

Name of the Centre

Imperial Andrology Centre

Address

Department of Urology
Imperial College Healthcare Trust
Fulham Palace road
Hammersmith
London
W6 8RF
Tel: 020 3311 1234

Charing Cross Hospital

Fulham Palace Road
London W6 8RF
020 3311 1234

Hammersmith Hospital

Du Cane Road
London W12 0HS
020 3313 1000

Queen Charlotte's & Chelsea Hospital

Du Cane Road
London W12 0HS
020 3313 1111

St Mary's Hospital

Praed Street
London W2 1NY
020 3312 6666

Western Eye Hospital

Marylebone Road
London NW1 5QH
020 3312 6666

Website URL

<https://www.imperial.nhs.uk/our-services/fertility-and-reproductive-medicine/male-fertility>

Director and previous Director(s)

Professor Suks Minhas, Consultant Andrologist

History: max. 10 lines (150 words) per decade of the Centre existence

The Wolfson Fertility Centre was established by Professor Lord Robert Winston in 1982. It provided one of the first and largest fertility services in the UK. Subsequently, Dr Kevin Lindsay, a clinical scientist, developed the andrology service.

In the 1970s, the Chelsea Hospital for Women recognised the need for the investigation of male partners by specialists. Urologist William "Bill" Hendry and Dr Louis Hughes

offered investigation of male partners and treatment with donor sperm, which was subsequently expanded by the addition of IVF by Mr Keith Edmonds and Dr Lindsay.

Relocated to Hammersmith Hospital, the Andrology laboratory continued to provide excellent service by internationally acclaimed Mr Jonathan Ramsay, male fertility specialist. Further collaboration with another internationally renowned andrological specialist Mr Suks Minhas, previously from University College London, has led to the rapid expansion of the unit as a tertiary referral centre.

Organisation of the Department – current medical /research groups, laboratories, with the main academic/scientific staff (only andrology related) (can be in a table form)

Organization charts legend: Department / Unit Structure

Unit name
Imperial Andrology, Imperial College Healthcare Trust, Fulham Palace
Road London W6 8PE,

Director: Mr Suks Minhas – **Co-Director:** Mr Musaab Yassin

<p>Staff:</p> <p>Andrology and Urology Professor Suks Minhas Mr Musaab Yassin</p> <p>Reproductive Endocrinology Dr Channa Jayasena</p> <p>Sexual Medicine Dr David Goldmeier Alison Mears</p> <p>Reproductive fertility and IVF Services Mr Rehan Salim Rajendra Rai Mr Stuart Lavery Lisa Webber Monica Mittal</p> <p>Clinical Fellows in Andrology Mr Elsayed Desouky Mr Efstathios Papaefstathiou</p>	<p>Specialty Trainee Registrars Mr Michael Ager</p> <p>Nurses: Roisin Warden Evripidis Ntakovanos Monica Figueiredo Agnes Mosobela</p> <p>Psychologists: Sasha Whaley Agnes Kocsis John Helps</p> <p>Embryologists and lab: Lia Joanniou Dalia Khalifa Ivy Floyd Michelyn Duldulayo</p> <p>Senior Physiotherapist: Sarah Wolujewicz</p>	<p>Managers: Lia Joannou Lydia Salice Harry Monaghan</p> <p>Personal Assistants: Alison Lenny Jenna Heggaton</p>
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Clinical training programme (summary)

The Andrology surgical service has been established for almost 30 years. It is the lead provider of andrological specialist training in North London. It offers a comprehensive service in Male fertility, penile and genital reconstructive surgery (including Peyronie’s disease) and penile prosthetics. It is a

supra-regional centre for Andrology and testis cancer. It offers fertility preservation, testis sparing surgery and Onco-TESE. The unit is at the forefront of technical innovation and research in Andrology in the UK and internationally.

The centre is supported by 4 integrated sub-specialty units:

1. **Department of Urology and Andrology**
The department is the lead provider of urology specialist training in North London.
2. **The Wolfson Fertility Centre**
The centre provides one of the first and largest fertility services in the UK offering a comprehensive range of fertility options.
3. **Sexual Medicine Clinic**
The clinic is an internationally renowned centre in sexual health and function.
4. **Reproductive Endocrinology and Laboratory Andrology**
Imperial has an internationally leading endocrinology department, which has conducted some of the top research trials in reproductive endocrinology in the current decade. The Andrology Laboratory has a renowned sperm bank and one of a few to offer WHO diagnostic semen analysis, semen reactive oxygen species (ROS) and sperm DNA fragmentation assays.

