

Dr. Tarun Grover

MBBS, D.N.B.(General Surgery), MNAMS, FNBE (Vascular & Endovascular surgery)

Designation

Director & Incharge Peripheral vascular Lab, Division of Vascular & Endovascular sciences, Medanta -The medicity, Gurgaon- 122001, Haryana, India.

Executive, Vascular Society of India. (2011-2013)

Executive, Venous association of India. (2011-2013)

Indian Councillor for Asian vascular Society.

Indian Councillor for Asian Venous Forum .

Editorial Board ,Annals of Vascular Diseases

Editorial Board ,Indian Journal of Vascular and Endovascular Surgery

E:mail icdlps@yahoo.com, tarun.grover@medanta.org

Mobile : +919910576363

Brief Profile:

After being bestowed the honour of “First fellow in vascular and Endovascular surgery” in 2003 accredited by the **National Board of Examinations, Ministry of Health and Family Welfare, Govt. of India**, Dr Tarun Grover embarked upon his career as a fully trained Vascular & Endovascular surgeon at a busy tertiary referral care centre in the very heart of Delhi city where he practiced for 16 years.

Currently he is the Associate Director and in-charge Peripheral vascular Lab, The Division of Vascular & Endovascular sciences, at one of the premier Health care institute in India- Medanta - The Medicity . His experience as a Vascular & endovascular specialist spans for almost over 20 years now. During his surgical tenure he has performed almost close to 12000 Vascular, 7500 Endovascular and more than 8000 Endovenous Laser ablation procedures.

Besides the surgical experience he brings with him, he is also one of the few experts to perform **Vascular Ultrasound duplex imaging in India and this has added to his responsibility of being “In charge of the Non Invasive vascular lab” at the vascular & endovascular division here, at Medanta-The medicity**. He performs more than 1000 Peripheral scans a year.

He is an expert in performing minimally invasive interventional procedures under image guidance. He has a special interest in performing minimally invasive endovascular procedures in the body. A number of these procedures are an alternative to traditional method of open surgery with quicker and faster recovery time, and at the same time being more comfortable for the patients.

Dr Grover was instrumental as the ***Founding Head in setting up the Diabetic Foot Care Centre at Sir Ganga Ram Hospital ,New Delhi*** , the first India-wide independent clinical department dedicated to caring for patients with Diabetic Wounds .

He has enormous training and teaching experience in the past two decades. A few of his trainings would include the awarded vascular fellow ship at **St. Mary's London,UK** (Intervascular), Vascular Fellowship at Regional Vascular Centre, **Porz, Cologne, Germany**, The Ethicon, Cordis Endovascular Fellowship **Adelaide,(Australia)2006** etc . He has also executed many state of the art teaching curriculum such as the Haryana Medical Council accredited Duplex Ultrasound course with CME points for Postgraduates & fellow vascular colleagues, Endovascular Teaching Skills at the Ethicon Institute Cordis J & J, National live workshops session on Endovenous laser

ablation and radio frequency ablation, Endovascular Live hybrid OR workshop, Annual VSI duplex course etc.

Besides the aforementioned accolades, he has been a key opinion leader on many national & international deep veins thrombosis form and also an invited faculty for enumerable Indian & Global Vascular & endovascular conferences such as the LINC Asia Pacific Endovascular Forum, European society of vascular surgery, Society of Vascular Surgeons annual congress, World Federation of Vascular Societies, Vascular society of India, Venous association of India, **ASICON** ,Aortic Asia, Asia pacific Vascular Symposium etc. He was also appointed as the ***Indian Councillor for Asian Vascular Society in 2012***, which he continues today as well. He had also served as the ***Executive, Vascular Society of India. (2011-2013)*** and ***Executive, Venous association of India. (2011-2013)***

He has been an active contributor for many indexed published vascular & Endovascular journals and has been engaged in many global trials focusing on endovascular devices, anti thrombotic therapy and management of critical limb ischemia with stem cell therapy.

He is on the *Editorial Board* , *Annals of Vascular Diseases* for last 6 years . He is also been Official Reviewer for “*Indian Heart Journal* “ & “*Indian journals vascular and endovascular surgery* “.

