EAA Andrology Training Centre

Centre Report

2020

ANOVA – Karolinska University Hospital and Karolinska Institutet

CENTRE REPORT

History of Centre

In 1996 the Center became the first EAA accredited Training Center in Sweden. Within the Karolinska University Hospital andrology consultations were originally related to male infertility at the departments of Urology, Endocrinology, Clinical Chemistry and Gynecology. In 1992 all infertility matters to the were concentrated in a Reproductive Medicine Center. Three positions as Andrologists were created, two of which were combined clinical and mid-level research positions and one was a clinical andrologist.
This platform became the EAA accredited Andrology Training center. From 1992 to 1996 the Centre developed methods for androgen replacement therapy, participated in clinical trials with PDE 5 inhibitors and other pharmacological methods for treatment of erectile dysfunction, developed Y-chromosome microdeletion analysis and identification of genotype-phenotype characteristics of novel androgen receptor mutations. Activities in laboratory andrology included development of Basic Semen Analysis Courses and development of user-friendly operating procedures for semen analysis.
Until 2012 the center managed most semen analysis in Stockholm County and implemented good laboratory standards according to WHO and ESHRE recommendations and developed algorithms for further clinical examination of men with abnormalities in semen. The laboratory established an international External Quality Assessment Program for semen laboratories by commission from ESHRE
The development of treatment for erectile dysfunction was enhanced by the engagement of behavioral scientists and psychotherapists with sexology competence. The inclusion of these specialist widened the spectrum of clinical problems addressed and became the start for work with problematic sexuality and strategies for the prevention of sexual abuse. In 2005 Stockholm County added Sexual Medicine to the scope of the center and the name was changed to Center for Andrology and Sexual Medicine. Furthermore, trans gender medicine became an increasingly important field for the improvement of health in subjects with gender dysphoria with need for psychiatric as well as somatic care. When also the unit for investigation of gender dysphoria was included in 2016 the name ANOVA was adopted.
The expansion of the center commissions an increased number of annual consultations has occurred, and the number of staff members increased from 12 to 40. Concomitantly, the number of research projects increased.
The Center moved to new premises in May 2016 located in the center of Stockholm's Life Science Campus, close to the New Karolinska Hospital, and the Northern Campus of Karolinska Institutet. The venue covers 1600 sqm and includes several well equipped medical examination rooms, rooms for conversational therapy, a room for small surgery with operation microscope and LAF bench for sterile preparations, a clean room (as registered Tissue Establishment), and a routine andrology laboratory (accredited to ISO15189), equipped for microscopy, biochemistry, PCR, and flow cytometry. The laboratory has capacity for microscope courses.

Furthermore, the center has reception rooms for nurses to give IC and IM injections and venipuncture, Rigiscan programming, instructions and reading. Upon entry patients are welcomed by a receptionist for registration and can relax in calm waiting area. Separate from the clinical rooms are office space and meeting rooms equipped for on-line meetings.

Organization of Centre

Since the formal retirement of Stefan Arver as Director of ANOVA in 2019 the Karolinska University Hospital has appointed Katarina Görts Öberg as Acting Director with a Managerial Group consisting of Lars Björndahl, Mats Holmberg, Cecilia Dhejne, Jussi Jokinen and Rebecka Holmberg as support. Stefan Arver is still active in clinical and research activities and Ulrik Kvist remains active in the field of andrology laboratory research.
The ORGANIZATIONAL CHART (below) describes the placement of ANOVA within the Karolinska University Hospital and Karolinska Institutet.

Educational activities

Twice annually, the center has offered a course in Sexual Medicine for medical students and beginning Fall semester of 2020 a 7.5 p (5 week) course on Andrology and Sexual Medicine is given by ANNOVA twice annually.
Graduate courses are given for residents in psychiatry, general medicine, urology and endocrinology.
Residents in internal medicine, endocrinology, psychiatry and gynecology (reproductive medicine) are offered 2-3 months clinical training during their rotation.
MDs under training in other specialties receive short term (1-2 weeks) clinical andrological training at the Centre.
Currently, three endocrinologists under clinical training to become EAA certified Andrologist.
There have been regular courses on Basic Semen Analysis (“ESHRE course” also approved by the EAA) and human sperm morphology assessment (in collaboration with Prof Roelof Menkveld). The center is also active in the revision of the 2010 WHO semen examination manual as well as the development of an ISO standard for Basic Semen Examination, with the same scientific base as the revised WHO manual.
Specialists from the center regularly participate in courses on Andrology, Sexual Medicine and Transgender Medicine for different professions in the Stockholm region and in other regions of Sweden.

