

CURRICULUM VITAE LOAY SALMAN, MD

1. **Date:** 08/10/2014

I. PERSONAL

2. **Name:** Loay Salman
4. **Office Phone:** 305-243-3583
6. **Current Academic Rank:** Associate Professor of Medicine, Clinical Track
7. **Primary Department:** Medicine
8. **Secondary or Joint Appointments:** None

II. HIGHER EDUCATION

11. Institutional:

- Tishreen University, Lattakia, Syria 9/1/1987- 9/1/1993. **Degree: MD**
I was awarded with Dean's list throughout medical school years.
- Executive MBA, Health Sector Management and Policy 01/01/2013 - 12/31/2014
School of Business Administration, University of Miami.

12. Non-Institutional:

- Chief Resident, Department of Internal Medicine, 7/1/1999 - 6/30/2000
New York University, New York, NY.
- Intern & Resident, 7/1/1994 - 6/30/1996
Department of Internal Medicine & Medical Lab.,
American University of Beirut, Beirut, Lebanon.
- Externship, Department of Radiology, 9/2/1993 - 6/30/1994
American University of Beirut, Beirut, Lebanon.
- Intern & Resident, Dept. of Internal Medicine, 7/1/1996 - 6/30/1999
New York University, New York, NY.

13. Certification:

- American Board of Internal Medicine 11/1999 and recertified 05/2010
- ASDIN Certification in Hemodialysis Vascular Access Procedures 2009
- ASDIN Certification in Peritoneal Dialysis Catheter Procedures 2009

- Specialist in Clinical Hypertension 08/01/2009
- American Board of Nephrology 2008
- ECFMG Certification 1996

Licensure:

- Florida Board of Medicine state License – Active
- Georgia Board of Medicine state License – Active
- North Carolina Board of Medicine state License – Active

III. EXPERIENCE

14. Academic:

- Associate Professor of Clinical Medicine, 06/01/2012 - Present
Division of Nephrology, Hypertension and Interventional Nephrology,
University of Miami Miller School of Medicine, Miami, Florida.
- Assistant Professor of Clinical Medicine, 07/01/2008 - 06/01/2012
Division of Nephrology, Hypertension and Interventional Nephrology
University of Miami Miller School of Medicine, Miami, Florida.

15. Hospital Appointments

- Jackson Memorial Hospital, Miami, Florida 07/2008 - Present.
- University of Miami Hospital and Clinics, Miami, Florida 07/2008 - Present.
- University of Miami Hospital, Miami, Florida 07/2008 - Present.
- Department of Veteran Affairs Hospital, Miami, Florida. 07/2008 – Present.

16. Non-Academic:

- Tutorial instructor, PHD-MD Program, 7/1/1999-6/30/2000
Department of Medicine, New York University, New York, NY.
- Attending physician & director of EMS, 7/1/2000 - 6/30/2006
Crisp Regional hospital, Cordele, Georgia.

17. **Military:** None.**IV. PUBLICATIONS**

18. Books and monographs published:

- 1) **Salman L**, Yevzlin A, Asif A, editors: Clinician guide to Interventional Nephrology, Springer Science. Pending publication. (ISBN-13: 978-1461488026 ISBN-10: 1461488028) Publisher: Springer; 2014 edition (December 30, 2013).
- 2) **Salman L**, Approach to abnormal surveillance measurement: Clinician guide to Interventional Nephrology, Salman L, Yevzlin A and Asif A ed. Springer Science. (ISBN-13: 978-1461488026 ISBN-10: 1461488028) Publisher: Springer; 2014 edition (December 30, 2013). 163-168, 2014
- 3) **Salman L**, the role of physical examination of HD access for the general nephrologist: Vascular Access for the General Nephrologist (ISBN13: 978-1622573097 - ISBN10: 1622573099), M Chan, A Yevzlin and A Asif ed., Nova Science Publisher Inc., 107-114, 2013
- 4) **Salman L**, Asif A, Vascular mapping: Interventional Nephrology 13 edition (ISBN13: 978-0071769327 - ISBN10: 0071769323), A Asif, A Agarwal, A Yevzlin, S Wu and G Beathard ed., McGraw-Hill Publishing Company, 95-100, 2012
- 5) Asif A, **Salman L**, Beathard G, Cardiac Rhythm Devices in renal patients: Interventional Nephrology 13 edition (ISBN13: 978-0071769327 - ISBN10: 0071769323), A Asif, A Agarwal, A Yevzlin, S Wu and G Beathard ed., McGraw-Hill Publishing Company, 369-378, 2012
- 6) **Salman L**, Asif A, Complications of Peritoneal Dialysis Catheter Procedures: Interventional Nephrology 13 edition (ISBN13: 978-0071769327 - ISBN10: 0071769323), A Asif, A Agarwal, A Yevzlin, S Wu and G Beathard ed., McGraw-Hill Publishing Company, 547-552, 2012
- 7) **Salman L**, Steal: Incidence and epidemiology: TOTAL ENDOVASCULAR SERIES - Dialysis Access - Contemporary Management (ISBN: 9781935395423), Alan B. Lumsden and Mark G Davies ed., Cardiotext Publishing, 2013
- 8) **Salman L**, Asif A, Introduction: ASDIN Core Curriculum for Peritoneal Dialysis Catheter Procedures: American Society of Diagnostic and Interventional Nephrology (ISBN: 1452893233 - ISBN-13: 9781452893235), ASDIN, 1-2, 2010
- 9) **Salman L**, Asif A, Peritoneal Dialysis Removal and Complications of Peritoneal Dialysis Catheters: ASDIN Core Curriculum for Peritoneal Dialysis Catheter Procedures: American Society of Diagnostic and Interventional

