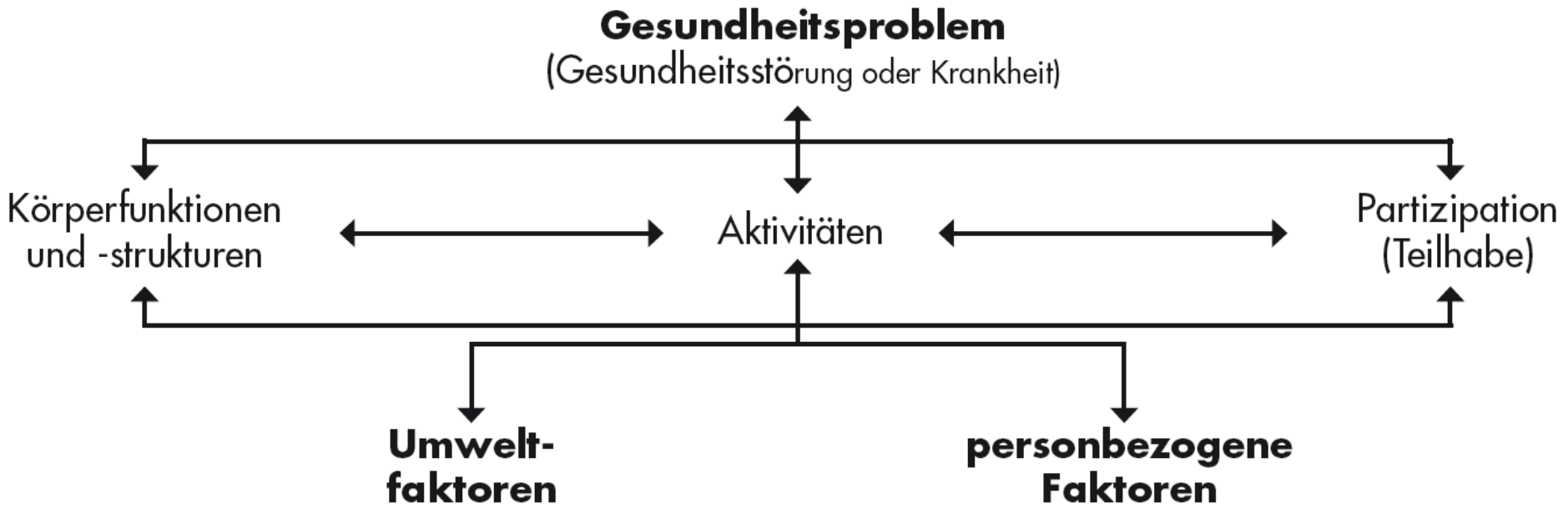


Volker Mall
KBO-Kinderzentrum
Lehrstuhl Sozialpädiatrie TU München

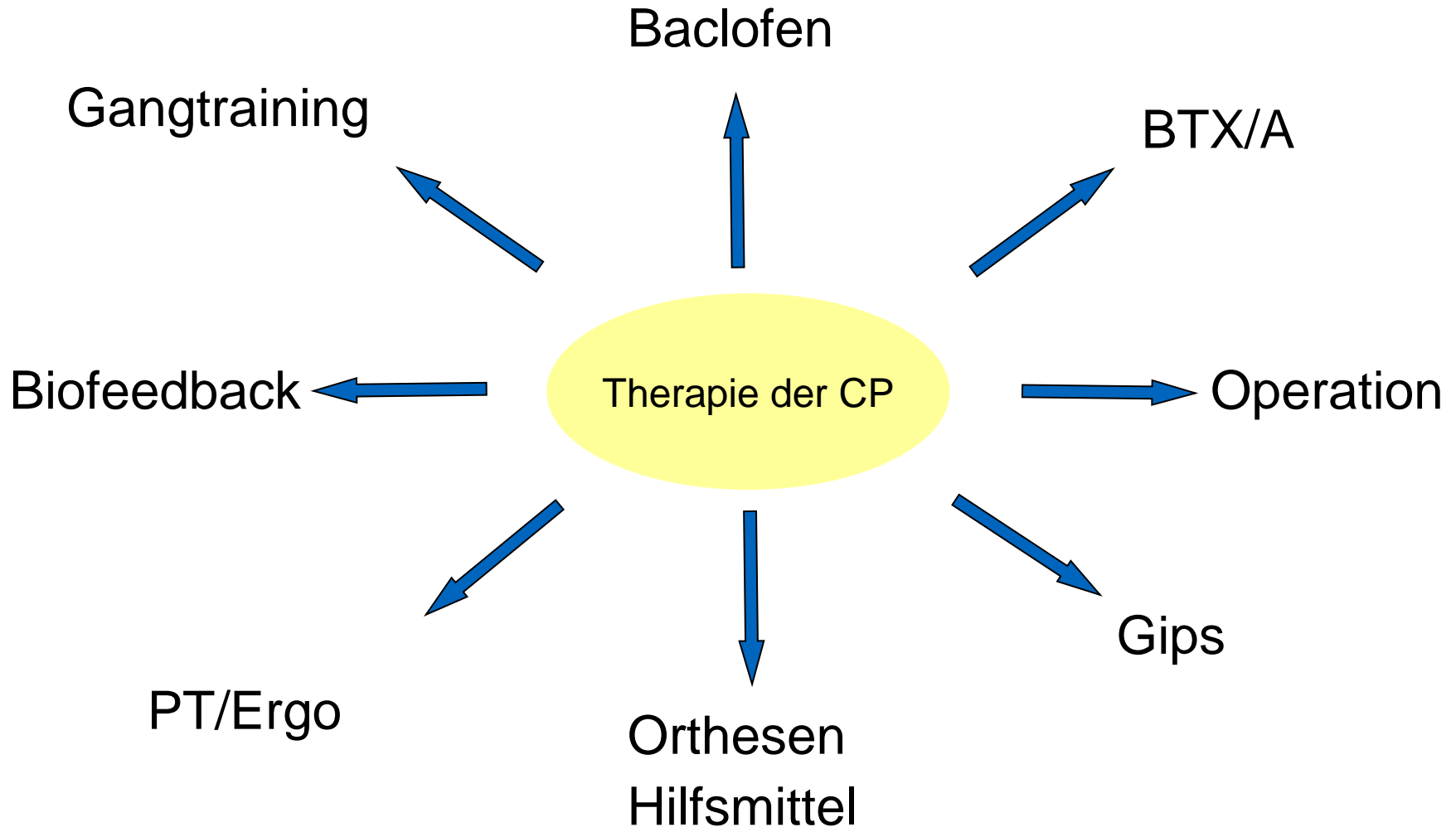
Maulbronn, 17.03.2017

Multimodales Therapiekonzept





Multimodales Therapiekonzept



Two types of exercise-induced neuroplasticity in congenital hemiparesis: a transcranial magnetic stimulation, functional MRI, and magnetoencephalography study

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MICHAEL WALTHER³ | INGA KOERTE⁷ | IGOR DELVENDAHL³ | NIKOLAI H JUNG⁸ | STEFFEN BERWECK^{9,10} |
MARTIN STAUDT^{2,9} | VOLKER MALL⁸