Research activities

The laboratory continuously evaluates techniques for routine examination of semen (15). In a collaboration with the Royal Institute of Technology in Stockholm, new principles of barrier methods for contraception are investigated (86), and with the Department of Neurobiology at the Karolinska Institute studies on sperm cholinergic functions (56). The Center is in several national and international collaborations with

the purpose to propagate awareness of and knowledge in andrology, among the development of training and research network called COST.
The center is involved in several studies on the effect of cross-sex hormonal treatment in transgender persons. In this we cooperate with institutions and hospitals outside Karolinska and with a group at UCLA. At present time we are running 6 prospective studies in the transgender group, all based on the before and after treatment concept. The studies investigate metabolic, epigenetic, cardiovascular changes, brain morphology changes, early mental effects, changes in immunological marker expression, changes in experimental pain perception and changes in the prevalence of periodontitis.

Clinical activities

The center has approximately 16,000 patient visits annually.
Men from infertile couples are referred to the center. Based on the results of a semen analysis performed according to the state-of-the-arts (WHO and EHSRE Special interest group in Andrology) a further andrological investigation of the men is decided. The laboratory is now integrated in the public health care as the only laboratory in the Stockholm Region accredited for all basic semen examination modalities (Swedac, www.swedac.se; accreditation #1886). The continued investigation may include a physical examination, where testicular ultrasound examination is not done routinely, blood test of reproductive hormones and genetic analyses (e.g. karyotype, Y chromosome microdeletion, cystic fibrosis and ciliary dyskinesia). Collaboration with the fertility clinic has been reestablished with monthly conferences on clinical cases. In addition the public health care administration has since last year – due to political decisions – demanded if subnormal semen analysis results have been found, any center obtaining public subsidies for infertility treatment should offer the man a full andrological investigation. This investigation is provided by ANOVA within the public health care. Thus, the center has regained the possibility to offer andrological examinations that can facilitate the most proper fertility treatment as well as examination of men from infertile couples in order to determine potential underlying causes for the impaired semen quality. The number of examined men from infertile couples have increased steadily.

6

Name and address of Centre

ANOVA – Andrology – Sexual Medicine – Trans Medicine
KAROLINSKA UNIVERSITY HOSPITAL, Stockholm Sweden
Norra Stationsgatan 69, level 4
S-113 69 Stockholm
Sweden

Type of Centre

University	
University Hospital	X
Private Centre	
Other (please specify)	

1a. Managerial body

Acting Director	Katarina Görts Öberg
Laboratory Andrology	Lars Björndahl
Clinical Andrology	Mats Holmberg
Transgender Medicine	Cecilia Dhejne
Research	Jussi Jokinen
Administration	Rebecka Holmberg

2a. Clinical responsible Mats Holmberg
Academician [ ] Affiliated Member [ ] Clinical Andrologist [X]

2b. Clinical responsible Angelos Kalogiannis
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

2c. Clinical responsible Anastasios Fylaktos
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

3. Present Staff *(Senior Scientists)*

1) Name Lars Björndahl
Degree MD, PhD
Speciality Clin Chem
Academician [X] Affiliated Member [ ] Clinical Andrologist [ ]

2) Name Mats Holmberg
Degree MD, PhD
Speciality Endocrinology / Internal Medicine
Academician [ ] Affiliated Member [ ] Clinical Andrologist [X]

Insert any additional staff below *(if required)*

MD/Biologists/Chemists

1) Name: Agathi Constatinou
Degree: MD
Speciality: Endocrinology
Full time/part time: Full time
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

2) Name: Stefan Arver
Degree: MD PhD
Speciality: Endocrinology
Full time/part time: Part time
Academician [X] Affiliated Member [ ] Clinical Andrologist [ ]

