

EAA Andrology Training Centre

Centre Report

2020



Name and address of Centre:

University Department of Growth and Reproduction
Rigshospitalet, section 5064
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DK-2100 Copenhagen Denmark

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E-mail, centre director: Niels.Joergensen@regionh.dk

CENTRE REPORT

History of Centre

The Department of Growth and Reproduction was established in 1990 by Professor Niels Skakkebæk. By the end of July 2006 Niels Skakkebæk retired as head of department. Professor Anders Juul took over as head of the department. In 2005, before Niels Skakkebæk retired Dr. Niels Jørgensen became chief of the clinical andrological functions of the department and EAA centre director.

The Department of Growth and Reproduction has clinical and research interests in reproductive development, function and disease as well as in growth and its disorders. The department is one of many departments, which are comprised within the Juliane Marie Centre for Children, Women and Reproduction. The other departments include Obstetrics & Gynaecology, the Fertility clinic, Paediatrics, Paediatric Surgery, Neonatology, Ultrasound and Clinical Genetics. The Juliane Marie Centre is one of 8 centres within Rigshospitalet (the National University Hospital).

Since 1990 the department has investigated and treated children, adolescents and adults with one or more of the following diagnoses: growth disorders, hypopituitarism, androgen insensitivity syndrome, congenital genital malformations, congenital adrenal hyperplasia, disturbed pubertal development, Kallman syndrome, Klinefelter syndrome, gynecomastia and testosterone deficiency. Since 2019 transgender patients below 18 years of age has also been treated at the department. The department has long-standing expertise in diagnosing and treating male infertility problems, including post-treatment for testicular cancer. Since 2009 an increasing number of men with gynecomastia have been examined at the department. This increase happened after the department showed that gynecomastia should be considered as an andrological disease rather than a condition needing primary surgical treatment.

Since the beginning the department has had its own laboratories:

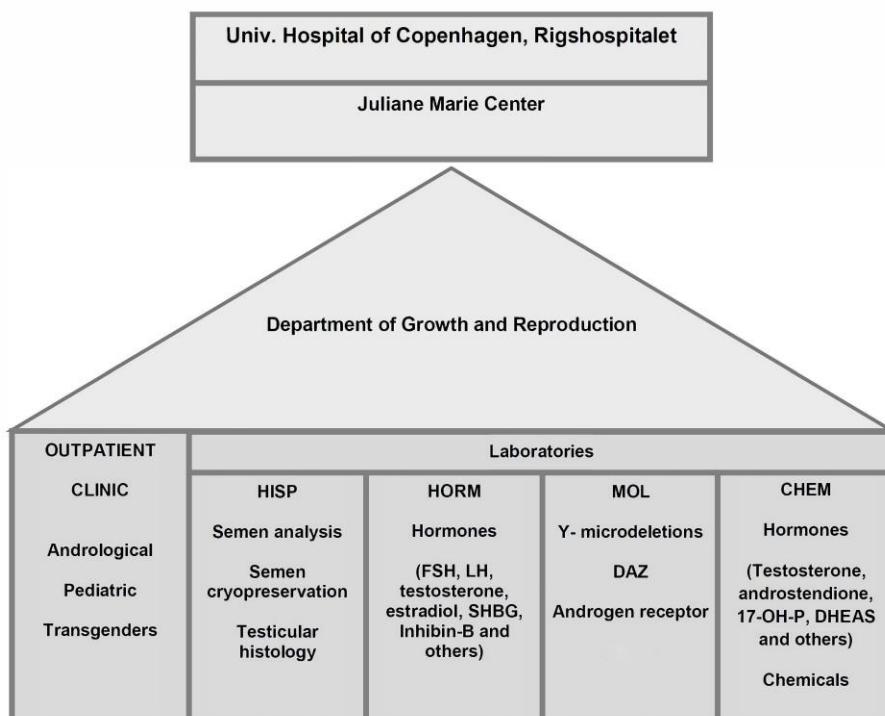
- ***The semen laboratory*** investigates semen samples from men from infertile couples investigated at Rigshospitalet, men from couples treated at private fertility clinics as well as men referred for semen analysis as part of the initial investigation couple infertility. Additionally, the laboratory examines semen samples from men included in scientific studies.
- ***The histological laboratory*** receives, processes and performs histological evaluation of testicular biopsies (including spermatogenesis assessment, diagnosis of testicular germ cell neoplasia and testicular dysgenesis). In addition, the laboratory contributes to research projects involving immunohistochemistry and *in situ* hybridisation.