Educational activities

The unit leads on several PhD, MD, and BSc programmes with an academic focus in medicine, biochemistry, genetics and embryology. The record in 2019 for the BSc students is 100% first class for their degrees with best prize for one student of 350 students. In 2020, there are currently 4 BSc students for 2 MSc students and 5 PhD students.

There are 2 clinical fellows and one national fellowship programme sponsored by industry.

The unit is involved in the Residency program of the School of Endocrinology for post graduates in Medicine, School of Urology for post graduate in Medicine and School of Paediatrics and Genetics. More recently, the Urology unit has developed an MSc and BSc in surgical innovation.

Suks Minhas is Co-chair of the EAU guidelines on Sexual and reproductive health and therefore the unit is at the forefront of evidenced based Andrology.

Suks Minhas has trained 15 Andrologists over the last 17 years, all who have become consultants in Andrology in the UK and beyond. The lead clinicians have facilitated post-graduate Masters, PhD and Masters courses. They have also co-facilitated and organised national and international courses on Andrology, Sexual Medicine and Endocrinology. The unit also provides specialist training to endocrinologists, urologists, gynaecologists, and general practitioners under the direction of Suks Minhas, Channa Jayasena, Jonathan Ramsay and David Goldmeier and Rehim Selim. The educational program of the post-graduate courses lasts at least 3 months but often can be up to 18 months. This includes weekly high-quality teaching, journal club, tutored outpatients and surgical exposure to microTESE and penoscrotal complex procedures. The Surgical service has a national post CCT fellow and two surgical registrars. There are currently 5 doctorate fellows and a new BSc and MSc programmes commencing in 2019/2020 in surgical innovation.

The centre is also training psychologists and psychotherapists with an interest in sexual medicine, gender identity disorder and sexual dysfunction. Furthermore, the centre regularly trains undergraduate and postgraduate students in embryology, biotechnology and laboratory technical assistance and students in Medicine for their thesis. It also accommodates international fellows who routinely attend for education and training.

Dr. Jayasena is a Reader in Reproductive Endocrinology at Imperial College London. He is Academic Director of the Health Education England Foundation Programme for NW London, and was formerly Director of Clinical Studies (lead for undergraduate training) at Hammersmith Hospital between 2014-18.

The EAA centre status will facilitate the further development of EAA national and international courses and teaching programmes. It would also enable closer co-ordination with educational activities at other EAA centres.

Clinical activity

Like most centres worldwide, the pandemic significantly affected our case volume. However, our most recent service evaluation revealed that the centre is on track to full recovery.

Clinical Service Evaluation (October 22 – March 23)

We have included below our recent post-pandemic evaluation of our clinical service recovery.

A. Outpatient Activity: Charing Cross Hospital

Consultation Type	Oct	Nov	Dec	Jan	Feb	Mar	Total
New	51	29	25	30	31	18	184
Follow Up	121	97	78	96	71	49	512
New to Follow Up Ratio	0.4	0.3	0.3	0.3	0.4	0.4	0.35
DNA	51	35	39	39	42	10	216
Total Attended	172	126	103	126	102	67	696
Total Booked	223	161	142	165	144	77	912