Nephrology (ISBN: 1452893233 - ISBN-13: 9781452893235), ASDIN, 83-92, 2010

10) Rahman M, **Salman L**, Asif A, *Interventional Nephrologists and Hemodialysis Access Procedures: Dialysis: History, Development and Promise* (ISBN13: 978-9814289757 - ISBN10: 9814289752), A Asif, A Agarwal, A Yevzlin, S Wu and G Beathard ed., World Scientific Publishing Co. Pte. Ltd., 193-202, 2012

19. Juried or refereed journal articles:

- 1) **Salman L**, Vazquez-Padron RI, Castro H, Monrroy M, Abdelwahed Y, Rizvi A, Merrill D, Asif A.
Measurement of Vessel Diameter During Angioplasty: Are We Accurately Performing This Task?
Semin Dial. 2013 Nov 22.
- 2) **Salman L**, Castro H, Vazquez-Padron RI, Monrroy M, Abdelwahed Y, Rizvi A, Duque J, Akmal MU, Merrill D, Nayer A, Asif A.
Balloon Cinch Deformity during Angioplasty Procedures: An Indications for Impeding Rupture.
Semin Dial. 2014 Mar;27(2):E21-3.
- 3) Haqqie SS, Nappi A, Siskin G, Syed NA, Ghate K, Mathew RO, Wang J, Sidhu MS, Kumar V, **Salman L**, Merrill D, Akmal MU, Nayer A, Asif A.
Renal Artery Stenosis: To Intervene, or Not to Intervene, "That is the Question".
Semin Dial. 2014 Jan-Feb;27(1):E4-7.
- 4) **Salman L**, Beathard G.
Interventional nephrology: physical examination as a tool for surveillance for the hemodialysis arteriovenous access.
Clin J Am Soc Nephrol. 2013 Jul;8(7):1220-7.
- 5) Asif A, Castro H, Waheed AA, Kumar V, Haqqie SS, Siskin G, Mathew RO, Mason D, Vachharajani T, Nayer A, Merrill D, Akmal MU, **Salman L**.
Blood Pressure Recordings During Hemodialysis Access Interventions: Implications for Acute Management.
Semin Dial. 2013 Jul-Aug;26(4):E30-2.
- 6) Asif A, Siskin G, Kumar V, Haqqie SS, Mathew RO, Wang S, Nayer A, Merrill D and **Salman L**.
Radial Artery Harvest: A Potential Cause of Arteriovenous Access-Associated Hand Ischemia.
Semin Dial. 2013, May-Jun;26(3):E17-9.

- 7) Saad TF, Hentschel DM, Koplan B, Wasse H, Asif A, Patel DV, **Salman L**, Carrillo R and Hoggard J, Cardiovascular Implantable Electronic Device Leads in CKD and ESRD Patients: Review and Recommendations for Practice. ASDIN Clinical Practice Committee Workgroup. Semin Dial. 2013, Jan-Feb; 26(1):114-23.
- 8) Asif A, Carrillo R, Garisto JD, Monrroy M, Khan RA, Castro H, Merrill D, Ali AS, Pai AB, Waldman J and **Salman L**. Prevalence of Chronic Kidney Disease in Patients Undergoing Cardiac Rhythm Device Removal. Semin Dial. 2013, Jan-Feb; 26(1):111-3.
- 9) **Salman L** and Asif A, To the Editor-Jailing of cardiac leads with endovascular stents in hemodialysis patients. Heart Rhythm. 2012, Jun;9(6):e16.
- 10) Asif A, **Salman L**, Lopera G, Haqqie SS and Carrillo R. Transvenous Cardiac Implantable Electronic Devices and Hemodialysis Catheters: Recommendations to Curtail a Potentially Lethal Combination. Semin Dial. 2012, Sep-Oct;25(5):582-6.
- 11) Manning E, Skartsis N, Orta AM, Velazquez OC, Liu ZJ, Asif A, **Salman LH**, Vazquez-Padron RI. A New Aorto-Caval Fistula Model to Study the Development of Neointimal Hyperplasia. J Vasc Res. 2012, Jan 13;49(2):123-131.
- 12) **Salman L** and Asif A. Renal failure and cardiac rhythm device infection. J Cardiovasc Electrophysiol. 2012, Feb; 23(2):E92.
- 13) Vachharajani TJ, Moossavi S, **Salman L**, Wu S, Dwyer AC, Ross J, Dukkipati R, Maya ID, Yevzlin AS, Agarwal A, Abreo KD, Work J and Asif A. Dialysis vascular access management by interventional nephrology programs at University Medical Centers in the United States. Semin Dial. 2011, Sep-Oct; 24(5):564-9.
- 14) Kian K, Shapiro JA, **Salman L**, Khan RA, Merrill D, Garcia L, Eid N, Asif A, Aldahan A and Beathard G. High Brachial Artery Bifurcation: Clinical Considerations and Practical Implications for an Arteriovenous Access. Semin Dial. 2012, Mar-Apr; 25(2):244-7.
- 15) Asif A, **Salman LH**, Lopera GG and Carrillo RG.

The dilemma of transvenous cardiac rhythm devices in hemodialysis patients: time to consider the epicardial approach?
Kidney Int. 2011, Jun;79(12):1267-9.