At present he is serving as the *Vice President of Vascular Access society of India* . He is the course Director for *DART (Dialysis Access Revascularisation Training) and MCVIC (Medanta Comprehensive Vascular Intervention Course)*, both these are teaching programs focused on training of DNB residents .

Endovascular abdominal aortic aneurysm repair, Carotid angioplasty and Hybrid technique for iliac Chronic thrombotic Occlusion recanalisation are his keen areas of interest. Dr Grover drive is to provide effective treatment for diabetic foot problems to prevent limb amputations and to treat aortic aneurysms early. Dr Grover is also regional proctor and case demonstrator and travels extensively in the Asia-Pacific region to teach and proctor complex aortic stenting, peripheral vascular interventions and endovenous varicose vein surgery.

Educational Qualifications

QUALIFICATIONS	YEAR	INSTITUTION	BOARD UNIVERSITY	ATTEMPT
MBBS	1994	G.R. Medical College Gwalior	Jiwaji University	One
D.N.B. General Surgery	1998	Sir Ganga Ram Hospital Old Rajinder Nagar New Delhi-110060	National Board of Examinations	One
MNAMS	2000	Sir Ganga Ram Hospital Old Rajinder Nagar New Delhi-110060	National Academy of Medical Sciences	One
FNBE Vascular & Endovascular Surgery	2003	Sir Ganga Ram Hospital Old Rajinder Nagar New Delhi -110060	National Board of Examinations	One

Fellowship 2015. Vascular society of India

4. Present Designation

Director , Incharge Peripheral Vascular Lab
Division of Vascular & Endovascular Surgery
Medanta -The Medicity

5. Designation held in the past

POST HELD	DURATION	INSTITUTION
Rotary Housemanship Hospitals (House Officer)	25.04.94- 24.04.95	J.A. Group of Gwalior
Junior Resident (General Surgery) Hospital (Senior House Officer)	26.07.95- 08.12.98	Sir Ganga Ram New Delhi
Senior Registrar Hospital Thoracic and Vascular Surgery	08.12.98 - 5.5.01	Sir Ganga Ram New Delhi

Fellow (NBE) Vascular Surgery Hospital	5.5.2001- 31.7.2003	Sir Ganga Ram New Delhi
Senior Registrar	1.8.2003- 31.1.2004.	St. Marry hospital , London
Hon. Consultant Hospital Vascular & Endovascular Surgery Incharge Peripheral Vascular Lab	1.02.2004- 30-3-2010	Sir Ganga Ram New Delhi
Senior Consultant Medicity Division of Peripheral Vascular & Endovascular Services	05-04-2010 - Oct-2015	Medanta- The Gurgaon
Associate Director Medicity Division of Peripheral Vascular & Endovascular Services	Oct-2015 - till date	Medanta- The Gurgaon

MEMBERSHIPS

Member of National Academy of Medical Sciences (MNAMS)

Fellow of Academy of General Education (FAGE)

Life member of Vascular Society of India.

Member of Endovascular Intervention Society of India

Member of European Society for Vascular Surgery

Life Member Delhi Medical Association.

Member of International Society of Vascular Surgery .

Life member of Vascular access society of India.

POST HELD:

Vice President Vascular Access Society of India (VASI)

Executive, Vascular society of India (2011-2013)

Executive, Venous Association of India (2011-2013)

Indian councilor for Asian vascular society since 2012 till Date

Editorial Board, Annals of Vascular Disease

Editorial Board, Indian Journal of Vascular Surgery

Official Reviewer for “Indian Heart Journal “ & “ Indian journals vascular And Endovascular surgery .

6. Number of years of professional services rendered in india

From 1995- 2018 (23 years).

7. Publications

National

PUBLISHED ARTICLES

1. Upper Limb Ischaemia, , Grover T, Indian Journal of Surgery, Dec 2001
2. Carotid Endarterectomy for Stroke Prevention, , Grover T, Indian Journal of Surgery, February 2002
3. Parakh R, Grover T, Kapadia SR. Acute limb ischemia. *Orthopedics Update*. Feb 2005; 6(2): 14-18.
4. Kapadia SR, Parakh R, Grover T, Yadav A. Carotid Stenting for post-irradiation carotid stenosis: *Bombay Hospital Journal* Jan 2005;47(1): 59-60.
5. Kapadia SR, Parakh R, Grover T, Yadav A. Catheter fracture and intracardiac migration: An unusual complication of implantable venous access device. Case Report. *Indian Journal of Cancer*. Accepted for July 2005 issue.

