

Publications based on the Copenhagen Mother-Child Cohort

(last updated December 2023)

Original papers

1. Hagen CP, Fischer MB, Mola G, Mikkelsen TB, Cleemann LH, Gravholt CH, Viuff M, Juul A, Pedersen AT, Main KM: AMH and other markers of ovarian function in patients with Turner syndrome – a single center experience of transition from pediatric to gynecological follow up. *Frontiers Endocrinol* 2023; 55: 101742
2. Ljubicic M, Busch AS, Upners E, Fischer, MB, Main KM, Andersson AM, Johannsen TH, Casper HP, Juul, A: Dynamic changes in LH/FSH ratios in infants with normal sex development. *Eur J Endocrinol* 2022; 187(1): 135-142
3. Hagen CP, Fischer MB, Wohlfahrt-Veje C, Assens M, Busch AS, Petersen AT, Juul A, Main KM: AMH concentrations in infancy and mid-childhood predict ovarian activity in adolescence: a longitudinal study of healthy girls. *eClinMed* 2022; 55: 101742
4. Tysman M, Toppari J, Main KM, Adamsson A, Wohlfahrt-Veje C, Antignac JP, Bizec BL, Löyttyniemi E, Skakkebaek NE, Virtanen HE: Levels of Persistent Organic Pollutants in Breast Milk Samples Representing Finnish and Danish boys with and without Hypospadias. *Chemosphere* 2022; 313: 137343
5. Holmboe SA, Henriksen LS, Frederiksen H, Andersson AM, Priskorn L, Jørgensen N, Juul A, Toppari J, Skakkebaek NE, Main KM: Prenatal exposure to phenols and benzophenones in relation to markers of male reproductive function in adulthood. *Front Endocrinol* 2022; 13: 1071761
6. Vogel N, Lange R, Schmidt P, Martin LR, Remy S, Springer A, Puklová V, Černá M, Rudnai P, Középesy S, Janasik B, Ligočka B, Fáblová L, Kolena B, Petrovicova I, Jajcaj M, Ešťóková M, Esteban-Lopez M, Castaño A, Tratnik JS, Stajanko A, Knudsen LE, Toppari J, Main KM, Juul A, Andersson AM, Jørgensen N, Frederiksen H, Thomsen C, Sakhi AK, Åkesson A, Hartmann C, Dewolf MC, Koppen G, Biot P, Den Hond E, Voorspoels S, Gilles L, Govarts E, Murawski A, Gerofke A, Weber T, Rüter M, Gutleb A, Guignard C, Belman T, Koch HM, Kolossa-Gehring M: Exposure to Phthalates in European Children, Adolescents and Adults Since 2005: A Harmonized Approach Based on Existing HBM Data in the HBM4EU Initiative. *Toxics*, 2023, in press
7. Kjær ASL, Jensen RB, Petersen JH, Linneberg A, Kårhus LL, Henriksen LS, Johannsen TH, Main KM, Hoffman AR, Juul A: Tracking and Cumulative Lifetime Exposure to IGF-I in 6,459 Healthy Individuals and in SGA Children Treated with GH. *J Clin Endocrinol Metab* 2023; 108(3): 642-652
8. Henriksen LS, Frederiksen H, Jørgensen N, Juul A, Skakkebaek NE, Toppari J, Petersen JH, Main KM: Maternal Phthalate Exposure during Pregnancy and Testis Function of Young Adult Sons. *Science of the Total Environment* 2023; 871: 161914
9. Scheutz Henriksen L, Petersen JH, Skakkebaek NE, Jørgensen N, Virtanen HE, Priskorn L, Juul A, Toppari J, Main KM: Serum testosterone levels in three-month-old boys predict their semen quality as young adults. *J Clin Endocrinol Metab* 2022; 107(7): 1965-1975
10. Rodprasert W, Koskeniemi J, Virtanen HE, Sadov S, Perheentupa A, Ollila H, Andersson AM, Juul A, Skakkebaek NE, Main KM, Toppari J: Reproductive markers of testicular function and size during puberty in boys with and without a history of cryptorchidism. *J Clin Endocrinol Metab* 2022; 107(12): 3353-3361.
11. Kjaer ASL, Petersen JH, Wang AC, Juul K, Schmidt IM, Main KM, Juul A, Jensen RB: Clinical Assessment of Blood Pressure in 60 Girls with Turner Syndrome compared to 1,888 Healthy Danish Girls. *Clin Endocrinol* 2022; 96(3): 428-438
12. Hansen AB, Wørdemann D, Renault C, Pedersen AT, Main KM, Raket LL, Jensen RB, Juul A: Sex steroid action in adolescence. Too much, too little. Too early, too late. *Eur J Endocrinol* 2021; 184(1): R17-R28