- 16) Skartsis N, Manning E, Wei Y, Velazquez O.C., Liu ZJ, Goldschmidt-Clermont P.J., **Salman L.H.**, Asif A and Vazquez-Padron R.I.
Origin of Neointimal Cells in Arteriovenous Fistulae: Bone marrow, artery or the vein itself?
Semin Dial. 2011, Mar-Apr;24(2):242-8.
- 17) Micah Chan, **Loay Salman** and Alexander S. Yevzlin.
Tunneled HD catheters: What do Nephrologists need to know?"
Dialysis & Transplantation. 2011, 40 (5), 196–199.
- 18) Roger G. Carrillo, Juan D. Garisto, **Loay Salman** and Arif Asif.
Arteriovenous Dialysis Access-Associated Transvenous Pacemaker Infection.
Clin Nephrol. 2011, Feb;75(2):174-8.
- 19) Vachharajani TJ, Moossavi S, **Salman L**, Wu S, Maya ID, Yevzlin AS, Agarwal A, Abreo KD, Work J and Asif A.
Successful models of interventional nephrology at academic medical centers,
Clin J Am Soc Nephrol. 2010, Nov;5(11):2130-6.
- 20) Arif Asif, Roger Carrillo, Juan-Domingo Garisto, Gustavo Lopera, Marco Ladino, Urwa Barakat, Nadia Eid and **Loay Salman**.
Epicardial Cardiac Rhythm Devices for Dialysis Patients: Minimizing the risk of infection and preserving central veins.
Seminars in Dialysis. 2012, Jan-Feb;25(1):88-94.
- 21) **Loay Salman** and Arif Asif.
Dialysis: the stent graft for stenosis: let's appraise before we praise.
Nat Rev Nephrol. 2010, Sep;6(9):503-4.
- 22) Arif Asif, Florin Gadalean, Nadia Eid, Donna Merrill and **Loay Salman**.
Stent-Graft Infection and Protrusion through the Skin: Clinical considerations and potential medico-legal ramifications.
Seminars in Dialysis.2010 Sep-Oct; 23(5):540-2.
- 23) **Loay Salman** and Arif Asif.
Stent-Graft for Nephrologists: Concerns and Consensus.
Clin J Am Soc Nephrol, 2010, Jul;5(7):1347-52.
- 24) Roger G. Carrillo, Juan D. Garisto, **Loay Salman**, Donna Merrill and Arif Asif.
Contamination of Transvenous Pacemaker Leads Due to Tunneled Hemodialysis Catheter Infection: A Report of 2 Cases.

- Am J Kidney Dis 2010, 55:1097-1101.
- 25) **Salman L**, Ladino M, Alex M, Dhamija R, Merrill D, Lenz O, Contreras G and Asif A.
Accuracy of ultrasound in the detection of inflow stenosis of arteriovenous fistulae: results of a prospective study.
Semin Dial. 2010, Jan-Feb;23(1):117-21.
- 26) **Salman L**, Asif A and Beathard GA.
Retrograde Angiography and the Risk of Arteriovenous Fistulae Perforation, Seminars in Dialysis, 2009, Nov-Dec; 22(6):698-701.
- 27) Carrillo RG, Garisto JD, **Salman L**, Merrill D and Asif A.
A Novel Technique for Tethered Dialysis Catheter Removal Using the Laser Sheath.
Seminars in Dialysis, 2009, Nov-Dec; 22(6):688-91.
- 28) Arif Asif, **Loay Salman**, Roger G. Carillo, Gustavo Lopera, Urwa Barakat, Oliver Lenz, Alexander Yevzlin, Anil Agarawal, Florin Gadalean, Bharat Sachdeva, Tushar J. Vachharajani, Steven Wu, Ivan D. Maya and Ken Abreo.
Patency Rates for Angioplasty in the Treatment of Pacemaker-Induced Central Venous Stenosis in Hemodialysis Patients: Result of a Multi-Center Study.
Seminars in Dialysis, 2010, Jan; 23(1):117-21.
- 29) Antoine Samaha, **Loay Salman** and Arif Asif.
Arterial Angioplasty to Treat Hand Ischemia in a Radial-Cephalic Fistula.
Seminars in Dialysis, 2009, Sep-Oct; 22(5):561-3.
- 30) Alvarez AC, **Salman L**.
Peritoneal dialysis access placement and management by nephrologists.
Review article.
Advances in Chronic Kidney Diseases journal, Sep; 2009, 16(5):378-85.
- 31) **Loay Salman**, Ivan D. Maya and Arif Asif.
Current Concepts in the Pathophysiology and Management of Arteriovenous Access-Induced Hand Ischemia.
Advances in Chronic Kidney Diseases journal, 2009, Sep; 16(5):371-7.
- 32) **Loay Salman**, Manju Alex, Stephen W Unger, Gabriel Contreras, Oliver Lenz and Arif Asif.
Secondary Autogenous Arteriovenous Fistulas in the “Fistula First” Era: Results of a Longterm Prospective Study.
J Am Coll Surg. 2009, Jul;209(1):100-5.
- 33) **Loay Salman** and Arif Asif.

Antibiotic Prophylaxis: Is it needed for Dialysis Access Procedures?
Dial. 2009, May-Jun; 22(3):297-9.

- 34) Arif Asif, **Loay Salman**, Kenneth L. Choi, Carlos A. Mercado, Gururaj Krishnamurthy, Donna Merrill, Beatrice Francois and Gabriel Contreras, Impact of Surgeon Selection on the Prevalence of Arteriovenous Fistulas After Upper Extremity Angiographic Vein Mapping.
Semin Dial. 2008, Jul-Aug;21(4):341-5.
- 35) Leon C, Orozco-Vargas LC, Krishnamurthy G, Choi KL, Mercado C, Merrill D, Thomas I, **Salman L**, Artikov S, Bourgoignie JJ and Asif A.
Accuracy of physical examination in the detection of arteriovenous graft stenosis.
Semin Dial. 2008, Jan-Feb;21(1):85-8.
- 36) Mercado C, **Salman L**, Krishnamurthy G, Choi K, Artikov S, Thomas I, Merrill D and Asif A.
Early and late fistula failure.
Clin Nephrol. 2008, Feb;69:77-83.
- 37) Asif A, Leon C, Orozco-Vargas LC, Krishnamurthy G, Choi KL, Mercado C, Merrill D, Thomas I, **Salman L**, Artikov S and Bourgoignie JJ.
Accuracy of physical examination in the detection of arteriovenous fistula stenosis.
Clin J Am Soc Nephrol. 2007, Nov;2(6):1191-4.
- 38) **Salman L** and Asif A.
Current Concept of Hand Ischemia, Review article.
End-stage Renal Disease - Vascular Access, 2008, 2, 44-46.
- 39) Bini EJ, Reinhold JP, Weinshel EH, Generoso R, **Salman L**, Dahr G and Pena-Sing I.
Prospective evaluation of the use and outcome of admission stool guaiac testing: The Digital Rectal Examination on Admission to the Medical Service (DREAMS) study.
J Clin Gastroenterol, 2006, 40:821-827.
- 40) Bini EJ, Weinshel EH, Generoso R, **Salman L**, Dahr G, Pena-Sing I.
Impact of gastroenterology consultation on the outcomes of patients admitted to the hospital with decompensated cirrhosis.
Hepatology, 2001, 34:1089-1095.

