

## CURRICULUM VITAE

**NAME** ESPOSITO, Michael Philip

**CITIZENSHIP** USA

**LICENSURE**  
Physician N.J. License # active  
CDS Registration # active  
DEA # active

**OFFICE ADDRESS** 255 W. Spring Valley Ave., Suite 101  
Maywood, New Jersey 07607

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**PREMEDICAL EDUCATION** St John's University – Queens New York  
B.S. Biology/Chemistry  
Magna cum Laude – 1986-1990

**MEDICAL EDUCATION** UMDNJ (University of Medicine and Dentistry of  
New Jersey) - New Jersey Medical School -  
Newark, New Jersey  
M.D. – 1990-1994

**CILINICAL EDUCATION** UMDNJ - Newark  
General Surgery 1994-1996  
Urologic Surgery 1996-2000

**FELLOWSHIP TRAINING** Scottish Lithotripter Centre  
Western General Hospital  
Royal Infirmary Edinburgh  
Edinburgh Scotland  
Director Mr. David A Tolley  
Urologic Laparoscopic Surgery - Endourology  
August 2000 – July 2001

**CERTIFICATIONS**  
  
ACLS - Advanced Cardiac Life Support – June  
2001  
  
American College of Surgeons ATLS –  
Advanced Trauma Life Support – certified  
through June 2004  
  
United States Surgical Corporation sponsored  
Course in Laparoscopic Nephrectomy in the

Porcine Model – completed two courses  
September, 1998 and May, 1999

Certified - American Board of Urology – cert #  
13047 (2-28-03)

Master Class In Laparoscopic Radical  
Prostatectomy  
University Du Renee Descartes  
Paris, France - July 2001

HAZMAT Emergency Department Operations  
Certified Overlook Hospital  
November 28, 2001

Laparoscopic Surgical Instructor  
Johnson & Johnson Corp  
Ethicon Endosurgical Division  
August 2001 to present

Robotic Surgical Instructor  
Robotic Adrenal, Renal and Extraperitoneal  
Prostate Surgery  
Intuitive Surgical Systems  
Sunnyvale Ca  
October 2001 to present

## **SCHOLARSHIPS AND PRIZES**

Regents Scholarship 1986 – 1990

Richard Bavetta Scholarship 1988-1990

Visiting Urologic Surgeon - Nairobi, Kenya,  
Instruction/ Didactic Sessions with Kenyan  
Pediatric Surgeons, Performance of 25 Urologic  
Procedures January 29 to February 14, 1999 –  
Healing the Children / Midlantic Division

Magna Cum Laude, St John's University

The Pfizer Scholars in Urology Award – 1999

The Golden Apple Award for Excellence in  
Student and Resident Teaching, 2000

## **PRESENT APPOINTMENTS**

Co-Director - Center for Robotic/ Laparoscopic and Minimally Invasive Urologic Surgery /  
Endourology - Hackensack University Medical Center, Hackensack, New Jersey

Clinical Assistant - Hackensack University Medical Center, Hackensack, New Jersey

Clinical Assistant - Holy Name Hospital, Teaneck, New Jersey

Clinical Assistant Professor – UMDNJ - N.J. Medical School, Newark New Jersey  
Clinical Privileges – St Mary's, Passaic N.J.

Clinical Privileges – The General Hospital of Passaic, Passaic N.J.

