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Curriculum vitae

Education

1991	Graduated in medicine, University of Copenhagen
1995	Ph.D. degree, University of Copenhagen
1996	Authorisation as medical doctor (Danish Health Authorities)
2002	Specialist in Paediatrics (Danish Health Authorities)
2003	Doctoral dissertation (Dr.med.), University of Copenhagen
2005	Expert in Medical Andrology (certified Europ Academy Andrology)
2012	Expert in Paediatric Endocrinology (certified Danish Paediatric Soc)

Current and most recent positions held

1991-94	Research assistant/PhD student, Dept. of Growth and Reproduction, Rigshospitalet
1994-96	Basic Clinical Training (urology, cardiology, general practitioner)
1996-97	Paediatric Training, Dept. Paediatrics, Glostrup University Hospital
1998-02	Paediatric Training, Dept. of Paediatrics, Rigshospitalet
2002-04	Consultant (afdelingslæge), Dept. of Growth and Reproduction, Rigshospitalet
2003-	Clinical Research Assoc Professor, University of Copenhagen
2004-	Consultant (overlæge), Dept. of Growth and Reproduction, Rigshospitalet
2006-	Head of Department, Dept. of Growth and Reproduction, Rigshospitalet
2007-	Full clinical Professor, Rigshospitalet & University of Copenhagen
2013-	Coordinating Professor, JMC, Rigshospitalet and University of Copenhagen

Academic awards and honours

The European Society of Paediatric Endocrinology Research Award 2015

Clinical Expertise

In my outpatient clinic I manage children as well as adult males with rare endocrine disorders. I am considered an international expert in clinical management of patients with Klinefelter syndrome, pituitary and growth disorders, mixed gonadal dysgenesis and puberty disorders

Scientific qualifications

Research bibliometry:
H-index: 80 (Web of Science, Nov 1., 2018), (SCOPUS, March 2023)
Peer-reviewed publications: 615

Scientific focus areas

Current research areas include:

- 1) Timing and regulation of normal puberty and its disorders
- 2) Disorders of Sex Development (DSD); 47XXY, 45X, 45X/46XY, CAH, PAIS, CHH.
- 3) Effect of intrauterine growth retardation on postnatal growth, puberty and reproduction
- 4) Relation between IGF-I, reproductive hormones and adult lifestyle diseases,
- 5) Genetic and epigenetic modifications, pubertal timing, and gonadal function

6) Endocrine disrupting chemicals and endogenous hormones, puberty timing and reproductive function in children and adults

Programme Organizing committees

- ESPE Symposium "Use and misuse of GH", Firenze, 1998
- ESPE consensus workshop "The GHD adolescent in transition to adult care", UK, 2003
- Pituitary course (Paediatric, Endocrine and Neurosurgical societies), Denmark 2004-
- European congress of endocrinology (ECE), Berlin 2008
- 16th world Congress of Pediatric and Adolescent Gynecology, Montpellier 2010
- 1st International Workshop on Klinefelter syndrome, Copenhagen May 2010
- Copenhagen Workshop on Endocrine Disruptors. May 2013
- Endocrine Society Annual Meeting Steering Committee (2018-2020)
- Dronning Louises Børnehospitals Grant committee (2001-2010)
- Anti Doping Danmarks udvalg for forskning og medicin (2004-)
- Rigshospitalets Research council (2007-2013)
- ESPE Research Fellowship Grant Committee (secretary) (1999-2012)

Administrative experience

- Scientific consultant for Diagnostic Systems Laboratories, Inc, USA. 1995-1997
- ESPE Drugs and Therapeutics Committee (DTC) (1999-2005)
- Scientific Secretary Endocrinology committee Danish Paediatric Society (1998-2002)
- Chairman Endocrinology committee Danish Paediatric Society (2002-2004)
- Medical Expert in Medical committee (TUE), Anti Doping Danmark (2004-14)
- Director University Research Cluster for "Fetal Environment and Postnatal Disease" University of Copenhagen (2005-10)
- Coordinator on Danish Network for Endocrine Disruption (DAN-ED) (DSF grant 2005-9)
- Head of Department (2006 -), Dept Growth and Reproduction, Rigshospitalet
- Steering committee "ReproSund" 2009-2012, and "ReproHigh" 2012-2015
- Participant HS leadership programme (2005-6; team 10)
- Participant RegionH leadership programme "ledelse af ledere", 2012 (12.5 days)
- Chairman, Internationaliseringspuljen, Institute of Clinical Medicine (2016 -)
- Steering committee, Rigshospitalets assoc for professors (professorsammenslutningen)
- Steering committee, and Co-chairman European Reference Network ENDO ERN, Work package on laboratory diagnostics and genetics (may 2016-) web: <https://endo-ern.eu/>
- Rigshospitalets Research Strategic Council (forskningsstrategisk råd) (2017-)