3) Name: Ulrik Kvist
Degree: MD PhD
Speciality: Clinical Chemistry, Clinical Genetics
Full time/part time: Part time
Academician [X] Affiliated Member [ ] Clinical Andrologist [ ]

4) Name: Lars Henningsohn
Degree: MD PhD
Speciality: Urology
Full time/part time: Part time
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

5) Name: Marie Degerblad
Degree: MD PhD
Speciality: Endocrinology
Full time/part time: Part time
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

6) Name: Jussi Jokinen
Degree: MD PhD, Professor
Speciality: Psychiatry
Full time/part time: Part time
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

7) Name: Cecilia Dhejne
Degree: MD PhD
Speciality: Psychiatry
Full time/part time: Full time
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

8) Name: Josephine Savard
Degree: MD
Speciality: Psychiatry
Full time/part time: Full time
Academician [ ] Affiliated Member [ ] Clinical Andrologist [ ]

9) Name Stig Andersson
Degree MD
Speciality Psychiatry
Full time/part time Part time

Academician ☐ Affiliated Member ☐ Clinical Andrologist ☐

Psychologists

1) Name Katarina Görts Öberg, PhD
2) Name Jonas Hallberg, PhD
3) Name Annika Johansson
4) Name Charlotte Sparre
5) Name Marie Gut
6) Name Marie Guiron
7) Name Maria Ilestam
8) Name Marta Piwowar
9) Name Marcus Byström
10) Name Robert Adebahr

Psychotherapists

1) Name Katarina Görts Öberg, PhD
2) Name Karin Carlqvist

Counsellors

1) Name Camilla Hatt
2) Name Hanna Håkansson

PhD Students

1) Name Jonas Hallberg (Ph.D. 2019)
2) Name Emma Holmes (Ph.D. 2020)
3) Name Felicitas Falck, MD
4) Name Petr Houska, MD
5) Name Josephine Savard, MD
6) Name Roberth Adebahr, Psychologist

Nurses

1) Name Susanne Jarlvik Alm
2) Name Adrian Gavrilovic
3) Name Lisa Ottoson
4) Name Anna Törneskog (on leave)
5) Name Setareh Chanpen (on leave)
6) Name Pia Jaensson (assistant nurse)

Laboratory Technologists

1) Name Rebecka Holmberg, BMS, PhD
2) Name Kristina Persson, BMS
3) Name Magdalena Larsson Chatziantonis, BMS

Administrative Personnel

1) Name Carina Karlsson

2) Name Elisa Ruz
3) Name Karin Hjulström
4) Name Lena Fors
5) Name Linda Cederlund
6) Name Lizette Ekholm
7) Name Veronica Dalman
8) Name Viviana Charafi

4. Clinical Activity

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

Andrology	2017	2018	2019
New patients	1675	2177	1973
Follow-up patients	502	2221	3528
Entire ANOVA			
New patients	3000	3000	3000
Follow-up patients	13000	13000	13000

Type of patients in the last years (%)	2017	2018	2019
Infertility	17	19	17
Erectile dysfunction	13	13	10
Hypogonadotropic Hypogonadism	28	23	17
Klinefelter	1	1	2
Gynaecomastia	<1	<1	<1
Varicocele	<1	<1	<1
Cryptorchidism	<1	<1	<1
Male sex accessory gland infections	1	1	<1
Testicular tumours	<1	<1	<1
Disorders of gender identity	25	28	29
Other	15	15	25

B. Ultrasound (testis, penile, prostate) *

	2017	2018	2019
Total	12	15	18
Controls			

** performed at the Department of Radiology*

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	1166	1448	1503
Sperm antibodies	0	0	0
Seminal markers	1123	1425	1481

5. B. Andrology laboratory activity

Sperm banking donors Yes [ ] No [X]

Sperm banking cancer patients Yes [ ] No [X]

If yes:			
	2017	2018	2019
Number of samples			

5. C. Histopathologial evaluation of biopsies Yes [ ] No [X]

5. D. Reproductive Hormones Assays Yes [X] No [ ]

If yes please specify type of assays and number of samples in the last year
Reproductive Hormones Assays
FSH ca 2200,
LH ca 2200
Testosterone ca 4200,
SHBG ca 2200
Prolactin, low molecular ca 1200, ordinary ca 1500