20. Other works, publications and abstracts:

- 1) Timothy Muchayi, Gabriel Contreras, Arif Asif, Oliver Lenz, **Loay Salman**.
Dialysis Access Surveillance: Where Do we stand? A Meta-analysis

- Poster presentation at the American Society of Diagnostic and Interventional Nephrology (ASDIN) 2014 annual scientific meeting, Phoenix, Arizona.
- 2) Duque JC, **Salman L**, Tabbara M, Asif A, Vazquez-Padron RI
Inflammatory cells and Arteriovenous Fistula Maturation in Rats
Poster presentation at the American Society of Diagnostic and Interventional Nephrology (ASDIN) 2014 annual scientific meeting, Phoenix, Arizona.
 - 3) Rajiv Dhamija, Kendell Felker, Nina Patel, **Loay Salman**, Gary Siskin, Arif Asif.
The use of a Subcutaneous Implantable Cardioverter-Defibrillator in Chronic Hemodialysis Patients.
Poster presentation at the American Society of Diagnostic and Interventional Nephrology (ASDIN) 2014 annual scientific meeting, Phoenix, Arizona.
 - 4) Skartsis N, Pham SM, Tabbara M, Wei Y, **Salman LH**, Asif A, Vazquez-Padron RI. RNA Interference and Inhibition of Stem Cell Factor (SCF)/c-Kit Signaling Prevent Stenosis of Arteriovenous Fistulae. Poster Presentation at American Heart Association 2011 Scientific Sections in Orlando. Circulation, Oct 2011.
 - 5) **Loay Salman**, Jose Esquenazi, Juan Garisto, Marco Ladino, Mauricio Monrroy, Donna Merrill, Roger Carrillo, Lopera Gustavo, Urwa Barakat, Arif Asif. Epicardial Leads: Might this be the Preferred Route for Chronic Renal Failure Patients?
Abstract presented at the American Society of Diagnostic and Interventional Nephrology scientific meeting (02/2010).
 - 6) William D. Paulson, MD1, Arif Asif, MD2, **Loay H. Salman**, MD2 and Steven A Jones, PhD3. 1Medicine, Charlie NorwoodVA Med. Center, Augusta, GA, United States; 2Medicine, U. of Miami Miller School of Med., Miami, FL, United States and 3Biomedical Engineering, Louisiana Tech U., Ruston, LA, United States.
MATHEMATICAL MODEL OF ARTERIOVENOUS FISTULA (AVF): A POWERFUL METHOD TO IMPROVE UNDERSTANDING OF THE HEMODYNAMICS OF AVF FAILURE
Abstract presented at the American Society of Nephrology scientific meeting 11/2010
 - 7) Antoine Samaha, Manuel Garcia-Estrada, Marco Ladino, **Loay Salman**, Donna Merrill, Urwa Barakat, Arif Asif.
Rerouting Procedure for Arteriovenous Accesses: Is it Worth Using the Side Branches?
Abstract presented at the American Society of Diagnostic and Interventional Nephrology scientific meeting (02/2010).

- 8) **Loay Salman**, Juan Garisto, Alba Gonzalez, Jose Esquenazi, Marco Ladino, Marco Pagani, Donna Merrill, Roger Carrillo, Lopera Gustavo, Urwa Barakat, Arif Asif.
Impact of Balloon Inflation on Pacemaker Leads.
Abstract presented at the American Society of Diagnostic and Interventional Nephrology scientific meeting (02/2010).
- 9) Roger Carillo, Juan Domingo, **Loay Salman**, Marco Ladino, Manuel Garcia-Estrada, Donna Merrill, Arif Asif.
Laser Sheath Removal of a Tethered Tunneled Dialysis catheter.
Abstract presented at the American Society of Nephrology scientific meeting (11/2009)
- 10) **Loay Salman**, Marco Ladino, Manju Alex, Marco Pagani, Rajiv Dhamija, Aiman Layka, Donna Merrill, Oliver Lenz, Arif Asif.
Assessment of Inflow Stenosis by Ultrasound: Results of a Prospective Study. Abstract. Presented at the American Society of Nephrology scientific meeting (11/2009)
- 11) Arif Asif (1), **Loay Salman (1)**, Roger G. Carillo (2), Gustavo Lopera (3), Urwa Barakat (3), Oliver Lenz (1), Marco Ladino (1), Manuel Garcia-Estrada (1), Florin Gadalean (2), Anil Agarwal (3), Alexander Yevzlin (4), Bharat Sachdeva (5), Tushar J. Vachharajani (6), Steven Wu (7), Ivan D. Maya (8), Ken Abreo (5) Institutions: 1) Interventional nephrology, Cardiothoracic Surgery and electrophysiology, University of Miami, Miami, FL 2) Nephrology Associates, Orlando, FL. 3) University of Ohio, Columbus, OH. 4) University of Wisconsin, Madison, WI. 5) Louisiana State University, Shreveport, Louisiana. 6) Wake Forest University School of Medicine, Winston Salem, North Carolina 7) Massachusetts General Hospital, Harvard University, Boston, MA. 8) University of Alabama, Birmingham, AL.
Management of Pacemaker-Induced Central Stenosis in Hemodialysis Patients: Result of a Multi-Center Study.
Abstract presented at the American Society of Nephrology scientific meeting (11/2009)
- 12) **Loay Salman**, Arif Asif, Manju Alex, Ian Thomas, Shukhrat Artikov, Donna Merrill, Gabriel Contreras, B. Francois.
Patency Rates for Secondary Fistulae Are Not Colossal in the “Fistula First” Era. J Am Soc Nephrol 19:900A, 2008
- 13) **Loay Salman**, Arif Asif, Sanghamithra Sadhu, Adela Mattiazzi, Manju Alex, Ian Thomas, Shukhrat Artikov, Donna Merrill, B. Francois.
Adverse Reactions to Contrast Dye Can Be Life-Threatening in Outpatient Interventional Nephrology Laboratories. J Am Soc Nephrol 19:901A, 2008

