

# Universitäts-Kinderspital Zürich

## Forschungsprojekte der Abteilung Gastroenterologie und Ernährung (2012-2016)

### A. Laufende Studien

#### *Swiss IBD cohort study (SIBDCS)*

**Prevalence of intestinal complications in inflammatory bowel disease: a comparison between paediatric-onset and adult-onset patients.**

Herzog D, Fournier N, Buehr P, Rueger V, Koller R, Heyland K, Nydegger A, Braegger CP; Swiss IBD Cohort Study Group.

Eur J Gastroenterol Hepatol. 2017 Aug;29(8):926-931.

**Changes in health-related quality of life over a 1-year follow-up period in children with inflammatory bowel disease.**

Werner H, Landolt MA, Buehr P, Koller R, Nydegger A, Spalinger J, Heyland K, Schibli S, Braegger CP; Swiss IBD Cohort Study Group.

Qual Life Res. 2017 Jun;26(6):1617-1626.

**Steroid Administration and Growth Impairment in Children with Crohn's Disease.**

Duchatellier CF, Kumar R, Krupoves A, Braegger C, Herzog D, Amre DK.

Inflamm Bowel Dis. 2016 Feb;22(2):355-63.

**Shorter time since inflammatory bowel disease diagnosis in children is associated with lower mental health in parents.**

Werner H, Braegger C, Buehr P, Koller R, Nydegger A, Spalinger J, Heyland K, Schibli S, Landolt M; Swiss IBD Cohort Study Group.

Acta Paediatr. 2015 Jan;104(1):e32-8.

**Early-onset Crohn's disease is a risk factor for smaller final height.**

Herzog D, Fournier N, Buehr P, Koller R, Rueger V, Heyland K, Nydegger A, Spalinger J, Schibli S, Braegger C; Swiss IBD Cohort Study Group.

Eur J Gastroenterol Hepatol. 2014 Nov;26(11):1234-9.

**Gender differences in paediatric patients of the swiss inflammatory bowel disease cohort study.**

Herzog D, Buehr P, Koller R, Rueger V, Heyland K, Nydegger A, Spalinger J, Schibli S, Braegger CP; Swiss IBD Cohort Study Group.

Pediatr Gastroenterol Hepatol Nutr. 2014 Sep;17(3):147-54.

**Validation of the IMPACT-III quality of life questionnaire in Swiss children with inflammatory bowel disease.**

Werner H, Landolt MA, Buehr P, Koller R, Nydegger A, Spalinger J, Heyland K, Schibli S, Braegger CP; Swiss IBD Cohort Study Group.

J Crohns Colitis. 2014 Jul;8(7):641-8.

**Coping is excellent in Swiss Children with inflammatory bowel disease: results from the Swiss IBD cohort study.**

Rogler D, Fournier N, Pittet V, Buehr P, Heyland K, Friedt M, Koller R, Rueger V, Herzog D, Nydegger A, Schappi M, Schibli S, Spalinger J, Rogler G, Braegger CP; Swiss IBD Cohort Study Group.

J Crohns Colitis. 2014 May;8(5):409-20.

**Low prevalence of behavioural and emotional problems among Swiss paediatric patients with inflammatory bowel disease.**

Herzog D, Landolt MA, Buehr P, Heyland K, Rogler D, Koller R, Rueger V, Pittet V, Nydegger A, Spalinger J, Schappi M, Schibli S, Braegger CP; Swiss IBD Cohort Study Group.

Arch Dis Child. 2013 Jan;98(1):16-9.

**Systematic evaluation of risk factors for diagnostic delay in inflammatory bowel disease.**

Vavricka SR, Spigaglia SM, Rogler G, Pittet V, Michetti P, Felley C, Mottet C, Braegger CP, Rogler D, Straumann A, Bauerfeind P, Fried M, Schoepfer AM; Swiss IBD Cohort Study Group. Inflamm Bowel Dis. 2012 Mar;18(3):496-505.

**Epidemiology of inflammatory bowel disease: Is there a shift towards onset at a younger age?**

Braegger CP, Ballabeni P, Rogler D, Vavricka SR, Friedt M, Pittet V; Swiss IBD Cohort Study Group. J Pediatr Gastroenterol Nutr. 2011 Aug;53(2):141-4.

***Mikrobiom-Studie***

**Early colonization of functional groups of microbes in the infant gut.**

Pham VT, Lacroix C, Braegger CP, Chassard C. Environ Microbiol. 2016 Jul;18(7):2246-58.