6. Kapadia SR, Parakh R, Agarwal S, Grover T, Sen I, Yadav A. Pulmonary Embolism: A Frequent Occurrence in Indian Patients with Symptomatic Lower Limb Venous Thrombosis. Original Article. *Asian Journal of Surgery*.
7. Kapadia SR, Parakh R, Agarwal S, Grover T. Side to side aorto mesenteric anastomosis for management of abdominal angina. Case Report. *Indian Journal of Gastroenterology*.
8. Sigmoid infarction: A dreaded complication of Aortic Aneurysm Repair. Journal of the Indian Medical Association. T Grover et al
9. Management of Venous Thrombo-embolism, VTE Guidelines, Journal of Association of Physicians of India, Volume 55, January 2007, page 49-70. T Grover et al
10. Kapadia SR, Parakh R, Grover T. Macroembolisation during carotid angioplasty and stenting. Neuroimage. *Neurology India*.
11. Kapadia SR, Grover T, Parakh R, Chawla D. Iatrogenic Arteriovenous Fistula- Radiological Quiz. *Indian Journal of Radiology and Imaging*.
12. Kapadia SR, Parakh R, Grover T. Temporary Percutaneous balloon occlusion: An adjunct to surgical management of large superficial femoral artery pseudoaneurysms. Letter to Editor. *Indian Journal of Surgery*.
13. Parakh R, Kapadia SR, Grover T, Agarwal S, Bukhari S. Pseudoaneurysms: A tertiary vascular center's experience. Original Article. *Indian Journal of Medical Sciences*.
14. Parakh R, Kapadia SR, Agarwal S, Grover T, Yadav A, Bukhari S. Prosthetic Infrainguinal Arterial Bypasses: Mid term results of distal interposition vein cuff. Original Article. *Journal of Postgraduate Medicine*.
15. Kapadia SR, Parakh R, Grover T, Agarwal S, Yadav A. Endovascular covered stent for management of arterial pseudoaneurysms following central venous access: Case Reports and Review of literature. Journal of Cardio thoracic and Vascular Anaesthesia.
16. Secondary Aortoenteric Fistula (AEF) - review of a case & literature. *Indian Journal of Vascular and Endovascular Surgery*.

International

17. Kapadia SR, Parakh R, Grover T, Joshi S. Cervical Asymmetry: Medical Images. *The New Zealand Medical Journal* July 2005;118: 1218.
18. Parakh R, Kapadia SR, Grover T, Agarwal S, Yadav A, Sen I, Pankaj P. Total thrombus load estimation in symptomatic patients with venous thromboembolism. Submitted to *Clinical and Applied Thrombosis Hemostasis*.
19. Kapadia SR, Parakh R, Agarwal S, Grover T, Sen I, Yadav A. Pulmonary Embolism: A Frequent Occurrence in Indian Patients with Symptomatic Lower Limb Venous Thrombosis. Original Article. *Asian Journal of Surgery*.
20. Kapadia SR, Parakh R, Grover T, Agarwal S, Yadav A. Giant Iliac artery aneurysm. An unusual cause of abdominal pain. *The New Zealand Medical Journal*.
21. Kapadia SR, Parakh R., Agarwal S., Grover T, Yadav A. Occult Carotid Artery stenosis in Indian patients with peripheral vascular disease. Original Article. *Singapore Medical Journal*.
22. Bukhari S, Kapadia SR, Grover T, Parakh R. Posttraumatic ulnar artery aneurysm: Hypothenar Hammer Syndrome. Case Report. *Journal of College of Physicians and Surgeons, Pakistan*.
23. Tarun Grover, et al. Endovascular Revascularization for limb salvage in high risk diabetics: testimony from an Indian Vascular and Diabetic Foot Centre. *European Journal of Vascular and Endovascular Surgery*.
24. Vascular Access in rare care of 'isolated-persistent left superior 'vena cava'.'
(Tarun Grover, et al, *The Journal of Vascular Access*. 2018;16(1)112972981774812.
25. A novel technique; Indocyanine green angiography to prognosticate healing of foot ulcer in critical limb ischemia.
(Tarun grover, et al, *Annals of Vascular Surgery*. 2018 (<https://doi.org/10.1016/.avsg.2018.02.021>))