- 14) **Loay Salman**, Arif Asif, Manju Alex, Marco Ladino, Ian Thomas, Shukhrat Artikov, Donna Merrill, B. Francois, Contreras Gabriel.
Loop Arteriovenous Fistulae: Do They Have a Place as Hemodialysis Access?
J Am Soc Nephrol 19:257A, 2008
- 15) **Loay Salman**, Manju Alex, Arif Asif, Gabriel Contreras, Ian Thomas, Shukhrat Artikov, Marco Ladino, Adela Mattiazzi.
Peritoneal dialysis underutilization: Is interventional nephrology part of the solution. J Am Soc Nephrol 19:911A, 2008
- 16) Manju Alex, Arif Asif, Gabriel Contreras, Ian Thomas, Shukhrat Artikov, Marco Ladino, Adela Mattiazzi, **Loay Salman**.
Blunt needle reduces bowel perforation during peritoneal dialysis catheter insertion. J Am Soc Nephrol 19:912A, 2008
- 17) Buxbaum J, Jacobson D, Tago C, **Salman L**.
Pathogenesis of Cardiac Amyloidosis in Aging African-Americans. Variant sequence Transthyretin I α (Isoleucine) 122 allele in late onset cardiac amyloidosis in African Americans.
- 18) **Loay Salman**, Jose Esquenazi, Juan Garisto, Marco Ladino, Mauricio Monrroy, Donna Merrill, Roger Carrillo, Lopera Gustavo, Urwa Barakat, Arif Asif. Epicardial Leads: Might this be the Preferred Route for Chronic Renal Failure Patients?
Abstract presented at the American Society of Diagnostic and Interventional Nephrology scientific meeting (02/2010).
- 19) Antoine Samaha, Manuel Garcia-Estrada, Marco Ladino, **Loay Salman**, Donna Merrill, Urwa Barakat, Arif Asif.
Rerouting Procedure for Arteriovenous Accesses: Is it Worth Using the Side Branches?
Abstract presented at the American Society of Diagnostic and Interventional Nephrology scientific meeting (02/2010).
- 20) **Loay Salman**, Juan Garisto, Alba Gonzalez, Jose Esquenazi, Marco Ladino, Marco Pagani, Donna Merrill, Roger Carrillo, Lopera Gustavo, Urwa Barakat, Arif Asif.
Impact of Balloon Inflation on Pacemaker Leads.
Abstract presented at the American Society of Diagnostic and Interventional Nephrology scientific meeting (02/2010).
- 21) Roger Carillo, Juan Domingo, **Loay Salman**, Marco Ladino, Manuel Garcia-Estrada, Donna Merrill, Arif Asif.
Laser Sheath Removal of a Tethered Tunneled Dialysis catheter.
Abstract presented at the American Society of Nephrology scientific meeting (11/2009)

- 22) **Loay Salman**, Marco Ladino, Manju Alex, Marco Pagani, Rajiv Dhamija, Aiman Layka, Donna Merrill, Oliver Lenz, Arif Asif. Assessment of Inflow Stenosis by Ultrasound: Results of a Prospective Study. Abstract. Presented at the American Society of Nephrology scientific meeting (11/2009)
- 23) **Loay Salman**, Arif Asif, Manju Alex, Ian Thomas, Shukhrat Artikov, Donna Merrill, Gabriel Contreras, B. Francois. Patency Rates for Secondary Fistulae Are Not Colossal in the “Fistula First” Era. *J Am Soc Nephrol* 19:900A, 2008
- 24) **Loay Salman**, Arif Asif, Sanghamithra Sadhu, Adela Mattiazzi, Manju Alex, Ian Thomas, Shukhrat Artikov, Donna Merrill, B. Francois. Adverse Reactions to Contrast Dye Can Be Life-Threatening in Outpatient Interventional Nephrology Laboratories. *J Am Soc Nephrol* 19:901A, 2008
- 25) **Loay Salman**, Arif Asif, Manju Alex, Marco Ladino, Ian Thomas, Shukhrat Artikov, Donna Merrill, B. Francois, Contreras Gabriel. Loop Arteriovenous Fistulae: Do They Have a Place as Hemodialysis Access? *J Am Soc Nephrol* 19:257A, 2008
- 26) **Loay Salman**, Manju Alex, Arif Asif, Gabriel Contreras, Ian Thomas, Shukhrat Artikov, Marco Ladino, Adela Mattiazzi. Peritoneal dialysis underutilization: Is interventional nephrology part of the solution. *J Am Soc Nephrol* 19:911A, 2008
- 27) Manju Alex, Arif Asif, Gabriel Contreras, Ian Thomas, Shukhrat Artikov, Marco Ladino, Adela Mattiazzi, **Loay Salman**. Blunt needle reduces bowel perforation during peritoneal dialysis catheter insertion. *J Am Soc Nephrol* 19:912A, 2008
- 28) Buxbaum J, Jacobson D, Tago C, **Salman L**. Pathogenesis of Cardiac Amyloidosis in Aging African-Americans. Variant sequence Transthyretin I α (Isoleucine) 122 allele in late onset cardiac amyloidosis in African Americans.

