

Shyam Sunder Rao Allamaneni, M.D.

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CURRENT POSITION:***PGY 3 Resident***

Department of General Surgery
New York Medical College (Brooklyn & Queens)
90-02 Queens Blvd; Elmhurst, NY - 11373
07/2005 -

EDUCATION and WORK EXPERIENCE:***Preliminary year in Surgery***

Department of General Surgery
Cleveland Clinic Foundation
Cleveland, Ohio
07/2004 – 06/2005

Research Fellow in Andrology/Urology

Glickman Urological Institute
Cleveland Clinic Foundation
Cleveland, Ohio
06/2003 - 06/2004

Senior Resident in Surgery

Department of Surgical Disciplines & Renal
Transplantation
All India Institute of Medical Sciences
New Delhi, India
01/2002 - 05/2003

Postgraduate in General Surgery (M.S.)

All India Institute of Medical Sciences
New Delhi, India
01/1999 - 12/2001

Bachelor of Medicine and Bachelor of Surgery (MBBS)

Osmania Medical College
NTR University of Medical Sciences
Hyderabad, India
12/1992 - 06/1998

HONORS/AWARDS/ACADEMIC ACHIEVEMENTS:

1. **2005:** NIH Trainee Travel Fellowship Award for American Society of Andrology 30th Annual meeting, April 2 - 5, Seattle, WA, MD.

2. **2004:** Fellow of the Year for dedication, hard work, and high research productivity in *Center For Advanced Research in Human Reproduction Infertility and Sexual Function*, Glickman Urological Institute, Cleveland Clinic Foundation, OH.
3. **2004:** NIH (National Institutes of Health) Trainee Travel Fellowship Award by American Society of Andrology Trainee Affairs Committee and ASA Executive Council. American Society of Andrology 29th Annual meeting, April 17 - 20, Baltimore, MD.
4. **1998:** Dr. Yellapragada Subba Rao Gold Medal in Medical Sciences.
5. **1996:** Certificate of Honor for First Prize in 9th Indian Academy of Inter-State Pediatrics Quiz.
6. Ranked in top 10 at all India level entrance examination for residency at All India Institute of Medical Sciences (AIIMS), New Delhi.
7. Ranked first in state level entrance examination for medical/surgical residencies, Andhra Pradesh, India.

Membership in Professional Societies:

1. Ohio state board – Temporary certification
2. Society of American Gastrointestinal and Endoscopic Surgeons
3. American College of Surgeons
4. American Urological Association (past member)
5. American Society of Andrology (past member)
6. Medical Council of India

MASTER OF SURGERY THESIS:

1. A comparative study of thoracoscopy versus mini or limited thoracotomy for lung biopsy: A prospective randomized controlled trail.

PUBLICATIONS

Original Peer-Review Articles

1. **ALLAMANENI, SSR.**, Bandaranayake, I., and Agarwal, A. (2004): Use of semen quality scores to predict pregnancy in couples undergoing intrauterine insemination with donor sperm, **Fertil Steril**, 82: 606-611.
2. Agarwal, A., Nallella, KP., **ALLAMANENI, SSR.**, and Said, TM. (2004): The role of antioxidants in treatment of male infertility: an overview of the literature. **Review, Reprod Biomed Online**, 8: 616-627.