## **PREVIOUS APPOINTMENTS**

Resident in General Surgery - July 1994 – June 1996, UMDNJ – New Jersey Medical School Newark, New Jersey

Resident in Urology - July 1996 – June 2000, U– New Jersey Medical School Newark, New Jersey

Research Fellow in Urology - January 1999 – July 1999, New York Hospital Cornell University Medical Center – New York, New York

Instructor in Surgical Anatomy – UMDNJ – New Jersey Medical School – July, 1999 through June 2000

Chief Resident in Urology – University Hospital – UMDNJ –New Jersey Medical School

Visiting Urologic Surgeon - Nairobi, Kenya, January 29 to February 14, 1999 – Healing the Children / Midlantic Division

Fellow in Endourology / Urologic Laparoscopy August, 2000 – July, 2001

The Scottish Lithotripter Centre: Western General Hospital: Edinburgh, Scotland, U.K.; Director; Mr. David.A. Tolley

Laparoscopic Instructor: East of Scotland Urologic Laparoscopy Training Course: Royal College of Surgeons, Edinburgh, Scotland December, 2000 AND March, 2001

## **MEDICAL SOCIETY MEMBERSHIPS**

**American Medical Association**  
**American Urological Association**  
**American Endourological Society**  
**Bergen Medical Society**  
**Society for Laparoscopic Surgery**

## **BIBLIOGRAPHY**

### **ABSTRACTS**

Watson, R.A., Esposito, M.P., Richter, F., Lang, E.K: Percutaneous Nephrostomy as Adjunctive Treatment for Pyonephrosis: AUA Meeting, New Orleans, La May, 1996

Esposito, M.P., Vitenson, J.A., Pecora, A.: Treatment of Hormone Refractory Prostate Cancer with Ketoconazole and Cyclophosphamide: Hackensack University Medical Center Research Day Research December 14, 1998

Esposito, M.P., Vitenson, J.A., : Spectral Polarization Difference Imaging in the Diagnosis of Prostate Adenocarcinoma : Hackensack University Medical Center Research Day December 14, 1998

Esposito, M.P., Vitenson, J.A., Sadeghi, H.: Correlation of Dorsal Vein Velocity, Penile Rigidity and Cavernosal Artery End-Diastolic Velocity in the Diagnosis of Venous Leak Impotence: Hackensack University Medical Center Research Day December 14, 1998,

Esposito, M.P. Bleustein, C.B., Felsen, D. Poppas, D.P.: Mechanism of Healing of the Snodgrass Modification with Incised Plate Urethroplasty Technique: AUA, Atlanta, Ga. May, 2000

Esposito, M.P., Lalak, N. Tolley, D.A.: Complications of the First 200 Cases of Laparoscopic Nephrectomy : British Association of Urologic Surgery, Dublin, Ireland June 25-29, 2001

Esposito, M.P., Lalak, N, Ratchanon, S., Tolley, D.A.: Laparoscopic Renal Surgery in the Octagenarian and Nonagenarian Population, Is It Safe? : World Congress in Endourology and SWL 2001 Bangkok, Thailand

Esposito, M.P., Lalak, N. Tolley, D.A.: Laparoscopic Renal Surgery in the Obese Patient: World Congress On Endourology and SWL 2001 Bangkok, Thailand

Esposito, M.P., Lalak, N., Ratchanon, S. Tolley, D.A.: Endopyelotomy and Balloon Endorupture for the treatment of Primary Pelviureteric Junction Obstruction. Does Success Depend Upon Function? : World Congress On Endourology and SWL 2001 Bangkok, Thailand

Hardy, J., Esposito, M.P., Smith, G., Moussa, S.A., Armitage, A., Tolley, D.A.: Preliminary Investigation into the Prediction of Stone-Free Rates After ShockWave Lithotripsy Using Neural Networks : World Congress On Endourology and SWL 2001 Bangkok, Thailand

Esposito, M.P., Lalak, N. Wilson, I., Tolley, D.A.: Laparoscopic Radical Nephrectomy: Results Following 25 Cases: World Congress On Endourology and SWL 2001 Bangkok, Thailand

Esposito, M.P., Smith, G., Tolley, D.A., Moussa, S.A: Management of Renal Calculi in Pelvic Kidneys World Congress On Endourology and SWL 2001 Bangkok, Thailand

## **PRESENTATIONS**

Percutaneous Nephrostomy as Adjunctive Treatment for Pyonephrosis: AUA Meeting, New Orleans, La May, 1996