***Establishing the iodine requirement in infancy (Iod-Studie)***

**A dose-response crossover iodine balance study to determine iodine requirements in early infancy.**

Dold S, Zimmermann MB, Baumgartner J, Davaz T, Galetti V, Braegger C, Andersson M. Am J Clin Nutr. 2016 Sep;104(3):620-8.

**B. Abgeschlossene Studien (2012-2016)**

***Impact of maternal breast milk on the establishment of gut microbiota (Muttermilch-Studie)***

**Impact of human milk bacteria and oligosaccharides on neonatal gut microbiota establishment and gut health.**

Jost T, Lacroix C, Braegger C, Chassard C. Nutr Rev. 2015 Jul;73(7):426-37.

**Stability of the maternal gut microbiota during late pregnancy and early lactation.**

Jost T, Lacroix C, Braegger C, Chassard C. Curr Microbiol. 2014 Apr;68(4):419-27.

**Vertical mother-neonate transfer of maternal gut bacteria via breastfeeding.**

Jost T, Lacroix C, Braegger CP, Rochat F, Chassard C. Environ Microbiol. 2014 Sep;16(9):2891-904.

**Assessment of bacterial diversity in breast milk using culture-dependent and culture-independent approaches.**

Jost T, Lacroix C, Braegger C, Chassard C. Br J Nutr. 2013 Oct;110(7):1253-62.

**New insights in gut microbiota establishment in healthy breast fed neonates.**

Jost T, Lacroix C, Braegger CP, Chassard C. PLoS One. 2012;7(8):e44595.

***Multicentre Immuno Programming Study (MIPS)***

**Immunoactive prebiotics transiently prevent occurrence of early atopic dermatitis among low-atopy-risk infants.**

Grüber C, van Stuijvenberg M, Mosca F, Moro G, Chirico G, Braegger CP, Riedler J, Yavuz Y, Boehm G, Wahn U; MIPS II Working Group.  
J Allergy Clin Immunol. 2015 Dec;136(6):1696-8.e1.

**Similar Occurrence of Febrile Episodes Reported in Non-Atopic Children at Three to Five Years of Age after Prebiotics Supplemented Infant Formula.**

van Stuijvenberg M, Stam J, Grüber C, Mosca F, Arslanoglu S, Chirico G, Braegger CP, Riedler J, Boehm G, Sauer PJ; Multicentre Immuno Programming Study (MIPS) Study Group.  
PLoS One. 2015 Jun 15;10(6):e0129927.

**Antibiotic use in infants in the first year of life in five European countries.**

Stam J, van Stuijvenberg M, Grüber C, Mosca F, Arslanoglu S, Chirico G, Braegger CP, Riedler J, Boehm G, Sauer PJ; Multicenter Infection Prevention Study 1 (MIPS 1) Study Group.  
Acta Paediatr. 2012 Sep;101(9):929-34.

**Tolerance and safety evaluation in a large cohort of healthy infants fed an innovative prebiotic formula: a randomized controlled trial.**

Piemontese P, Gianni ML, Braegger CP, Chirico G, Grüber C, Riedler J, Arslanoglu S, van Stuijvenberg M, Boehm G, Jelinek J, Roggero P; MIPS 1 Working Group.  
PLoS One. 2011;6(11):e28010

**Do prebiotics reduce the number of fever episodes in healthy children in their first year of life: a randomised controlled trial.**

van Stuijvenberg M, Eisses AM, Grüber C, Mosca F, Arslanoglu S, Chirico G, Braegger CP, Riedler J, Boehm G, Sauer PJ.  
Br J Nutr. 2011 Dec;106(11):1740-8.

**Reduced occurrence of early atopic dermatitis because of immunoactive prebiotics among low-atopy-risk infants.**

Grüber C, van Stuijvenberg M, Mosca F, Moro G, Chirico G, Braegger CP, Riedler J, Boehm G, Wahn U; MIPS 1 Working Group.  
J Allergy Clin Immunol. 2010 Oct;126(4):791-7.

***Antioxidantien bei Adipositas (Antioxidantien-Studie)***

**Antioxidant supplements reduced oxidative stress and stabilized liver function tests but did not reduce inflammation in a randomized controlled trial in obese children and adolescents.**

Murer SB, Aeberli I, Braegger CP, Gittermann M, Hersberger M, Leonard SW, Taylor AW, Traber MG, Zimmermann MB.  
J Nutr. 2014 Feb;144(2):193-201.