- **The semen bank** stores ejaculates from patients referred before treatment that potentially will impair their future semen quality, mainly cancer treatment or immunosuppressive treatment.
- **The hormone laboratory** measures hormones relevant for clinical and research activities (FSH, LH, Testosterone, SHBG, Estradiol, Inhibin A and B, Growth Hormone, IGF-I (Insulin-like Growth Factor I) and IGF-BP3. Several other hormones are determined as part of research projects.
- **The molecular biology laboratory** mainly performs analysis for Y-chromosome microdeletions and presence of SRY as well as determination of various genetic polymorphisms.
- **The laboratory of chemical analysis** is equipped for high resolution liquid chromatography - tandem mass spectrometry (HPLC-MS/MS) - and performs analysis androgens, estrogens and various chemicals like phthalates, parabens and alkyl phenols.

All laboratory activities are certified by the Danish Accreditation Fund (DANAK) according to ISO standard 15189.

The department has been an EAA certified training centre in andrology since 1994.

Organization of Centre



Educational activities

Twice annually: One day course in Andrology for medical students

Pre- and postgraduate teaching related andrology

- September 2018 and 2019, Nyborg, Denmark: Treatment of FSH/LH- and GH -deficiency. National pituitary course.
- May 2019, Copenhagen University, Denmark: Fetal determinants of puberty and reproductive function. PhD course, Paediatric Research.
- September 2020, Copenhagen: Adolescence and DSD. Postgraduate course in gynaecological endocrinology.
- September 2020, Copenhagen University, Denmark: Fetal determinants of puberty and reproductive function. PhD course, Paediatric Research.
- Twice yearly: One day course in basic andrology for medical students at Copenhagen University.

Post graduate courses

- December 3-6 2019, Zagreb, Croatia: EAA SUMMER SCHOOL - Testis Histology and Pathology for Clinical Andrologists and Embryologists, in Zagreb, Croatia. Organized jointly by EAA training centres in Zagreb and Copenhagen.

Post graduate educational meetings

- May 13 2019, Copenhagen, Denmark: Male infertility for Fertility Clinics.
- May 16 2019, Copenhagen, Denmark: Male infertility for GPs.
- September 9 2020: Online, Centre for Reproductive Medicine, Münster: „29. Sommerakademie“: Semen quality as biomarker for current and future health.

Additionally, several talks by scientific staff at scientific meetings

Research activities

The department has research activities within pediatric as well as adult andrology besides research within growth disorders.

Focus areas are:

- Normal testicular development and function
- Early exposures and adverse developmental effects on testicular function
- Early and current exposures effect on sexual maturation in humans
- Pubertal development
- Adult life-style and testis function

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- Temporal trends and age-related changes in testis function
 - Testicular function and long-term health
 - Bone-gonadal interaction
 - Improvement of methods of semen analysis
 - Germ cell cancer – clinical and epigenetic aspects
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Clinical activities

The summary statistics of the clinical activities of the andrological section of Department of Growth and Reproduction are shown in section 4.

For all main categories of referred patients (infertile, gynecomastia, testosterone deficiency and semen banking) standardized procedures are used. The principle is that after referral a standardized diagnostic procedure is performed followed by a consultation in the out-patient clinic when the initial results are available. E.g. for infertile men results of two recent semen samples have to be available together with results of blood samples analyzed for reproductive hormone levels and relevant genetics before the first actual visit in the out-patient clinic takes place. At this visit the detailed patient history is obtained, and a physical examination is performed – including ultrasound examination of testicles. The results of the investigations are then discussed with the patient and a conclusion made regarding further work-up or treatment.