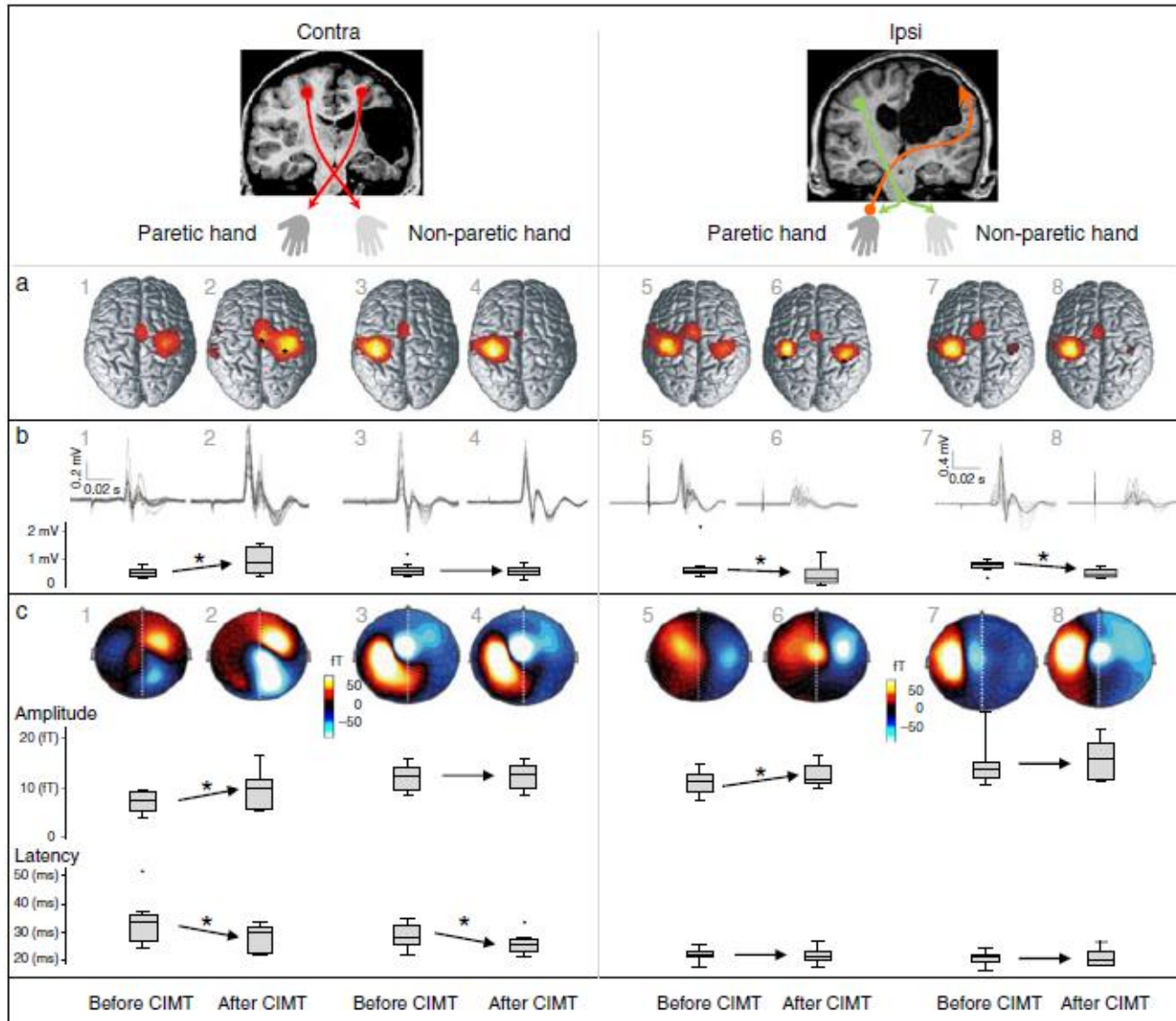
1 Department of Pediatrics, Klinikum Rechts der Isar, Technical University München, München; **2** Department of Pediatric Neurology and Developmental Medicine, University Children's Hospital, Tübingen; **3** Department of Neuropediatrics and Muscle Disorders, University Children's Hospital, Freiburg; **4** MEG-Center, University of Tübingen, Tübingen, Germany. **5** CIMeC, Center for Mind/Brain Sciences, University of Trento, Trento; **6** Department for Psychology and Cognitive Neuroscience, University of Trento, Trento, Italy. **7** Institute of Clinical Radiology, Ludwig-Maximilians-University, München; **8** Social Pediatrics and Developmental Medicine, Klinikum Rechts der Isar, Technical University München, München; **9** Clinic for Neuropediatrics and Neurorehabilitation, Epilepsy Center for Children and Adolescents, Vogtareuth; **10** Department of Pediatric Neurology and Developmental Medicine, Dr von Hauners' Children's Hospital, Ludwig-Maximilians-University, München, Germany.

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This article is commented on by Cheyne and Fehlings. To view this paper visit <http://dx.doi.org/10.1111/dmcn.12238>.

Constraint induced movement therapy

- Constraint
- Repetitive
- Shaping



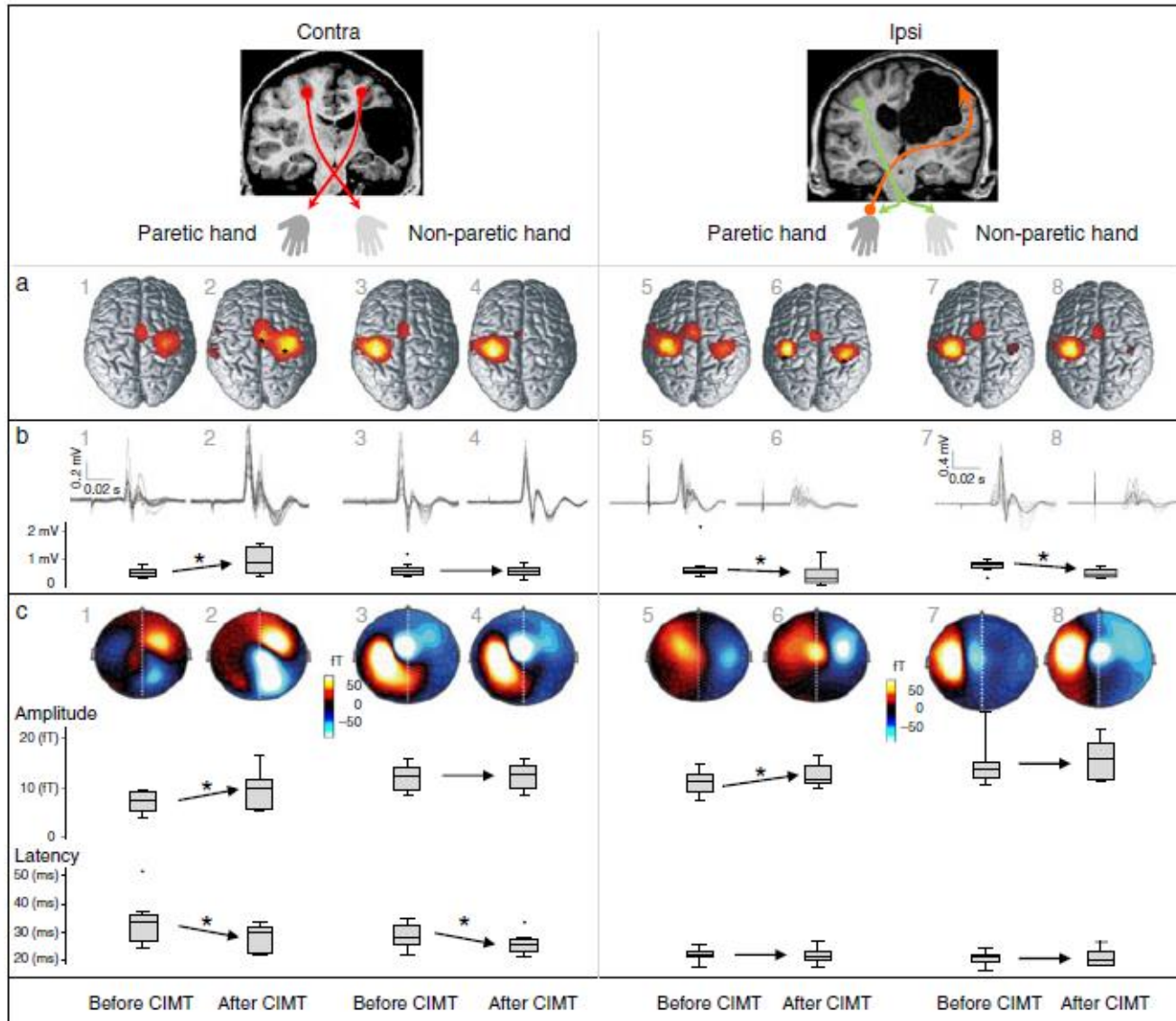
Two types of exercise-induced neuroplasticity in congenital hemiparesis: a transcranial magnetic stimulation, functional MRI, and magnetoencephalography study