B. Outpatients: Consultations per year in 2019

	2018	2019												2020	Grand Total		
	Qtr4 Oct	Nov	Dec	Qtr1 Jan	Feb	Mar	Qtr2 Apr	May	Jun	Qtr3 Jul	Aug	Sep	Qtr4 Oct	Nov		Dec	Qtr1 Jan
Follow Up	81	97	93	129	101	114	144	146	155	160	157	158	126	153	201	195	2210
Urology Andrology F/Up	16	17	17	31	25	21	29	10	31	32	15	16	9	11	17	19	316
Urology CNS F/Up														3	1	1	5
Urology ED F/Up	39	50	30	40	32	37	34	21	33	33	44	45	43	59	66	58	664
Urology F/Up	6	5	13	10		5	6	4		1	1	1	1		8	5	66
Urology General TestesErectileDysfunc Fu				1		1											2
Urology Nurse F/Up	12	16	16	20	20	41	49	80	64	44	54	73	50	63	87	74	763
Urology Nurse Telephone F/Up		2	5	3	2	2	3	2	4	8	11	1	2	3	3	2	53
Urology SPR Telephone F/Up			1							2	4	1	4	4	3	6	25
Urology Telephone F/Up	8	7	10	25	22	7	23	29	23	40	28	21	17	10	16	30	316
New	57	90	82	69	41	66	91	31	45	80	84	70	43	97	99	103	1148
Repro Male Fertility New																2	2
Urology Andrology New	20	44	41	26	18	17	20	11	4	12	7	15	7	43	15	19	319
Urology ED New	36	37	35	40	22	48	71	20	38	67	70	51	35	44	67	72	753
Urology General TestesErectileDysfunc Ne	1	4		1		1				2	1	1					11
Urology New		5	6	2	1				1		6	3	1	10	17	10	62
Urology Telephone New											1						1
Grand Total	138	187	175	198	142	180	235	177	200	240	241	228	169	250	300	298	3358

C. Outpatients: Types of consultations for Surgical Andrology

Our patient's case mix continues to follow a similar pattern.

Type of patients by pathology	
Infertility (includes varicocele, cryptorchidism and Klinefelters)	30%
Erectile dysfunction	20%
Endocrine disorders	10%
Male sex accessory gland infections and pelvic pain	10%
Testicular Tumours	5%
Disorders of gender identity	5%
Penile Reconstruction and Peyronie's disease	20%

D. Elective Surgery: case mix

Procedure	Oct	Nov	Dec	Jan	Feb	Mar	Total
Reconstruction	-	1	1	1	1	1	5
Fertility	1	1	1	2	7	-	12
Testis Cancer	3	2	5	1	4	1	16
Peyronie's	2	1	-	-	-	-	3
Penile prosthesis	2	1	-	2	2	1	8
Others	17	13	6	6	8	5	55
Total	24	19	13	12	22	8	98

D. Diagnostics

Ultrasound testis, penile doppler and prostate activity have recovered. MRI penile and genital area is also done frequently. Approximately 1300 examinations are undertaken during the same time frame.

E. Andrology laboratory activity

	2016	2017	2018	2022-2023
Semen analyses	3670	3575	4143	3455
Sperm antibodies	1700	1700	1850	1600

F. IVF

In 2022-2023, there were approx. 900 fresh egg collections and 500 frozen embryo transfers.

Research activities

Studies and research play a significant role in the department. There are ongoing studies in endocrine, genetic, biochemical and pharmacological effects on male infertility as well as using novel technologies to enhance assessment and diagnosis. The unit is at the forefront of both clinical and laboratory trials.

Current Studies and Trials

Investigating the effects of caloric restriction of sperm gene expression and DNA methylation in obese men

Investigating the effects of weight loss on male fertility.

Investigating novel markers in male infertility: A prospective cohort study to identify the role of seminal microbiome, reactive oxygen species and sperm DNA fragmentation in male infertility

Investigating infertility in patients with loss of gonadal function.

Sperm Retrieval and Semen testing

Utilizing a novel method of semen oxidation-reduction potential measurement to assess male reproductive function.

Investigating whether genetic sequencing can be used to predict successful sperm retrieval following microsurgical testicular sperm extraction (mTESE) in men with non-obstructive azoospermia.

Investigating the clinical significance of genetic variants in men with non-obstructive azoospermia undergoing sperm retrieval following microsurgical testicular sperm extraction (mTESE).

Improving the care pathway for young men with infertility following cancer treatment.

Age, ethnicity, BMI, and other lifestyle factors effect on IVF outcomes from Lister Hospital, London.

Effects of different types of cancer on semen parameters, before newly diagnosed men with cancer receive oncological treatment in Hammersmith Hospital

Endocrine

Effects and Safety of Testosterone in Men with Low Testosterone levels: an evidence synthesis and economic evaluation. The TESTES (Testosterone Effects and Safety) Consortium.

Targeted caloric restriction to improve sperm quality in obese men with infertility.