13. Thomsen ML, Henriksen LS, Tinggaard J, Nielsen F, Jensen TK, Main KM: Associations between exposure to perfluoroalkyl substances and body fat evaluated by DXA and MRI in 109 adolescent boys. *Environ Health* 2021; 20(1): 73
14. Wohlfahrt-Veje C, Tinggaard J, Juul A, Toppari J, Skakkebaek NE, Main KM: Pubarche and gonadarche onset and progression are differently associated to birth weight and infancy growth pattern. *J Clin Endocrinol Metab* 2021; 5(8): bvab108
15. Upners EN, Busch AS, Almstrup A, Petersen JH, Assens M, Main KM, Jensen RB, Juul A: Does Height and IGF-I determine Pubertal Timing in Girls. *Ped Res* 2021, 90(1): 176-183
16. Johannsen TH, Andersson AM, Ahmed SF, de Rijke YB, Greaves RF, Hartmann MF, Hiort O, Holterhus PM, Krone N, Kulle A, Mastorakos G, McNeilly J, Pereira AM, Saba A, Wudy SA, Main KM, Juul A: Peptide Hormone Analysis in Diagnosis and Treatment of Differences of Sex Development: Joint Position Paper of EU COST Action "DSDnet" and European Reference Network on Rare Endocrine Condition. *Eur J Endocrinol* 2020; 182(6): P1-P15
17. Assens M, Dyre L, Henriksen LS, Brocks V, Sundberg K, Jensen LN, Pedersen AT, Main KM: Menstrual Pattern, reproductive hormones and transabdominal 3D ultrasound in 317 adolescent girls. *J Clin Endocrinol Metab* 2020, 105(9): dgaa355
18. Ljubicic ML, Jespersen K, Aksglaede L, Hagen CP, Petersen JH, Andersen HR, Linneberg A, Main KM, Andersson AM, Johannsen TH, Juul A: The LH/FSH ratio is not a sex-dimorphic marker after infancy: data from 6,418 healthy individuals and 125 patients with Differences of Sex Development. *Hum Reprod* 2020; 35(10): 2323-2335
19. Frederiksen H, Johannsen TH, Andersen ST, Albrethsen JC, Landersøe SK, Petersen JH, Andersen AN, Vestergaard ET, Schorring ME, Linneberg A, Main KM, Andersson AM, Juul A: Sex-specific estrogen levels and reference intervals from infancy to late adulthood determined by LC-MS/MS. *J Clin Endocrinol Metab* 2020; 105(3): 754-768
20. Henriksen LS, Mathiesen B, Assens M, Krause M, Skakkebaek NE, Juul A, Andersson AM, Hart RJ, Newnham JP, Keelan JA, Pennell C, Main KM, Frederiksen H: Use of stored serum in the study of time trends and geographical differences in exposure of pregnant women to phthalates. *Environ Res* 2020, 184: 109231
21. Assens M, Frederiksen H, Petersen JH, Larsen T, Skakkebaek NE, Juul A, Andersson AM, Main KM: Variations in repeated serum concentrations of UV filters, phthalates, phenols and parabens during pregnancy. *Envir Int* 2019; 123: 318-324
22. Skakkebaek NE, Jørgensen N, Andersson AM, Juul A, Main KM, Jensen TK, Toppari J: Reply: Populations, declining fertility and reproductive health. *Lancet* 2019; 393(10180): 1500-1501.
23. Li ZM, Hernandez-Moreno D, Main KM, Skakkebaek NE, Kiviranta H, Toppari J, Feldt-Rasmussen U, Shen H, Schramm KW, De Angelis M: Association of in utero persistent organic pollutant exposure with placental thyroid hormones. *Endocrinol* 2018; 159(1): 3473-3481
24. Johannsen TH, Main KM, Ljubicic ML, Jensen TK, Andersen HR, Andersen MS, Petersen JH5, Andersson A-M, Juul A: Sex-Differences in Reproductive Hormones during Mini-Puberty in Infants with Normal and Disordered Sex Development *J Clin Endocrinol Metab* 2018; 103(8): 3028-3037
25. Li ZM, Giesert F, Vogt-Weisenhorn D, Main KM, Skakkebaek NE, Kiviranta H, Toppari J, Feldt-Rasmussen U, Shen H, Schramm KW, De Angelis M: Determination of thyroid hormones in placenta using isotope-dilution liquid chromatography quadrupole time-of-flight mass spectrometry. *J Chromatogr A* 2018; 1534: 85-92
26. Koskenniemi JJ, Virtanen HE, Wohlfahrt-Veje C, Löyttyniemi E, Skakkebaek NE, Juul A, Andersson AM, Main KM, Toppari J: Postnatal changes in testicular position are associated with IGF-I and function of Sertoli and Leydig cells. *J Clin Endocrinol Metab* 2018; 103(4): 1429-1437