21. **Other Works accepted or publication:** None.

V. PROFESSIONAL

22. **Funded Research performed:**

- Title Vascular Progenitor Cells in Arteriovenous Fistula Stenosis
Agency: NIH-NIDDK Project Grant (1R01DK098511-01)
Role: **CO - Principal Investigator**

Total Grant Award: \$ 1,912,500.00
 Dates: 6/01/13- 5/31/17

- Title: Surveillance – Transonic Hemodialysis Access Surveillance Evaluation (HASE) Study
 Type: Randomized Controlled Trial
 Agency: Transonic Inc.
 Role: **Principal Investigator**
 Total Grant Award: \$ 55,000.00
 Dates: Expected 08/01/14- 12/31/16

23. Editorial Responsibilities: None.

24. Professional and Honorary Organizations:

- American Society of Diagnostic and Interventional Nephrology, 2007 – Current. Chairman of the curriculum subcommittee. Member of the certification committee for hemodialysis vascular access. Member of the certification committee for peritoneal dialysis access.
- American Society of Nephrology, 2007 – Current.
- National Kidney Foundation, 2007 – Current.
- American society of Nephrology program committee member for the “ASN Renal Week 2010 In-Depth Course in “Interventional Nephrology”.
- Co-Chair of Interventional Nephrology post graduate course at the annual scientific meeting (2011& 2012) of the National Kidney Foundation.
- American Society of Diagnostic and Interventional Nephrology, Clinical practice committee. 2010 and 2011.
- Hemodialysis Vascular Access Certifications Subcommittee, American Society of Diagnostic and Interventional Nephrology. 2008- Current.
- Peritoneal Dialysis Catheter Certifications Subcommittee, American Society of Diagnostic and Interventional Nephrology. 2008- Current.
- Chair, Curriculum Subcommittee (Education Committee), American Society of Diagnostic and Interventional Nephrology. (Member 2008-2011 and Chair 2012-Current).
- Program committee. American Society of Diagnostic and Interventional Nephrology 6th annual scientific meeting Feb. 19-21, 2010, Orlando, FL.

25. Honors and Awards:

- Faculty of 1000 Medicine award:
 [Antibiotic Prophylaxis: Is it needed for Dialysis Access Procedures? Loay Salman and Arif Asif. Semin Dial. 2009 May-Jun; 22(3):297-9] was selected for Faculty of 1000 Medicine. (Document available upon request).
 Faculty of 1000 Medicine (www.f1000medicine.com) is a revolutionary literature awareness service that identifies and evaluates the most important

articles published in Medicine based on the recommendations of a Faculty of over 2000 peer-nominated leading researchers and clinicians.

This article's identification and inclusion provides recognition from your peers of its scientific merit and the positive contribution it makes to the medical literature.

- Pinehill Nursing center Excellence in care award. March 30, 2004.
This award was provided to me by the Pinehill Nursing Care System for organizing care for their nursing home patients in their facilities.
 - New York University / Veterans Affairs Medical Center Certificate of Appreciation (07/01/1999 – 06/30/2000).
This was provided to me during my chief resident year at New York University for taking a lead role in organizing the teaching services for Internal Medicine Residents at the Emergency Medical Service department.
 - Dean's list throughout medical school years, 9/1/1987 - 9/1/1993
Tishreen University, Lattakia, Syria
26. Post-Doctoral Fellowships:
University of Miami, Miami, FL; Nephrology Fellowship, 07/2006 to 06/2008
27. Other Professional Activities:
- **Invited manuscript Reviewer:**
 - 1) Review Manuscript:
entitled "How accurate are we in sending patients to angiography?".
Supplement for the American Society of Diagnostic and Interventional Nephrology.
Manuscript number ASDIN-Feb-2014-0009.
 - 2) Review Manuscript:
entitled "Cardiovascular Implantable Electronic Devices in Hemodialysis Patients: Prevalence and Implications for Arteriovenous Hemodialysis Access Interventions".
Supplement for the American Society of Diagnostic and Interventional Nephrology.
Manuscript number ASDIN-Nov-2013-0060.
 - 3) Review Manuscript:
entitled entitled "Outcomes of single stage compared to two-stage basilic vein transposition fistulae".
Supplement for the American Society of Diagnostic and Interventional Nephrology.
Manuscript number ASDIN-Jul-2013-0038.

- 4) Review Manuscript:
entitled " REVIEW OF BLOOD PRESSURE CONTROL RATES AND OUTCOMES".
Journal of the American Society of Hypertension.
Manuscript number JASH-D-13-00072.
- 5) Review Manuscript:
entitled "Safety and blood pressure trajectory of short-term withdrawal of antihypertensive medications in older adults: experience from a clinical trial sample Journal of the American Society of Hypertension".
Journal of the American Society of Hypertension.
Manuscript number JASH-D-13-00015.
- 6) Review Manuscript:
entitled "The Effect of Buttonhole Cannulation versus Rope-ladder Technique on Hemodialysis Access Patency".
Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Jan-2013-0008.
- 7) Review Manuscript:
"Recognition and Management of Masked Hypertension: A review Journal of the American Society of Hypertension".
Journal of the American Society of Hypertension.
Manuscript number JASH-D-12-00094.
- 8) Review Manuscript:
entitled "Surgical Management of Cephalic Arch Occlusive Lesions: Are There Predictors for Outcomes?"
Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript ID ASDIN-Jan-2013-0004.
- 9) Review Manuscript:
entitled "Radiation Doses Associated with Dialysis Vascular Access Procedures Performed by Interventional Nephrologists"
Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript ID ASDIN-Dec-2012-0066.
- 10) Review Manuscript:
"Clinical Significance of Pre-cannulation Venography of a Newly Created Vascular Access in Hemodialysis Patients".
Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Jul-2012-0040.
- 11) Review Manuscript:
"TREATMENT ADHERENCE, CLINICAL OUTCOMES, AND

ECONOMICS OF TRIPLE-DRUG THERAPY IN HYPERTENSIVE PATIENTS.”

