

Female

Male

- No evidence looking at alterations in hypothalamus-pituitary axis

- Alteration of FSH and LH levels

Alteration of:

- Sexual function
- Erectile function
- Prostate function
- Seminal vesicle function
- Testis structure

- Intratesticular inflammation
- Increased intratesticular oxidative stress
- Decreased testosterone levels
- Lower epididymal sperm number

- Increased apoptosis in spermatogonia and spermatocytes

- Lower sperm counts
- Lower sperm motility
- Lower sperm morphology

- No evidence looking at mutagenic effects

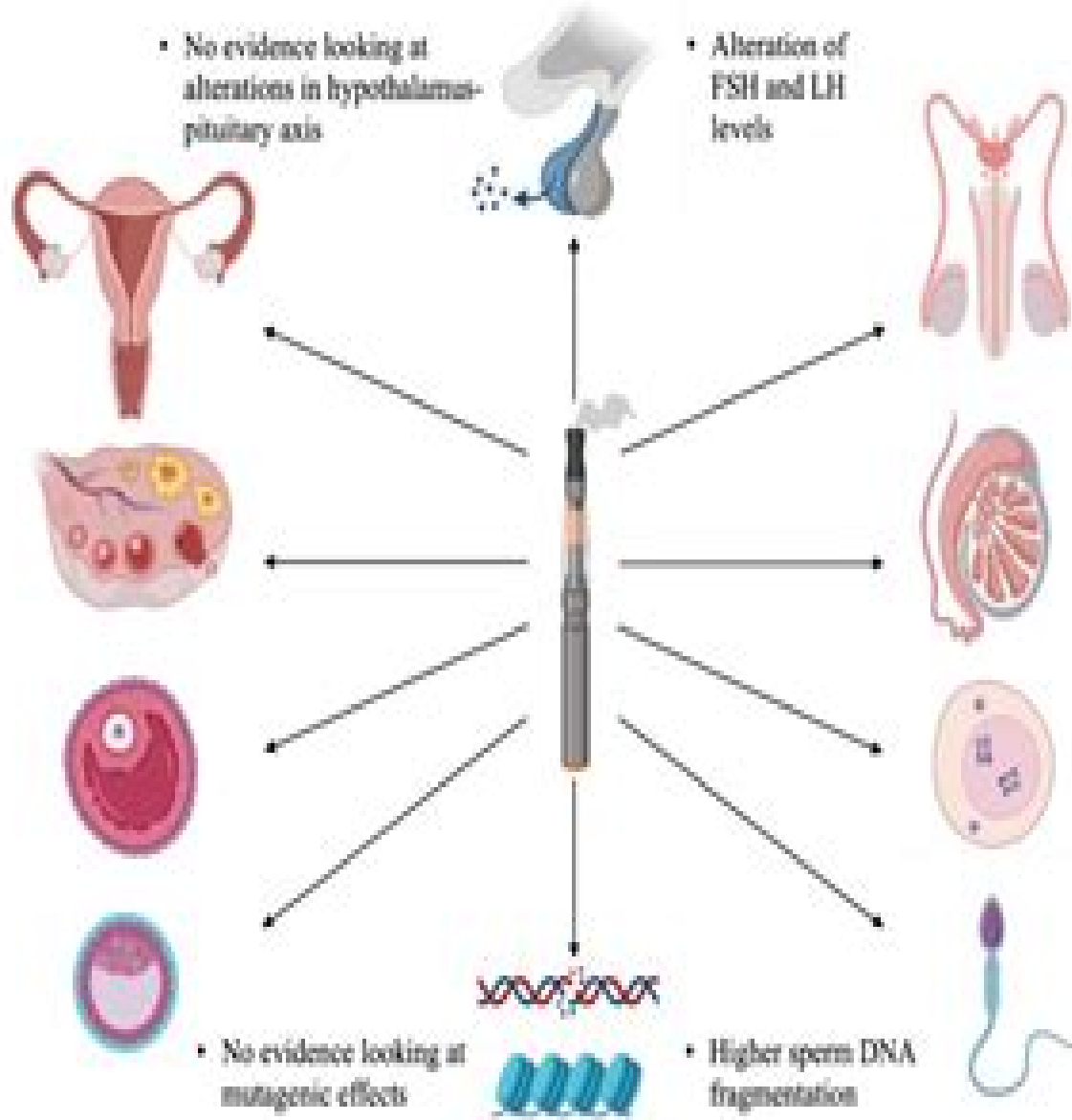
- Higher sperm DNA fragmentation

- Alteration of uterine receptivity
- Increased spontaneous abortion

- Steroidogenesis disruption
- Alteration of expression of FSHr, StAR, CYP11A1, CYP11B1, HSD17B1, SF1