3. Agarwal, A., and **ALLAMANENI, SSR.** (2004): The effect of sperm DNA damage on assisted reproduction outcomes. A review. **Minerva Ginecol**, 56(3): 235-45.
4. Agarwal, A., and **ALLAMANENI, SSR.** (2004): Role of free radicals in female reproductive diseases and assisted reproduction. **Reprod Biomed Online**, 9: 338-347.
5. **ALLAMANENI, SSR.**, Naughton, CK., Sharma, RK., Thomas, AJ, Jr., and Agarwal, A. (2004): Increased seminal reactive oxygen species levels in varicocele patients correlate with varicocele grade, not testis size. **Fertil Steril**, 82: 1684-1686.
6. Zalata, AA., Ahmed, AH., **ALLAMANENI, SSR.**, Comhaire, FH., and Agarwal, A. (2004): Relationship between acrosin activity of human spermatozoa and oxidative stress, **Asian J Androl**, 6: 313-318.
7. Nallella, KP., **ALLAMANENI, SSR.**, Pasqualotto, FF., Sharma, RK., and Agarwal, A. (2004): Relationship of interleukin-6 with semen characteristics and oxidative stress in varicocele patients, **Urology**, 64: 1010-1013.
8. Nallella, KP., Sharma, RK., **ALLAMANENI, SSR.**, Aziz, N., and Agarwal, A. (2004): Cryopreservation of human spermatozoa: comparison of two cryopreservation methods and three cryoprotectant media, **Fertil Steril**, 82: 913-918.
9. Agarwal, A., **ALLAMANENI, SSR.**, and Said, TM. (2004): Chemiluminescence technique for measurement of reactive oxygen species in the field of reproductive medicine. **Reprod Biomed Online**, 9: 466-468.
10. **ALLAMANENI, SSR.**, Agarwal, A., Rama, S., Ranganathan, P., and Sharma, RK. (2005): Comparative study of density gradient and swim-up preparation techniques in neat and cryopreserved-thawed semen specimens. **Asian J Androl**, 7: 86-92.
11. Agarwal, A., and **ALLAMANENI, SSR.** (2005): Disruption of spermatogenesis by the cancer disease process. **Review, J Natl Cancer Inst Monogr** 34: 9-12.
12. Raina, R., Agarwal, A., Lakin, MM., **ALLAMANENI, SSR.**, and Zippe C D. (2005): Combination therapy: Sildenafil citrate enhances sexual satisfaction in vacuum constriction device (VCD) failures following radical prostatectomy, **Urology**, 65: 360-364.
13. **ALLAMANENI, SSR.**, Agarwal, A., Nallella, KP., Sharma, RK., Thomas, AJ, Jr. and Sikka, S. (2005): Characterization of oxidative stress by evaluation of reactive oxygen species in whole semen and isolated spermatozoa, **Fertil Steril** 83:800-803.
14. Agarwal, A., **ALLAMANENI, SSR.**, Nallella, KP., George, AT., and Mascha, E. (2005): Correlation of reactive oxygen species levels with fertilization rates after in vitro fertilization: a qualified meta-analysis, **Fertil Steril** 84:228-231.
15. Nallella, KP, Sharma, RK, **ALLAMANENI, SSR**, Agarwal, A (2005): Identification of male factor infertility using a novel semen quality score and reactive oxygen species levels. *Clinics*. 60(4):317-24.
16. Agarwal, A., and **ALLAMANENI, SSR.** (2005): Sperm DNA damage assessment: A test whose time has come. **Fertil Steril** 84(4):850-3.

17. Agarwal, A., and **ALLAMANENI, SSR.** (2006): Free Radicals and Male Reproduction, **J Indian Med Assoc** (In press).
18. Agarwal, A., Prabakaran, S and **ALLAMANENI, SSR.** (2006): What an andrologist/urologist should know about free radicals and why? **Urology**, 67(1):2-8.
19. Agarwal, A., Prabakaran, S and **ALLAMANENI, SSR.** (2006): Relationship between oxidative stress, varicocele and infertility: a meta-analysis. *Reprod Biomed Online* 12(5):630-3.