BOOK CHAPTERS

1. Raynaud's Syndrome. Handbook of Vascular Surgery, Vascular Society of India, Nov. 2004.
2. Thoracic Outlet Syndrome. Annual Vascular Updates, R & R (Army Hospital), Sep. 2004.
3. Acute limb Ischemia. Handbook of Vascular Surgery, VSICON 2001, Pune.
4. "Sclerotherapy for varicose vein facts and myths" in Handbook "Venous disorder current concept".SPRINGER
5. Thoracic Outlet Syndrome, Vascular Diseases Simplified , JAYPEE Publication .
6. Co-editor for book -Approach to Endovascular Interventions ,EVL 2018

RESEARCH WORK

1. Dissertation Submitted for Diplomate National Board Examination in General Surgery- Aug. 98. Worked in Laparoscopic Co-Relation of Small Bowel Strictures with Radiological and Histopathological Findings.
T. Grover, Guide: V. Arora, Co-Guides: S.K. Sama, O.P. Bhardwaj
2. Daflon Relief Study " Chronic Venous Insufficiency" Role of Flavonoids in Prevention and Treatment of Chronic Venous Insufficiency. A Multicentre Randomized Study Based at Sir Ganga Ram Hospital, New Delhi.
3. ABACUS - DVT Registry: To Study the Prevalence of Deep Vein Thrombosis in North India.
4. Deep Vein Thrombosis Free Hospital Project. Department of Research and Academics. Sir Ganga Ram Hospital, New Delhi.

List of Trials/Registry Participated

Overseeing the activities related to Research Projects in Vascular Department. Ensuring protocol compliance and handling study sample management. Accountable for subject screening and recruitment. Assuring CRF filling & query resolution. Executing AE and SAE reporting along with data management. Coordinating with other sites under Xcelerx Communications and VETERN Network. Imparting training to the coordinators on protocols at various sites.

- **Medical Monitor, National Lead Investigator Team for Edoxaban:**
DU176b-D-U305 (HOKUSAI-VTE Program)
- **REMEDY 1160.47:** A phase III, randomized, multicenter, double-blind, parallel-group, active controlled study to evaluate the efficacy and safety of oral dabigatran etexilate (150 mg bid) compared to warfarin (INR 2.0-3.0) for the secondary prevention of venous thromboembolism.
- **RECOVER 1160.53:** A phase III, randomized, double blind, parallel-group study of the efficacy and safety of oral dabigatran etexilate (150 mg bid) compared to warfarin (INR 2.0-3.0) for 6 month treatment of acute symptomatic venous thromboembolism, following initial treatment (5-10 days) with a parenteral anticoagulant approved for this indication secondary prevention of venous thromboembolism.

- **RECOVER II 1160.46:** A phase III randomized, double blind, parallel-group study of the efficacy and safety of oral dabigatran etexilate(150 mg bid) compared to warfarin(INR 2.0-3.0) for 6 months treatment of acute symptomatic venous thromboembolism, following initial treatment for at least 5 days with a parenteral anticoagulant approved for this indication.
- **STEMPEUTICS MANIPAL ACCUNOVA SRPL/CLI/07-08/001:** A randomized double blind multicentric, placebo controlled single dose, phase-I/II study assessing the safety and efficacy of intramuscular Ex vivo cultured adult allogenic mesenchymal stem cells in patients with CLI.
- **DBT CLI:** Safety & efficacy of auto-logous stem cells in prevention of amputation in patients with chronic CLI
- **ASPIRE (CTC 0005):** Aspirin To Prevent Recurrent VTE
- **LIFENOX (ENOXA_C_01249) :** International, multicenter, randomized, double blind study to compare the overall mortality in acutely ill medical patients treated with enoxaparin versus Placebo in addition to Graduated elastic stockings
- **PPD (185056 and 185057):** (A safety & efficacy trial evaluating the use of Apixaban for the extended treatment of DVT & PE.
- **DFU (CLINIGENE)) (HO-09-01):** Safety & efficacy of HO/03/03 10 µg in the treatment of Plantar Neuropathic diabetic foot ulcers

