

CHRISTINA ENGEL HØI-HANSEN

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Date of birth: May 9th, 1973
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 Marital status: Married since 2000, four children

**Education**

2017 Expert in paediatric neurology incl. visiting fellow Great Ormond Street Childrens Hosp., UK.
 2014 Paediatrician
 2008 DMSc, Faculty of Health Sciences, University of Copenhagen.
 2001 MD, University of Copenhagen.

Employments

2021- Clinical professor in paediatrics, Copenhagen University, Dept. Clinical Medicine (50%)
 2017- Consultant paediatric neurologist, Dept. of Paediatrics, Rigshospitalet
 2014-2016 Paediatric neurology training: Dept. of Paediatrics, Neurology and Center for Rare Diseases
 2008-2014 Specialization in paediatrics: Department of Paediatrics, Rigshospitalet and Hillerød Hospital
 2006-2008 Medical internship in surgery, internal medicine, and general practice
 2001-2006 Research assistant, Dept. of Growth and Reproduction, Rigshospitalet
 1996 Research assistant, Dept. of Immunology, Rigshospitalet

Selected research and organisational employments

2023- Member of the editorial board, Developmental Medicine and Child Neurology
 2023- Member of the board of the foundation Dronning Louises Børnehospitals Forskningsfond
 2022 Head of Clinical Research Unit for drug testing, Dept. of Paediatrics, Rigshospitalet, member from 2024
 2021- Head of the database steering group in the RKKP "Cerebral Parese Opfølgings Program"
 2020- Chair of the board of the Childrens Cancer Foundation (Børnecancerfonden)
 2019-2024 Member of the board of the Danish Epilepsy Society, vice chair 2021-2023
 2019- Member of the board of the Center for Rehabilitation of Brain Injury
 2018- Member of the steering group in the Danish Cerebral Palsy Register
 2017-2021 Member of COST European Network on Brain Malformations (CA16118), STSM coordinator
 2016- Member of the European Society of Paediatric Neurology, committee of national advisors
 2013-2018 Member of Danish Neuropaediatric Society board, Chair 2017-2018
 2009-2014 Member of the editorial board of the Ugeskrift for Læger / Danish Medical Journal

Research focus

My early research focus was in basic science regarding embryonal stem cells and clinical implications. Current research focuses on early brain damage in children and related comorbidity, especially research areas that link translational research to the clinic. Children and adolescents with complex and rare neuropaediatric diagnoses, such as cerebral palsy, epilepsy, and neuromuscular diseases are the focus. A special interest is to identify the children early to be able to modify diagnosis, both disorders that can be difficult to identify early in the developing brain/the developing child. And disorders such as stroke where focus is on early triage to be able to give early treatment. Several research projects span across several diagnoses and focus on improved nutrition, cognitive impairment, and bone health to ensure optimal treatment across the life span for patients with neuromuscular disorders. Furthermore, several ongoing research projects have a base in the Danish CP register, where I am head of the database steering group.

Research supervision, review, and teaching

Currently ongoing supervision: PhD (7), master thesis (2), bachelor thesis (1).
 Previous supervisions (main og co-supervisor): PhD (3), master thesis (5), bachelor thesis (3).
 Assessment board of 6 PhD (1 Sweden, 5 DK). Assessment of 1 application for PhD and 2 professorships. Reviewer for 16 journals. Teaching of medical students and courses in specialization in pediatrics and neuropaediatrics.

Scientific conferences

In the period 2001-2023 participation in 35 international meetings, whereof 15 were with poster presentation and 8 oral presentations. More than 40 invited lectures in Denmark and abroad.
 In 2013-2020 co-organiser of 6 annual meetings of the Danish Neuropaediatric and 2 in the Danish Epilepsy Society.
 In 2018 head of organization committee of the Nordic Neuropaediatric Conference, Copenhagen, Denmark including a 2-day course for neuropaediatricians in training from the Nordic countries.

Clinical trials

Ongoing: Sarepta/Duchenne, PI 4045-301 (PI) and 4652-402, TEVA/ deutetribenazine for CP TEV-50717.
Previous: Novartis/SMA, branaplam. GCP training June 2022.