27. Busch AS, Hagen CP, Assens M, Main KM, Almstrup K, Juul A: Differential impact of genetic loci on age at thelarche and menarche in healthy girls, *J Clin Endocrinol Metab* 2018; 103(1): 228-234
28. Greiber IK, Hagen CP, Busch AS, Mieritz MG, Aksglæde L, Main KM, Almstrup K, Juul A: The AMH genotype (rs10407022 T>G) is associated with circulating AMH levels in boys, but not in girls. *Endocrine Connections* 2018; 7(2): 347-354
29. Tinggaard J, Hagen CH, Christensen AN, Mouritsen A, Mieritz MG, Wohlfahrt-Veje C, Helge JW, Beck TN, Fallentin E, Larsen R, Jensen RB, Juul A, Main KM: Anthropometry, DXA and leptin reflect subcutaneous but not visceral abdominal adipose tissue by MRI in 197 healthy adolescents. *Ped Res* 2017, 82(4): 620-628
30. Overgaard LEK, Main KM, Frederiksen H, Stender S, Szecsi P, Williams HC, Thyssen JP: Children with atopic dermatitis and frequent emollient use have increased urinary levels of low molecular weight phthalate metabolites and parabens. *Allergy* 2017; 72(11): 1768-1777
31. Busch AS, Hagen CP, Main KM, Pereira A, Corvalan C, Almstrup K, Mericq V, Juul A: Genetic variation of Follicle-stimulating hormone action is associated with age at testicular growth in boys. *J Clin Endocrinol Metab*, 2017; 102(5): 1740-1749
32. Tinggaard J, Hagen CH, Christensen AN, Mouritsen A, Mieritz MG, Wohlfahrt-Veje C, Helge JW, Beck TN, Fallentin E, Larsen R, Jensen RB, Juul A, Main KM: Anthropometry, DXA and leptin reflect subcutaneous but not visceral abdominal adipose tissue by MRI in 197 healthy adolescents. *Ped Res* 2017, 82(4): 620-628
33. Henriksen LS, Hagen CP, Assens M, Busch AS, Skakkebaek NE, Almstrup K, Main KM: Genetic variations in FSH action affect sex hormone levels and breast tissue size in infant girls: a pilot study. *J Clin Endocrinol Metab* 2016, 101 (8): 3191-3198
34. Antignac JP, Main KM, Virtanen HE, Boquien CY, Marchand P, Venisseau A, Guiffard I, Bichon E, Wohlfahrt-Veje C, Legrand A, Boscher C, Skakkebaek NE, Toppari J, Le Bizec B: Country-specific chemical signatures of persistent organic pollutants (POPs) in breast milk of French, Danish and Finnish women. *Environ Pollut* 2016, 218: 728-738
35. Sadov S, Koskenniemi JJ, Virtanen HE, Perheentupa A, Petersen JH, Skakkebaek NE, Main KM, Toppari J: Testicular growth during puberty in boys with and without a history of congenital cryptorchidism. *J Clin Endocrinol Metab* 2016, 101(6): 2570-2577
36. Wohlfahrt-Veje C, Mouritsen AK, Hagen CP, Tinggaard J, Mieritz MG, Boas M, Petersen JH, Skakkebaek NE, Main KM: Pubertal onset in boys and girls is influenced by pubertal timing of both parents. *J Clin Endocrinol Metab* 2016, 101(7): 2643-2646
37. Fugl L, Hagen CH, Gieritz MG, Tinggaard J, Fallentin E, Main KM, Juul A: Glandular breast tissue volume by MRI in 100 healthy peripubertal girls- evaluation of clinical Tanner staging. *Ped Res* 2016, 80 (4): 526-530
38. Busch AS, Hagen CP, Almstrup K, Main KM, Juul A: Genetic variations altering FSH action affect circulating hormone levels as well as follicle growth in healthy peripubertal girls. *Hum Reprod* 2016, 31(4):897-904.
39. Koskenniemi JJ, Virtanen HE, Kiviranta H, Damgaard IN, Matomäki J, Thorup JM, Hurme T, Skakkebaek NE, Main KM, Toppari J: Association between levels of persistent organic pollutants in adipose tissue and cryptorchidism in early childhood: a case-control study. *Environ Health* 2015; 14:78
40. Hagen CP, Mouritsen A, Mieritz MG, Tinggaard J, Wohlfahrt-Veje C, Fallentin E, Brocks V, Sundberg K, Jensen LN, Juul A, Main KM: Uterine volume and endometrial thickness in healthy girls evaluated by ultrasound (3D) and magnetic resonance imaging. *Fertil Steril* 2015, 104(2):452-459
41. Lunding SA, Aksglæde L, Andersen RA, Main KM, Juul A, Hagen CP, Pedersen AT: AMH as predictor of premature ovarian insufficiency: a longitudinal study of 120 Turner syndrome patients. *J Clin Endocrinol Metab* 2015, 100(7):E1030-8.
42. Hagen CP, Mouritsen A, Mieritz MG, Tinggaard J, Wohlfahrt-Veje C, Fallentin E, Brocks V, Sundberg K,

Jensen LN, Anderson RA, Juul A, Main KM: Circulating AMH reflects ovarian morphology by Magnetic Resonance Imaging and 3D-ultrasound in 121 healthy girls. *J Clin Endocrinol Metab* 2015, 100(3):880-90

