

Intended (Season 1), Episode 2: Sperm Science

Citations

1. <http://www.contraline.com/>
2. Fainberg, Jonathan, and James A. Kashanian. "Vasectomy." *JAMA* 319, no. 23 (June 19, 2018): 2450. <https://doi.org/10.1001/jama.2018.6514>.
3. Thirumalai, Arthi, and Stephanie T. Page. "Recent Developments in Male Contraception." *Drugs* 79, no. 1 (January 2019): 11-20. <https://doi.org/10.1007/s40265-018-1038-8>.
4. Johnson, Dane, and Jay I. Sandlow. "Vasectomy: Tips and Tricks." *Translational Andrology and Urology* 6, no. 4 (August 2017): 704-9. <https://doi.org/10.21037/tau.2017.07.08>.
5. Hayden, Russell P., Philip S. Li, and Marc Goldstein. "Microsurgical Vasectomy Reversal: Contemporary Techniques, Intraoperative Decision Making, and Surgical Training for the next Generation." *Fertility and Sterility* 111, no. 3 (March 2019): 444-53. <https://doi.org/10.1016/j.fertnstert.2019.01.004>.
6. https://www.malecontraceptive.org/wp-content/uploads/2019/03/MCI_ConsumerResearchStudy.pdf
7. Lohiya, N. K., I. Alam, M. Hussain, S. R. Khan, and A. S. Ansari. "RISUG: An Intravasal Injectable Male Contraceptive." *The Indian Journal of Medical Research* 140 Suppl (November 2014): S63-72.
8. Thirumalai, Arthi, and Stephanie T. Page. "Recent Developments in Male Contraception." *Drugs* 79, no. 1 (January 2019): 11-20. <https://doi.org/10.1007/s40265-018-1038-8>.
9. Nieschlag, E, S Nieschlag, and Ursula-F Habenicht. *Spermatogenesis -- Fertilization -- Contraception Molecular, Cellular and Endocrine Events in Male Reproduction*. Berlin: Springer Berlin, 2013.
10. Gava, Giulia, and Maria Cristina Meriggola. "Update on Male Hormonal Contraception." *Therapeutic Advances in Endocrinology and Metabolism* 10 (2019): 2042018819834846. <https://doi.org/10.1177/2042018819834846>.
11. <https://clinicaltrials.gov/ct2/show/NCT02927210?term=contraception&gndr=Male&draw=2&rank=7>
12. <https://clinicaltrials.gov/ct2/show/NCT03455075?term=contraception&gndr=Male&draw=2&rank=66>
13. <https://clinicaltrials.gov/ct2/show/NCT03452111?term=contraception&gndr=Male&draw=2&rank=11>
14. <https://www.fda.gov/media/123602/download>
15. Long, Jill E, Min S Lee, and Diana L Blithe. "Male Contraceptive Development: Update on Novel Hormonal and Nonhormonal Methods." *Clinical Chemistry* 65, no. 1 (January 1, 2019): 153-60. <https://doi.org/10.1373/clinchem.2018.295089>.
16. O'Rand, Michael G., Erick J.R. Silva, and Katherine G. Hamil. "Non-Hormonal Male Contraception: A Review and Development of an Eppin Based Contraceptive." *Pharmacology & Therapeutics* 157 (January 2016): 105-11. <https://doi.org/10.1016/j.pharmthera.2015.11.004>.
17. Lishko, Polina V. "Contraception: Search for an Ideal Unisex Mechanism by Targeting Ion Channels." *Trends in Biochemical Sciences* 41, no. 10 (2016): 816-18. <https://doi.org/10.1016/j.tibs.2016.08.002>.
18. Page, Stephanie T., John K. Amory, and William J. Bremner. "Advances in Male Contraception." *Endocrine Reviews* 29, no. 4 (June 2008): 465-93. <https://doi.org/10.1210/er.2007-0041>.
19. Durairajanayagam, Damayanthi, Anil K. Rengan, Rakesh K. Sharma, and Ashok Agarwal. "Sperm Biology