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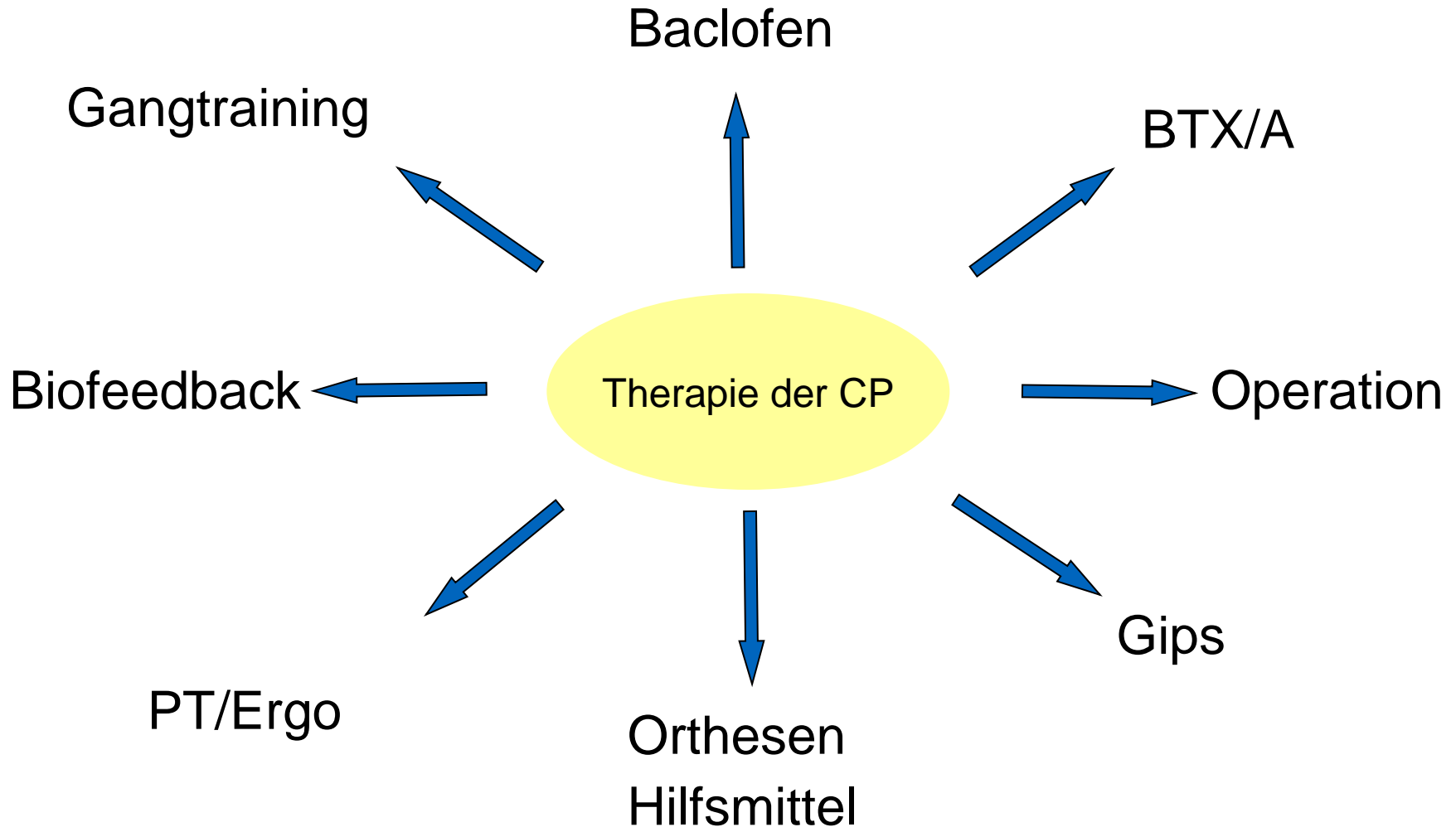