Does the novel myeloperoxidase (MPO) inhibitor AZD5904 improve sperm function by reducing reactive oxidative stress (ROS) during obesity-induced male infertility?

Investigating the metabolic regulation of male fertility

Investigating the effects of diabetes on male fertility

Hormonal induction of spermatogenesis in Azoospermic patients i.e., use of Tamoxifen, clomid, gonadotrophins, testosterone gel.

Technology

Improving the care pathway for young men with infertility following cancer treatment.

DNA fragmentation and COMET in pregnancy outcomes

Psychological

Investigating the clinical impact of fertility surveillance on psychosexual support experienced by survivors of cancer.

[Current research projects \(clinical and basic, only andrology-related\): max. 150 words per project](#)

The unit is at the forefront of both clinical and laboratory trials. The focus of our research at Imperial is improving our understanding of male reproductive disorders, Men's Health and focusing on novel translational research to improve fertility outcomes in male patients. All the units work closely together which is reflected in our extensive research portfolio and publications. We are working on the following research projects:

Investigating the role of DNA fragmentation in predicting the outcomes from assisted reproductive technologies and natural conception: We have recently led a study identifying that sperm DNA fragmentation is a predictive biomarker of outcomes from IVF/ICSI. Patients can be stratified into risk groups for success (Human Reproduction 2019). One of the causes of DNA fragmentation is oxidative stress and the future focus (see below) is to identify how male factors cause DNA damage and be therapeutically modified.

An ongoing study is analysing the outcomes of ICSI using testicular sperm in men with raised DNA fragmentation and determine the clinical utility of a novel biomarker-the neutral Comet assay.

Investigating novel biomarkers in male infertility. This prospective study will determine the pathophysiological association of the seminal microbiome and infertility; using NGS, measuring reactive oxygen species and sperm DNA fragmentation- we are investigating their inter-relationship in infertile men and is the first study to evaluate the effects of the seminal microbiome on male fertility. Comparisons will be made of semen analysis, DNA fragmentation and ROS levels in unexplained infertility, male fertility and fertile controls.

Investigating the effects of weight loss on male fertility. This randomised controlled study will investigate the effects of weight loss on sperm quality and cardio-metabolic health comparing a low energy diet versus control in obese men. We are also investigating the mechanisms underlying improvements in fertility during weight loss e.g., oxidative stress in obese infertile men by measuring DNA fragmentation and oxidative stress levels.

Investigating the effects of caloric restriction of sperm gene expression and DNA methylation in obese men

This study will improve our understanding of the epigenetic effects of weight loss on sperm and potentially develop novel pharmacological approaches for treatment of infertile men. Pilot data suggests that weight loss using low energy diet (LED) may increase sperm function in obese men. Weight loss remodels the epigenetic signature of spermatozoa in obese men and targeted caloric restriction may alter the DNA methylation profile and gene expression. This study will investigate the effect of weight loss on the histone positioning of sperm and how RNA expression profile is altered by weight loss. We will also determine the DNA methylation profile of sperm at weight loss interventions.

Investigating the genetic basis of azoospermia: We are using next generation sequencing to identify novel genes causing non-obstructive azoospermia aiming to identify novel biomarkers predictive of spermatogenesis. We will also study the in vitro effects of specific gene mutations on germ cell function using a novel human pluripotent stem cell like cell (PGCLCs) model.

[Andrology-related meetings, workshops and courses organized within the last 5 years \(since 2017\)](#)

Surgical management of Peyronie's disease

Surgical management of penile diseases

AGOUR - a national training course in andrology (Biannual)

European Residents Training programme in Urology (EUREP), Faculty

Weill Cornell Masterclass in General Urology- Faculty

European Society of Andrological Urology- Faculty
Boston Scientific Masterclass in Penile Implants
Coloplast Andrology Masterclass (Annual)
European School of Urology ESU courses, among many others.