Book Chapters & Other Articles

20. Parshad, R., Shindolomath, V., and **ALLAMANENI, SSR.** (2002): Current trends in the surgical management of gastro-oesophageal reflux disease. **Gastroenterol Today** 6:34-37.
21. Agarwal, A., and **ALLAMANENI, SSR.** (2004): Current understanding on human sperm DNA damage: **Review, A.R.T. & Science**, 4: 2-4.
22. Agarwal, A., and **ALLAMANENI, SSR.** (2004): Oxidants and antioxidants in human fertility. **Review, Middle East Fertility Society Journal**, 9.
23. Agarwal, A., and **ALLAMANENI, SSR.** (2005): Sperm chromatin defects in the etiopathogenesis of male infertility, *Revista Internacional de Andrologia* 3:31-37.
24. Agarwal, A., and **ALLAMANENI, SSR.** (2006): Oxidative stress and human reproduction. **In:** Oxidative Stress, Disease and Cancer, (Editor: K.K. Singh), London: Imperial College Press, London, UK Chapter 23, pp.687-703.
25. Agarwal, A., and **ALLAMANENI, SSR.** (2007): Artificial insemination. **In:** Clinical Reproductive Medicine and Surgery, (Editors: T. Falcone, and W.W. Hurd), Mosby Publishers, Philadelphia, PA (In press).

Meeting Abstracts

1. Parshad, R., **ALLAMANENI, SSR.**, Bhamrah, DPS. (2001): Management of carcinoma breast stage III: Experience of single surgical unit at AIIMS, New Delhi. **In:** Annual meeting of Indian Association of Surgical Oncology, Sep 21-23, Rohtak, India.
2. **ALLAMANENI, SSR.**, Bhamrah, DPS., Guleria, R., Kashyap, L., Parshad, R., Bal, S. (2002): Open lung biopsy by limited thoracotomy versus thoracoscopic lung biopsy. **In:** Annual Meeting of Association of Surgeons of India, Nov 9-10, New Delhi, India.
3. **ALLAMANENI, SSR**, Nallella, KP, Said, TM, Mascha, E, Agarwal, A (2004): Correlation of reactive oxygen species (ROS) levels with fertilization rate following in vitro fertilization (IVF): a meta-analysis. **In:** 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 74.
4. **ALLAMANENI, SSR**, Cunningham, N, Sekhon, L, Said, TM, Sharma, RK, Agarwal, A (2004): Identifying factors impacting the recovery of total motile sperm after semen preparation for intrauterine insemination. **In:** 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 78.

5. Said, TM, **ALLAMANENI, SSR**, Nallella, KP, Sharma, RK, Parekattil, S, Thomas, AJ Jr, Agarwal, A (2004): Prediction of sperm DNA damage in human semen by a novel reactive oxygen species-total antioxidant capacity score. In: 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 143.
6. **ALLAMANENI, SSR**, Nallella, KP, Said, TM, Sharma, RK, Thomas, AJ Jr, Agarwal, A (2004): Defining reactive oxygen species (ROS) levels in mature and immature spermatozoa in healthy volunteers. In: 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 71.
7. Nallella, KP, **ALLAMANENI, SSR**, Said, TM, Sharma, RK, Parekattil, S, Thomas, AJ Jr., Agarwal, A (2004): Role of semen quality score and reactive oxygen species levels in diagnosing male factor infertility. In: 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 84.
8. Said, TS, Paasch, U, Grunewald, S, Sharma, RK, **ALLAMANENI, SSR**, Thomas, AJ, Jr., Agarwal, A, Glander, H-J (2004): Caspase autoactivation pattern in ejaculated human spermatozoa. In: 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 17.
9. Grunewald, S, Said, TM, Paasch, U, Sharma, RK, **ALLAMANENI, SSR**, Thomas, AJ, Jr., Glander, H-J, Agarwal, A (2004): Mitochondrial apoptosis and inflammasome activation in capacitated sperm. In: 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 120.
10. Sharma, RK, Said, TM, Grunewald, S, Paasch, U, **ALLAMANENI, SSR**, Thomas, AJ, Jr., Agarwal, A, Glander, H-J (2004): Induction of externalization of phosphatidyl serine (EPS) in ejaculated human spermatozoa but not caspase activation using two models of oxidative stress. In: 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 81.
11. Paasch, U, Grunewald, S, Said, TM, Sharma, RK, **ALLAMANENI, SSR**, Thomas, AJ, Jr., Glander, H-J, Agarwal, A (2004): Induction of type I and type II apoptosis in human spermatozoa. In: 29th Annual Meeting of the American Society of Andrology, April 17-20, Baltimore, MD, Abstract # 155.
12. **ALLAMANENI, SSR**, Nallella, KP, Said, TM, Sharma, RK, Thomas, AJ, Jr, Agarwal, A (2004): Measurement of ROS levels in neat semen for assessment of seminal oxidative stress status. In: 99th Annual Meeting of the American Urological Association, May 8-13, San Francisco, CA, Abstract #04-AB-1377.
13. Nallella, KP, **ALLAMANENI, SSR**, Said, TM, Sharma, RK, Parekattil, SJ, Thomas, AJ, Jr, Agarwal, A (2004): Identifying infertile men with male-factor infertility with a novel semen quality (SQ) score. In: 99th Annual Meeting of the American Urological Association, May 8-13, San Francisco, CA, Abstract # 04-AB-1380.
14. Said, TM, Nallella, KP, **ALLAMANENI, SSR**, Sharma, RK, Thomas, AJ, Jr, Agarwal, A (2004): Prediction of sperm cryosurvival rates in cancer patients. In: 99th Annual Meeting of the American Urological Association, May 8-13, San Francisco, CA, Abstract #04-AB-1354.
15. Said, TM, **ALLAMANENI, SSR**, Nallella, KP, Sharma, RK, Bedaiwy, MA, Thomas, AJ, Jr,