Journal of the American Society of Hypertension.

Ms. Ref. No.: JASH-D-12-00042

12) Review Manuscript:

"Active Ambulatory Care Management Supported by Short Message Services and Mobile Phone Technology in Patients with Arterial Hypertension.”

Journal of the American Society of Hypertension.

Ms. Ref. No.: JASH-D-12-00035R1

13) Review Manuscript:

"Clinical Study 376128 for the International Journal of Nephrology.

EFFICACY SAFETY OF AMLODIPINE AND VALSARTAN SINGLE-PILL COMBINATION IN HYPERTENSIVE TURKISH PATIENTS (PEAK STUDY).”

Journal of the American Society of Hypertension.

Ms. Ref. No.: JASH-D-12-00033R1

14) Review Manuscript:

"The Role of Intravenous Catheters in Cardiovascular Implantable Electronic Device Infections: Identifying Potential Targets for Prevention.”

American Journal of Infection Control.

Ref: AJIC-D-12-00190R1

15) Review Manuscript:

"Comparison of the Palindrome versus Step-tip Tunneled Hemodialysis Catheter: A Prospective Randomized Trial."

Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Sep-2011-0053

16) Review Manuscript:

"The StenTec™ Gauge for Measuring Static Intra-access Pressure Ratio (PIA Ratio) of Fistulas and Grafts."

Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Sep-2011-0054

17) Review Manuscript:

"Effect of an oral adsorbent, AST-120, on dialysis initiation and survival in patients with chronic kidney disease".

International Journal of Nephrology.

Clinical Study 376128.

18) Review Manuscript:

"Clearance and safety of the radiocontrast medium iopamidol in peritoneal dialysis patients".

International Journal of Nephrology.
Research Article 657051

- 19) Review Manuscript:
"Catheter Dysfunction: The Role of Lock Solutions".
Supplement for the American Society of Diagnostic and Interventional
Nephrology. Manuscript # ASDIN-Jun-2011-0024.
- 20) Review Manuscript:
"Pumping Iron: Revisiting Risks, Benefits and Strategies in Treatment of Iron
Deficiency in End Stage Renal Disease ".
Clinical Nephrology.
Manuscript # 107266.
- 21) Review Manuscript:
"Linezolid versus Vancomycin antibiotic lock solution for the prevention of
non-tunneled catheter related blood stream infections in hemodialysis patients:
a prospective randomized study"
Supplement for the American Society of Diagnostic and Interventional
Nephrology. Manuscript # ASDIN-Feb-2011-0012.
- 22) Review Manuscript:
"Differentiation of bone marrow-derived cells into regenerated mesothelial
cells in peritoneal remodeling using a peritoneal fibrosis mouse model"
Supplement for the American Society of Diagnostic and Interventional
Nephrology. Manuscript # ASDIN-Feb-2011-0010.
- 23) Review Manuscript:
"Hybrid Surgery versus Percutaneous Mechanical Thrombectomy for
Thrombosed Hemodialysis Autogenous Arteriovenous Fistulas" manuscript #
Supplement for the American Society of Diagnostic and Interventional
Nephrology. Manuscript # ASDIN-Nov-2010-0042.
- 24) Review Manuscript:
"Percutaneous Salvage of Thrombosed Immature Arteriovenous Fistulas".
Supplement for the American Society of Diagnostic and Interventional
Nephrology. Manuscript # ASDIN-Sep-2010-0034.
- 25) Review Manuscript:
"Single incision sheathless technique and the Hemostream chronic dialysis
catheter" Supplement for the American Society of Diagnostic and
Interventional Nephrology. Manuscript ID ASDIN-Jul-2010-0026.
- 26) Review book chapter:
Book: "Interventional Nephrology Core Curriculum for Peritoneal Dialysis".
Chapter: "Fluoroscopic Placement of Peritoneal Dialysis Catheters"

Kenneth Abreo M.D., Bharat Sachdeva, M.D., Ivan Maya, M.D.
LSU Health Sciences Center, Shreveport Louisiana and University of
Alabama at Birmingham, Alabama.

- 27) Review Manuscript:
"Total parathyroidectomy without autotransplantation in surgical treatment of secondary hyperparathyroidism of chronic kidney disease".
Clinical Nephrology. Manuscript # 106672 - 1.
- 28) Review Manuscript:
"Retained Catheter Fragment in the right atrium from a fractured tunelled catheter- a rare and potentially lethal condition". Supplement for
the American Society of Diagnostic and Interventional Nephrology.
Manuscript # ASDIN-Apr-2010-0013.
- 29) Review Manuscript:
"Experience with Outpatient Computed Tomographic – Guided Renal Biopsy" Clinical Nephrology. Manuscript # 106505 – 1.
- 30) Review Manuscript:
"Predictive factors associated with left ventricular (LV) hypertrophy at baseline and in the follow-up period in non-diabetic hemodialysis patients".
Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Mar-2010-0007
- 31) Review Manuscript:
"Ischemic Monomelic Neuropathy: Underappreciated cause of pain following dialysis access".

Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Sep-2009-0010.
- 32) Review Manuscript:
"Prophylactic antibiotic for tunneled dialysis catheters".
Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Aug-2009-0003.
- 33) Review Manuscript:
"Uncommon Complications of Tunneled Cuffed Hemodialysis Catheters: Adhesion, Migration and Perforation of the Catheter Tip".
Supplement for the American Society of Diagnostic and Interventional Nephrology. Manuscript # ASDIN-Jul-2009-0002.
- 34) Review Manuscript:
"The history of Interventional Nephrology"

Advances in Chronic Kidney Disease, Vol 16, No 5 (September), 2009: pp 302-308

- **Invited international Lectures:**

- 1) VI CONGRESS OF THE INTERNATIONAL SOCIETY FOR HEMODIALYSIS, XVIII CONGRESO ARGENTINO DE NEFROLOGIA and the XI CONGRESO ARGENTINO PARA ENFERMEROS EN NEFROLOGIA to be held in Buenos Aires, Argentina from Wednesday, September 11-14, 2013. Invited to present for the Interventional Nephrology session.
- 2) Al-Ain Hospital, Al-Ain, United Arab Emirates, Lecture “Cardiovascular Implantable Electronic Device Leads, How problematic are they in hemodialysis patients?” December 2011.
- 3) Syrian American Medical Society meeting, July 2010. Syria, Damascus. Invited lecturer topic: “Secondary Hypertension: The under diagnosed entity”.
- 4) Syrian American Medical Society meeting, July 2009. Syria, Lattakia. Invited lecturer topic: “Hypertension Compelling indications”.

- **Invited National Lectures:**

American Society of Diagnostic and Interventional Nephrology meeting (02/2009), National Kidney Foundation meeting (04/2009), American Society of Nephrology meeting (10/2009), American Society of Diagnostic and Interventional Nephrology meeting (02/2010), National Kidney Foundation meeting (04/2010), American Society of Nephrology meeting (10/2010), American Society of Diagnostic and Interventional Nephrology meeting (02/2011), National Kidney Foundation meeting (04/2011), American Society of Artificial Internal Organs (06/2011), American Society of Nephrology (11/2011), American Society of Diagnostic and Interventional Nephrology meeting (02/2012), National Kidney Foundation National Meeting (05/2012), American Society of Nephrology (11/2012), American Society of Diagnostic and Interventional Nephrology meeting (02/2013).

- **Invited National Lectures: Interventional nephrology workshop:**

Instructor, hands-on workshop on physical examination and endovascular procedures, “Interventional Nephrology for General Nephrologists” course in the following Scientific Meetings:

American Society of Nephrology meeting (11/2008), American Society of Diagnostic and Interventional Nephrology meeting (02/2009), National Kidney Foundation meeting (04/2009), American Society of Nephrology meeting (10/2009), American Society of Diagnostic and Interventional Nephrology

meeting (02/2010), National Kidney Foundation meeting (04/2010), American Society of Diagnostic and Interventional Nephrology meeting (02/2009), National Kidney Foundation meeting (04/2011), American Society of Artificial Internal Organs (06/2011), American Society of Nephrology (11/2011), National Kidney Foundation National Meeting (05/2012), American Society of Nephrology (11/2012).

VI. TEACHING

28. Teaching awards: None.

29. Teaching Specialization:

- Teaching nephrology fellows at the University of Miami clinical nephrology and hypertension during different clinical rotations.
- Training and certification (using the American Society of Diagnostic and Interventional Nephrology recommendations) of the second year fellows and the junior faculty members committed to learn and perform interventional nephrology procedures.
- Teaching and training of outside nephrologists in the area of interventional nephrology.
- Teaching and hands-on demonstration at the national scientific meetings to teach the nephrologists the preliminary and basic techniques of interventional nephrology. I teach regularly at the American Society of Nephrology, American Society of Diagnostic and Interventional Nephrology and National Kidney Foundation annual meetings.
- Teaching and training nephrology nurses and developing their skills in the area of interventional nephrology.
- Teaching a full scale training course in endovascular procedures for dialysis access. The course is offered to nephrologists and nephrology fellows from other centers. Our own fellows are also enrolled in the course. This program provides hand-on training in procedures including percutaneous balloon angioplasty, intravascular stent insertion, intravascular coil placement, Thrombectomy procedures for arteriovenous dialysis access. Vascular mapping using angiography and ultrasound are also taught. Peritoneal catheter insertion and removal. In addition, to technical skills didactic session cover the entire area of dialysis vascular access.
- Teaching residents and medical students on medical team.

- Interactive teaching sessions with fellows to mentor, guide and assist with their scholarly activities.
- Teaching second and third medical students on various nephrology topics “kidney stone, glomerular disease, hypertension, chronic kidney disease, and other topics” at a special didactic group sessions at the University of Miami Medical campus in 2007, 2008, 2009, 2010, 2011, & 2012.

30. Thesis and dissertation Advising / Post-Doctoral Student Supervision: None.

VII. SERVICE

31. Committee and Administrative Responsibilities:

- Director, Interventional Nephrology, 01/01/2012 – Present
**Division of Nephrology, Hypertension and Interventional Nephrology
University of Miami Miller School of Medicine, Miami, Florida.**
- Associate Program Director, 01/01/2012 – Present
**Division of Nephrology, Hypertension and Interventional Nephrology
University of Miami Miller School of Medicine, Miami, Florida.**
- Established Interventional Nephrology Self-Assessment program (IN-SAP) for the American Society of Diagnostic and Interventional Nephrology Society (ASDIN). This is a CME educational activity that is posted on ASDIN website with regular periodic new subject materials to match the progress in the field. This program started in 2013.

32. Community activities:

Voluntary work: Teaching physiology of the transport of electrolytes and water across renal tubules and counter-current mechanism to high school students during their biology class, Coral Reef High School, Miami, FL.