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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)**

Holt, R., Jorsal, M. J., Yahyavi, S. K., Qin, S., Juul, A., Jørgensen, N., & Jensen, M. B. (2024). High-dose cholecalciferol supplementation to obese infertile men is sufficient to reach adequate vitamin D status. *The British journal of nutrition*, 131(4), 642-647. <https://doi.org/10.1017/S0007114523002222>

Cortes, D., Fischer, M. B., Hildorf, A. E., Clasen-Linde, E., Hildorf, S., Juul, A., Main, K. M., & Thorup, J. (2024). Anogenital distance in a cohort of 169 infant boys with uni- or bilateral cryptorchidism including 18 boys with vanishing testes. *Human Reproduction*. <https://doi.org/10.1093/humrep/deae025>

Medici, C., Jørgensen, N., Juul, A., Albrethsen, J., Kreiberg, M., Lauritsen, J., Wagner, T., Rosenvilde, J., Daugaard, G., & Bandak, M. (2024). Insulin-like Factor 3, Basal and Human Chorionic Gonadotropin-Stimulated Testosterone as Biomarkers to Predict the Effect of Testosterone Replacement in Testicular Cancer Survivors With Mild Leydig Cell Insufficiency. *Clinical Genitourinary Cancer*, *22*(1), e106-e112.e4. <https://doi.org/10.1016/j.clgc.2023.08.005>

Lauritsen, M. P., Kristensen, T. L., Bo Hansen, C., Schneider, U. V., Talbot, A. L., Skytte, A-B., Petersen, J. H., Johannsen, T. H., Zedeler, A., Albrethsen, J., Juul, A., Priskorn, L., Jørgensen, N., Westh, H., Freiesleben, N. L. C., & Nielsen, H. S. (2024). The impact of acute SARS-CoV-2 on testicular function including insulin-like factor 3 [INSL3] in men with mild COVID-19: A longitudinal study. *Andrology*, *12*(2), 437-446. <https://doi.org/10.1111/andr.13494>

Cleemann Wang, A., Hagen, C. P., Johannsen, T. H., Madsen, A. G., Hartvig Cleemann, L., Christiansen, P., Main, K. M., Juul, A., & Beck Jensen, R. (2024). Differentiation of Idiopathic Central Precocious Puberty from Premature Thelarche using Principal Component Analysis. *The Journal of clinical endocrinology and metabolism*, *109*(2), 370-379. <https://doi.org/10.1210/clinem/dgad535>

Bräuner, E. V., Uldbjerg, C., Lim, Y-H., Beck, A., Hueg, T., & Juul, A. (2024). Is male gynaecomastia associated with an increased risk of death? A nationwide register-based cohort study. *BMJ Open*, *14*(2), [e076608]. <https://doi.org/10.1136/bmjopen-2023-076608>

Wall-Gremstrup, G., Holt, R., Yahyavi, S. K., Jorsal, M. J., Juul, A., Jørgensen, N., & Blomberg Jensen, M. (2024). High-dose vitamin D3 supplementation shows no beneficial effects on white blood cell counts, acute phase reactants, or frequency of respiratory infections. *Respiratory Research*, *25*(1), 11. [11]. <https://doi.org/10.1186/s12931-023-02642-9>

Beck, A. L., Rehfeld, A., Mortensen, L. J., Lorenzen, M., Andersson, A-M., Juul, A., Bentin-Ley, U., Krog, H., Frederiksen, H., Petersen, J. H., Holmboe, S. A., & Jensen, M. B. (2024). Ovarian follicular fluid levels of phthalates and benzophenones in relation to fertility outcomes. *Environment International*, *183*, 108383. [108383]. <https://doi.org/10.1016/j.envint.2023.108383>

Beck, A. L., Uldbjerg, C. S., Lim, Y-H., Coull, B. A., Sørensen, K. M., Utko, M. M., Wilkowski, B., Rantakokko, P., Bengtsson, M., Lindh, C., Petersen, J. H., Skakkebaek, N. E., Hauser, R., Juul, A., & Bräuner, E. V. (2024). Cotinine concentrations in maternal serum and amniotic fluid during pregnancy and risk of testicular germ cell cancer in the offspring: A prospective nested case-control study. *International Journal of Cancer*, *154*(1), 71-80. <https://doi.org/10.1002/ijc.34688>

Holt, R., Yahyavi, S. K., Kooij, I., Poulsen, N. N., Juul, A., Jørgensen, N., & Jensen, M. B. (2024). Effects of vitamin D on sex steroids, luteinizing hormone, and testosterone to luteinizing hormone ratio in 307 infertile men. *Andrology*, *12*(3), 553-560. <https://doi.org/10.1111/andr.13505>