43. Søbørg T, Frederiksen H, Mouritsen A, Johannsen TH, Main KM, Jørgensen N, Petersen JH, Andersson AM, Juul A: Sex, age and pubertal development and use of oral contraceptives in relation to serum concentrations of DHEA, DHEAS, 17 α -hydroxy progesterone, Δ 4 androstendione, testosterone and their ratios in children, adolescents and young adults. *Clin Chim Acta* 2014; 437: 6-13
44. Hagen CP, Sørensen K, Aksglaede L, Mouritsen A, Mieritz MG, Tinggaard J, Wohlfahrt-Veje C, Petersen JH, Main KM, Rajpert-De Meyts E, Almstrup K, Juul A: Pubertal onset in girls is strongly influenced by genetic variation affecting FSH action. *Scientific Reports* 2014; 18 (4): 6412
45. Rasmussen AR, Wohlfahrt-Veje C, Tefre de Renzy_Martin K, Hagen C, Tinggaard J, Mouritsen A, Mieritz MG, Main KM: Validity of self-assessment of pubertal maturation in 898 Danish children. *Pediatr* 2014, 135(1): 86-93
46. Jørgensen A, Nellemann C, Wohlfahrt-Veje C, Jensen TK, Main KM, Andersen HR: Interaction between paraoxonase 1 polymorphism and prenatal pesticide exposure on metabolic markers in children using a multiplex approach. *Reprod Toxicol* 2014, 51C: 22-30
47. Tinggaard J, Aksglaede L, Sørensen K, Mouritsen A, Wohlfahrt-Veje C, Hagen CP, Mieritz MG, Jørgensen N, Wolthers OD, Heuck C, Petersen JH, Main KM, Juul A: The 2014 Danish references from birth to 20 years for height, weight and body mass index. *Acta Paediatr* 2014; 103: 214-224
48. Wohlfahrt-Veje C, Tinggaard J, Winther K, Mouritsen A, Hagen CP, Mieritz MG, Tefre de Renzy-Martin K, Boas M, Petersen JH, Main KM: Body fat throughout childhood in 2647 healthy Danish children: validity of skinfold measurements and BMI versus Dual energy X-ray Absortometry (DXA). *Eur J Clin Nutrition* 2014; 68(6): 664-670
49. Wohlfahrt-Veje C, Audouze K, Brunak S, Antignac JP, Le Bizec B, Juul A, Skakkebaek NE, Main KM: Polychlorinated dibenzo-p-dioxins, furans and biphenyls (PCDDs/PCDFs, PCBs) in breast milk and early childhood growth and IGF-I. *Reproduction* 2014; 147 (4): 391-399
50. Vesterholm DJ, Christensen JS, Virtanen HE, Skakkebaek NE, Main KM, Toppari J, Veje CW, Andersson AM, Nielsen F, Grandjean P, Jensen TK: No association between exposure to perfluorinated compounds and congenital cryptorchidism: a nested case-control study among 215 boys from Denmark and Finland. *Reproduction* 2014; 147 (4): 411-417
51. Frederiksen H, Jensen TK, Jørgensen N, Husby S, Skakkebaek NE, Main KM, Juul A, Andersson AM: Human urinary excretion of non-persistent Environmental chemicals: an overview of Danish data collected 2006-2012. *Reproduction* 2014; 147 (4): 555-565
52. Mouritsen A, Johansen ML, Wohlfahrt-Veje C, Hagen CP, Tinggaard J, Mieritz MG, Tefre de RenzyMartin K, Søborg T, Fallentin E, Juul A, Main KM: Determination of adrenal volume by MRI in healthy children: associations to age, body size, pubertal stage and serum levels of adrenal androgens. *Clin Endocrinol* 2014; 81(2): 183-189
53. Rantakokko P, Main KM, Wohlfahrt Veje C, Kiviranta H, Airaksinen R, Vartiainen T, Skakkebaek NE, Toppari J, Virtanen HE: Association of placenta organotin concentrations with growth and ponderal index in 110 newborn boys from Finland during the first 18 months of life: a cohort study. *Environ Health* 2014; 13 (1): 45
54. Hagen CP, Aksglaede L, Sørensen K, Mouritsen A, Mieritz MG, Main KM, Petersen JH, Almstrup A, Rajpert-De Meyts E, Anderson RA, Juul A: FSHB -211 and FSHR 2039 are associated with serum levels of follicle-stimulating hormone and anti-Müllerian hormone in healthy girls: a longitudinal cohort study. *Fert Steril* 2013; 100(4): 1089-1095
55. Frederiksen H, Aksglaede L, Sorensen K, Nielsen O, Main KM, Skakkebaek NE, Juul A, Andersson AM: Bisphenol A and other phenols in urine from Danish children and adolescents analyzed by isotope diluted TurboFlow-LC-MS/MS. *Int J Hyg Environ Health* 2013; 216(6): 710-720