Main sources of funding (only main current supporters)

National Health Service (NHS)
National Institute of Healthcare Research (NIHR)
Clinical Research Network (CRN)
Imperial College Healthcare Charity
Imperial College Healthcare Private Services
Medical Research Council Developmental Funding Pathway Scheme (DPFS)
Academy of Medical Sciences
Wellcome Trust

Publications (andrology-related only):

Total number within last 6 years (since 2017) of full papers only
(Original studies, review articles, book chapters)

2023

Controversy and Consensus on the Management of Elevated Sperm DNA Fragmentation in Male Infertility: A Global Survey, Current Guidelines, and Expert Recommendations.
Farkouh A, Agarwal A, Hamoda TAA, Kavoussi P, Saleh R, Zini A, Arafa M, Harraz AM, Gul M, Karthikeyan VS, Durairajanayagam D, Rambhatla A, Boitrelle F, Chung E, Birowo P, Toprak T, Ghayda RA, Cannarella R, Phuoc NHV, Dimitriadis F, Russo GI, Sokolakis I, Mostafa T, Makarounis K, Ziouziou I, Kuroda S, Bendayan M, Kaiyal RS, Japari A, Simopoulou M, Rocco L, Garrido N, Gherabi N, Bocu K, Kahraman O, Le TV, Wyns C, Tremellen K, Sarikaya S, Lewis S, Evenson DP, Ko E, Calogero AE, Bahar F, Martinez M, Crafa A, Nguyen Q, Ambar RF, Colpi G, Bakircioglu ME, Henkel R, Kandil H, Serefoglu EC, Alarbid A, Tsujimura A, Kheradmand A, Anagnostopoulou C, Marino A, Adamyan A, Zilaitiene B, Ozer C, Pescatori E, Vogiatzi P, Busetto GM, Balercia G, Elbardisi H, Akhavizadegan H, Sajadi H, Taniguchi H, Park HJ, Rosas IM, Al-Marhoon M, Gilani MAS, Alhathal N, Pinggera GM, Kothari P, Mogharabian N, Micic S, Homa S, Darbandi S, Long TQT, Zohdy W, Atmoko W, Sabbaghian M, Ibrahim W, Smith RP, Ho CCK, de la Rosette J, El-Sakka AI, Preto M, Zenoaga-Barbăroşie C, Abumelha SM, Baser A, Aydos K, Ramirez-Dominguez L, Kumar V, Ong TA, Mierzwa TC, Adriansjah R, Banihani SA, Bowa K, Fukuhara S, Peña MR, Moussa M, Ari...See abstract for full author list →World J Mens Health. 2023 Apr 20. doi: 10.5534/wjmh.230008. Online ahead of print.PMID: 37118965 Free article

The Role of Seminal Oxidative Stress in Recurrent Pregnancy Loss.
Davies R, Jayasena CN, Rai R, Minhas S.Antioxidants (Basel). 2023 Mar 15;12(3):723. doi: 10.3390/antiox12030723.PMID: 36978971 Free PMC article. Review.

Approach to the patient: the evaluation and management of men \geq 50 years with a low serum testosterone concentration.

Grossmann M, Jayasena CN, Anawalt BD. *J Clin Endocrinol Metab.* 2023 Mar 30;dgad180. doi: 10.1210/clinem/dgad180. Online ahead of print. PMID: 36995891

Radiological features characterising indeterminate testes masses: a systematic review and meta-analysis.

Ager M, Donegan S, Boeri L, de Castro JM, Donaldson JF, Omar MI, Dimitropoulos K, Tharakan T, Janisch F, Muilwijk T, Yuan C, Tudur-Smith C, Nijman RJM, Radmayr C, Salonia A, Laguna Pes MP, Minhas S. *BJU Int.* 2023 Mar;131(3):288-300. doi: 10.1111/bju.15869. Epub 2022 Oct 9. PMID: 35980855 Review.

Survey of endocrinologists managing recovery from anabolic androgenic steroid induced hypogonadism.

Grant B, Pradeep A, Minhas S, Dhillo WS, Quinton R, Jayasena CN. *Reprod Fertil.* 2023 Feb 27;4(1):e220097. doi: 10.1530/RAF-22-0097. Print 2023 Jan 1. PMID: 36757334 Free PMC article.

The use of hormone stimulation in male infertility.

Foran D, Chen R, Jayasena CN, Minhas S, Tharakan T. *Curr Opin Pharmacol.* 2023 Feb;68:102333. doi: 10.1016/j.coph.2022.102333. Epub 2022 Dec 27. PMID: 36580771 Free article. Review.