- Agarwal, A (2004): Role of seminal growth factors in infertile men with varicocele. In: 99th Annual Meeting of the American Urological Association, May 8-13, San Francisco, CA, Abstract #04-AB-1350.
16. Said, TM, **ALLAMANENI, SSR**, Nallella, KP, Sharma, RK, Parekattil, SJ, Thomas, AJ, Jr, Agarwal, A (2004): Prediction of spermatozoal DNA damage by a novel semen quality score. In: 99th Annual Meeting of the American Urological Association, May 8-13, San Francisco, CA, Abstract #04-AB-1342.
 17. Zalata, AA., Ahmed, AH., **ALLAMANENI, SSR.**, Comhaire, FH., Agarwal, A. (2004): The effect of oxidative stress associated with leukocytospermia on acrosin activity of human spermatozoa. In: 18th World Congress on Fertility and Sterility, May 23-28, Montreal, Canada, Abstract # 0650.
 18. Choi, W., **ALLAMANENI, SSR.**, Agarwal, A., Yeo, H., Shin, J., Paik, W. (2004): Effect of vitrification method on the survivability, follicular growth and ovulation of preantral follicles in mice. In: 60th Annual Meeting of the American Society for Reproductive Medicine, October 16-20, Philadelphia, PA, Abstract #04-A-604.
 19. Tomova, A., Kumanov, P., Kirilov, G., Dakovska, L., **ALLAMANENI, SSR.**, Agarwal, A (2004): The relationship of plasma endothelin and testosterone levels in male hypogonadism. In: 60th Annual Meeting of the American Society for Reproductive Medicine, October 16-20, Philadelphia, PA, Abstract #04-A-222.
 20. Tomova, A., Kumanov, P., Kirilov, G., **ALLAMANENI, SSR.**, Raina, R., Agarwal, A (2004): Disturbances in gonadal axis in women with anorexia nervosa. In: 60th Annual Meeting of the American Society for Reproductive Medicine, October 16-20, Philadelphia, PA, Abstract #04-A-223.
 21. Pasqualotto, FF., Pasqualotto, EB., Hallak, J., **ALLAMANENI, SSR.**, Arap, S., Agarwal, A (2004): Older men have higher follicle-stimulating hormone levels but not smaller testis compared to younger men. In: 60th Annual Meeting of the American Society for Reproductive Medicine, October 16-20, Philadelphia, PA, Abstract #04-A-226.
 22. Hallak, J., Pasqualotto, FF., Lucon, AM., **ALLAMANENI, SSR.**, Arap, S., Agarwal, A (2004): Cigarette smoking is related to a decrease in semen volume in a population of fertile men. In: 60th Annual Meeting of the American Society for Reproductive Medicine, October 16-20, Philadelphia, PA, Abstract #04-A-245.
 23. Pasqualotto, FF., **ALLAMANENI, SSR.**, Pasqualotto, EB., Oliveira, C., Salvador, M., Agarwal, A (2004): Levels of antioxidant enzyme in infertile patients with normal and abnormal semen parameters and fertile men. In: 60th Annual Meeting of the American Society for Reproductive Medicine, October 16-20, Philadelphia, PA, Abstract #04-A-464.
 24. Varghese, AC., Bhattacharyya, AK., Roy, H., **ALLAMANENI, SSR.**, Bhattacharya, J., Agarwal, A (2004): A comparative study on nuclear DNA integrity and morphology of human spermatozoa processed by three different methods. In: 60th Annual Meeting of the American Society for Reproductive Medicine, October 16-20, Philadelphia, PA, Abstract #04-A-217.
 25. Nallella, KP., **ALLAMANENI, SSR.**, Gorge, A., Liang L., Agarwal, A (2004): Are standard values of semen analysis by world health organization accurate? In: 100th Annual Meeting of