Plastizität- zerebral

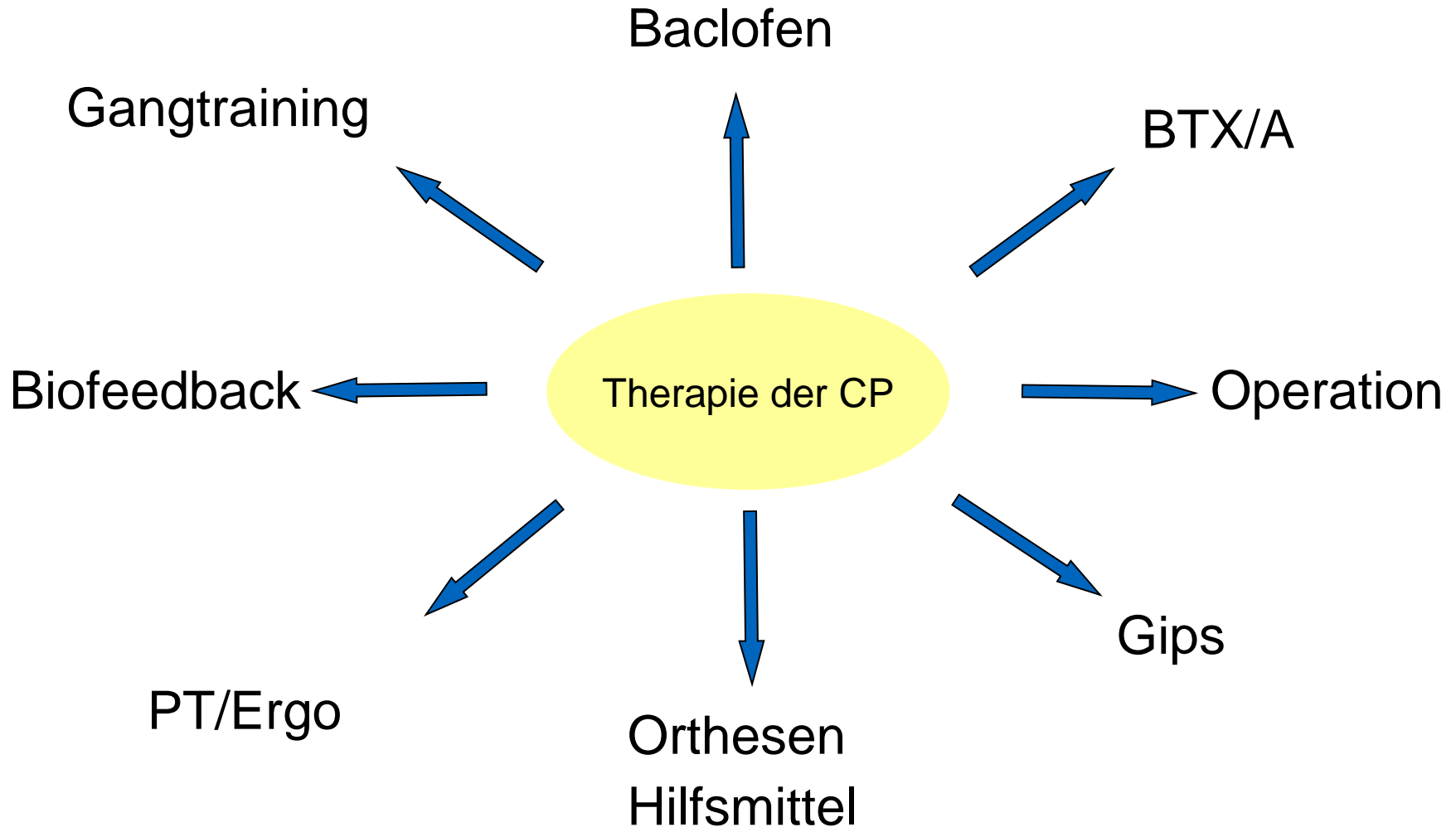
Essen / Telefonieren / Anziehen

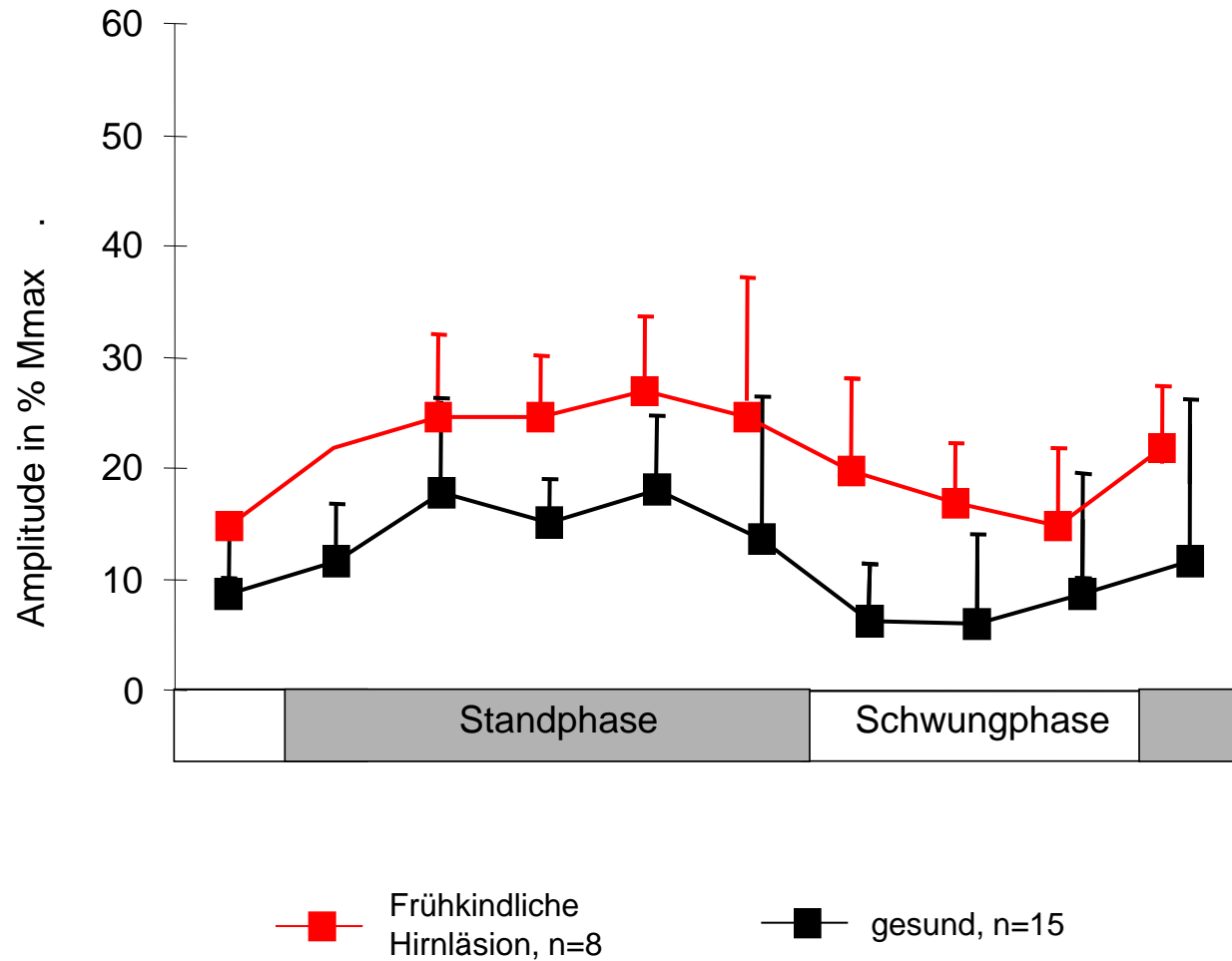
Berufsausübung,
mit Kollegen Essen gehen