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 E-mail, centre director: Niels.Joergensen@regionh.dk

Type of Centre

University
 University Hospital
 Private Centre

Other (please specify)

1a. Director

Niels Jørgensen, MD, PhD, specialist in medical endocrinology and EAA certified clinical andrologist

Academician Affiliated Member Clinical Andrologist

1b. Director

Head of department, Anders Juul, MD, Professor, specialist in pediatrics and EAA certified clinical andrologist

2a. Clinical responsible

Niels Jørgensen, MD, PhD, specialist in medical endocrinology and EAA certified clinical andrologist

Academician Affiliated Member Clinical Andrologist

3. Present Staff (*Senior Scientists*)

1) Name Lise Aksglæde
 Degree MD, PhD.
 Speciality Clinical Genetics

Academician Affiliated Member Clinical Andrologist

2) Name Peter Christiansen
 Degree MD
 Speciality Pediatrics (pediatric and adult andrology)

Academician Affiliated Member Clinical Andrologist

3) Name Katharina Main
 Degree MD, PhD.
 Speciality Pediatrics (pediatric andrology)

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (*if required*)

MD/Biologists/Chemists

1) Name Julie Abildgaard
 Degree MD, PhD
 Speciality Trainee
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

2) Name Laura Smidt Hansen
 Degree MD, PhD
 Speciality Trainee
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

3) Name Hanne Frederiksen
 Degree MSc, PhD
 Speciality Chemist
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

4) Name Trine Holm Johannsen
 Degree MD, PhD
 Speciality Clinical chemistry
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

5) Name Anna-Maria Andersson
 Degree MSc, PhD
 Speciality Biologist
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

6) Name Jakob Albrethsen
 Degree MSc, PhD
 Speciality Biochemist
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

7) Name Jørgen Holm Petersen
 Degree MSc, PhD
 Speciality Statistician
 Full time/part time Part time

Academician Affiliated Member Clinical Andrologist

8) Name John Nielsen
 Degree MSc
 Speciality Biologist
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

9) Name Anne Jørgensen
 Degree MSc, PhD
 Speciality Biologist
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

10) Name Kristian Almstrup
 Degree MSc, PhD
 Speciality Biologist
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

11) Name Lærke Priskorn
 Degree MSc, PhD.
 Speciality Public Health
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

12) Name Ann Holm Hansen
 Degree MSc.
 Speciality Public health (and nurse)
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

13) Name Jørgen Christensen
 Degree
 Speciality IT support
 Full time/part time Full time

Academician Affiliated Member Clinical Andrologist

14) Name Niels Skakkebæk
 Degree Professor, MD
 Speciality Pediatrics
 Full time/part time

Academician Affiliated Member Clinical Andrologist

Insert any additional staff below (*if required*)

Specialists

1) Name Line Cleemann, MD, PhD, Pediatrics
 2) Name Rikke Beck Jensen, MD, PhD, Pediatrics
 3) Name Christine Veje, MD, PhD, Pediatrics
 4) Name Casper Hagen, MD, PhD, Pediatrics

PhD Students

All projects include andrology:

1) Name Li Juul Mortensen
 2) Name Cecile Melau
 3) Name Christine Hjorth Andreassen
 3) Name Louise Scheutz Henriksen
 5) Name Marie Ljubicic
 6) Name Rune Holt
 7) Name Nina Mørup
 8) Name Mette Lorentzen
 9) Name Ida Boisen
 10) Name Mathias Johansen
 11) Name Malene Lundgaard Riis
 12) Name Margit Fischer
 13) Name Nadia Poulsen
 14) Name Emmie Uppners

Nurses

1) Name Dorte Marslew

Book I

- 2) Name Britt Schou Tværmose
 3) Name Kirsten Flyvholm Christensen

Laboratory Technicians

Semen and Histology lab

- 1) Name Anne-Mette Kjøge
 2) Name Mia Romero
 3) Name Lene Dalgaard Andersen
 4) Name Nina Schmidt
 5) Name Kristina Thane Nielsen
 6) Name Marie-Louise Ulestål
 7) Name Hahn Phan
 8) Name Ana Ricci Nielsen
 9) Name Sabina Sultanova
 10) Name Sissel Bredesen
 11) Name Susanne Christensen

Hormone and chemical lab

- 1) Name Maiken Probst
 2) Name Marianne Seilund
 3) Name Irina Safonenko
 4) Name Farshid Ghazi
 5) Name Karina Skou
 6) Name Mariann Bech Henriksen
 7) Name Ole Nielsen
 8) Name Stine Ehlern Andersen