5. E. Y chromosome microdeletions according to EAA/EMQN guidelines Yes [X] No [ ]

If yes number of tests in the past year 159

Participation to the EAA quality control scheme? Yes [X] No [ ]

If no, specify if available in another lab of the same hospital Yes [ ] No [ ]

Blood karyotyping Yes [ ] No [X]

If no, specify if available in another lab of the same hospital — Yes [X] No [ ]

Other genetic tests (please specify)
FISH sperm
Pre-implantation genetic diagnosis
Amniotic fluid karyotyping

6. Collaborations with other Clinical Units of the University/Hospital

IVF Unit — Yes [X] No [ ]
If yes please specify: Reproductive Medicine, Dept of Gynaecology

Urology Clinic — Yes [X] No [ ]

Endocrine Clinic — Yes [X] No [ ]

Genetics Lab/Unit — Yes [X] No [ ]

Paediatric Unit — Yes [X] No [ ]

Central Hospital Laboratory — Yes [X] No [ ]

Private Centres — Yes [X] No [ ]

If yes please specify: Urology, Gynaecology, General Practition

7. Clinical teaching activity

Duration of training (years): 2

	Number
A: Trainees in the last five years	3
B: Trainees who passed EAA-ESAU\exam for Clinical Andrologist in the last 5 yrs	0
C: Trainees working in the centre preparing to pass the EAA-ESAU examination	3
D: PhD Students	6
E: Medical Students	50
F: Other students (MSc)	10

8. Formal Andrology teaching program — Yes [X] No [ ]

If yes: specify duration (years/months): Years [ ] Months [1]

	Hours of formal teaching per year	Professional training (weeks/months)
Medical Students	200	2-3 months
PhD Students	200	

Post Graduate students	60	
Trainees	30	
Other degrees (please specify)		

9. Research Activity (maximum 1 page)

The laboratory continuously evaluates techniques for routine examination of semen (15). In a collaboration with the Royal Institute of Technology in Stockholm, new principles of barrier methods for contraception are investigated (86), and with the Department of Neurobiology at the Karolinska Institute studies on sperm cholinergic functions (56). The Center is in several national and international collaborations with the purpose to propagate awareness of and knowledge in andrology, among the development of training and research network called COST.

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

10. Research Funding

Year	2018	2019	2020
Total amount (€)	~400,000	~400,000	~400,000
Funding Source(s)	Government, Local Government, Foundations, University, University Hospital, Industry		

ORGANIZATION CHARTS

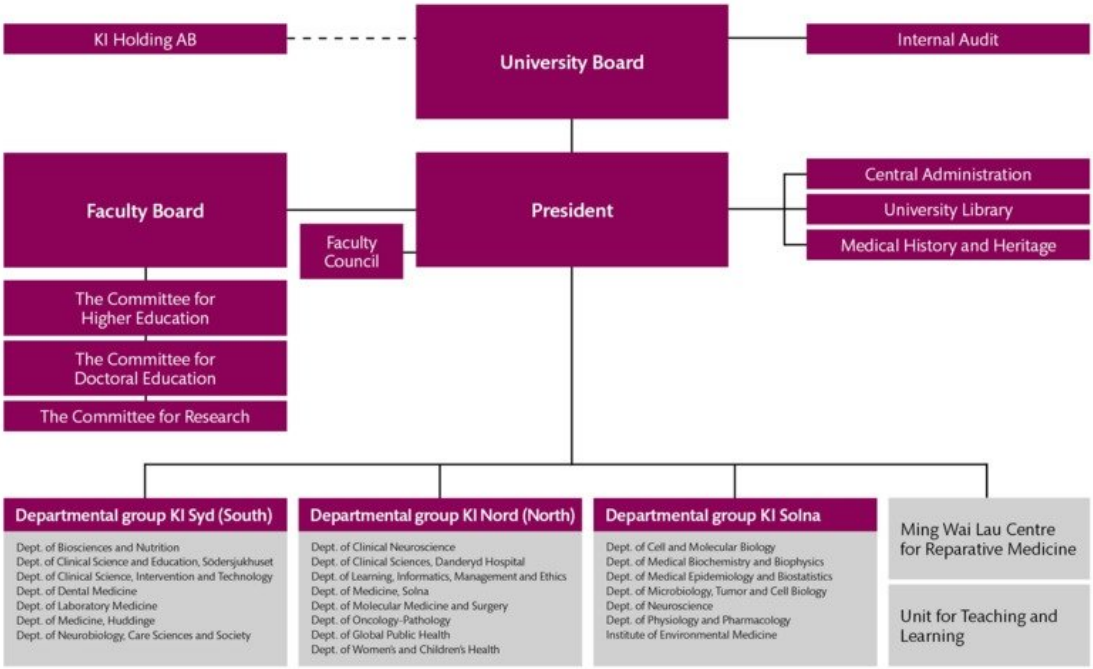
Karolinska University Hospital
Director: Björn Zoega