***Blastocystis-Studie***

**No advantage for antibiotic treatment over placebo in Blastocystis hominis-positive children with recurrent abdominal pain.**

Heyland K, Friedt M, Buehr P, Braegger CP.  
J Pediatr Gastroenterol Nutr. 2012 May;54(5):677-9.

***AAD-Studie***

**Inulin and fructo-oligosaccharides for the prevention of antibiotic-associated diarrhea in children: report by the ESPGHAN Working Group on Probiotics and Prebiotics.**

ESPGHAN Working Group on Probiotics and Prebiotics, Szajewska H, Weizman Z, Abu-Zekry M, Kekez AJ, Braegger CP, Kolacek S, Micetic-Turk D, Ruszczyński M, Vukavic T.  
J Pediatr Gastroenterol Nutr. 2012 Jun;54(6):828-9.

## **C. Mitarbeit bei der Erstellung von internationalen Guidelines und Position Papers (2012-2016)**

### **Highlights of the ESPEN-ESPGHAN-ECFS Guidelines on Nutrition Care for Infants and Children With Cystic Fibrosis.**

Wilschanski M, Braegger CP, Colombo C, Declercq D, Morton A, Pancheva R, Robberecht E, Stern M, Strandvik B, Wolfe S, Schneider SM.

J Pediatr Gastroenterol Nutr. 2016 Dec;63(6):671-675.

### **Prevention of Vitamin K Deficiency Bleeding in Newborn Infants: A Position Paper by the ESPGHAN Committee on Nutrition.**

Mihatsch WA, Braegger C, Bronsky J, Campoy C, Domellöf M, Fewtrell M, Mis NF, Hojsak I, Hulst J, Indrio F, Lapillonne A, Mlgaard C, Embleton N, van Goudoever J; ESPGHAN Committee on Nutrition.

J Pediatr Gastroenterol Nutr. 2016 Jul;63(1):123-9.

### **Global Consensus Recommendations on Prevention and Management of Nutritional Rickets.**

Munns CF, Shaw N, Kiely M, Specker BL, Thacher TD, Ozono K, Michigami T, Tiosano D, Mughal MZ, Mäkitie O, Ramos-Abad L, Ward L, DiMeglio LA, Atapattu N, Cassinelli H, Braegger C, Pettifor JM, Seth A, Idris HW, Bhatia V, Fu J, Goldberg G, Säwendahl L, Khadgawat R, Pludowski P, Maddock J, Hyppönen E, Oduwole A, Frew E, Aguiar M, Tulchinsky T, Butler G, Högler W.

Horm Res Paediatr. 2016;85(2):83-106.

### **ESPEN-ESPGHAN-ECFS guidelines on nutrition care for infants, children, and adults with cystic fibrosis.**

Turck D, Braegger CP, Colombo C, Declercq D, Morton A, Pancheva R, Robberecht E, Stern M, Strandvik B, Wolfe S, Schneider SM, Wilschanski M.

Clin Nutr. 2016 Jun;35(3):557-77.

### **ESPGHAN Committee on Nutrition Position Paper. Intravenous Lipid Emulsions and Risk of Hepatotoxicity in Infants and Children: a Systematic Review and Meta-analysis.**

Hojsak I, Colomb V, Braegger C, Bronsky J, Campoy C, Domellöf M, Embleton N, Fidler Mis N, Hulst JM, Indrio F, Lapillonne A, Mihatsch W, Molgaard C, van Goudoever J, Fewtrell M; ESPGHAN Committee on Nutrition.

J Pediatr Gastroenterol Nutr. 2016 May;62(5):776-92.

### **Global Consensus Recommendations on Prevention and Management of Nutritional Rickets.**

Munns CF, Shaw N, Kiely M, Specker BL, Thacher TD, Ozono K, Michigami T, Tiosano D, Mughal MZ, Mäkitie O, Ramos-Abad L, Ward L, DiMeglio LA, Atapattu N, Cassinelli H, Braegger C, Pettifor JM, Seth A, Idris HW, Bhatia V, Fu J, Goldberg G, Säwendahl L, Khadgawat R, Pludowski P, Maddock J, Hyppönen E, Oduwole A, Frew E, Aguiar M, Tulchinsky T, Butler G, Högler W.