Understanding and treating ejaculatory dysfunction in men with diabetes mellitus.

Desai A, Chen R, Cayetano A, Jayasena CN, Minhas S. *Andrology.* 2023 Feb;11(2):379-398. doi: 10.1111/andr.13262. Epub 2022 Aug 26. PMID: 35933708 Review.

The management of erectile dysfunction in men with diabetes mellitus unresponsive to phosphodiesterase type 5 inhibitors.

Cayetano-Alcaraz AA, Tharakan T, Chen R, Sofikitis N, Minhas S. *Andrology.* 2023 Feb;11(2):257-269. doi: 10.1111/andr.13257. Epub 2022 Aug 17. PMID: 35929992 Review.

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Falcone M, Sokolakis I, Capogrosso P, Yuan Y, Salonia A, Minhas S, Dimitropoulos K, Russo GI; European Association of Urology (EAU) guidelines working on Male Sexual and Reproductive Health and EAU-Young Academic Urologists (EAU-YAU) Sexual and Reproductive Health Working Group. *BJU Int.* 2023 Jan;131(1):8-19. doi: 10.1111/bju.15696. Epub 2022 Feb 23. PMID: 35044046 Review.

2022

Consensus and Diversity in the Management of Varicocele for Male Infertility: Results of a Global Practice Survey and Comparison with Guidelines and Recommendations.

Shah R, Agarwal A, Kavoussi P, Rambhatla A, Saleh R, Cannarella R, Harraz AM, Boitrelle F, Kuroda S, Hamoda TAA, Zini A, Ko E, Calik G, Toprak T, Kandil H, Gül M, Bakırcıoğlu ME, Parekh N, Russo GI, Tadros N, Kadioglu A, Arafa M, Chung E, Rajmil O, Dimitriadis F, Malhotra V, Salvio G, Henkel R, Le TV, Sogutdelen E, Vij S, Alarbid A, Gudeloglu A, Tsujimura A, Calogero AE, El Meliegy A, Crafa A, Kalkanli A, Baser A, Hazir B, Giulioni C, Cho CL, Ho CCK, Salzano C, Zylbersztejn DS, Tien DMB, Pescatori E, Borges E, Serefoglu EC, Saïs-Hamza E, Huyghe E, Ceyhan E, Caroppo E, Castiglioni F, Bahar F, Gokalp F, Lombardo F, Gadda F, Duarsa GWK, Pinggera GM, Busetto GM, Balercia G, Cito G, Blecher G, Franco G, Liguori G, Elbardisi H, Keskin H, Lin H, Taniguchi H, Park HJ, Ziouziou I, de la Rosette J, Hotaling J, Ramsay J, Molina JMC, Lo KL, Bocu K, Khalafalla K, Bowa K, Okada K, Nagao K, Chiba K, Hakim L, Makarounis K, Hehemann M, Peña MR, Falcone M, Bendayan M, Martinez M, Timpano M, Altan M, Fode M, Al-Marhoon MS, Sadighi Gilani MA, Soebadi MA, Gherabi N, Sofikitis N, Kahraman O, Birowo P, Kothari P, Sindhvani P, Javed Q, Ambar RF, Kosgi R, Ghayda RA, Adriansjah R, Condorelli RA, La Vignera...See abstract for full author list →World J Mens Health. 2023 Jan;41(1):164-197. doi: 10.5534/wjmh.220048. Epub 2022 Jun 13.PMID: 35791302 Free PMC article.

Adverse cardiovascular events and mortality in men during testosterone treatment: an individual patient and aggregate data meta-analysis.

Hudson J, Cruickshank M, Quinton R, Aucott L, Aceves-Martins M, Gillies K, Bhasin S, Snyder PJ, Ellenberg SS, Grossmann M, Travison TG, Gianatti EJ, van der Schouw YT, Emmelot-Vonk MH, Giltay EJ, Hackett G, Ramachandran S, Svartberg J, Hildreth KL, Groti Antonic K, Brock GB, Tenover JL, Tan HM, Kong CHC, Tan WS, Marks LS, Ross RJ, Schwartz RS, Manson P, Roberts S, Andersen MS, Magnussen LV, Hernández R, Oliver N, Wu F, Dhillon WS, Bhattacharya S, Brazzelli M, Jayasena CN.Lancet Healthy Longev. 2022 Jun;3(6):e381-e393. doi: 10.1016/S2666-7568(22)00096-4.PMID: 35711614 Free PMC article.