- the American Urological Association, May 21-26, San Antonio, 2005, Abstract #05-AB-3070.
26. Pasqualotto, FF., Pasqualotto, EB., Ogliari, KS., **ALLAMANENI, SSR.**, and Agarwal, A (2005): Psychological stress and semen quality among men undergoing intrauterine insemination. In: 30th Annual Meeting of the American Society of Andrology, April 2-5, Seattle, WA, Abstract # 161.
 27. Pasqualotto, FF., Pasqualotto, EB., Sobreiro, BP., Hallak, J., Lucon, AM., **ALLAMANENI, SSR.**, and Agarwal, A (2005): Role of ethnicity in male reproductive function. In: 30th Annual Meeting of the American Society of Andrology, April 2-5, Seattle, WA, Abstract # 157.
 28. Gromatzky, C., Mitre, AI., Pasqualotto, FF., Lucon, AM., **ALLAMANENI, SSR.**, and Agarwal, A (2005): Efficacy and safety of percutaneous testicular aspiration in evaluation of azoospermic or severe oligospermic patients. In: 30th Annual Meeting of the American Society of Andrology, April 2-5, Seattle, WA, Abstract # 160.
 29. Hallak, J., Pasqualotto, FF., Saldanha, LB., Lucon, AM., **ALLAMANENI, SSR.**, and Agarwal, A (2005): Is poor semen quality in men with malignancies due to pre-existing defects in spermatogenesis? In: 30th Annual Meeting of the American Society of Andrology, April 2-5, Seattle, WA, Abstract # 155.
 30. **ALLAMANENI, SSR.**, Kumanov, P., Tomova, A., Raina, R., and Agarwal, A (2005): Role of inhibin b in the evaluation of male infertility In: 30th Annual Meeting of the American Society Of Andrology, April 2-5, Seattle, WA, Abstract #05-AB-59.
 31. Prabakaran, SA, Agarwal, A, and **Allamaneni, SSR** (2005): Is oxidative stress a missing piece in varicocele related infertility puzzle? - A meta-analytic approach. In: 61st Annual Meeting of the American Society for Reproductive Medicine, October 15-20, Montreal, Canada, Abstract #05-A-1363.
 32. Pasqualotto, FF, Pasqualotto, EB, Umezu, FM, **Allamaneni, SSR**, Salvador, M, Agarwal, A (2005): Regular coffee intake is related to increased sperm motility and antioxidant levels in infertile men. In: 61st Annual Meeting of the American Society for Reproductive Medicine, October 15-20, Montreal, Canada, Abstract #05-A-319.
 33. Pasqualotto, FF, Sobreiro, B, **Allamaneni, SSR**, Hallak, J, Agarwal, A, Lucon, AM (2005): Relationship between increased seminal leukocytes and varicocele. In: 61st Annual Meeting of the American Society for Reproductive Medicine, October 15-20, Montreal, Canada, Abstract #05-A-434.
 34. Pasqualotto, EB, Agarwal, A, Umezu, FM, Salvador, M, **Allamaneni, SSR**, and Pasqualotto, FF (2005): Antioxidant and lipid peroxidation levels in fertile and infertile men. In: 61st Annual Meeting of the American Society for Reproductive Medicine, October 15-20, Montreal, Canada, Abstract #05-A-424.
 35. Pasqualotto, FF, Agarwal, A, **Allamaneni, SSR**, and Thomas, AJ Jr (2005): Vasovasostomy is associated with retention of sperm cytoplasmic droplets and oxidative stress. In: 61st Annual Meeting of the American Society for Reproductive Medicine, October 15-20, Montreal, Canada, Abstract #05-A-435.