56. Rantakokko P, Main KM, Wohlfahrt-Veje C, Kiviranta H, Airaksinen R, Vartiainen T, Skakkebaek NE, Toppari J, Virtanen HE: Association of Placenta Organotin Concentrations with congenital Cryptorchidism and reproductive hormone levels in 280 Newborn Boys from Denmark and Finland. *Human Reprod* 2013; 28(6): 1647-1660
57. Juul A, Hagen C, Aksglæde L, Sørensen K, Mouritsen A, Frederiksen H, Main KM, Sloth-Mogensen S, Petersen AT. Endocrine evaluation of reproductive function in girls during infancy, childhood and adolescence. *Endocr Dev* 2012; 22: 24-39
58. Andersen HR, Wohlfahrt-Veje, Dalgård C, Christiansen L, Main KM, Nellemann C, Murata K, Jensen TK, Skakkebaek NE, Grandjean P: Paraoxonase 1 Polymorphism and Prenatal Pesticide Exposure Associated with Adverse Cardiovascular Risk Profiles at School Age. *PLoS ONE* 2012; 7: e36830
59. Wohlfahrt-Veje C, Andersen HR, Jensen TK, Grandjean P, Skakkebaek NE, Main KM: Smaller genitals at school age in boys whose mothers were exposed to non-persistent pesticides in early pregnancy. *Int J Androl* 2012; 35: 265-272
60. Krysiak-Baltyn-K, Toppari J, Skakkebaek NE, Jensen TS, Virtanen HE, Schramm K-W, Shen H, Vartiainen T, Kiviranta H, Taboureau O, Audouze K, Brunak S, Main KM: Association between chemical pattern in breast milk and congenital cryptorchidism: modelling of complex exposures. *Int J Androl* 2012; 35: 294-302
61. Virtanen HE, Koskenniemi JJ, Sundqvist E, Main KM, Kiviranta H, Tuomisto JT, Tuomisto J, Viluksela M, Vartiainen T, Skakkebaek NE, Toppari: Associations between congenital cryptorchidism in newborn boys and levels of dioxins and PCBs in placenta. *Int J Androl* 2012; 35: 283-293
62. Hagen CP, Aksglæde L, Sørensen K, Mouritsen A, Andersson AM, Petersen JH, Main KM, Juul A: Individual serum levels of anti-Müllerian hormone in healthy girls persist through childhood and adolescence: a longitudinal cohort. *Hum Reprod* 2012; 27: 861-866
63. Wohlfahrt-Veje C, Andersen HR, Schmidt IM, Aksglæde L, Sørensen K, Juul A, Jensen TK, Grandjean P, Skakkebaek NE, Main KM: Early breast development in girls after prenatal exposure to non-persistent pesticides. *Int J Androl* 2012; 35: 273-282
64. Wohlfahrt-Veje C, Main KM, Schmidt IM, Boas M, Jensen TK, Grandjean P, Skakkebaek NE, Andersen HR. Lower birth weight and increased body fat at school age in children prenatally exposed to modern pesticides: A prospective study. *Environ Health*. 2011 Sep 20;10(1):79.
65. Aksglaede L, Christiansen P, Sørensen K, Boas M, Linneberg A, Main KM, Andersson AM, Skakkebaek NE, Juul A. Serum concentrations of Anti-Müllerian Hormone (AMH) in 95 patients with Klinefelter syndrome with or without cryptorchidism. *Acta Paediatr*. 2011 Jun;100(6):839-45.
66. Kristensen DM, Hass U, Lesné L, Lottrup G, Jacobsen PR, Desdoits-Lethimonier C, Boberg J, Petersen JH, Toppari J, Jensen TK, Brunak S, Skakkebaek NE, Nellemann C, Main KM, Jégou B, Leffers H. Intrauterine exposure to mild analgesics is a risk factor for development of male reproductive disorders in human and rat. *Hum Reprod*. 2011 Jan;26(1):235-44.
67. Aksglaede L, Sørensen K, Boas M, Mouritsen A, Hagen CP, Jensen RB, Petersen JH, Linneberg A, Andersson AM, Main KM, Skakkebaek NE, Juul A. Changes in anti-Müllerian hormone (AMH) throughout the life span: a population-based study of 1027 healthy males from birth (cord blood) to the age of 69 years. *J Clin Endocrinol Metab*. 2010 Dec;95(12):5357-64.
68. Hagen CP, Main KM, Kjaergaard S, Juul A. FSH, LH, inhibin B and estradiol levels in Turner syndrome depend on age and karyotype: longitudinal study of 70 Turner girls with or without spontaneous puberty. *Hum Reprod*. 2010 Dec;25(12):3134-41.
69. Hagen CP, Aksglaede L, Sørensen K, Main KM, Boas M, Cleemann L, Holm K, Gravholt CH, Andersson AM, Pedersen AT, Petersen JH, Linneberg A, Kjaergaard S, Juul A. Serum Levels of Anti-Müllerian Hormone as a Marker of Ovarian Function in 926 Healthy Females from Birth to Adulthood and in 172 Turner Syndrome Patients. *J Clin Endocrinol Metab*. 2010 Nov;95(11):5003-10.

70. Boas M, Frederiksen H, Feldt-Rasmussen U, Skakkebaek NE, Hegedüs L, Hilsted L, Juul A, Main KM. Childhood Exposure to Phthalates - Associations with Thyroid Function, Insulin-like Growth Factor I (IGF-I) and Growth. *Environ Health Perspect.* 2010 Oct;118(10):1458-64
71. Krysiak-Baltyn K, Toppari J, Skakkebaek NE, Jensen TS, Virtanen HE, Schramm KW, Shen H, Vartiainen T, Kiviranta H, Taboureau O, Brunak S, Main KM. Country-specific chemical signatures of persistent environmental compounds in breast milk. *Int J Androl.* 2010 Apr;33(2):270-8.
72. Boas M, Forman JL, Juul A, Feldt-Rasmussen U, Skakkebaek NE, Hilsted L, Chellakooty M, Larsen T, Larsen JF, Petersen JH, Main KM. Narrow intra-individual variation of maternal thyroid function in pregnancy based on a longitudinal study on 132 women. *Eur J Endocrinol.* 2009 Dec;161(6):903-10.
73. Boas M, Hegedüs L, Feldt-Rasmussen U, Skakkebaek NE, Hilsted L, Main KM. Association of thyroid gland volume, serum insulin-like growth factor-I, and anthropometric variables in euthyroid prepubertal children. *J Clin Endocrinol Metab.* 2009 Oct;94(10):4031-5.
74. Wohlfahrt-Veje C, Boisen KA, Boas M, Damgaard IN, Kai CM, Schmidt IM, Chellakooty M, Suomi AM, Toppari J, Skakkebaek NE, Main KM. Acquired cryptorchidism is frequent in infancy and childhood. *Int J Androl.* 2009 Aug;32(4):423-8.
75. Damgaard IN, Jensen TK; Nordic Cryptorchidism Study Group, Petersen JH, Skakkebaek NE, Toppari J, Main KM. Risk factors for congenital cryptorchidism in a prospective birth cohort study. *PLoS One.* 2008 Aug 25;3(8):e3051.
76. Mau Kai C, Juul A, McElreavey K, Ottesen AM, Garn ID, Main KM, Loft A, Jørgensen N, Skakkebaek NE, Andersen AN, Rajpert-De Meyts E. Sons conceived by assisted reproduction techniques inherit deletions in the azoospermia factor (AZF) region of the Y chromosome and the DAZ gene copy number. *Hum Reprod.* 2008 Jul;23(7):1669-78.
77. Andersen HR, Schmidt IM, Grandjean P, Jensen TK, Budtz-Jørgensen E, Kjaerstad MB, Baelum J, Nielsen JB, Skakkebaek NE, Main KM. Impaired reproductive development in sons of women occupationally exposed to pesticides during pregnancy. *Environ Health Perspect.* 2008 Apr;116(4):566- 72.
78. Shen H, Main KM, Andersson AM, Damgaard IN, Virtanen HE, Skakkebaek NE, Toppari J, Schramm KW. Concentrations of persistent organochlorine compounds in human milk and placenta are higher in Denmark than in Finland. *Hum Reprod.* 2008 Jan;23(1):201-10.
79. Main KM, Kiviranta H, Virtanen HE, Sundqvist E, Tuomisto JT, Tuomisto J, Vartiainen T, Skakkebaek NE, Toppari J. Flame retardants in placenta and breast milk and cryptorchidism in newborn boys. *Environ Health Perspect.* 2007 Oct;115(10):1519-26.
80. Bay K, Virtanen HE, Hartung S, Ivell R, Main KM, Skakkebaek NE, Andersson AM; Nordic Cryptorchidism Study Group, Toppari J. Insulin-like factor 3 levels in cord blood and serum from children: effects of age, postnatal hypothalamic-pituitary-gonadal axis activation, and cryptorchidism. *J Clin Endocrinol Metab.* 2007 Oct;92(10):4020-7.
81. Teilmann G, Boas M, Petersen JH, Main KM, Gormsen M, Damgaard K, Brocks V, Skakkebaek NE, Jensen TK. Early pituitary-gonadal activation before clinical signs of puberty in 5- to 8-year-old adopted girls: a study of 99 foreign adopted girls and 93 controls. *J Clin Endocrinol Metab.* 2007 Jul;92(7):2538-44.
82. Mau Kai C, Main KM, Andersen AN, Loft A, Skakkebaek NE, Juul A. Reduced serum testosterone levels in infant boys conceived by intracytoplasmic sperm injection. *J Clin Endocrinol Metab.* 2007 Jul;92(7):2598-603.
83. Aksglæde L, Main KM, Skakkebaek NE, Juul A: High normal testosterone levels in infants with non-mosaic Klinefelters syndrome. *Eur J Endocrinol* 2007, 157: 345-50
84. Damgaard IN, Jensen TK, Petersen JH, Skakkebaek NE, Toppari J, Main KM. Cryptorchidism and maternal alcohol consumption during pregnancy. *Environ Health Perspect.* 2007 Feb;115(2):272-7.