International research relations

Principal investigator on North European Multicenter clinical trial on GH treatment of short SGA children (NESGAS). National representative in EU COST consortia (DSD and GnRH deficiency), part of numerous international research collaborations with top international scientists from Harvard (professor Lanske), Turku (professor Toppari), Glasgow (professor Ahmed) and Cambridge Universities (professor Dunger, MRC programme leaders Ong and Perry)

Supervision of students

Supervisor of 29 Ph.D. students, herof 11 ongoing, and 18 successfully completed and numerous master students. Reviewer on 22 PhD theses and 6 doctoral theses.

Dissertations (PhD and Doctoral Dissertation)

Juul, A. (2003). *Serum levels of insulin-like growth factor I and its binding proteins in health and disease*. København: Eget forlag.

Juul, A. (1995). *Serum levels of IGF-I and IGFBP-3 in healthy children, adolescents and adults; Methodological aspects and definition of reference values with special emphasis on puberty*. København: Eget forlag.

Publications (peer reviewed)

Albrethsen, J., Østergren, P. B., Norup, P. B., Sønksen, J., Fode, M., Kistorp, C., Nordsborg, N. B., Solheim, S. A., Mørkeberg, J., Main, K. M., & Juul, A. (2023). Serum Insulin-like Factor 3, Testosterone and Luteinizing Hormone in Experimental and Therapeutic Testicular Suppression. *The Journal of clinical endocrinology and metabolism*. <https://doi.org/10.1210/clinem/dgad291>

Dicke, A-K., Albrethsen, J., Hoare, B. L., Wyrwoll, M. J., Busch, A. S., Fietz, D., Pilatz, A., Bühlmann, C., Juul, A., Kliesch, S., Gromoll, J., Bathgate, R. A. D., Tüttelmann, F., & Stallmeyer, B. (2023). Bi-allelic variants in INSL3 and RXFP2 cause bilateral cryptorchidism and male infertility. *Human reproduction (Oxford, England)*. <https://doi.org/10.1093/humrep/dead105>

Jørgensen, P. L., Kreiberg, M., Jørgensen, N., Juul, A., Oturai, P. S., Dehlendorff, C., Lauritsen, J., Wagner, T., Rosenvilde, J., Daugaard, G., Medici, C. R., Jørgensen, N., & Bandak, M. (2023). Effect of 12-months testosterone replacement therapy on bone mineral density and markers of bone turnover in testicular cancer survivors - results from a randomized double-blind trial. *Acta Oncologica*, 1-7. <https://doi.org/10.1080/0284186X.2023.2207218>

Madsen, A., Juul, A., & Aksglaede, L. (2023). Biochemical identification of prepubertal boys with Klinefelter syndrome by combined reproductive hormone profiling using machine learning. *Endocrine Connections*, 12(5), [e220537]. <https://doi.org/10.1530/EC-22-0537>

Johannsen, T. H., Albrethsen, J., Neocleous, V., Baronio, F., Cools, M., Aksglaede, L., Jørgensen, N., Christiansen, P., Toumba, M., Fanis, P., Ljubicic, M. L., & Juul, A. (2023). Reduced serum concentrations of biomarkers reflecting Leydig and Sertoli cell function in male patients with congenital adrenal hyperplasia. *Endocrine Connections*. <https://doi.org/10.1530/EC-23-0073>

Berglund, A., Ornstrup, M. J., Lind-Holst, M., Dunø, M., Bækvad-Hansen, M., Juul, A., Borch, L., Jørgensen, N., Rasmussen, Å. K., Andersen, M., Main, K. M., Hansen, D., & Gravholt, C. H. (2023). Epidemiology and diagnostic trends of congenital adrenal hyperplasia in Denmark: a retrospective, population-based study. *The Lancet regional health. Europe*, 28, 100598. [100598]. <https://doi.org/10.1016/j.lanepe.2023.100598>