- No evidence looking at alterations in oocyte quality

- No evidence looking at fertilization and blastocyst formation



Smoking And Reproduction

Huidong Zhang,Jie Yan



Smoking And Reproduction:

Smoking and Reproductive Health Michael J. Rosenberg, 1987 **Epidemiology of Human Reproduction** Bengt Kallen, 1988-09-30 This comprehensive overview covering the field of reproductive epidemiology examines the impact of environmental factors related to embryonic and fetal development Innovative techniques are highlighted illustrating special problems related to reproductive epidemiology Specific environmental risks are addressed separately concluding with a chapter on risk assessment and information problems Throughout the text is supported with over 70 illustrations of new findings never before published This is an invaluable resource for scientists in the field of reproductive epidemiology

Smoking and Reproduction Ernest L. Abel, 1982-12-20 Product information not available **Male Reproduction and Oxidative Stress, volume II** Shun Bai, Asim Ali, Weibin Bai, 2025-10-30 Given the success of Research Topic Male Reproduction and Oxidative Stress and the rapidly evolving subject area we are pleased to announce the launch of Volume II Infertility is defined as the failure to conceive with regular sexual intercourse after at least 1 year Collectively primary infertility inability to conceive after one year and secondary infertility infertility for one year after having conceived at least once before affect 10% 15% of couples globally and male factors contribute to approximately 50% of cases Both extrinsic factors age weight body composition heat exposure smoking drinking environmental pollutant exposure medical interventions and chemotherapeutic exposure and intrinsic factors cell apoptosis varicocele metabolic syndrome inflammation and male gland infection could induce oxidative stress OS which can lead to poor semen quality and male factor infertility Poor lifestyles including heavy drinking and smoking increased BMI and exposure to air toxics are all associated with increased cellular OS which can result in increased production of reactive oxygen species ROS In addition to lifestyles the level of sperm ROS also increases with age High levels of sperm ROS cause abnormal semen parameters in particular sperm concentration motility and DNA fragmentation Accordingly cellular OS should be considered in the routine clinical application of male infertility Anthocyanins which belong to one of the six subgroups of flavonoids have high antioxidant properties and may be positively associated with semen quality and male fertility Considering the emerging importance of intracellular ROS homeostasis in the development of gametes anthocyanins have been studied in reproductive development owing to the high sensitivity of anthocyanins to oxidative stress Until now several anthocyanins in fruits and other plant derived foods can confer protection in spermatogenesis disorders caused by reproductive toxic compounds implying the importance of the antioxidants in maintaining normal testicular function and male fertility This Research Topic aims to provide an up to date understanding of the intrinsic and extrinsic factors that are associated with oxidative stress in male reproduction We welcome submissions of Original Research Reviews and Case Report on the following sub topics including but not limited to Oxidative stress and sperm function e g sperm DNA fragmentation mitochondrial membrane potential MMP ROS Oxidative stress and sexual dysfunction The role of lifestyle factors and environmental pollutants in male infertility The