- from Production to Ejaculation.” In *Unexplained Infertility*, edited by Glenn L. Schattman, Sandro C. Esteves, and Ashok Agarwal, 29–42. New York, NY: Springer New York, 2015. https://doi.org/10.1007/978-1-4939-2140-9_5.
20. Neto, Filipe Tenorio Lira, Phil Vu Bach, Bobby B. Najari, Philip S. Li, and Marc Goldstein. “Spermatogenesis in Humans and Its Affecting Factors.” *Seminars in Cell & Developmental Biology* 59 (2016): 10–26. <https://doi.org/10.1016/j.semcdb.2016.04.009>.
21. Kubota, Hiroshi, and Ralph L. Brinster. “Spermatogonial Stem Cells.” *Biology of Reproduction* 99, no. 1 (01 2018): 52–74. <https://doi.org/10.1093/biolre/iou077>.
22. Fayomi, Adetunji P., and Kyle E. Orwig. “Spermatogonial Stem Cells and Spermatogenesis in Mice, Monkeys and Men.” *Stem Cell Research* 29 (2018): 207–14. <https://doi.org/10.1016/j.scr.2018.04.009>.
23. Amory, John K. “Development of Novel Male Contraceptives.” *Clinical and Translational Science* 13, no. 2 (March 2020): 228–37. <https://doi.org/10.1111/cts.12708>.
24. Sharma, Rakesh, Ashok Agarwal, Vikram K. Rohra, Mourad Assidi, Muhammad Abu-Elmagd, and Rola F. Turki. “Effects of Increased Paternal Age on Sperm Quality, Reproductive Outcome and Associated Epigenetic Risks to Offspring.” *Reproductive Biology and Endocrinology: RB&E* 13 (April 19, 2015): 35. <https://doi.org/10.1186/s12958-015-0028-x>.
25. Behre, Hermann M., Michael Zitzmann, Richard A. Anderson, David J. Handelsman, Silvia W. Lestari, Robert I. McLachlan, M. Cristina Meriggiola, et al. “Efficacy and Safety of an Injectable Combination Hormonal Contraceptive for Men.” *The Journal of Clinical Endocrinology and Metabolism* 101, no. 12 (2016): 4779–88. <https://doi.org/10.1210/jc.2016-2141>.
26. Gervasi, M. G., and P. E. Visconti. “Molecular Changes and Signaling Events Occurring in Spermatozoa during Epididymal Maturation.” *Andrology* 5, no. 2 (2017): 204–18. <https://doi.org/10.1111/andr.12320>.
27. Sullivan, Robert, and Roger Mieuisset. “The Human Epididymis: Its Function in Sperm Maturation.” *Human Reproduction Update* 22, no. 5 (2016): 574–87. <https://doi.org/10.1093/humupd/dmw015>.
28. Dixon, J. S., P. Y. Jen, and J. A. Gosling. “Structure and Autonomic Innervation of the Human Vas Deferens: A Review.” *Microscopy Research and Technique* 42, no. 6 (September 15, 1998): 423–32. [https://doi.org/10.1002/\(SICI\)1097-0029\(19980915\)42:6<423::AID-JEMT5>3.0.CO;2-N](https://doi.org/10.1002/(SICI)1097-0029(19980915)42:6<423::AID-JEMT5>3.0.CO;2-N).