Mørup, N., Main, A. M., Jørgensen, N., Daugaard, G., Juul, A., & Almstrup, K. (2023). The seminal plasma microbiome of men with testicular germ cell tumours described by small RNA sequencing. *Andrology*, 11(4), 756-769. <https://doi.org/10.1111/andr.13305>

Juul, A., Backeljauw, P., Cappa, M., Pietropoli, A., Kelepouris, N., Linglart, A., Pfäffle, R., & Geffner, M. (2023). Early Growth Hormone Initiation Leads to Favorable Long-Term Growth Outcomes in Children Born Small for Gestational Age. *The Journal of clinical endocrinology and metabolism*, 108(5), 1043-1052. <https://doi.org/10.1210/clinem/dgac694>

Lærkeholm Müller, M., Busch, A. S., Ljubicic, M. L., Upners, E. N., Fischer, M. B., Hagen, C. P., Albrethsen, J., Frederiksen, H., Juul, A., & Andersson, A-M. (2023). Urinary concentration of phthalates and bisphenol A during minipuberty is associated with reproductive hormone concentrations in infant boys. *International Journal of Hygiene and Environmental Health*, 250, 114166. [114166]. <https://doi.org/10.1016/j.ijheh.2023.114166>

López Krabbe, H. V., Holm Petersen, J., Asserhøj, L. L., Johannsen, T. H., Christiansen, P., Jensen, R. B., Cleemann, L. H., Hagen, C. P., Priskorn, L., Jørgensen, N., Main, K. M., Juul, A., & Aksglaede, L. (2023). Reproductive hormones, bone mineral content, body composition and testosterone therapy in boys and adolescents with Klinefelter syndrome. *Endocrine Connections*. <https://doi.org/10.1530/EC-23-0031>

Vogel, N., Lange, R., Schmidt, P., Rodriguez Martin, L., Remy, S., Springer, A., Puklová, V., Černá, M., Rudnai, P., Középesy, S., Janasik, B., Ligočka, D., Fábelová, L., Kolena, B., Petrovicova, I., Jajcaj, M., Eštková, M., Esteban-Lopez, M., Castaño, A., ... Kolossa-Gehring, M. (2023). Exposure to Phthalates in European Children, Adolescents and Adults since 2005: A Harmonized Approach Based on Existing HBM Data in the HBM4EU Initiative. *Toxics*, 11(3), [241]. <https://doi.org/10.3390/toxics11030241>

Vilmand, M., Beck, I. H., Bilenberg, N., Andersson, A-M., Juul, A., Schoeters, G., Boye, H., Frederiksen, H., & Jensen, T. K. (2023). Prenatal and current phthalate exposure and cognitive development in 7-year-old children from the Odense child cohort. *Neurotoxicology and Teratology*, 96, [107161]. <https://doi.org/10.1016/j.ntt.2023.107161>

Holt, R., Yahyavi, S. K., Kooij, I., Andreassen, C. H., Andersson, A-M., Juul, A., Jørgensen, N., & Blomberg Jensen, M. (2023). Low serum anti-Müllerian hormone is associated with semen quality in infertile men and not influenced by vitamin D supplementation. *BMC Medicine*, 21(1), 79. [79]. <https://doi.org/10.1186/s12916-023-02782-1>

Nybo, M. L., Kvam, J. M., Nielsen, J. E., Frederiksen, H., Spiess, K., Jensen, K. H. R., Gadgaard, S., Walser, A. L. S., Thomsen, J. S., Cowin, P., Juul, A., Jensen, M. B., & Rosenkilde, M. M. (2023). Loss of Adgr3 causes obstructive azoospermia with high penetrance in male mice. *FASEB Journal*, *37*(2), e22781. [e22781]. <https://doi.org/10.1096/fj.202200762RR>

Uldbjerg, C. S., Lim, Y.-H., Bräuner, E. V., & Juul, A. (2023). Increased Morbidity in Males Diagnosed with Gynecomastia: A nationwide register-based cohort study. *The Journal of clinical endocrinology and metabolism*. <https://doi.org/10.1210/clinem/dgad048>