Multimodales Therapiekonzept

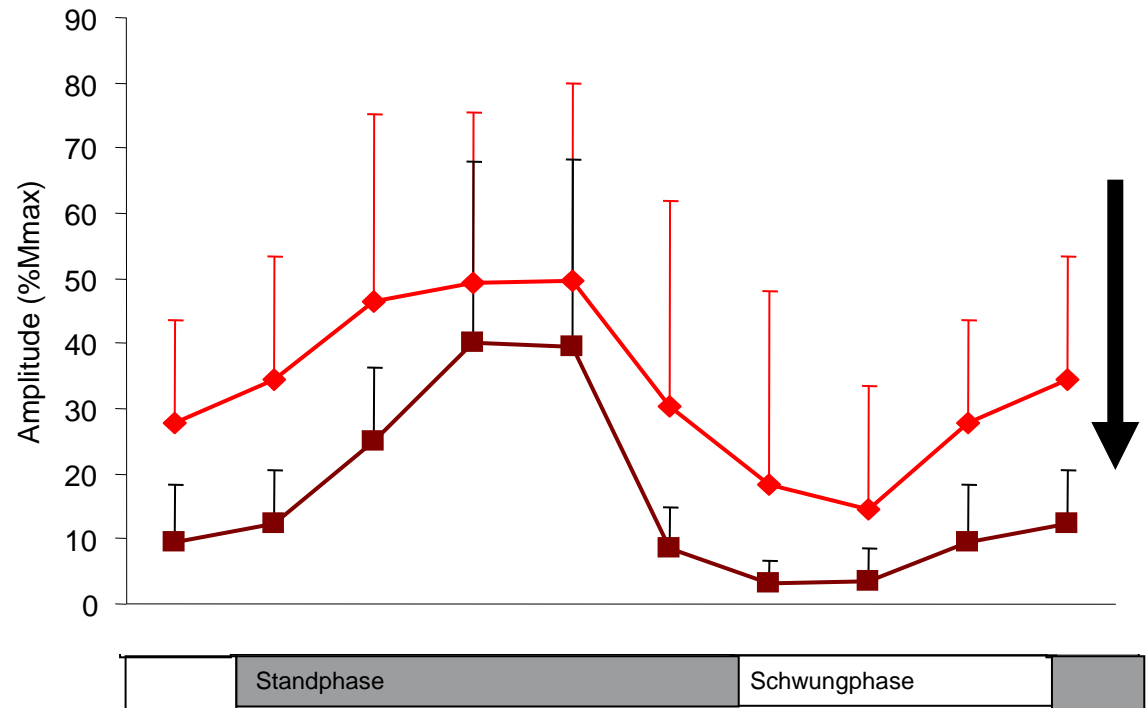


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Laufbandtraining



n=8



Plastizität - spinal

Fortbewegung zu Hause / Schule

Entwicklung – Interaktion

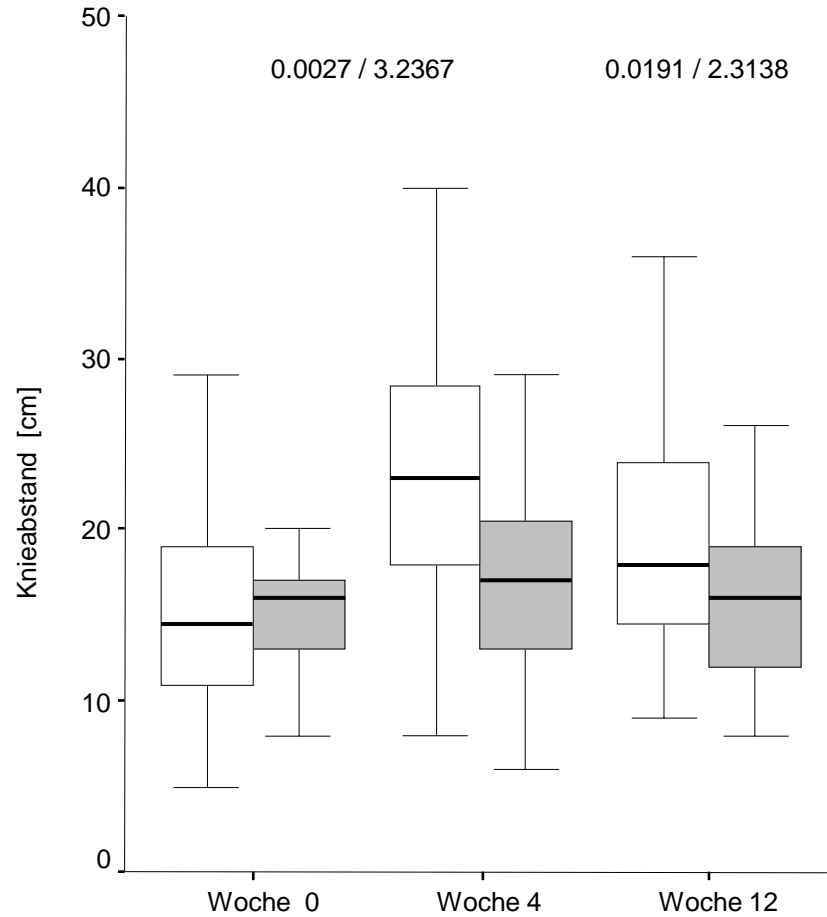
- FG 24+3 SSW
- 450 g
- ANS ° 4
- Hochfrequenzbeatmung
- 5 Monate
Intensivstation



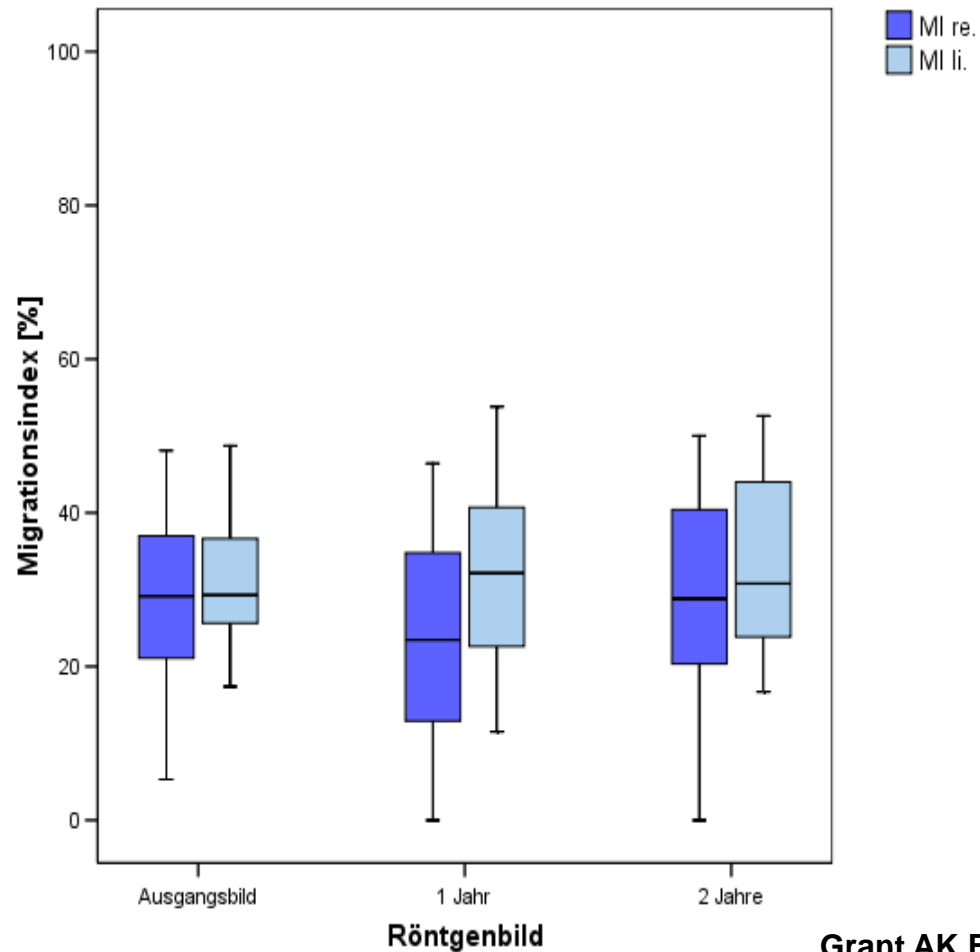
Treatment of adductor spasticity with BTX-A in children with CP: a randomized, double-blind, placebo-controlled study

Volker Mall*, Children's University Hospital, Freiburg University, Freiburg;
Florian Heinen, Department of Paediatric Neurology and Developmental Medicine, Ludwig-Maximilians-University München, München;
Andrea Siebel, IPSEN-Pharma GmbH, Ettlingen;
Christoph Bertram, Department of Orthopaedic Surgery, University of Cologne, Cologne;
Ulrich Hafkemeyer, Department of Orthopaedic Surgery, Münster University, Münster, Germany.
Jörg Wissel, Department of Neurology, University of Innsbruck, Innsbruck, Austria.
Steffen Berweck, Department of Paediatric Neurology and Developmental Neuroscience, Ludwig-Maximilians-University München, München;
Fritz Haverkamp, Children's University Hospital, Bonn University, Bonn;
Günter Nass, Department of Child Neurology, Maulbronn;
Leo Döderlein, Department of Orthopedic Surgery, University of Heidelberg, Heidelberg;
Nico Breitbach-Faller, Children's Hospital, Esslingen;
Wilhelm Schulte-Mattler, Department of Neurology, Regensburg University, Regensburg;
Rudolf Korinthenberg, Children's University Hospital, Freiburg University, Freiburg, Germany.