- **EINSTEIN MAIN (11702):** Oral direct factor Xa inhibitor rivaroxaban in patients with acute symptomatic DVT or PE.
- **EINSTEIN EXTN (11899):** Oral direct factor Xa inhibitor rivaroxaban in patients with acute symptomatic DVT or PE.
- **“EU-CORE” European CUBICIN CCBC13412403 :**Outcome registry and experience for the treatment of serious gram positive infections”

Investigator Meetings attended and participated

- Daiichi-Sankyo ”HOKUSAI” Protocol DU176b-D-U305 Investigator Meeting, scheduled from 07th March 2010 through 9th March 2010 in Mumbai, India.
- Daiichi-Sankyo”HOKUSAI” Protocol DU176b-D-U305 Investigator Meeting, scheduled from 20th January 2010 - 23rd January 2010 in Sydney, Australia
- RECOVER 1160.53: A phase III, randomized, double blind, parallel-group study of the efficacy and safety of oral dabigatran etexilate (150 mg bid) compared to warfarin (INR 2.0-3.0) for 6 month treatment of acute symptomatic venous thromboembolism, following initial treatment (5-10 days) with a parenteral anticoagulant approved for this indication secondary prevention of venous thromboembolism. IM at Beijing, China March 2009.

- PPD (185056 and 185057): (A safety & efficacy trial evaluating the use of Apixaban for the extended treatment of DVT & PE. IM at Kuala Lumpur, Feb 2009.
- LIFENOX (ENOXAC_C_01249): International, multicenter, randomized, double blind study to compare the overall mortality in acutely ill medical patients treated with enoxaparin versus Placebo in addition to Graduated elastic stockings. IM at Mumbai 3rd Jan 2010
- DFU (CLINIGENE) (HO-09-01): Safety & efficacy of HO/03/03 10 µg in the treatment of Plantar Neuropathic diabetic foot ulcers IM at Israel 2nd-5th August 2009
- Einstein (Main) (11702). Attended investigator meeting in China on 13th March 2008
- FOX HOLLOW intra luminal atherectomy device FHT-P-06-003; Plaque removal verses open bypass surgery in critical limb ischemia: Investigator's meeting attended at Bangalore 26th-28th Sept 2007.
- Attended the ICH -'Good Clinical Practice'' training at various Investigator's meeting during the 10 years research experience in many global trails

8.Academic participation (in the past 10 years)

Conferences

Have been invited faculty for the following conferences for last 10 years , actively involved with them for organising workshops , performing Live Cases and Conducting Hands On workshops for vascular Suturing along with CME for postgraduates .

1. **VSICON** (Annual conference of vascular society of india).
2. **VIACON** (Annual conference of venous association of india).
3. **Asia Pacific vascular intervention conference .(APIC)**
4. **ASVS** annual conference .(Asian Society of Vascular Surgery)

5. **CIDAAP** , Complication in Dialysis Access Asia Pacific

6. **EVL** , Endovascular Live

1. Attended and poster presentation made at The 5th International Symposium on the Diabetic Foot, Noordwijkerhout, the Netherlands 2008
2. Attended and participated advanced vascular course and workshop Crossroads Institute for Cardiac and Vascular Education, Brussels, Belgium (November 2007 and June 2008)
3. First Indian vascular surgeon to present a paper at the annual congress of European Society of Vascular Surgeons at Nice in 2008
4. First Indian to present a paper under the aegis of the World Federation of Vascular Societies in Oslo in 2009
5. Daiichi-Sankyo”HOKUSAI” Protocol DU176b-D-U305 International Investigator’s meeting forum, scheduled from 20th January 2010 - 23rd January 2010 in Sydney, Australia
6. Invited member of faculty for the Society of Vascular Surgeons annual congress in Boston in 2010.
7. Workshop attended at Sriraj Hospital on Aortic Abdominal Aneurysm in Bangkok from 15 - 16th March 2010.
8. Medanta Comprehensive Vascular Interventions course (MCVIC) - 2013, 2014, 2015 & 2016.
9. National Web Cast on VTE Prevention 22nd March -2015.
10. CME on Swollen leg syndrome at Crown Plaza Hotel, Gurgaon - 08/08/2015.
11. Talk on role of atherectomy devices in peripheral vascular lesions at Taj Palace Hotel, Delhi- 22/08/2015.
12. CME API Kota Rajasthan - 29/08/2015.
13. Nation webcast to over 60 centre across India on VTE prevention and Management 10/09/2015.
14. Guest Lecture on VTE Prevention and treatment, Varanasi - 4/10/2015.
15. Ghaziabad Surgical Forum, Monthly meeting, Hotel Apple Tree (Clarke Inn), Ghaziabad - 17th Sept-2015.