Treatment of Hormone Refractory Prostate Cancer with Ketoconazole and Cyclophosphamide: Hackensack University Medical Center Research Day Research December 14, 1998

Spectral Polarization Difference Imaging in the Diagnosis of Prostate Adenocarcinoma: Hackensack University Medical Center Research Day December 14, 1998

Correlation of Dorsal Vein Velocity, Penile Rigidity and Cavernosal Artery End-Diastolic Velocity in the Diagnosis of Venous Leak Impotence: Hackensack University Medical Center Research Day, December 14, 1998

Mechanism of Healing of the Snodgrass Modification with Incised Plate Urethroplasty Technique: AUA, Atlanta, Ga. May, 2000

Introduction to Neural Networks in Urology: presented at The Punch Club: Royal College of Surgeons, Edinburgh, Scotland October 12, 2000  
Neural Networks and the Scottish Lithotripter Centre: presented at The Annual ESTPU Meeting, Airth Castle, Perthshire, Scotland

Complications of the First 200 Cases of Laparoscopic Nephrectomy: British Association of Urologic Surgery: Dublin, Ireland June 25-29, 2001

Robotic and Laparoscopic Radical Prostatectomy: American College of Surgeons New Jersey Chapter Princeton N.J. December 2002

Extraperitoneal Robotic Radical Prostatectomy using the Four-Arm daVinci Surgical System Minimally Invasive Urologic Surgery Update: Birmingham, Alabama October 2-5, 2003

## **PUBLICATIONS**

Tolley, D.A., Esposito, M.P. : Laparoscopic and renal sparing approaches to tumours of the ureter and bladder: *Surgical Oncology* 11: 47-54, 2002

Lalak, N., Esposito, M.P., Tolley, D.A. : Laparoscopic Renal Surgery in Obese Patients : *Journal of Urology*

Watson, R.A. Esposito, M.P. Richter, F. Lang, E.K.: Percutaneous Nephrostomy as Adjunctive Treatment for Pyonephrosis: *UROLOGY* 54 (2):234-239, 1999

Bleustein, C.B. Esposito, M.P. Soslow, R.A. Felsen, D. Poppas, D.P. : Mechanism of Healing Following the Snodgrass Hypospadias Repair. : *J UROL* 165 (1) :277-9, 2001

DeMeritt, J. Esposito, M.P. Elmasri, F. Rosenberg, and G.S.: Superselective Relief of Benign Prostatic Hyperplasia – Related Bladder Outlet Obstruction After Transarterial Polyvinyl Alcohol Prostate Embolization. : *J VASC INTERV RADIOL* 11(6) :767- 770, 2000

Esposito, M.P. Ginsburg, B. Poppas, D.P. Alternative Methods for Urethroplasty: Comparison of Laser Tissue Welding, Fibrin Sealant and Conventional Suture Repair: submitted

Esposito, M.P. LaSalle, M. Kasabian, N.: Female Urethral Diverticulum with Stone Formation : a Case Report and Review of Literature. : submitted

Lauto, A. Mingin, G. Esposito, M.P. Poppas, D. P.: Laser Vasovasostomy in the Rat Model : A Novel Use of Chitisan as a Luminal Stent : submitted

Patel, N., Esposito, M.P., Fromowitz, F. Renal Papillary Adenomas, submitted

Esposito, M.P., Lalak, N, Ratchanon, S., Tolley, D.A.: Laparoscopic Renal Surgery in the Octagenarian and Nonagenarian Population, Is It Safe? : submitted

Esposito, M.P., Lalak, N. Tolley, D.A.: Laparoscopic Renal Surgery in the Obese Patient: submitted

Esposito, M.P., Lalak, N., Ratchanon, S. Tolley, D.A.: Endopyelotomy and Balloon Endorupture for the treatment of Primary Pelviureteric Junction Obstruction. Does Success Depend Upon Function? : submitted.