36. Pasqualotto, EB, Agarwal, A, de Medeiros Umezu, F, Salvador, M, **Allamaneni, SSR**, and Pasqualotto, FF (2005): Effect of oxidative stress in follicular fluid and serum on the outcome of assisted reproductive procedures. In: 61st Annual Meeting of the American Society for Reproductive Medicine, October 15-20, Montreal, Canada, Abstract #05-A-318.
37. **ALLAMANENI, SSR**, Bhandari, T, and Mandava, N (2006): A retrospective review of skin adnexal malignancy. In: 92nd Annual Clinical Congress of the American College of Surgeons, October 8-12, Chicago, IL, Abstract #SE 200.
38. **ALLAMANENI, SSR**, Bhandari, T, Sung, KP, and Mandava, N (2006): Visceral malignancy presenting as incarcerated incisional hernia: A review of two cases. In: 92nd Annual Clinical Congress of the American College of Surgeons, October 8-12, Chicago, IL, Abstract #SE 109.
39. **ALLAMANENI, SSR**, Bertochi, M, Mariano, R, Richards, N, and Mandava, N (2007): Novel Minimally Invasive Approach In The Management Of “Body Packers”. In: 93rd Annual Clinical Congress of the American College of Surgeons, October 7-11, New Orleans, LA, Abstract #SE 379 (submitted).
40. **ALLAMANENI, SSR**, Nandipati, K, and Mandava, N (2007): Impact of “healthy living partnerships” program in cancer incidence at a community hospital cancer center. In: 93rd Annual Clinical Congress of the American College of Surgeons, October 7-11, New Orleans, LA, Abstract #SE 405 (submitted).
41. **ALLAMANENI, SSR**, Bhandari, T, Sung, KP, and Mandava, N (2007): Symptomatic Incisional Hernia and detection of underlying Visceral Malignancy. In: Hernia Repair 2007, Tenth Anniversary Hernia Congress, March 7-11, Hollywood, Florida.
42. Astorga, R, **ALLAMANENI, SSR**, and Mandava, N (2007): Role of adequate lymph node sampling in colon cancer patients’ survival – community hospital cancer center experience In: 93rd Annual Clinical Congress of the American College of Surgeons, October 7-11, New Orleans, LA, Abstract #SE 399 (submitted).
43. **ALLAMANENI, SSR**, Sung, KP, and Mandava, N (2007): Surgical Dilemma in the Management of Radial Scar of the Breast. In: 93rd Annual Clinical Congress of the American College of Surgeons, October 7-11, New Orleans, LA, Abstract #SE 377 (submitted).

RESEARCH GRANT:

1. Characterization of intracellular reactive oxygen species in human spermatozoa, RPC #07549, 2004 - 05 (Co-investigator).