85. Shen H, Main KM, Virtanen HE, Damgaard IN, Haavisto AM, Kaleva M, Boisen KA, Schmidt IM, Chellakooty M, Skakkebaek NE, Toppari J, Schramm KW. From mother to child: investigation of prenatal and postnatal exposure to persistent bioaccumulating toxicants using breast milk and placenta biomonitoring. *Chemosphere*. 2007 Apr;67(9):S256-62.
86. Virtanen HE, Tapanainen AE, Kaleva MM, Suomi AM, Main KM, Skakkebaek NE, Toppari J. Mild gestational diabetes as a risk factor for congenital cryptorchidism. *J Clin Endocrinol Metab*. 2006 Dec;91(12):4862-5.
87. Kai CM, Main KM, Andersen AN, Loft A, Chellakooty M, Skakkebaek NE, Juul A. Serum insulin-like growth factor-I (IGF-I) and growth in children born after assisted reproduction. *J Clin Endocrinol Metab*. 2006 Nov;91(11):4352-60.
88. Damgaard IN, Skakkebaek NE, Toppari J, Virtanen HE, Shen H, Schramm KW, Petersen JH, Jensen TK, Main KM; Nordic Cryptorchidism Study Group. Persistent pesticides in human breast milk and cryptorchidism. *Environ Health Perspect*. 2006 Jul;114(7):1133-8.
89. Main KM, Toppari J, Suomi AM, Kaleva M, Chellakooty M, Schmidt IM, Virtanen HE, Boisen KA, Kai CM, Damgaard IN, Skakkebaek NE. Larger testes and higher inhibin B levels in Finnish than in Danish newborn boys. *J Clin Endocrinol Metab*. 2006 Jul;91(7):2732-7.
90. Main KM, Mortensen GK, Kaleva MM, Boisen KA, Damgaard IN, Chellakooty M, Schmidt IM, Suomi AM, Virtanen HE, Petersen DV, Andersson AM, Toppari J, Skakkebaek NE. Human breast milk contamination with phthalates and alterations of endogenous reproductive hormones in infants three months of age. *Environ Health Perspect*. 2006 Feb;114(2):270-6.
91. Suomi AM, Main KM, Kaleva M, Schmidt IM, Chellakooty M, Virtanen HE, Boisen KA, Damgaard IN, Kai CM, Skakkebaek NE, Toppari J. Hormonal changes in 3-month-old cryptorchid boys. *J Clin Endocrinol Metab*. 2006 Mar;91(3):953-8.
92. Chellakooty M, Juul A, Boisen KA, Damgaard IN, Kai CM, Schmidt IM, Petersen JH, Skakkebaek NE, Main KM. A prospective study of serum insulin-like growth factor I (IGF-I) and IGF-binding protein-3 in 942 healthy infants: associations with birth weight, gender, growth velocity, and breastfeeding. *J Clin Endocrinol Metab*. 2006 Mar;91(3):820-6.
93. Boas M, Boisen KA, Virtanen HE, Kaleva M, Suomi AM, Schmidt IM, Damgaard IN, Kai CM, Chellakooty M, Skakkebaek NE, Toppari J, Main KM. Postnatal penile length and growth rate correlate to serum testosterone levels: a longitudinal study of 1962 normal boys. *Eur J Endocrinol*. 2006 Jan;154(1):125-9.
94. Schmidt IM, Chellakooty M, Boisen KA, Damgaard IN, Mau Kai C, Olgaard K, Main KM. Impaired kidney growth in low-birth-weight children: distinct effects of maturity and weight for gestational age. *Kidney Int*. 2005 Aug;68(2):731-40.
95. Shen H, Virtanen HE, Main KM, Kaleva M, Andersson AM, Skakkebaek NE, Toppari J, Schramm KW. Enantiomeric ratios as an indicator of exposure processes for persistent pollutants in human placentas. *Chemosphere*. 2006 Jan;62(3):390-5.
96. Kaleva M, Virtanen H, Haavisto AM, Main K, Skakkebaek NE, Huhtaniemi I, Irjala K, Toppari J. Does variant luteinizing hormone (V-LH) predispose to improper testicular position in late pregnancy? *Pediatr Res*. 2005 Sep;58(3):447-50.
97. Mortensen GK, Main KM, Andersson AM, Leffers H, Skakkebaek NE. Determination of phthalate monoesters in human milk, consumer milk, and infant formula by tandem mass spectrometry (LC-MS-MS). *Anal Bioanal Chem*. 2005 Jun;382(4):1084-92.
98. Boisen KA, Chellakooty M, Schmidt IM, Kai CM, Damgaard IN, Suomi AM, Toppari J, Skakkebaek NE, Main KM. Hypospadias in a cohort of 1072 Danish newborn boys: prevalence and relationship to placental weight, anthropometrical measurements at birth, and reproductive hormone levels at three months of age. *J Clin Endocrinol Metab*. 2005 Jul;90(7):4041-6.