Molecular biology lab

- 1) Name Kirsten Michaëlis
 2) Name Dijana Maslovaric
 3) Name Brian Vendelbo Hansen

Blood sampling

- 1) Name Anette Fosgerau
 2) Name Morten Petersen

Administrative Personnel

- 1) Name Kathrine Hurtigkarl
 2) Name Tine Michelsen
 3) Name Britt Stricker
 4) Name Tina Tronier
 5) Name Birgitte Havmøller
 6) Name Hanne Lyhne
 7) Name Lonni Davidsen

4. Clinical Activity

A. Outpatients: Consultations per year in the last 3 years

	2017*	2018*	2019
New patients	1239	1227	1521
Follow-up patients	2200	2318	2942

Type of patients in the last years (%)**	2017*	2018*	2019
Infertility***	1200	1200	1326
Erectile dysfunction***	<10	<10	6
Hypogonadotropic Hypogonadism	779	658	814
Delayed puberty	146	142	195
Klinefelter and XX-male	337	343	502
Hypergonadotropic Hypogonadism, other	646	711	1018
Gynaecomastia	373	302	510
Varicocele	-	-	-
Cryptorchidism	25	25	25
Male sex accessory gland infections	-	-	-
Testicular tumours	<5	<5	<5
Disorders of gender identity	237	394	563
Other	197	145	139

*: The figures may be too low for these two years due to problems with registrations of treatment codes in the EPIC program used at Rigshospitalet.

**: Includes both new patients and follow-up patients.

***: Estimated for 2017 and 2018 because the coding in the EPIC program used at Rigshospitalet was ambiguous.

B. Ultrasound, testis *

	2017	2018	2019
Total	1289	1277	1571
Controls	50	50	50

* performed at the Department of Growth and Reproduction. Estimated from number of "new patients".

C. Andrological surgery procedures

	2017	2018	2019
Testicular biopsies	0	0	0
Varicocele ligation	0	0	0
Prostate biopsies	0	0	0
BPH	0	0	0
Prostate cancer	0	0	0
Vasectomy	0	0	0
Vaso-vasostomy	0	0	0
Other	0	0	0

5. A. Andrology laboratory activity

	2017	2018	2019
Semen analyses	3,505	3,628	3,905
Seminal markers (fructose)	77	69	65

5. B. Andrology laboratory activity

Sperm banking donors Yes No

Sperm banking cancer and other patients Yes No

If yes:

	2017	2018	2019
Number of samples/patients	470/225	524/252	933/350

5. C. Histopathological evaluation of biopsies Yes No

5. D. Reproductive Hormones Assays Yes No

If yes please specify type of assays and number of samples in the last year
Reproductive Hormones Assays

	2017	2018	2019
FSH (Immunofluorometric)	4548	4462	4311
LH (Immunofluorometric)	6272	6234	6202
Testosterone (RIA)	3758	3749	4204
SHBG (Immunofluorometric assay)	5560	5490	5156
Estradiol (RIA)	4589	3785	1734
Inhibin-B (ELISA)	5923	5859	5924
Androgens (LC-MS/MS) *	2556	2307	2089
Estrogens (LC-MS/MS) **	0	596	2711
17-OH-P (LC-MS/MS)	0	341	286
Total	33206	32823	32617

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*: Includes testosterone (and calculated free-testosterone), androstendione, 17-OH-progesterone and DHEAS.

**: Includes estradiol, estrone, estriol, estrone sulphate

5. E. Y chromosome microdeletions according to
EAA/EMQN guidelines

Yes

No

If yes number of tests in the past 3 years

2017: N=482

2018: N=445

2019: N=563

Participation to the EAA quality control scheme?