Theme: Infection and Inflammation
Head: Ylva Pernow

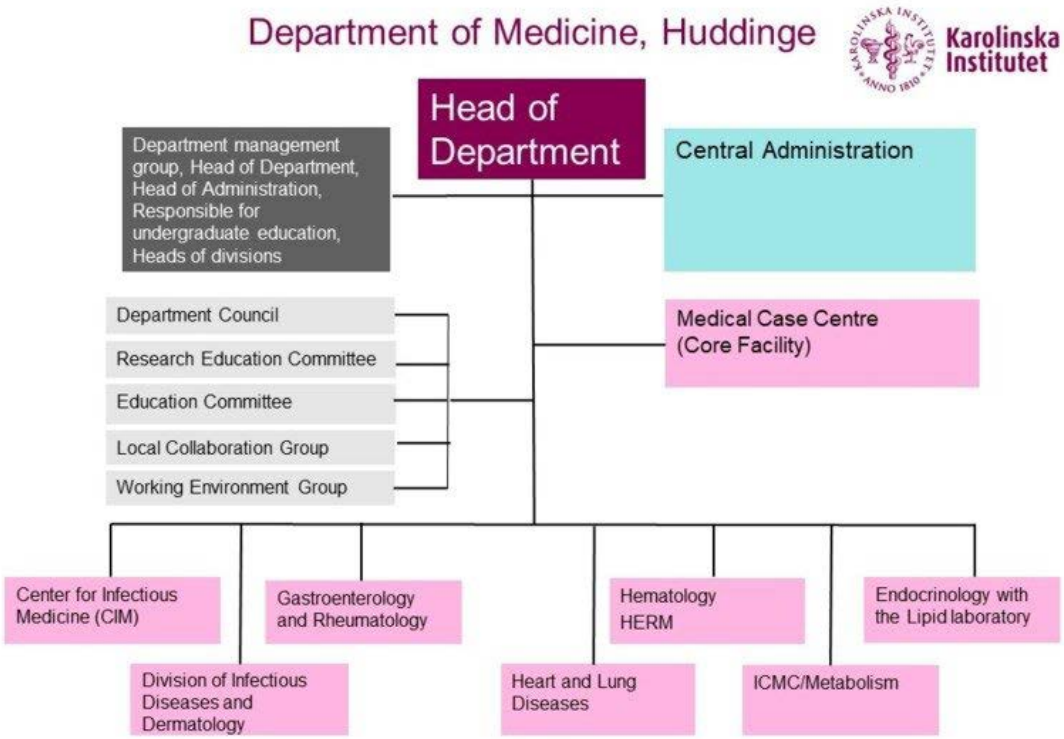
Medical Unit: Endocrinology
Head: David Nathansson