Publications

A total of 98 publications: 92 in peer-reviewed journals and 2 book chapters. 26 as first author, 17 as last author. H-index: 28 Web of Science, 29 Google Scholar

<https://www.webofscience.com/wos/author/record/2094489>

https://scholar.google.dk/citations?hl=da&user=J6kOoWsAAAAJ&view_op=list_works&sortby=pubdate

The 10 most important are:

1. Hoei-Hansen CE, Mathiasen R, Uldall P. Unexpected marked seizure improvement in paediatric epilepsy surgery candidates. *Seizure*. 2016;45:70-73.
2. Liu Y, Schubert J, Sonnenberg L, Helbig KL, Hoei-Hansen CE, Lauxmann S, Huq M, Schneider M, Johannesen KM, Gardella E, Becker F, Weber YG, Benda J, Møller RS, Lerche H. Neuronal Mechanisms of Mutations in SCN8A Causing Epilepsy or Intellectual Disability. *Brain* 2019;142:376-90.
3. Prével M, Rackauskaite G, Larsen ML, Laursen B, Lorentzen J, Born AP, Langhoff-Roos J, Uldall P, Hoei-Hansen CE. Children with dyskinetic cerebral palsy are severely affected as compared to bilateral spastic cerebral palsy. *Acta Paediatr* 2019; 108(10):1850-6.
4. Larsen ML, Rackauskaite G, Greisen G, Laursen B, Uldall P, Krebs L, Hoei-Hansen CE. Continuing decline in the prevalence of cerebral palsy in Denmark for birth years 2008-2013. *Eur J Ped Neurol* 2020;S1090-3798(20)30196-3. doi: 10.1016/j.ejpn.2020.10.003.
5. Hoei-Hansen CE, Tygesen MLB, Dunoe M, Vissing J, Ballegaard M, Born AP. Combined Muscle Biopsy and Comprehensive Electrophysiology in General Anesthesia is Valuable in Diagnosis of Neuromuscular Disease in Children. *Neuropediatrics* 2021: doi: 10.1055/s-0041-1726120.
6. Sørensen SJ, Brekke G, Kok K, Sørensen JL, Born AP, Mølgaard C, Høi-Hansen CE. Nutritional screening of children and adolescents with cerebral palsy: A scoping review. *Dev Med Child Neurol* 2021;63:1374-81.
7. Mattison K, Tossing G, Mulroe F, Simmons C, Butler K, Neilson D, Naess K, Wedell A, Wredenberg, A, Sorlin A, McCann E, Burghel G, Hoganson G, Botto L, Filloux F, Aleda-Serrano A, Gil-Nagel A, Tatton-Brown K, Verbeek N, van der Zwaag B Aleck K, Fazenbaker A, Balciuniene J, Dubbs H, Marsh E, Garber K, Ek J, Duno M, Hoei-Hansen C, Deardorff M, Raca G, Quindipan C, van Hirtum-Das M, Breckpot J, Hammer T, Møller R, Whitney A, Douglas A, Kharbanda M, May H, Tao J, Dobyns W, Baines R, Warwick J, Parker JA, Banka S, Campeau P, Escayg A. Heterozygous ATP6V0C Variants Cause a Neurodevelopmental Disorder Associated with Epilepsy and Impair Vacuolar H⁺-ATPase Function. *Brain* 2023;146:1357-72.
8. Larsen ML, Rackauskaite G, Pihl K, Uldall P, Greisen G, Krebs L, Hoei-Hansen CE. First trimester biomarkers and risk of cerebral palsy. *Early Human Development* 2022;167:105564.
9. Thygesen LC, Lassen TH, Horsbøl TA, Mairey IP, Juel K, Hoei-Hansen CE, Michelsen SI. Mortality patterns in a Danish nationwide cohort of persons with intellectual disabilities. *J Intellect Disab* 2023 (accepted).
10. De Knecht VE, Børresen ML, Knudsen M, Jakobsen AV, Thomsen KM, Uldall PV, Hoei-Hansen CE. Current state of hemispherectomy and callosotomy for pediatric refractory epilepsy in Denmark. *Brain Development* 2023 (accepted).

Selected post-graduate courses

2023 PhD supervision course, KU.

2022 Leadership course for researchers, RH, 5 days.

2022 Masterclass in mission-oriented research management, RegH, 1 day.

2021 University pedagogics, University of Copenhagen, 5 days.

2017+2020 GCP training

2017 Duchenne muscle dystrophy course, Treat NMD Society, Lissabon, three days.

2016 NNPS course on hereditary ataxias, Helsinki, two days.

2015 Neuropaediatrics specialization course, Budapest, EPNS, four days.

2015 Nordic Neuropaediatric Society course on neuromuscular disorders, Göteborg, four days.

2013 Bristol Masterclass in Neuropaediatrics, Bristol, England, two days.

2013 Editing Medical Journals, Oxford, England, two days.

2010 Manchester Dysmorphology course, Manchester, England, three days.

Author in www.NetDoktor.dk regarding cerebral palsy and in www.Sundhed.dk regarding alternating hemiplegia and Sturge Weber syndrome.