29. Steers, W. D. “Physiology of the Vas Deferens.” *World Journal of Urology* 12, no. 5 (1994): 281–85. <https://doi.org/10.1007/BF00191208>.
30. Docherty, James R. “The Pharmacology of α -1-Adrenoceptor Subtypes.” *European Journal of Pharmacology* 855 (July 15, 2019): 305–20. <https://doi.org/10.1016/j.ejphar.2019.04.047>.
31. Yamada, Shizuo, and Yoshihiko Ito. “ α (1)-Adrenoceptors in the Urinary Tract.” *Handbook of Experimental Pharmacology*, no. 202 (2011): 283–306. https://doi.org/10.1007/978-3-642-16499-6_14.
32. Ikawa, Masahito, Naokazu Inoue, Adam M. Benham, and Masaru Okabe. “Fertilization: A Sperm’s Journey to and Interaction with the Oocyte.” *The Journal of Clinical Investigation* 120, no. 4 (April 2010): 984–94. <https://doi.org/10.1172/JCI41585>.
33. Amelar, R. D., L. Dubin, and C. Schoenfeld. “Sperm Motility.” *Fertility and Sterility* 34, no. 3 (September 1980): 197–215. [https://doi.org/10.1016/s0015-0282\(16\)44949-6](https://doi.org/10.1016/s0015-0282(16)44949-6).
34. Ramírez-Gómez, Héctor Vicente, Idán Tuval, Adán Guerrero, and Alberto Darszon. “Analysis of Sperm Chemotaxis.” *Methods in Cell Biology* 151 (2019): 473–86. <https://doi.org/10.1016/bs.mcb.2018.12.002>.
35. Van Soom, Ann, S. Tanghe, I. De Pauw, D. Maes, and A. de Kruif. “Function of the Cumulus Oophorus before and during Mammalian Fertilization.” *Reproduction in Domestic Animals = Zuchthygiene* 37, no. 3 (June 2002): 144–51. <https://doi.org/10.1046/j.1439-0531.2002.00345.x>.
36. Hirohashi, Noritaka, and Ryuzo Yanagimachi. “Sperm Acrosome Reaction: Its Site and Role in Fertilization.” *Biology of Reproduction* 99, no. 1 (01 2018): 127–33. <https://doi.org/10.1093/biolre/iou045>.
37. Stival, Cintia, Lis del C. Puga Molina, Bidur Paudel, Mariano G. Buffone, Pablo E. Visconti, and Dario Krapf. “Sperm Capacitation and Acrosome Reaction in Mammalian Sperm.” *Advances in Anatomy, Embryology, and Cell Biology* 220 (2016): 93–106. https://doi.org/10.1007/978-3-319-30567-7_5.
38. Cuasnicú, Patricia S., Vanina G. Da Ros, Mariana Weigel Muñoz, and Débora J. Cohen. “Acrosome Reaction as a Preparation for Gamete Fusion.” *Advances in Anatomy, Embryology, and Cell Biology* 220 (2016): 159–72. https://doi.org/10.1007/978-3-319-30567-7_9.