Section: ANOVA
Acting Director: Katarina Görts Öberg

Karolinska Institutet



Department of Medicine, Huddinge



Head of Department: Petter Höglund

Section: Endocrinology and Diabetes, head: Mikael Rydén

Unit: ANOVA, Stefan Arver

CENTRE PHOTOS

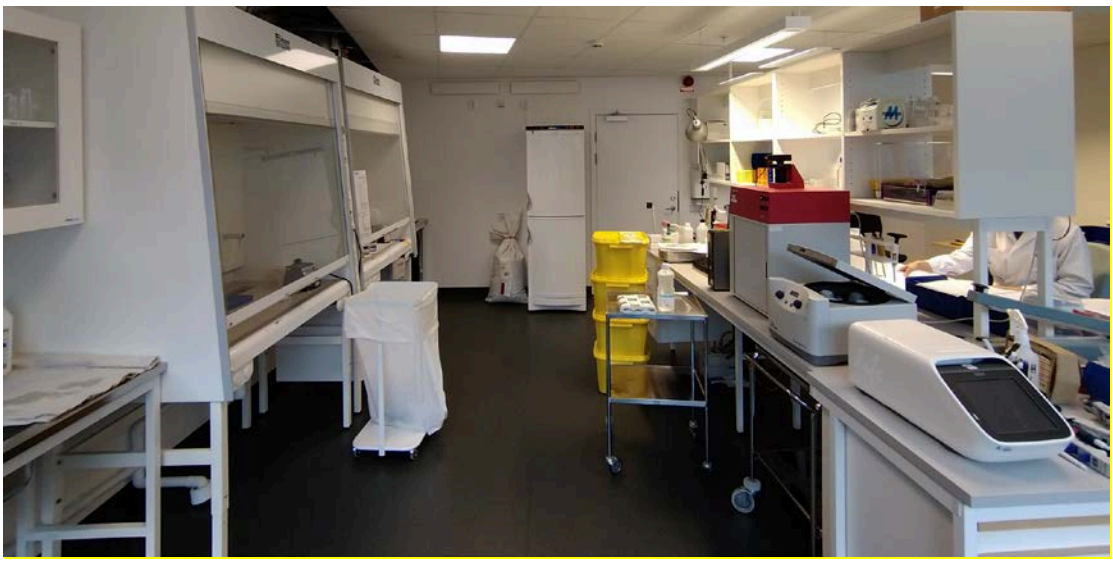
Entrance and waiting room

Office and staff area

Library and meeting room

Corridor to reception rooms

Main laboratory



Research and biochemistry laboratory

FULL LIST OF PUBLICATIONS of staff members from the last 5 years

Impact Factors - 2019

ACS Appl Mater Interfaces	8.456
Acta Psychiatr Scand	4.694
Aging Male	2.500
Andrologia	1.840
Andrology	3.106
Ann Oncol	14.196
Ann Surg	9.476
Arch Sex Behav	3.116
Arch Suicide Res	2.316
Asian J Androl	2.862
Autism Res	3.697
Biochemical Pharmacology	4.960
Biol Psychiatry	11.501
BMC Psychiatry	2.666
BMC Public Health	2.567
BMJ Open	2.376
Br J Surg	5.586
Brain Imaging Behav	3.418
Cereb Cortex	5.437
Cogn Affect Behav Neurosci	2.661
Cogn Behav Ther	2.843
Diab Vasc Dis Res	2.357
EBioMedicine	6.680
Epigenetics	4.173
Eur Child Adolesc Psychiatry	3.740
Eur J Neurol	4.387
Eur J Neurosci	2.784
Eur J Prev Cardiol	5.640
Eur J Public Health	2.234
Eur Psychiatry	3.941
Hum Reprod	5.506

Hum Reprod Update	12.878
Int J Clin Pract	2.613
Int Rev Psychiatry	2.991
J Affect Disord	4.084
J Behav Addict	4.873
J Child Psychol Psychiatry	6.129
J Clin Endocrinol Metab	5.605
J Clin Psychiatry	4.023
J Sex Med	3.649
J Speech Lang Hear Res	1.749
J Voice	1.453
JAMA Dermatol	7.995
JAMA Psychiatry	15.916
LGBT Health	3.307
Mayo Clin Proc	7.091
Menopause	2.942
Mol Psychiatry	11.973
Nat Rev Urol	9.333
PLoS One	2.776
Psychiatry Res	2.208
Psychiatry Res Neuroimaging	2.270
Psychoneuroendocrinology	4.013
Reprod Biomed Online	2.930
Sci Rep	4.011
Sex Med	1.444
Soc Psychiatry Psychiatr Epidemiol	3.152
Thyroid	7.786
Transl Psychiatry;	5.182