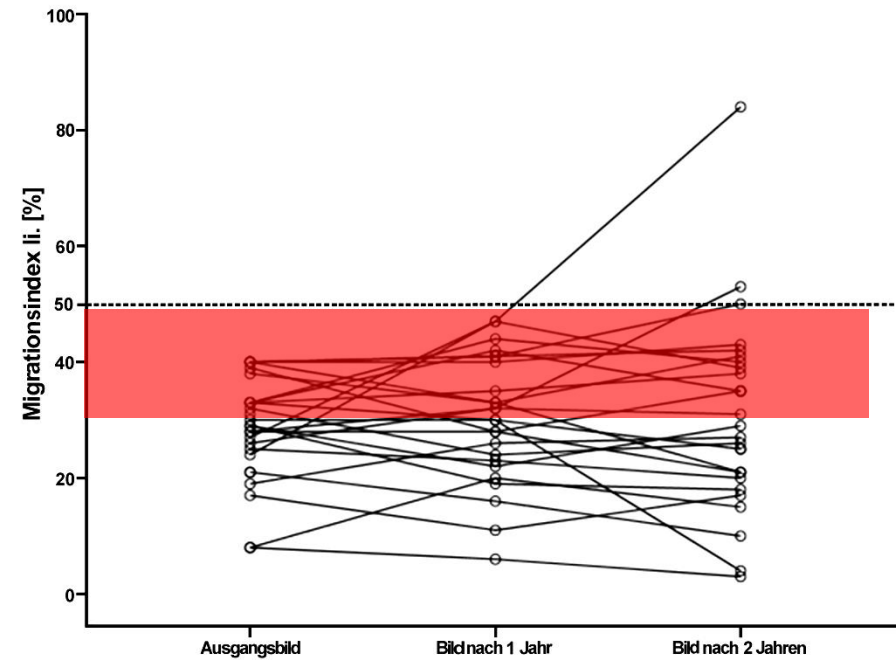
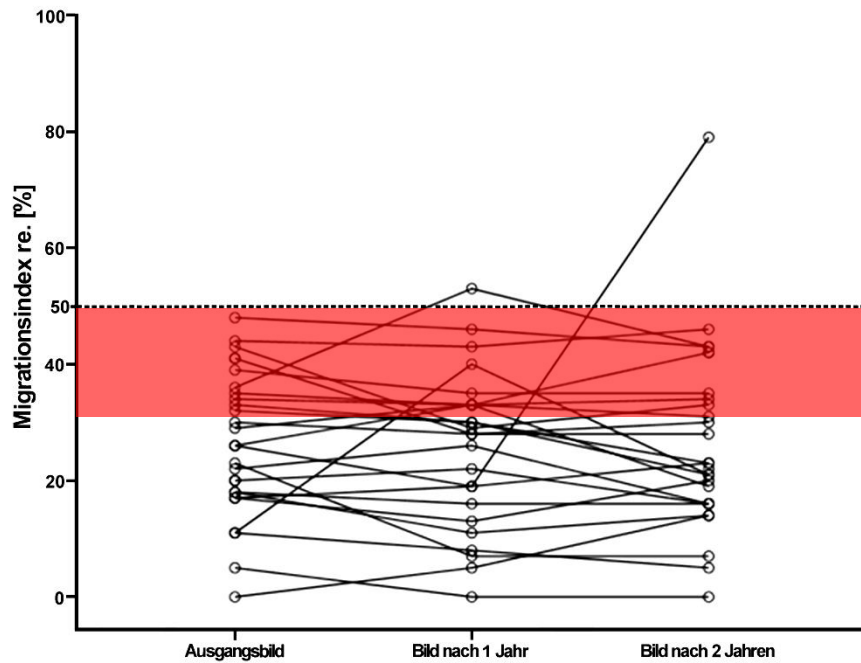
Ergebnisse



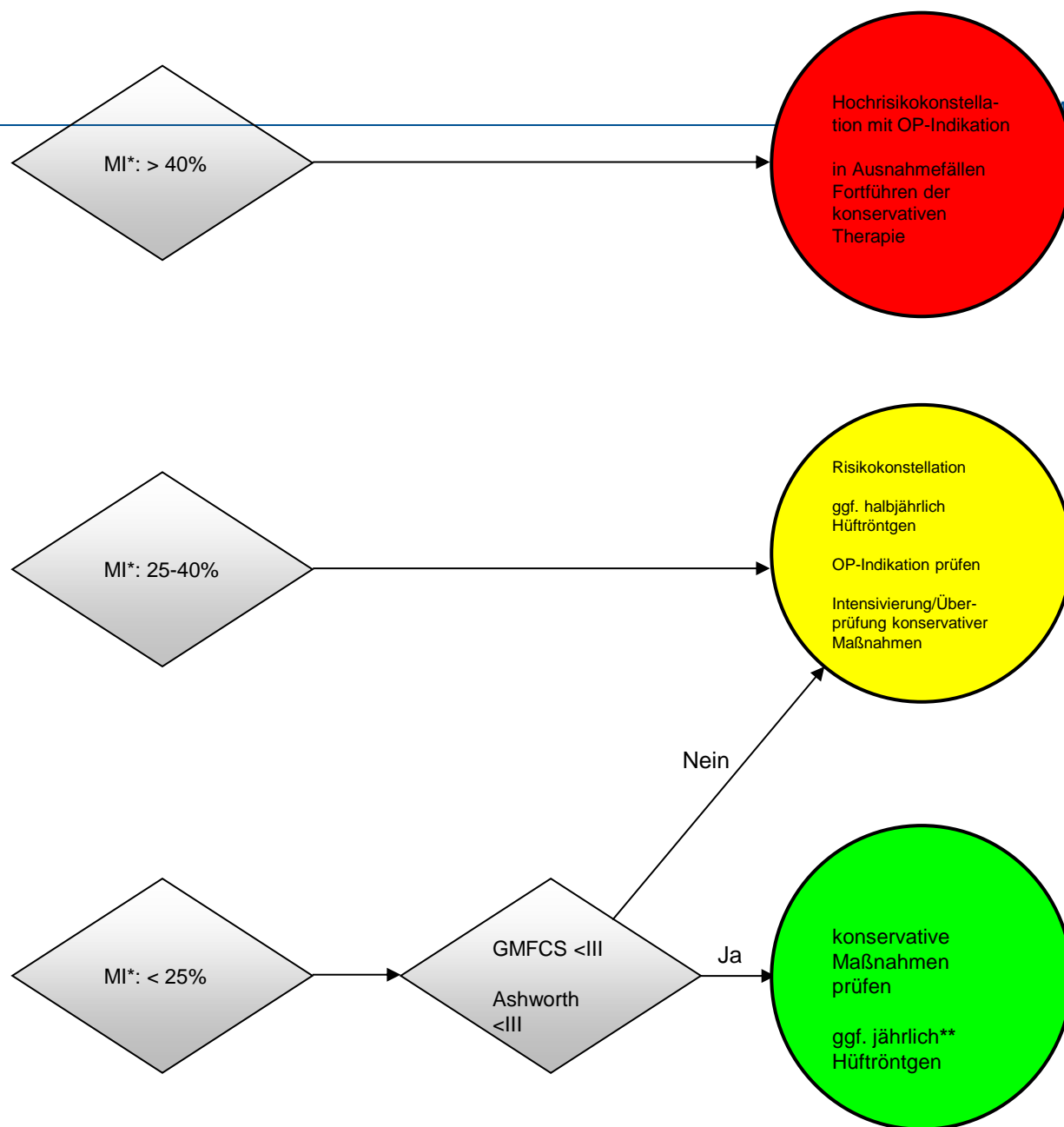
Hüftmigration 2 - Jahresverlauf



Ergebnisse



n=27



*Der Berechnung wird der höhere Migrationsindex (re., li.) zugrunde gelegt

** ataktische CP, Hemiparese, Patienten >12 Jahre siehe Rückmeldebogen

Lebensqualität?