39. Lishko, Polina V. "Contraception: Search for an Ideal Unisex Mechanism by Targeting Ion Channels." *Trends in Biochemical Sciences* 41, no. 10 (2016): 816–18. <https://doi.org/10.1016/j.tibs.2016.08.002>.
40. Austin, C. R. "Sperm Fertility, Viability and Persistence in the Female Tract." *Journal of Reproduction and Fertility*. Supplement, no. 22 (April 1975): 75–89.
41. Anderson, Deborah J. "Population and the Environment – Time for Another Contraception Revolution." *New England Journal of Medicine* 381, no. 5 (August 1, 2019): 397–99. <https://doi.org/10.1056/NEJMp1906733>.
42. Amory, John K. "Development of Novel Male Contraceptives." *Clinical and Translational Science* 13, no. 2 (March 2020): 228–37. <https://doi.org/10.1111/cts.12708>.
43. <https://clinicaltrials.gov/ct2/show/NCT03452111?term=contraception&gndr=Male&draw=2&rank=11>
44. Page, Stephanie T., John K. Amory, and William J. Bremner. "Advances in Male Contraception." *Endocrine Reviews* 29, no. 4 (June 1, 2008): 465–93. <https://doi.org/10.1210/er.2007-0041>.
45. Anders, Sari M. van. "Beyond Masculinity: Testosterone, Gender/Sex, and Human Social Behavior in a Comparative Context." *Frontiers in Neuroendocrinology* 34, no. 3 (August 2013): 198–210. <https://doi.org/10.1016/j.yfrne.2013.07.001>.
46. Kakaiya, Roshni, Lia L. Lopez, and Anita L. Nelson. "Women's Perceptions of Contraceptive Efficacy and Safety." *Contraception and Reproductive Medicine* 2 (2017): 19. <https://doi.org/10.1186/s40834-017-0046-5>.
47. Weston, Gareth C., Michelle L. Schlipalius, Meabh Ni Bhuinneain, and Beverley J. Vollenhoven. "Will Australian Men Use Male Hormonal Contraception? A Survey of a Postpartum Population." *The Medical Journal of Australia* 176, no. 5 (March 4, 2002): 208–10.
48. Heinemann, Klaas, Farid Saad, Martin Wiesemes, Steven White, and Lothar Heinemann. "Attitudes toward Male Fertility Control: Results of a Multinational Survey on Four Continents." *Human Reproduction (Oxford, England)* 20, no. 2 (February 2005): 549–56. <https://doi.org/10.1093/humrep/deh574>.
49. Yuen, F., S. Wu, A. Thirumalai, R. S. Swerdloff, S. T. Page, P. Y. Liu, C. Dart, et al. "Preventing Secondary Exposure to Women from Men Applying a Novel Nestorone/Testosterone Contraceptive Gel." *Andrology* 7, no. 2 (2019): 235–43. <https://doi.org/10.1111/andr.12577>.
50. <https://clinicaltrials.gov/ct2/show/NCT03298373?term=contraception&recrs=abdf&gndr=-Male&draw=2&rank=12>
51. <https://clinicaltrials.gov/ct2/show/NCT02927210?term=contraception&gndr=Male&draw=2&rank=7>
52. <https://www.nia.nih.gov/health/what-are-clinical-trials-and-studies>
53. Sanders, Stephanie A., William L. Yarber, Erin L. Kaufman, Richard A. Crosby, Cynthia A. Graham, and Robin R. Milhausen. "Condom Use Errors and Problems: A Global View." *Sexual Health* 9, no. 1 (March 2012): 81–95. <https://doi.org/10.1071/SH11095>.
54. Sundaram, Aparna, Barbara Vaughan, Kathryn Kost, Akinrinola Bankole, Lawrence Finer, Susheela Singh, and James Trussell. "Contraceptive Failure in the United States: Estimates from the 2006–2010 National Survey of Family Growth: Contraceptive Failure Rates in the U.S." *Perspectives on Sexual and Reproductive Health* 49, no. 1 (March 2017): 7–16. <https://doi.org/10.1363/psrh.12017>.
55. Khourdaji, Iyad, Jacqueline Zillioux, Kevin Eisenfrats, Daniel Foley, and Ryan Smith. "The Future of Male Contraception: A Fertile Ground." *Translational Andrology and Urology* 7, no. Suppl 2 (May 2018): S220–35. <https://doi.org/10.21037/tau.2018.03.23>.
56. Lohiya, N. K., B. Manivannan, P. K. Mishra, and N. Pathak. "Vas Deferens, a Site of Male Contraception: An Overview." *Asian Journal of Andrology* 3, no. 2 (June 2001): 87–95.
57. <https://bimek.com/>
58. <http://www.vasdeblock.com/>
59. Khilwani, Barkha, Ayesha Badar, Abdul S. Ansari, and Nirmal K. Lohiya. "RISUG® as a Male Contraceptive: Journey from Bench to Bedside." *Basic and Clinical Andrology* 30, no. 1 (December 2020): 2. <https://doi.org/10.1186/s12610-020-0099-1>.
60. <https://www.livescience.com/male-birth-control-risug.html>
61. <https://www.bbc.com/news/world-asia-india-50640939>
62. <https://www.revolutioncontraceptives.com/vasalgel/>
63. Colagross-Schouten, Angela, Marie-Josée Lemoy, Rebekah I. Keesler, Elaine Lissner, and Catherine A. Van-

deVoort. "The Contraceptive Efficacy of Intravas Injection of VasalgeITM for Adult Male Rhesus Monkeys." *Basic and Clinical Andrology* 27, no. 1 (December 2017): 4. <https://doi.org/10.1186/s12610-017-0048-9>.

64. Waller, Donald, David Bolick, Elaine Lissner, Christopher Premanandan, and Gary Gamerman. "Reversibility of VasalgeITM Male Contraceptive in a Rabbit Model." *Basic and Clinical Andrology* 27, no. 1 (December 2017): 8. <https://doi.org/10.1186/s12610-017-0051-1>.