impact of nutrients and antioxidants on male fertility The association of oxidative stress in metabolic syndrome related male infertility Role of oxidative stress in varicocele and male gland infection Inflammatory and male reproduction **Analyzing Male Reproductive Risk, Understanding Molecular Targets, and Developing Treatments** Xiang Xiao,Cibele S. Borges,Huitao Li ,C. Yan Cheng,2024-07-10 Male fertility both resilient and fragile is heavily affected by external factors such as the environment drug use and eating habits in a similar way to a wall of stone that is constantly attacked and weathered to varying degrees The use of cancer drugs for instance may increase life expectancy and cure diseases but may also negatively affect male fertility A variety of factors complicate male infertility such as the intricate spermatogenesis process The available methods for diagnosis are limited not to mention treatment However some evidence showed that different reproductive physiologies may share some biological basis and thus molecular pathways such as mTOR which plays a role in testis physiology Sertoli cell function transcriptional and translational control of spermatogenesis as well as drug and environmental exposure Moreover male fertility can also reflect men s overall health and the likelihood of suffering from certain diseases suggesting that these events have common regulatory mechanisms This Research Topic aims to identify these potential shared mechanisms analyze and explore how environment disease drug use and nutritional supplements affect male fertility as well as reveal the seemingly chaotic but traceable phenomena It will be crucial for the development of diagnostics treatments and maintenance methods needed to enhance male fertility which is also the objective of this research topic This Research Topic encourages Original Research Reviews and other accepted article types including but not limited to Analyses of the possible effects of environmental pollutants brought about by industry and human activities such as endocrine disrupting chemicals EDCs on male reproduction Links between men s overall health and fertility as well as andrological effects of various illnesses including infectious diseases deficiencies hereditary diseases and physiological disorders Effects of medications and dietary supplements on male reproductive systems such as those used for cancer treatment psychiatric disorders diabetes etc The use of herbal and medicinal remedies to prevent or reverse adverse andrological effects caused by putative toxic chemicals and diseases Specific molecular mechanisms and signalling pathways that affect spermatogenesis the testis and sperm function associated with the above 4 points Shared molecular mechanisms underlying both the generation and remission of male infertility disease *Environment and Female Reproductive Health* Huidong Zhang,Jie Yan,2021-02-01 This book will focus on the harmful effect of environmental toxins on female reproductive health Reproduction is the basis of the continuation of human beings and environment is the basis of human survival However environmental pollution has become a potential risk factor for human reproductive health which not only leads to many chronic diseases but also causes certain harm to reproductive health Compared to male reproduction female reproductive process is more complex the reproductive system is more fragile and is more vulnerable to be damaged The aim of this book is to review the research progress to address the challenges and to stimulate the development in the direction of

environment and female reproductive health Textbook of Assisted Reproductive Techniques David K. Gardner, Ariel Weissman, Colin M. Howles, Zeev Shoham, 2017-11-09 Already established as a classic comprehensive reference for the whole team at the IVF clinic this new edition has been extensively revised with the addition of several important new contributions on laboratory including advanced sperm selection techniques for ICSI human embryo biopsy procedures oocyte activation managing an oocyte bank artificial gametes and epigenetics as well as on clinical topics including GnRH agonist triggering segmentation of IVF treatment uterus transplantation and risk and safety management As previously methods protocols and techniques of choice are presented by eminent contributors internationally *Herbal Medicine and Reproductive Health* Marie Reilly, 2021-06-17 Herbal Medicine and Reproductive Health is a comprehensive text book for herbalists nutritionists and other healthcare practitioners which provides detailed information on reproductive health in both men and women It will enable practitioners to gain an in depth understanding of a wide range of reproductive health problems from both an orthodox medical and an energetic holistic perspective with detailed advice on case history taking clinical examination and orthodox investigations together with comprehensive sections on diagnosing Ayurvedic and TCM patterns of disharmony which may contribute to reproductive health problems Herbal Medicine and Reproductive Health also explores in detail how to overcome reproductive health problems and improve fertility with herbal medicine nutrition and lifestyle changes

Textbook of Assisted Reproductive Techniques Ariel Weissman, Colin M. Howles, Zeev Shoham, 2017-12-15 Established as a definitive reference for the IVF clinic the fifth edition has been extensively revised with the addition of several important new contributions on clinical topics including GnRH agonist triggering segmentation of IVF treatment uterus transplantation and risk and safety management As previously methods protocols and techniques of choice are presented by IVF pioneers and eminent international experts **Boost Your Fertility** Marilyn Glenville, 2009 Presents an 8 step integrative approach for getting and staying pregnant which focuses on nutrition lifestyle removing environmental toxins and medical screening Women s health expert Dr Glenville outlines in detail what may be hindering pregnancy what you and your partner should be tested for and when and how to tailor the program to you based on particular factors such as age medical history and lifestyle

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