Yes

No

If no, specify if available in another lab of the same hospital

Yes

No

Blood karyotyping

Yes

No

If no, specify if available in another lab of the same hospital

Yes

No

Other genetic tests (please specify)

FISH sperm: No

Pre-implantation genetic diagnosis: No

Amniotic fluid karyotyping: No

	2017	2018	2019
FSH-SNPs ***	0	947	1305

***: Includes *FSHB* -211G>T (rs10835638), *FSHR* -29G>A (rs1394205) and *FSHR* 2039A>G (rs6166).

6. Collaborations with other Clinical Units of the University/Hospital**IVF Unit**Yes No *If yes please specify: Children, Endocrinology, IVF, Urology, Genetics, Pathology*

Urology Clinic

Yes No

Endocrine Clinic

Yes No

Genetics Lab/Unit

Yes No

Paediatric Unit

Yes No

Central Hospital Laboratory

Yes No

Private Fertility Centres

Yes No **7. Clinical teaching activity**

	Number
A: Trainees in the last five years	4
B: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5 yrs	4
C: Trainees working in the centre preparing to pass the EAA-ESAU examination	1
D: PhD Students, currently	14
E: Medical Students	Approx 10
F: Other students (MSc)	Approx 10

8. Formal Andrology teaching programYes No *If yes: specify duration (years/months):*Years Months

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9. Research Activity (maximum 1 page)

Please shortly describe the main research topics of the center and list the most relevant papers in peer review journals (with IF) related to these activities.

The full list of publications (years 2010 - 2015) are presented at the end of this report.

Research topics have been listed page 5.

10. Research Funding

Please specify the amount of available funds in the last 3 years and their source (Government, European Union, University, Local Government, Pharmaceutical Industries, Banks, Foundations....)

Year	For each year approximately 3 mill. euros
Total amount (€)	
Funding	
Source(s)	

Insert any additional funding below if required

Full list of Publications, Department of Growth and Reproduction 2015-2020: 2020

1. Aksglaede, L, Davis, SM, Ross, JL & Juul, A 2020, 'Minipuberty in Klinefelter syndrome: Current status and future directions' American Journal of Medical Genetics, Part C: Seminars in Medical Genetics, bind 184, nr. 2, s. 320-326. <https://doi.org/10.1002/ajmg.c.31794>
2. Albrethsen, J, Johannsen, TH, Jørgensen, N, Frederiksen, H, Sennels, HP, Jørgensen, HL, Fahrenkrug, J, Petersen, JH, Linneberg, A, Nordkap, L, Bang, AK, Andersson, A-M & Juul, A 2020, 'Evaluation of Serum Insulin-like Factor 3 Quantification by LC-MS/MS as a Biomarker of Leydig Cell Function' The Journal of clinical endocrinology and metabolism, bind 105, nr. 6, s. dgaa145. <https://doi.org/10.1210/clinem/dgaa145>
3. Albrethsen, J, Ljubicic, ML & Juul, A 2020, 'Longitudinal Increases in Serum Insulin-like Factor 3 and Testosterone Determined by LC-MS/MS in Pubertal Danish Boys' The Journal of clinical endocrinology and metabolism, bind 105, nr. 10. <https://doi.org/10.1210/clinem/dgaa496>
4. Albrethsen, J, Juul, A & Andersson, A-M 2020, 'Mass Spectrometry Supports That the Structure of Circulating Human Insulin-Like Factor 3 Is a Heterodimer' Frontiers in Endocrinology, bind 11, 552, s. 552. <https://doi.org/10.3389/fendo.2020.00552>
5. Almstrup, K, Lobo, J, Mørup, N, Belge, G, Rajpert-De Meyts, E, Looijenga, LHJ & Dieckmann, K-P 2020, 'Application of miRNAs in the diagnosis and monitoring of testicular germ cell tumours' Nature reviews. Urology, bind 17, nr. 4, s. 201-213. <https://doi.org/10.1038/s41585-020-0296-x>
6. Almstrup, K, Frederiksen, H, Andersson, A-M & Juul, A 2020, 'Levels of endocrine-disrupting chemicals are associated with changes in the peri-pubertal epigenome' Endocrine Connections, bind 9, nr. 8, s. 845-857. <https://doi.org/10.1530/EC-20-0286>
7. Amini, H, Dehlendorff, C, Lim, YH, Mehta, A, Jørgensen, JT, Mortensen, LH, Westendorp, R, Hoffmann, B, Loft, S, Cole-Hunter, T, Bräuner, EV, Ketzel, M, Hertel, O, Brandt, J, Solvang Jensen, S, Christensen, JH, Geels, C, Frohn, LM, Backalarz, C, Simonsen, MK & Andersen, ZJ 2020, 'Long-term exposure to air pollution and stroke incidence: A Danish Nurse cohort study' Environment International, bind 142, 105891, s. 105891. <https://doi.org/10.1016/j.envint.2020.105891>
8. Andreassen, M, Juul, A, Feldt-Rasmussen, U & Jørgensen, N 2020, 'Semen quality in hypogonadal acromegalic patients' Pituitary, bind 23, nr. 2, s. 160-166. <https://doi.org/10.1007/s11102-019-01018-x>
9. Antonio, L, Priskorn, L, Nordkap, L, Bang, AK, Jensen, TK, Skakkebaek, NE, Petersen, JH, Vanderschueren, D & Jørgensen, N 2020, 'Bone mineral density is preserved in men with idiopathic infertility' Andrology, bind 8, nr. 2, s. 315-322. <https://doi.org/10.1111/andr.12688>
10. Antonio, L, Priskorn, L, Olesen, IA, Petersen, JH, Vanderschueren, D & Jørgensen, N 2020, 'High serum FSH is not a risk factor for low bone mineral density in infertile men' The Bone, bind 136, s. 115366. <https://doi.org/10.1016/j.bone.2020.115366>