18

Publications

1. Armuand, G., Dhejne, C., Olofsson, J. I., & Rodriguez-Wallberg, K. A. (2017). Transgender men's experiences of fertility preservation: a qualitative study. Hum Reprod, 32(2), 383-390. https://doi.org/10.1093/humrep/dew323
2. Armuand, G., Dhejne, C., Olofsson, J. I., Stefenson, M., & Rodriguez-Wallberg, K. A. (2020). Attitudes and experiences of health care professionals when caring for transgender men undergoing fertility preservation by egg freezing: a qualitative study. Ther Adv Reprod Health, 14, 2633494120911036. https://doi.org/10.1177/2633494120911036
3. Arver, S., Kvist, U., & Björndahl, L. (2020). In Memoriam: Rune Eliasson MD, PhD. Andrology, 8(3), 530-531. https://doi.org/10.1111/andr.12798
4. Arver, S., Stief, C., de la Rosette, J., Jones, T. H., Neijber, A., & Carrara, D. (2018). A new 2% testosterone gel formulation: a comparison with currently available topical preparations. Andrology, 6(3), 396-407. https://doi.org/10.1111/andr.12487
5. Barratt, C. L. R., Bjorndahl, L., De Jonge, C. J., Lamb, D. J., Osorio Martini, F., McLachlan, R., . . . Tournaye, H. (2017). The diagnosis of male infertility: an analysis of the evidence to support the development of global WHO guidance-challenges and future research opportunities. Hum Reprod Update, 23(6), 660-680. https://doi.org/10.1093/humupd/dmx021
6. Bendix, M., Uvnäs-Moberg, K., Petersson, M., Kaldo, V., Åsberg, M., & Jokinen, J. (2018). Corrigendum to "Insulin and glucagon in plasma and cerebrospinal fluid in suicide attempters and healthy controls" [Psychoneuroendocrinology 81 (2017) 1-7]. Psychoneuroendocrinology, 94, 168. https://doi.org/10.1016/j.psyneuen.2018.04.014
7. Bihlar Muld, B., Jokinen, J., Bölte, S., & Hirvikoski, T. (2016). Skills training groups for men with ADHD in compulsory care due to substance use disorder: a feasibility study. Atten Defic Hyperact Disord, 8(3), 159-172. https://doi.org/10.1007/s12402-016-0195-4
8. Bjureberg, J., Ohlis, A., Ljótsson, B., D'Onofrio, B. M., Hedman-Lagerlöf, E., Jokinen, J., . . . Hellner, C. (2019). Adolescent self-harm with and without suicidality: cross-sectional and longitudinal analyses of a Swedish regional register. Journal of Child Psychology and Psychiatry and Allied Disciplines, 60(3), 295-304. https://doi.org/10.1111/jcpp.12967
9. Bjureberg, J., Sahlin, H., Hedman-Lagerlöf, E., Gratz, K. L., Tull, M. T., Jokinen, J., . . . Ljótsson, B. (2018). Extending research on Emotion Regulation Individual Therapy for Adolescents (ERITA) with nonsuicidal self-injury disorder: open pilot trial and mediation analysis of a novel online version. BMC Psychiatry, 18(1), 326. https://doi.org/10.1186/s12888-018-1885-6
10. Bjureberg, J., Sahlin, H., Hellner, C., Hedman-Lagerlöf, E., Gratz, K. L., Bjärehed, J., . . . Ljótsson, B. (2017). Emotion regulation individual therapy for adolescents with nonsuicidal self-injury disorder: a feasibility study. BMC Psychiatry, 17(1), 411. https://doi.org/10.1186/s12888-017-1527-4
11. Björkenstam, C., Tinghög, P., Brenner, P., Mittendorfer-Rutz, E., Hillert, J., Jokinen, J., & Alexanderson, K. (2015). Is disability pension a risk indicator for future need of psychiatric healthcare or suicidal behavior among MS patients- a nationwide register study in Sweden? BMC Psychiatry, 15, 286. https://doi.org/10.1186/s12888-015-0668-6
12. Björndahl, L. (2016). Compliance with recommendations for reliable semen analysis results - a matter of importance for patients and scientific development. Andrology, 4(5), 771-772. https://doi.org/10.1111/andr.12247
13. Björndahl, L., Barratt, C. L., Mortimer, D., & Jouannet, P. (2016). 'How to count sperm properly': checklist for acceptability of studies based on human semen analysis. Hum Reprod, 31(2), 227-232. https://doi.org/10.1093/humrep/dev305