Henriksen, L. S., Frederiksen, H., Jørgensen, N., Juul, A., Skakkebæk, N. E., Toppari, J., Petersen, J. H., & Main, K. M. (2023). Maternal phthalate exposure during pregnancy and testis function of young adult sons. *Science of the Total Environment*, *871*, [161914]. <https://doi.org/10.1016/j.scitotenv.2023.161914>

Juul, A., Backeljauw, P., Højby, M., Kawai, M., Kildemoes, R. J., Linglart, A., Zuckerman-Levin, N., & Horikawa, R. (2023). Somapacitan in children born small for gestational age: a multi-centre, open-label, controlled phase 2 study. *European Journal of Endocrinology*, *188*(1). <https://doi.org/10.1093/ejendo/lvac008>

Abildgaard, J., Stroomberg, H. V., Bang, A. K., Albrethsen, J., Kruuse, L. S., Juul, A., Brasso, K., Røder, A., & Jørgensen, N. (2023). Pituitary-testis axis dysfunction following adjuvant androgen deprivation therapy. *Endocrine-Related Cancer*, *30*(1), [e220246]. <https://doi.org/10.1530/ERC-22-0246>

Hagen, C. P., Fischer, M. B., Wohlfahrt-Veje, C., Assens, M., Busch, A. S., Pedersen, A. T., Juul, A., & Main, K. M. (2023). AMH concentrations in infancy and mid-childhood predict ovarian activity in adolescence: A long-term longitudinal study of healthy girls. *EClinicalMedicine*, *55*, 101742. [101742]. <https://doi.org/10.1016/j.eclinm.2022.101742>

Hansen, A. B., Renault, C. H., Wøjdemann, D., Gideon, P., Juul, A., & Jensen, R. B. (2023). Neuroimaging in 205 consecutive Children Diagnosed with Central Precocious Puberty in Denmark. *Pediatric Research*, *93*(1), 125-130. <https://doi.org/10.1038/s41390-022-02047-2>

Mørup, N., Stakaitis, R., Main, A. M., Golubickaite, I., Hagen, C. P., Juul, A., & Almstrup, K. (2023). Circulating levels and the bioactivity of miR-30b increase during pubertal progression in boys. *Frontiers in Endocrinology*, *14*, 1120115. [1120115]. <https://doi.org/10.3389/fendo.2023.1120115>

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Clausen, C. L., Johannsen, T. H., Skakkebæk, N. E., Frederiksen, H., Ryrsø, C. K., Dungu, A. M., Hegelund, M. H., Faurholt-Jepsen, D., Krogh-Madsen, R., Madsen, B. L., Linneberg, A., Kårhus, L. L., Juul, A., & Benfield, T. (2023). Pituitary-gonadal hormones associated with respiratory failure in men and women hospitalized with COVID-19: an observational cohort study. *Endocrine Connections*, *12*(1), e220444. [e220444]. <https://doi.org/10.1530/EC-22-0444>

Kjaer, A. S. L., Jensen, R. B., Petersen, J. H., Linneberg, A., Kårhus, L. L., Henriksen, L. S., Johannsen, T. H., Main, K. M., Hoffman, A. R., & Juul, A. (2023). Tracking and Cumulative Lifetime Exposure to IGF-I in 6,459 Healthy Individuals and in SGA Children Treated with GH. *The Journal of clinical endocrinology and metabolism*, *108*(3), 642-652. <https://doi.org/10.1210/clinem/dgac605>

Persani, L., Cools, M., Ioakim, S., Ahmed, S. F., Andonova, S., Avbelj-Stefanija, M., Baronio, F., Bouligand, J., Bruggenwirth, H. T., Davies, J. H., De Baere, E., Dzivite-Krisane, I., Fernandez-Alvarez, P., Gheldof, A., Giavoli, C., Gravholt, C. H., Hiort, O., Holterhus, P.-M., Juul, A., ... Rossetti, R. (2022). The genetic diagnosis of rare endocrine disorders of sex development and maturation: a survey among Endo-ERN centres. *Endocrine Connections*, *11*(12), [e220367]. <https://doi.org/10.1530/EC-22-0367>