11. Assens, M, Dyre, L, Henriksen, LS, Brocks, V, Sundberg, K, Jensen, LN, Pedersen, AT & Main, KM 2020, 'Menstrual Pattern, Reproductive Hormones and Transabdominal 3D Ultrasound in 317 Adolescent Girls' *The Journal of clinical endocrinology and metabolism*, bind 105, nr. 9, s. e3257-e3266. <https://doi.org/10.1210/clinem/dgaa355>
12. Boberg, J, Johansson, HKL, Axelstad, M, Olsen, GPM, Johansen, M, Holmboe, SA, Andersson, A-M & Svingen, T 2020, 'Using assessment criteria for pesticides to evaluate the endocrine disrupting potential of non-pesticide chemicals: Case butylparaben' *Environment International*, bind 144, s. 105996. <https://doi.org/10.1016/j.envint.2020.105996>
13. Boisen, IM, Mos, I, Lerche-Black, EM, Juul, A, Bräuner-Osborne, H & Blomberg Jensen, M 2020, 'Heterozygous Mutation (Q459R) in the Calcium-Sensing Receptor Gene Causes Familial Hypocalciuric Hypercalcemia 1 (FHH1)' *The Journal of clinical endocrinology and metabolism*, bind 105, nr. 4. <https://doi.org/10.1210/clinem/dgz205>
14. Bøllehuus Hansen, L, Kaludjerovic, J, Nielsen, JE, Rehfeld, A, Poulsen, NN, Ide, N, Skakkebaek, NE, Frederiksen, H, Juul, A, Lanske, B & Blomberg Jensen, M 2020, 'Influence of FGF23 and Klotho on male reproduction: Systemic vs direct effects' *FASEB Journal*, bind 34, nr. 9, s. 12436-12449. <https://doi.org/10.1096/fj.202000061RR>
15. Bräuner, EV, Nordkap, L, Priskorn, L, Hansen, ÅM, Bang, AK, Holmboe, SA, Schmidt, L, Jensen, TK & Jørgensen, N 2020, 'Psychological stress, stressful life events, male factor infertility, and testicular function: a cross-sectional study' *Fertility and Sterility*, bind 113, nr. 4, s. 865-875. <https://doi.org/10.1016/j.fertnstert.2019.12.013>
16. Bräuner, EV, Busch, AS, Eckert-Lind, C, Koch, T, Hickey, M & Juul, A 2020, 'Trends in the Incidence of Central Precocious Puberty and Normal Variant Puberty Among Children in Denmark, 1998 to 2017' *JAMA network open*, bind 3, nr. 10, s. e2015665. <https://doi.org/10.1001/jamanetworkopen.2020.15665>
17. Busch, AS, Hagen, CP & Juul, A 2020, 'Heritability of pubertal timing: detailed evaluation of specific milestones in healthy boys and girls' *European Journal of Endocrinology*, bind 183, nr. 1, s. 13-20. <https://doi.org/10.1530/EJE-20-0023>
18. Busch, AS, Højgaard, B, Hagen, CP & Teilmann, G 2020, 'Obesity is associated with earlier pubertal onset in boys' *The Journal of clinical endocrinology and metabolism*, bind 105, nr. 4, s. e1667-e1672. <https://doi.org/10.1210/clinem/dgz222>
19. Calafat, AM, Koch, HM, Andra, SS, Antignac, JP, Castaño, A, Choi, K, Covaci, A, Dekant, W, Doerge, DR, Frederiksen, H, Göen, T, Kolossa-Gehring, M, Leblanc, A, Mueller, JF, Nakayama, SF, Nassif, J, St-Amand, A, Völkel, W, Wolff, MS & additional coauthors 2020, 'BPA and risk assessment' *The Lancet Diabetes and Endocrinology*, bind 8, nr. 4, s. 269-270. [https://doi.org/10.1016/S2213-8587\(20\)30070-X](https://doi.org/10.1016/S2213-8587(20)30070-X)
20. Christiansen, S, Axelstad, M, Scholze, M, Johansson, HKL, Hass, U, Mandrup, K, Frandsen, HL, Frederiksen, H, Isling, LK & Boberg, J 2020, 'Grouping of endocrine disrupting chemicals for mixture risk assessment - Evidence from a rat study' *Environment International*, bind 142, s. 105870. <https://doi.org/10.1016/j.envint.2020.105870>
21. Cramer, J, Jørgensen, JT, Hoffmann, B, Loft, S, Bräuner, EV, Prescott, E, Ketzel, M, Hertel, O, Brandt, J, Jensen, SS, Backalarz, C, Simonsen, MK & Andersen, ZJ 2020, 'Long-Term Exposure to Air Pollution and Incidence of Myocardial Infarction: A Danish Nurse Cohort Study' *Environmental Health Perspectives*, bind 128, nr. 5, s. 57003. <https://doi.org/10.1289/EHP5818>