Lindahl-Jacobsen, R., Tavlo Petersson, M., Priskorn, L., Skakkebaek, N. E., Juul, A., Kristensen, D. M., Eisenberg, M. L., & Jensen, T. K. (2023). Time to pregnancy and life expectancy: a cohort study of 18796 pregnant couples. *Human Reproduction*. <https://doi.org/10.1093/humrep/dead260>

Demir, A., Hero, M., Juul, A., & Main, K. M. (2023). Sex-independent timing of the onset of central puberty revealed by nocturnal luteinizing hormone concentrations. *Clinical Endocrinology*, *99*(6), 552-558. <https://doi.org/10.1111/cen.14974>

Krantz, M. F., Frederiksen, H., Hjorthøj, C., Søndergaard, A., Brandt, J. M., Rohd, S. B., Veddum, L., Steffensen, N. L., Knudsen, C. B., Andreasen, A. K., Hemager, N., Burton, B. K., Gregersen, M., Greve, A. N., Ohland, J., Bliksted, V., Mors, O., Thorup, A. A. E., Juul, A., & Nordentoft, M. (2023). Pubertal timing, sex hormone levels, and associations between early life adversity and accelerated development amongst 11-year-old children of parents with schizophrenia or bipolar disorder and controls: The Danish high risk and Resilience study via 11. *Comprehensive Psychoneuroendocrinology*, *16*, 100204. [100204]. <https://doi.org/10.1016/j.cpne.2023.100204>

Albrethsen, J., Østergren, P. B., Norup, P. B., Sønksen, J., Fode, M., Kistorp, C., Nordborg, N. B., Solheim, S. A., Mørkeberg, J., Main, K. M., & Juul, A. (2023). Serum Insulin-like Factor 3, Testosterone, and LH in Experimental and Therapeutic Testicular Suppression. *The Journal of clinical endocrinology and metabolism*, *108*(11), 2834-2839. <https://doi.org/10.1210/clinem/dgad291>

Johannsen, T. H., Albrethsen, J., Neocleous, V., Baronio, F., Cools, M., Aksglaede, L., Jørgensen, N., Christiansen, P., Toumba, M., Fanis, P., Ljubcic, 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*, *12*(8), [e230073]. <https://doi.org/10.1530/EC-23-0073>

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)*, *38*(7), 1412-1423. <https://doi.org/10.1093/humrep/dead105>

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*, *12*(7), [e230031]. <https://doi.org/10.1530/EC-23-0031>

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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*, *108*(7), e380-e387. <https://doi.org/10.1210/clinem/dgad048>

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>

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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>

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., Jajčaj, M., Eštoková, 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>

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>

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]. <https://doi.org/10.1096/fj.202200762RR>

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), [lvac008]. <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]. <https://doi.org/10.3389/fendo.2023.1120115>

Melau, C., Gayete Mor, B., Lundgaard Riis, M., Nielsen, J. E., Dreisler, E., Aaboe, K., Tutein Brenøe, P., Langhoff Thuesen, L., Juul Hare, K., Mitchell, R. T., Frederiksen, H., Juul, A., & Jørgensen, A. (2023). Dexamethasone affects human fetal adrenal steroidogenesis and subsequent ACTH response in an ex vivo culture model. *Frontiers in Endocrinology*, *14*, 1114211. [1114211]. <https://doi.org/10.3389/fendo.2023.1114211>

Uldbjerg, C. S., Sørensen, K. M., Lindh, C. H., Rantakokko, P., Hauser, R., Juul, A., Andersson, A-M., & Bräuner, E. V. (2023). Evaporation of serum after long-term biobank storage: A chemical analysis of maternal serum from a large Danish pregnancy screening registry. *PLoS One*, *18*(10), [e0293527]. <https://doi.org/10.1371/journal.pone.0293527>

Munk Andreasen, S., Frederiksen, H., Bilenberg, N., Andersson, A-M., Juul, A., Kyhl, H. B., & Kold Jensen, T. (2023). Maternal concentrations of phthalates and Attention-Deficit Hyperactivity Disorder (ADHD-) related symptoms in children aged 2 to 4 years from Odense child cohort. *Environment International*, *180*, 1-10. [108244]. <https://doi.org/10.1016/j.envint.2023.108244>

Henriksen, L. S., Frederiksen, H., Jørgensen, N., Juul, A., Skakkebak, 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>

Tschaidse, L., Reisch, N., Arlt, W., de la Perriere, A. B., Hirschberg, A. L., Juul, A., Mallappa, A., Merke, D. P., Newell-Price, J. D. C., Perry, C. G., Prete, A., Rees, D. A., Stikkelbroeck, N., Touraine, P. A., Coope, H., Porter, J., Ross, R. J. M., & Quinkler, M. (2023). Modified-release hydrocortisone is associated with lower plasma renin activity in patients with salt-wasting congenital adrenal hyperplasia. *European Journal of Endocrinology*, *188*(1), 1-9. [lvac006]. <https://doi.org/10.1093/ejendo/lvac006>

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