Hardy, J., Esposito, M.P., Smith, G., Moussa, S.A., Armitage, A., Tolley, D.A: Preliminary Investigation into the Prediction of Stone-Free Rates Following ShockWave Lithotripsy Using Neural Networks: submitted

Esposito, M.P., Lalak, N. Wilson, I., Tolley, D.A.: Laparoscopic Radical Nephrectomy: Results Following 25 Cases: submitted

Esposito, M.P., Smith, G., Tolley, D.A., Moussa, S.A: Management of Renal Calculi in Pelvic Kidneys

## **PRIOR RESEARCH**

Upon completion of a fellowship in Endourology/Laparoscopic Urology, I wished to enter a career in academic surgery. In order to attain this goal it is imperative to have a solid foundation in animal research as well as molecular biology.

From January to July 1999 I completed the formal research component of my residency at Cornell. I was involved in two major projects. The first is a clinical protocol, whereby alternative methods of wound closure in hypospadias repair are to be evaluated.

Current methods of hypospadias repair involve the approximation of tissue with suture. Despite improved techniques the failure rate remains between 6% and 20%. The minimally invasive surgery lab at New York Hospital has extensive experience in alternative forms of tissue approximation. The lab was one of the first to define the optimal parameters for laser tissue welding including pioneering work in the area of liquid and solid albumin solders.

As a part of this protocol we will create a hypospadiac rat model. These animals will be repaired with the aid of laser assisted welding with and without albumin stent, fibrin glue, or conventional suture.

The potential benefits accrued from the above may lead to the formation of a more rapid water tight seal, with reduced trauma, operative time and improved wound healing.

The second project although involving a minimal amount of animal surgery incorporates a basic science component. Work previously done in our lab has shown that protein solder augments the effect of laser tissue anastomoses. To improve this technology biologic modifiers have been added to the solder to improve and accelerate wound healing. Work done by D.P. Poppas has shown that albumin solder supplemented with TGF- B1 growth factor accelerated wound closure following laser welding.

The primary objective of this research is to develop a new technology that will permit both rapid and reliable wound closure and the gradual in situ delivery of recombinant biological modifiers important in injury repair. This project will allow me to attain experience in basic gene therapy, as we develop and use novel plasmid vectors for the incorporation of growth factors into the albumin solder.

Although my goal is not to become a basic scientist I hope to gain from the laboratory experience a firm grasp of scientific principals as well as a heightened ability to problem solve which is critical for success as academic surgeon.

## **CURRENT RESEARCH**

During my time at the Western General Hospital / Scottish Lithotripter Centre These have been my primary areas of interest and in which I have completed audits.

Complications of the last 200 cases of Laparoscopic Nephrectomy: with focus on the octagenarian/nonagenarian population, obese patients, Laparoscopic Radical Nephrectomy and Nephroureterectomy

Laparoscopic Renal Surgery in the Obese and Non-Obese Patient. Is It Safe?

Laparoscopic Renal Surgery in the Octagenarian and Nonagenarian Patient. Is It Safe

Laparoscopic Fengerplasty for the Management of the Obstructed Pelviureteric Junction. A series of selected patients based upon poor prognostic characteristics with outcome.

Percutaneous Stone Management in Ectopic Kidneys

Minimally Invasive Treatment of The Obstructed Pelviureteric Junction: a comparison of Antegrade Endopyelotomy, Retrograde Ureteroscopic Endopyelotomy and the Endoburst Procedure. Defining Selection Parameters For the Treatment of PUJO.

Management of Nephrolithiasis in Pelvic Kidneys

Robotic prostate cancer surgery

Robotic Renal and Adrenal Surgery

Laparoscopic prostate cancer surgery

Laparoscopic ablation of Renal Masses using Cryosurgical technique and Radio Frequency

Extraperitoneal Robotic and Laparoscopic Surgery