99. Shen H, Main KM, Kaleva M, Virtanen H, Haavisto AM, Skakkebaek NE, Toppari J, Schramm KW. Prenatal organochlorine pesticides in placentas from Finland: exposure of male infants born during 1997- 2001. *Placenta*. 2005 Jul;26(6):512-4.
100. Kaleva M, Virtanen HE, Haavisto AM, Main KM, Reunanen M, Skakkebaek NE, Toppari J. Circannual rhythm in the incidence of cryptorchidism in Finland. *Int J Androl*. 2005 Feb;28(1):53-7.
101. Boisen KA, Kaleva M, Main KM, Virtanen H, Haavisto AM, Schmidt IM, Chellakooty M, Damgaard IN, Mau C, Reunanen M, Skakkebaek NE, Toppari J. [High and increasing prevalence of cryptorchidism in Denmark]. *Ugeskr Laeger*. 2004 Nov 22;166(48):4372-5. Danish.
102. Schmidt IM, Damgaard IN, Boisen KA, Mau C, Chellakooty M, Olgaard K, Main KM. Increased kidney growth in formula-fed versus breast-fed healthy infants. *Pediatr Nephrol*. 2004 Oct;19(10):1137-44.
103. Schmidt IM, Main KM, Damgaard IN, Mau C, Haavisto AM, Chellakooty M, Boisen KA, Petersen JH, Scheike T, Olgaard K. Kidney growth in 717 healthy children aged 0-18 months: a longitudinal cohort study. *Pediatr Nephrol*. 2004 Sep;19(9):992-1003.
104. Boisen KA, Kaleva M, Main KM, Virtanen HE, Haavisto AM, Schmidt IM, Chellakooty M, Damgaard IN, Mau C, Reunanen M, Skakkebaek NE, Toppari J. Difference in prevalence of congenital cryptorchidism in infants between two Nordic countries. *Lancet*. 2004 Apr 17;363(9417):1264-9.
105. Chellakooty M, Vangsgaard K, Larsen T, Scheike T, Falck-Larsen J, Legarth J, Andersson AM, Main KM, Skakkebaek NE, Juul A. A longitudinal study of intrauterine growth and the placental growth hormone (GH)- insulin-like growth factor I axis in maternal circulation: association between placental GH and fetal growth. *J Clin Endocrinol Metab*. 2004 Jan;89(1):384-91.
106. Chellakooty M, Schmidt IM, Haavisto AM, Boisen KA, Damgaard IN, Mau C, Petersen JH, Juul A, Skakkebaek NE, Main KM. Inhibin A, inhibin B, follicle-stimulating hormone, luteinizing hormone, estradiol, and sex hormone-binding globulin levels in 473 healthy infant girls. *J Clin Endocrinol Metab*. 2003 Aug; 88(8):3515- 20.
107. Schmidt IM, Chellakooty M, Haavisto AM, Boisen KA, Damgaard IN, Steendahl U, Toppari J, Skakkebaek NE, Main KM. Gender difference in breast tissue size in infancy: correlation with serum estradiol. *Pediatr Res*. 2002 Nov; 52(5):682-6.
108. Virtanen H, Kaleva M., Haavisto A-M, Main KM, Skakkebaek NE, Toppari J: The birth rate of hypospadias in the Turku area in Finland. *APMIS*, 2001, 109: 96-100