Original Article

German Translation of the Caregiver Priorities and Child Health Index of Life with Disabilities Questionnaire: Test–Retest Reliability and Correlation with Gross Motor Function in Children with Cerebral Palsy

Nikolai H. Jung¹ Olga Brix² Peter Bernius³ A. Sebastian Schroeder² Gerhard J. Kluger⁴
Andreas Beyerlein⁵ Shannon Weir⁶ Rudiger von Kries⁷ Unni G. Narayanan⁶ Volker Mall¹
Steffen Berweck^{2,4}

Lebensqualität?

Original Article

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DEVELOPMENTAL
NEUROREHABILITATION

<http://informahealthcare.com/pdr>
ISSN: 1751-8423 (print), 1751-8431 (electronic)

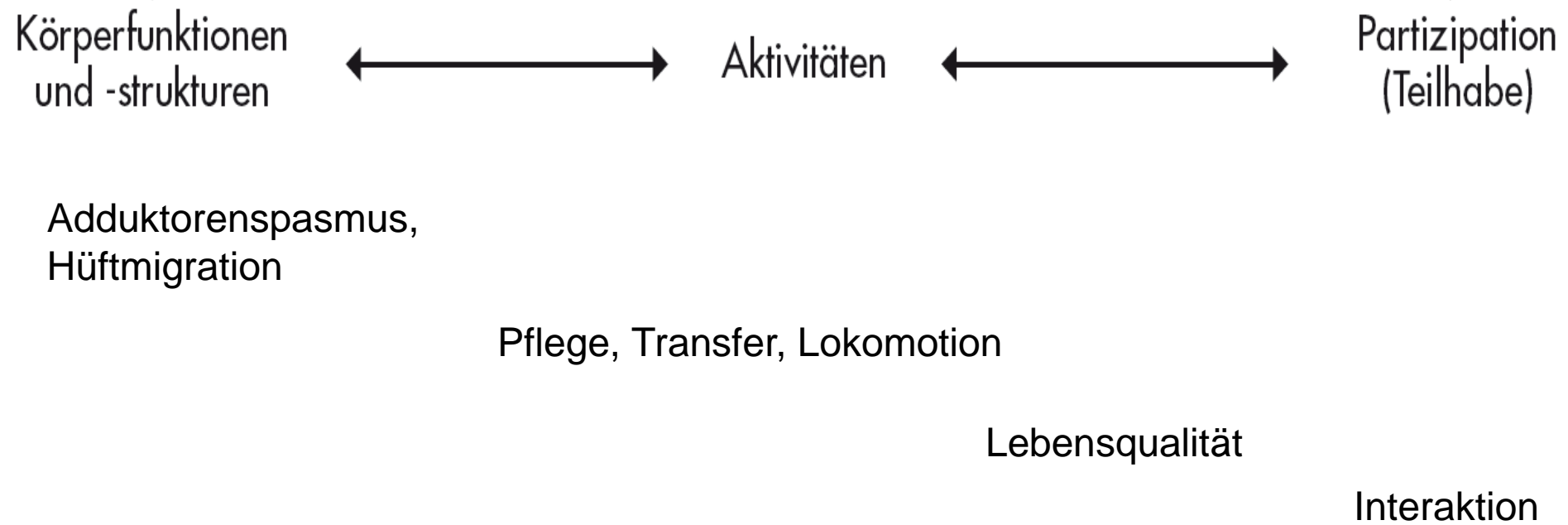
Dev Neurorehabil, Early Online: 1–6
© 2014 Informa UK Ltd. DOI: 10.3109/17518423.2014.941116

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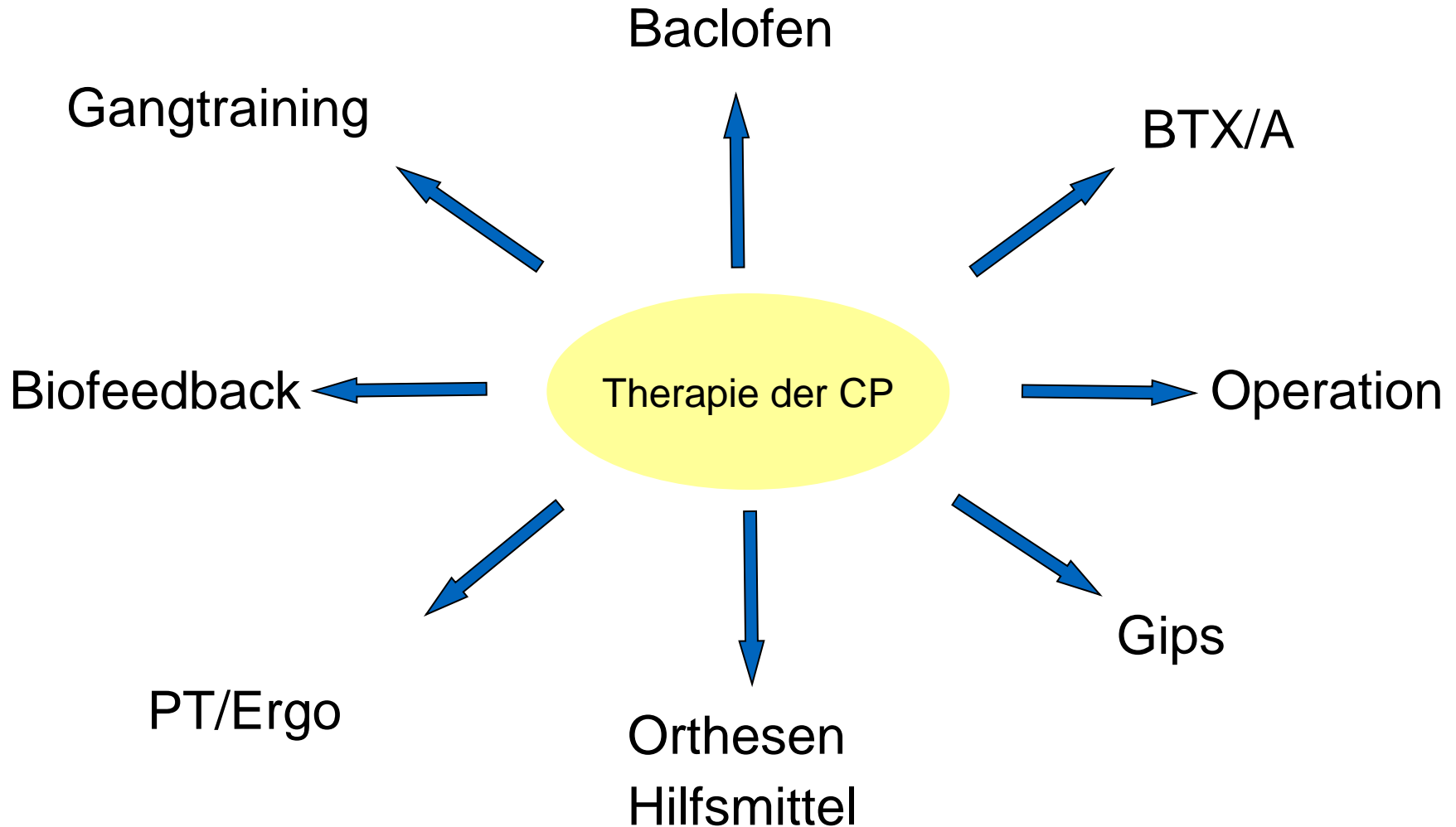
RESEARCH ARTICLE

Does hip displacement influence health-related quality of life in children with cerebral palsy?