16. Difficult case presentation at Aorta India Meeting 19th and 20th Sept 2015 at Hotel Eros New Delhi.
17. Evolution of Carotid Surgery in India @ Annual Conference of VSI, Pune 29th Oct-2015.
18. Ingredients for setting up a successful vascular practice, Annual Conference VIS, Pune 30th Oct-2015.
19. Ajmer Medical College and Physicians Forum, Prevention of Amputation and Vascular Health and its effect on cardiovascular disease 5th Nov 2015.
20. India Live Meeting- National faculty (Meet the expert session) Feb 2016,
21. Feb 2016, - NIC Hyderabad- 2016 Expert talk in SUPERA Mimetic Stent (Indian Experience)
22. March 8-10 ,2016- Invited faculty Link Asia Pacific, Hong Kong
23. 24 March 2016 - Agra Surgical Society - Cardiac and vascular disease intervention in diabetic patients
24. April 2016, New Delhi, India - APVIC 2016-Faculty - Duplex training course.
25. April 2016, New Delhi, India - APVIC 2016-participated in Iron Man, Cases.
26. May 2016, India Habitat Center - Symposium on venous thrombo embolism in Oncology patients.
27. July 2016, Jaipur- Rajasthan Chapter (ASI) Diabetic foot Symposium
28. Aug. 2016, Convenor of the "VI duplex ultrasound vascular course accredited by the Haryana Medical council". (MCVIC 2016)
29. Oct. 2016, ASVS Grand Hyatt Singapore. (Conducted Duplex training for PG student-Jurong Medical Center)
30. Dec. 2016-1st Annual interventional Conference on Controversies in Dialysis Access Asia Pacific (CiDAAP)
31. Newer Anticoagulants an overview, VAICON 2016, Jaipur, 12th Feb 2016.
32. ICC Meeting, TAJ PALACE, 30th June-2016

33. AVATAR 2016 IPVA in Hotel Lalit, 23th July 2016.
34. Medanta Comprehensive Vascular Interventions Course (MCVIC), Medanta Gurgaon 2016. 5th Aug-2016.
35. Controversies in Dialysis Access Asia Pacific, CiDAAP 2016, 12/09/2016.
36. Newer Anticoagulants Shangri-La's Eros Hotel, New Delhi, 02/10/2016.
37. State of Art Management of Diabetic Foot, 22/10/2016.
38. CIDA, US International Webcast in Medanta The Medicity Gurgaon 2016, 24th Nov-2016
39. CME in Hisar IMA on Diabetic Foot, 12/17/2016
40. Dialysis Access Revascularization Training in Medanta, Gurgaon - 5/1/2017.
41. VAICON 2017, 03/03/2017.
42. Endovascular Live (EVL-2017), Feb, 2017
43. CME in Country Hotel, Diabetic Foot, Gurgaon - 19/5/2017.
44. CME VTE Today in Hotel The Leela Ambience, New Delhi - 21/5/2017.
45. CME NOAC's in VTE in India Habitat Center, New Delhi - 23/5/2017.
46. EZE Smposia with Atorvastatin & Rivaroxaban, NOAC's in DVT - 13th Sept 2017, Hoteal Shangrila.
47. Interlinc 2017 Interactive Learning in Cardiology, 23rd Sept 2017 Holiday Inn, New Delhi, Advances in Endovascular Interventions Chairperson and Tibial access for Femoropopliteal Interventions - Speaker.
48. March 1st to 4th 2017 (Wednesday - Saturday). 8th 'INDIA LIVE', Conducted the workshop on Proglide at the Fellows course
49. Friday, June 16 - 18, 2017. New Delhi, India - APVIC 2016- Faculty - Duplex training course.