Understanding and managing the suppression of spermatogenesis caused by testosterone replacement therapy (TRT) and anabolic-androgenic steroids (AAS).

Desai A, Yassin M, Cayetano A, Tharakan T, Jayasena CN, Minhas S.Ther Adv Urol. 2022 Jun 26;14:17562872221105017. doi: 10.1177/17562872221105017. eCollection 2022 Jan-Dec.PMID: 35783920 Free PMC article. Review.

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Else L, Panchala SD, Pillay AD, Seiphetlo TB, Lebina L, Callebaut C, Minhas S, Morley R, Rashid T, Martinson N, Fox J, Khoo S, Herrera C; CHAPS Consortium.Pharmaceutics. 2022 Jun 16;14(6):1285. doi: 10.3390/pharmaceutics14061285.PMID: 35745857 Free PMC article.

Does hormonal therapy improve sperm retrieval rates in men with non-obstructive azoospermia: a systematic review and meta-analysis.

Tharakan T, Corona G, Foran D, Salonia A, Sofikitis N, Giwercman A, Krausz C, Yap T, Jayasena CN, Minhas S.Hum Reprod Update. 2022 Aug 25;28(5):609-628. doi: 10.1093/humupd/dmac016.PMID: 35526153 Free PMC article.

Impact of Antioxidant Therapy on Natural Pregnancy Outcomes and Semen Parameters in Infertile Men: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Agarwal A, Cannarella R, Saleh R, Harraz AM, Kandil H, Salvio G, Boitrelle F, Kuroda S, Farkouh A, Rambhatla A, Zini A, Colpi G, Gül M, Kavoussi P, Hamoda TAA, Ko E, Calik G, Toprak T, Pinggera GM, Park HJ, Ghayda RA, Minhas S, Busetto GM, Bakircioğlu ME, Kadioglu A, Chung E, Russo GI, Calogero AE, Ambar RF, Jayasena CN, Shah R. *World J Mens Health*. 2023 Jan;41(1):14-48. doi: 10.5534/wjmh.220067. Epub 2022 Sep 7. PMID: 36102104 Free PMC article.

Conservative and medical treatments of non-sickle cell disease-related ischemic priapism: a systematic review by the EAU Sexual and Reproductive Health Panel. Capogrosso P, Dimitropoulos K, Russo GI, Tharakan T, Milenkovic U, Cocci A, Boeri L, Gül M, Bettocchi C, Carvalho J, Kalkanlı A, Corona G, Hatzichristodoulou G, Jones HT, Kadioglu A, Martinez-Salamanca JI, Modgil V, Serefoglu EC, Verze P, Salonia A, Minhas S; EAU Working Group on Sexual and Reproductive Health. *Int J Impot Res*. 2022 Aug 22. doi: 10.1038/s41443-022-00592-2. Online ahead of print. PMID: 35995858 Review.

Androgens part 1: State-of-the-art.

Huhtaniemi I, Jayasena C. *Best Pract Res Clin Endocrinol Metab*. 2022 Jul;36(4):101690. doi: 10.1016/j.beem.2022.101690. Epub 2022 Aug 12. PMID: 36008276.

Androgens part 2: Emerging areas.

Huhtaniemi I, Jayasena C. *Best Pract Res Clin Endocrinol Metab*. 2022 Sep;36(5):101710. doi: 10.1016/j.beem.2022.101710. Epub 2022 Sep 20. PMID: 36155743.

Novel androgen therapies including selective androgen receptor modulators.

Kang J, Chen R, Tharakan T, Minhas S. *Best Pract Res Clin Endocrinol Metab*. 2022 Sep;36(5):101686. doi: 10.1016/j.beem.2022.101686. Epub 2022 Jul 30. PMID: 35981955 Review.

What is the effectiveness of surgical and non-surgical therapies in the treatment of ischemic priapism in patients with sickle cell disease? A systematic review by the EAU Sexual and Reproductive Health Guidelines Panel.

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