Nikolai H. Jung¹, Barbara Pereira^{1,2}, Ina Nehring^{1,3}, Olga Brix⁴, Peter Bernius⁵, Sebastian A. Schroeder⁴,
Gerhard J. Kluger⁶, Tillmann Koehler⁷, Andreas Beyerlein⁸, Shannon Weir⁹, Rüdiger von Kries³, Unni G. Narayanan⁹,
Steffen Berweck^{4,6*}, & Volker Mall^{1*}



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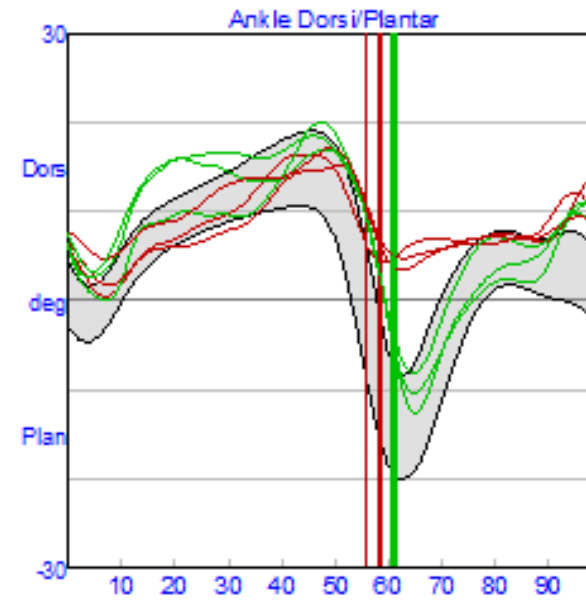
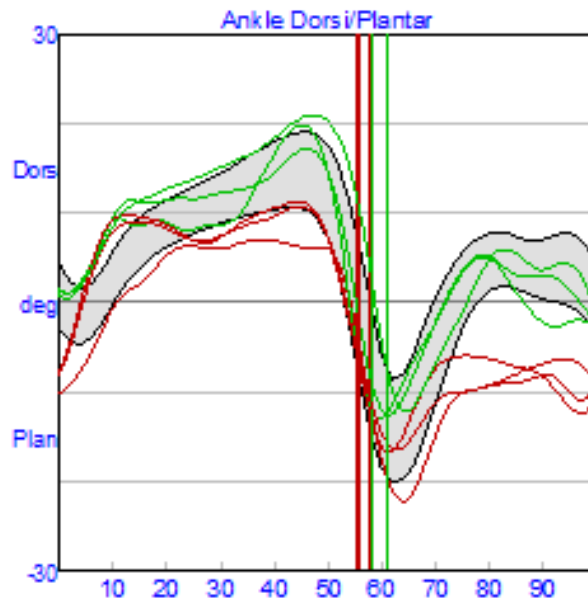
Fußorthese



Toe off - Orthese

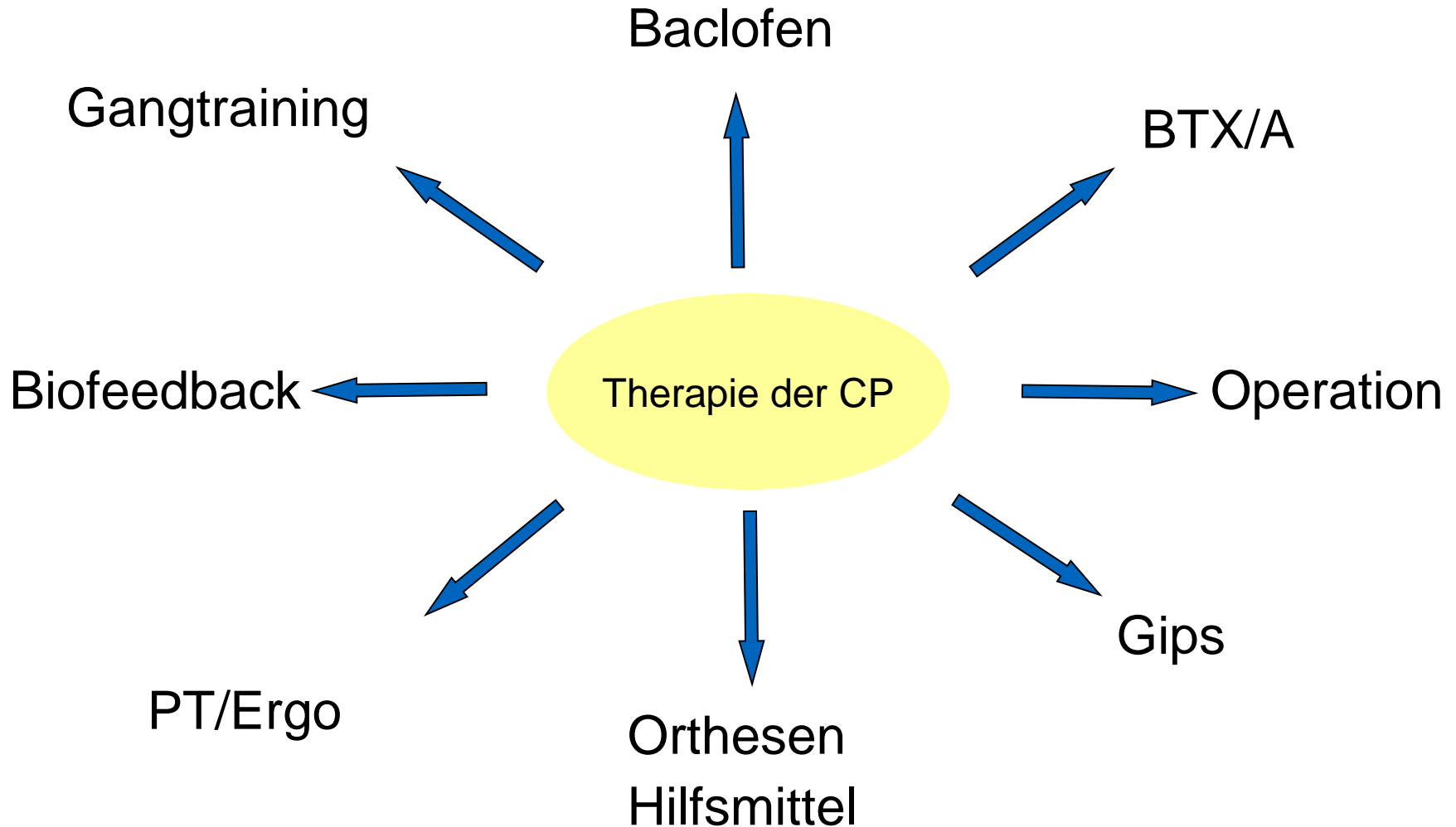


Toe off - Orthese



N=17

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Fazit



Vielen Dank für Ihre Aufmerksamkeit!