Nordkap, L., Almstrup, K., Priskorn, L., Bang, A. K., Stalder, T., Petersen, J. H., Hansen, Å. M., Juul, A., Johannsen, T. H., & Jørgensen, N. (2022). Hair cortisol, glucocorticoid gene receptor polymorphisms, stress, and testicular function. *Psychoneuroendocrinology*, *146*, [105942]. <https://doi.org/10.1016/j.psyneuen.2022.105942>

Rodprasert, W., Koskenniemi, J. J., Virtanen, H. E., Sadov, S., Perheentupa, A., Ollila, H., Albrethsen, J., Andersson, A. M., Juul, A., Skakkebaek, N. E., Main, K. M., & Toppari, J. (2022). Reproductive markers of testicular function and size during puberty in boys with and without a history of cryptorchidism. *The Journal of clinical endocrinology and metabolism*, *107*(12), 3353-3361. <https://doi.org/10.1210/clinem/dgac520>

Frederiksen, H., Ljubicic, M. L., Upners, E. N., Fischer, M. B., Busch, A. S., Hagen, C. P., Juul, A., & Andersson, A-M. (2022). Benzophenones, bisphenols and other polychlorinated/phenolic substances in Danish infants and their parents - including longitudinal assessments before and after introduction to mixed diet. *Environment International*, *169*, [107532]. <https://doi.org/10.1016/j.envint.2022.107532>

Solheim, S. A., Levernaes, M. C. S., Mørkeberg, J., Juul, A., Upners, E. N., Nordsborg, N. B., & Dehnes, Y. (2022). Stability and detectability of testosterone esters in Dried Blood Spots after intramuscular injections. *Drug Testing and Analysis*, *14*(11-12), 1926-1937. <https://doi.org/10.1002/dta.3030>

Uldbjerg, C. S., Lim, Y.-H., Glazer, C. H., Hauser, R., Juul, A., & Bräuner, E. V. (2022). Maternal Serum α -Fetoprotein Levels during Pregnancy and Testicular Cancer in Male Offspring: A Cohort Study within a Danish Pregnancy Screening Registry. *International Journal of Environmental Research and Public Health*, *19*(21), [14112]. <https://doi.org/10.3390/ijerph192114112>

Lundgaard Riis, M., Matilionyte, G., Nielsen, J. E., Melau, C., Greenald, D., Juul Hare, K., Langhoff Thuesen, L., Dreisler, E., Aaboe, K., Brenøe, P. T., Andersson, A-M., Albrethsen, J., Frederiksen, H., Rajpert-De Meyts, E., Juul, A., Mitchell, R. T., & Jørgensen, A. (2022). Identification of a window of androgen sensitivity for somatic cell function in human fetal testis cultured ex vivo. *BMC Medicine*, *20*(1), [399]. <https://doi.org/10.1186/s12916-022-02602-y>

Kreiberg, M., Jørgensen, N., Juul, A., Lauritsen, J., Oturai, P., Helge, J. W., Christensen, J. F., Aksglaede, L., Schauer, T., Wagner, T., Rosenvilde, J., Grunwald, E., Dehlendorff, C., Daugaard, G., & Bandak, M. (2022). A randomized double-blind single center study of testosterone replacement therapy or placebo in testicular cancer survivors with mild Leydig cell insufficiency (Einstein-intervention). *Clinical Genitourinary Cancer*, *20*(5), 404-414. <https://doi.org/10.1016/j.clgc.2022.04.017>

Borgsted, C., Høgh, S., Høgsted, E. S., Fonnesbech-Sandberg, L., Ekelund, K., Albrechtsen, C. K., Wiis, J. T., Hegaard, H., Cvetanovska, E., Juul, A., Frederiksen, H., Pinborg, A., Weikop, P., & Frokjaer, V. (2022). The role of central serotonergic markers and estradiol changes in perinatal mental health. *Acta Psychiatrica Scandinavica*, *146*(4), 357-369. <https://doi.org/10.1111/acps.13461>

Højsager, F. D., Andersen, M., Juul, A., Nielsen, F., Möller, S., Christensen, H. T., Grøntved, A., Grandjean, P., & Jensen, T. K. (2022). Prenatal and early postnatal exposure to perfluoroalkyl substances and bone mineral content and density in the Odense child cohort. *Environment International*, *167*, [107417]. <https://doi.org/10.1016/j.envint.2022.107417>

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