J Clin Endocrinol Metab. 2016 Feb;101(2):394-415. doi: 10.1210/jc.2015-2175

### **Arsenic in rice: a cause for concern.**

Hojsak I, Braegger C, Bronsky J, Campoy C, Colomb V, Decsi T, Domellöf M, Fewtrell M, Mis NF, Mihatsch W, Molgaard C, van Goudoever J; ESPGHAN Committee on Nutrition.

J Pediatr Gastroenterol Nutr. 2015 Jan;60(1):142-5.

### **Consensus guidelines of ECCO/ESPGHAN on the medical management of pediatric Crohn's disease.**

Ruemmele FM, Veres G, Kolho KL, Griffiths A, Levine A, Escher JC, Amil Dias J, Barabino A, Braegger CP, Bronsky J, Buderus S, Martín-de-Carpi J, De Ridder L, Fagerberg UL, Hugot JP, Kierkus J, Kolacek S, Koletzko S, Lionetti P, Miele E, Navas López VM, Paerregaard A, Russell RK, Serban DE, Shaoul R, Van Rheenen P, Veereman G, Weiss B, Wilson D, Dignass A, Eliakim A, Winter H, Turner D; European Crohn's and Colitis Organisation; European Society of Pediatric Gastroenterology, Hepatology and Nutrition.

J Crohns Colitis. 2014 Oct;8(10):1179-207.

**Arsenic in Rice - A Cause for Concern. A Comment by the ESPGHAN Committee on Nutrition.**

Hojsak I, Braegger C, Bronsky J, Campoy C, Colomb V, Decsi T, Domellöf M, Fewtrell M, Mis NF, Mihatsch W, Molgaard C, van Goudoever J; ESPGHAN Committee on Nutrition. J Pediatr Gastroenterol Nutr. 2014 Jul 11.

**Malignancy and mortality in pediatric patients with inflammatory bowel disease: a multinational study from the porto pediatric IBD group.**

de Ridder L, Turner D, Wilson DC, Koletzko S, Martin-de-Carpi J, Fagerberg UL, Spray C, Sladek M, Shaoul R, Roma-Giannikou E, Bronsky J, Serban DE, Cucchiara S, Veres G, Ruemmele FM, Hojsak I, Kolho KL, Davies IH, Aloï M, Lionetti P, Veereman-Wauters G, Braegger CP, Trindade E, Wewer AV, Hauer A, Levine A; Porto IBD Working Group of ESPGHAN. Inflamm Bowel Dis. 2014 Feb;20(2):291-300.

**Iron requirements of infants and toddlers.**

Domellöf M, Braegger C, Campoy C, Colomb V, Decsi T, Fewtrell M, Hojsak I, Mihatsch W, Molgaard C, Shamir R, Turck D, van Goudoever J; ESPGHAN Committee on Nutrition. J Pediatr Gastroenterol Nutr. 2014 Jan;58(1):119-29.

**Donor human milk for preterm infants: current evidence and research directions.**

ESPGHAN Committee on Nutrition, Arslanoglu S, Corpeleijn W, Moro G, Braegger C, Campoy C, Colomb V, Decsi T, Domellöf M, Fewtrell M, Hojsak I, Mihatsch W, Mølgaard C, Shamir R, Turck D, van Goudoever J. J Pediatr Gastroenterol Nutr. 2013 Oct;57(4):535-42.

**Vitamin D in the healthy European paediatric population.**

Braegger C, Campoy C, Colomb V, Decsi T, Domellof M, Fewtrell M, Hojsak I, Mihatsch W, Molgaard C, Shamir R, Turck D, van Goudoever J; ESPGHAN Committee on Nutrition. J Pediatr Gastroenterol Nutr. 2013 Jun;56(6):692-701.

**Management of pediatric ulcerative colitis: joint ECCO and ESPGHAN evidence-based consensus guidelines.**

Turner D, Levine A, Escher JC, Griffiths AM, Russell RK, Dignass A, Dias JA, Bronsky J, Braegger CP, Cucchiara S, de Ridder L, Fagerberg UL, Hussey S, Hugot JP, Kolacek S, Kolho KL, Lionetti P, Paerregaard A, Potapov A, Rintala R, Serban DE, Staiano A, Sweeny B, Veerman G, Veres G, Wilson DC, Ruemmele FM; European Crohn's and Colitis Organization; European Society for Paediatric Gastroenterology, Hepatology, and Nutrition. J Pediatr Gastroenterol Nutr. 2012 Sep;55(3):340-61.