14. Björndahl, L., & Holmberg, R. (2017). The Semen Analysis - the investigation of the Human Ejaculate. In M. Simoni & I. T. Huhtaniemi (Eds.), Endocrinology of the Testis and Male Reproduction (Vol. 1, pp. 535-554): Springer International Publishing AG.

15. Björndahl, L., Magnusson, K., & Holmberg, R. (2018). Validation of Cellvision Disposable 100 Micrometer Hemocytometer With Improved Neubauer Ruling. Andrology, 6(S1).

16. Bogefors, K., Giwercman, Y. L., Eberhard, J., Stahl, O., Cavallin-Stahl, E., Cohn-Cedermark, G., . . . Giwercman, A. (2017). Androgen receptor gene CAG and GGN repeat lengths as predictors of recovery of spermatogenesis following testicular germ cell cancer treatment. Asian J Androl, 19(5), 538-542. https://doi.org/10.4103/1008-682x.191126

17. Boström, A. E., Chatzittofis, A., Ciuculete, D. M., Flanagan, J. N., Krattinger, R., Bandstein, M., . . . Jokinen, J. (2020). Hypermethylation-associated downregulation of microRNA-4456 in hypersexual disorder with putative influence on oxytocin signalling: A DNA methylation analysis of miRNA genes. Epigenetics, 15(1-2), 145-160. https://doi.org/10.1080/15592294.2019.1656157

18. Brenner, P., Burkill, S., Jokinen, J., Hillert, J., Bahmanyar, S., & Montgomery, S. (2016). Multiple sclerosis and risk of attempted and completed suicide - a cohort study. European Journal of Neurology, 23(8), 1329-1336. https://doi.org/10.1111/ene.13029

19. Brenner, P., Mittendorfer-Rutz, E., Jokinen, J., Alexanderson, K., Hillert, J., & Tinghög, P. (2016). Prescribed psychiatric medication among multiple sclerosis patients before and after disability pension: a register study with matched controls. Social Psychiatry and Psychiatric Epidemiology, 51(7), 1047-1054. https://doi.org/10.1007/s00127-016-1234-3

20. Buchli, C., Martling, A., Abani, M. A., Frödin, J. E., Bottai, M., Lax, I., . . . Holm, T. (2018). Risk of Acute Testicular Failure After Preoperative Radiotherapy for Rectal Cancer: A Prospective Cohort Study. Annals of Surgery, 267(2), 326-331. https://doi.org/10.1097/sla.0000000000002081

21. Buchli, C., Tapper, J., Bottai, M., Holm, T., Arver, S., Blomqvist, L., & Martling, A. (2015). Testosterone and body composition in men after treatment for rectal cancer. J Sex Med, 12(3), 774-782. https://doi.org/10.1111/jsm.12751

22. Budhiraja, M., Pereira, J. B., Lindner, P., Westman, E., Jokinen, J., Savic, I., . . . Hodgins, S. (2019). Cortical structure abnormalities in females with conduct disorder prior to age 15. Psychiatry Res Neuroimaging, 289, 37-44. https://doi.org/10.1016/j.pscychresns.2018.12.004

23. Budhiraja, M., Savic, I., Lindner, P., Jokinen, J., Tiihonen, J., & Hodgins, S. (2017). Brain structure abnormalities in young women who presented conduct disorder in childhood/adolescence. Cogn Affect Behav Neurosci, 17(4), 869-885. https://doi.org/10.3758/s13415-017-0519-7

24. Burke, S. M., Manzouri, A. H., Dhejne, C., Bergström, K., Arver, S., Feusner, J. D., & Savic-Berglund, I. (2018). Testosterone Effects on the Brain in Transgender Men. Cerebral Cortex, 28(5), 1582-1596. https://doi.org/10.1093/cercor/bhx054

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