22. Diasso, PDK, Birke, H, Nielsen, SD, Main, KM, Højsted, J, Sjøgren, P & Kurita, GP 2020, 'The effects of long-term opioid treatment on the immune system in chronic non-cancer pain patients: A systematic review' European journal of pain, bind 24, nr. 3, s. 481-496. <https://doi.org/10.1002/ejp.1506>
23. Ebbesen, M, Enevold, C, Juul, A, Heilmann, C, Sengeløv, H & Müller, K 2020, 'Insulin-Like Growth Factor Gene Polymorphisms Predict Clinical Course in Allogeneic Hematopoietic Stem Cell Transplantation' Frontiers in Immunology, bind 11, s. 1646. <https://doi.org/10.3389/fimmu.2020.01646>
24. Eckert-Lind, C, Busch, AS, Petersen, JH, Biro, FM, Butler, G, Bräuner, EV & Juul, A 2020, 'Worldwide Secular Trends in Age at Pubertal Onset Assessed by Breast Development Among Girls: A Systematic Review and Meta-analysis' JAMA Pediatrics, bind 174, nr. 4, s. e195881. <https://doi.org/10.1001/jamapediatrics.2019.5881>
25. Eftekhari, A, Frederiksen, H, Andersson, A-M, Weschler, CJ & Morrison, G 2020, 'Predicting Transdermal Uptake of Phthalates and a Paraben from Cosmetic Cream Using the Measured Fugacity' Environmental Science & Technology, bind 54, nr. 12, s. 7471-7484. <https://doi.org/10.1021/acs.est.0c01503>
26. Eggermann, T, Elbracht, M, Kurth, I, Juul, A, Johannsen, TH, Netchine, I, Mastorakos, G, Johannsson, G, Musholt, TJ, Zenker, M, Prawitt, D, Pereira, AM, Hiort, O & European Reference Network on Rare Endocrine Conditions (ENDO-ERN 2020, 'Genetic testing in inherited endocrine disorders: joint position paper of the European reference network on rare endocrine conditions (Endo-ERN)' Orphanet Journal of Rare Diseases, bind 15, nr. 1, s. 144. <https://doi.org/10.1186/s13023-020-01420-w>
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