Reviews, editorials, and proceedings

1. Hansen AB, Wøjdemann D, Renault C, Pedersen AT, Main KM, Raket LL, Jensen RB, Juul A: Sex steroid action in adolescence. Too much, too little. Too early, too late. *Eur J Endocrinol* 2021; 184(1): R17-R28
2. Skakkebaek NE, Lindahl-Jacobsen R, Levine H, Andersson AM, Jørgensen N, Main KM, Lindegaard Ø, Priskorn L, Holmboe S, Bräuner E, Almstrup K, Franca L, Znaor A, Kortenkamp A, Hart R, Juul A: Environmental Factors in declining human fertility. *Nat Rev Endocrinol* 2022; 18(3): 139-157
3. Virtanen HE, Main KM, Toppari J: Associations of endocrine disrupting chemicals with male reproductive health. In: Huhtaniemi I, editor: *Encyclopedia of Endocrine Diseases*, 2nd edition, Kidlington, UK, Cambridge, MA: Oxford Academic Press; Elsevier Inc; 2019; 1:802-811
4. Rodprasert W, Main KM, Toppari, Virtanen HE: Associations between male reproductive health and exposure to endocrine disrupting chemicals. *Current Opinion in Endocrine and Metabolic Research* 2019, in press Kristensen DM, Mazaud-Guittot S, Gaudriault P, Serrano T, Main KM, Jégou B: Use of paracetamol and NSAIDs: prevalence, biomonitoring, endocrine and reproductive effects. *Nature Rev*

Endocrinol 2016; 12 (7): 381-393

5. Overgaard LEK, Bonefeld CM, Frederiksen H, Main KM, Thyssen JP: The association between phthalate exposure and atopic dermatitis with a discussion of phthalate induced secretion of interleukin-1 β and thymic stromal lymphopoietin. *Expert Review of Clinical Immunology*, 2016; 12 (6): 609-616
6. Juul A, Almstrup K, Andersson AM, Jensen TK, Jørgensen N, Main KM, Rajpert- De Meyts E, Toppari J, Skakkebaek NE: Possible fetal determinants of male infertility. *Nature Rev Endocrinol* 2014; 10 (9): 553-562
7. Lindhardt Johansen M, Hagen CP, Johannsen TH, Main KM, Picard JY, Jørgensen A, Rajpert-De Meyts E, Juul A: Anti-Müllerian Hormone and Its Clinical Use in Pediatrics with special emphasis on disorders of sex development. *Int J Endocrinol* 2013; 2013: 198698
8. Virtanen HE, Sadov S, Toppari J: Prenatal exposure to smoking and male reproductive health. *Curr Opin Endocrinol Diabetes Obes* 2012; 19: 228-232
9. Boas M, Feldt-Rasmussen U, Main KM. Thyroid effects of endocrine disrupting chemicals. *J Mol Cell Endocrinol*, 2012; 355: 240-8
10. Toppari J, Adamsson A, Boas M, Juul A, Main KM, Skakkebaek NE, Virtanen HE. Possible developmental early effects of endocrine disrupters on child health. WHO report 2012. Pages 1-83. ISBN 9789241503761
11. Bay K, Main KM, Toppari J, Skakkebaek NE: Testicular descent: INSL-3, testosterone, genes and the intrauterine milieu. *Nature Rev Urol* 2011; 8: 187-196
12. Juul A, Main KM, Skakkebaek NE: Disorders of sex development- the tip of the iceberg? *Nature Rev Endocrinol* 2011; 7:504-505
13. Feldt-Rasmussen U, Bliddal Mortensen AS, Rasmussen ÅK, Boas M, Hilsted L, Main KM: Challenges in interpretation of thyroid function tests in pregnant women with autoimmune thyroid disease. *J Thyroid Res* 2011; 10: 2011: 598712
14. Hartoft-Nielsen ML, Boas M, Bliddal S, Rasmussen AK, Main KM, Feldt-Rasmussen U: Do thyroid disrupting chemicals influence foetal development during pregnancy? *J Thyr Res* 2011; 2011: 342189
15. Main KM, Toppari J, Skakkebaek NE: Genital anomalies in boys and the Environment. *Best Pract Res Clin Endocrinol Metab* 2010; 24(2): 279-289
16. Toppari J, Virtanen HE, Main KM, Skakkebaek NE: Cryptorchidism and hypospadias as a sign of testicular dysgenesis syndrome (TDS) – Environmental connection. *Birth Defects Res A Clin Mol Teratol* 2010; 88(10): 910-919
17. Main KM, Skakkebaek NE; Toppari J: Cryptorchidism as part of the testicular dysgenesis syndrome: the Environmental connection. *Endocr Dev* 2009; 14: 167-173
18. Main KM: Phthalate monoesters and infant reproductive health. *Gesundheitswesen* 2008; 70 Suppl 1: S46-S48.
19. Toppari J, Kaleva M, Virtanen HE, Main KM, Skakkebaek NE: Luteinizing hormone in testicular descent. *Mol Cell Endocrinol* 2007; 269(1-2): 34-37
20. Toppari J, Virtanen H, Skakkebaek NE, Main KM: Environmental effects on hormonal regulation of testicular descent. *J Steroid Biochem Mol Biol* 2006; 102(1-5): 184-186

21. Lottrup G, Andersson AM, Leffers H, Mortensen GK, Toppari J, Skakkebaek NE, Main KM: Possible impact of phthalates on infant reproductive health. *Int J Androl* 2006; 29(1):172-180
22. Main KM, Jensen RB, Asklund C, Høi-Hansen CE, Skakkebaek NE: Low birth weight and male reproductive function. *Horm Res* 2006; 65 Suppl.3: 116-22
23. Main KM, Toppari J, Skakkebaek NE: Gonadal development and reproductive hormones in infant boys. *Eur J Endocrinol* 2006; 155 (Suppl 1): S51-S57