50. Friday, June 16 - 18, 2017. New Delhi, India - APVIC 2016- participated in Iron Man, Cases.
51. Attended 14-15th July, CTO Procedure Skills Expert Course Kasukabe Chuo Hospital (Saitama), JAPAN
52. Conducted MCVIC , AUG 2017 , 7Th Medanta Comprehensive Vascular Course .
53. THE 24TH ANNUAL CONFERENCE OF THE VASCULAR SOCIETY OF INDIA. 14th - 17th September, Kochi, Participated as Faculty , Performed Live case and Made Presentations .
54. 24, September 2017 - Agra Orthopaedics Association - DVT , Prophylaxis and Newer Modalities of Treatment.
55. 25th-28th October 2017, Shangri-La Hotel Kuala Lumpur. Mentoring the Modern Vascular Surgeon.
56. Invited as Faculty and Indian Councillor for ASVS . Oct 2017
57. Conducted the Duplex workshop for AVF assessment . ASVS 2017
58. Attending the Editorial Meeting for The Annals of vascular disease , ASVS 2017
59. Participated in VMI Advisory Board Meeting held on 11th November 2017 at Novotel, Hyderabad to form the Guidelines for SUPERA ,stent Deployment.
60. 7th Jan 2018, Guest Lecture at Harkers School , California a national top college prep school .
61. Appointed and Participated as Member of Advisory Board ,DVT National Advisory Board Meeting held on 28th Jan, 2018 in Mumbai, ABBOTT ,India
62. 8-10 February 2018 - ENDOVASCULAR LIVE , Participated as Operating Faculty , and part of Scientific committee. (16 Live Case were transmitted from Medanta)
63. 25th February , Health Camp at Village Singhani , Third Year in a Row .

64. Invited Faculty , Performed Live Case , ICS , Agra May 2018

65. Invited Faculty , Sri Lanka Heart association , 18th Academic session
22-24 June 2018, Colombo.

9. Contribution to the Medical Education

- 1. Experience of Teaching and Training Medical Graduates in Surgery**
- 2. CME (VSI, Association of Cardiothoracic Surgeons of India) on Recognition and Management of Common Vascular Problems**
- 3. Experience of teaching and training Nursing Students.**
- 4. Tutor for Duplex Ultrasound course for Postgraduates (Vascular Society of India).**
- 5. Faculty position at Ethicon Institute Cordis J & J, Kirti Nagar, New Delhi.**
- 6. Co-trainer and Faculty for Endovascular Teaching Skills at Ethicon Institute Cordis J & J, Kirti Nagar, New Delhi.**

7. Faculty position at LINC Asia Pacific Endovascular Forum.
8. Key opinion leader and Co-trainer for Surgical Glue Teaching Skills at Baxter Institute, Singapore, & Hong Kong .
9. Accredited thesis guide for Diplomate National Board of Examination.
10. Accredited tutor and examiner for Diplomate National Board of Examination (Diplomate National Board of Vascular Surgery)
11. Accredited tutor for IGNOU.
12. Faculty position for duplex training programme (IFUMB), Indian Federation for Ultrasound and Molecular Biology.

10. Contribution to the DNB Programme

Academically have been involved as thesis guide for our DNB post graduates. I am pleased to inform that the 2nd batch of 2 students have successfully passed their final DNB exam in first attempt second year in a row. Regularly conducting and monitoring the academic schedule of our vascular postgraduates .

- *First Division of vascular and endovascular sciences in the country to initiate the Vascular Surgery DNB program in the shortest span of time with two candidates successfully passing their exam in first attempt second year in a row.*

- *Course Director for Medanta comprehensive vascular interventional course running it's in 8th year now.*
- *Course Director for DART (Dialysis access revascularization training and DTTP (Dialysis technician training program) courses organised quarterly .*
- *DNB Examiner for the Examination for Formative Assessment .*

11.Serving in NBE accredited institution as PG teacher

Honorable Thesis guide for DNB vascular fellows under the Division of vascular and endovascular sciences .

Sir Ganga Ram Hospital (2003-2010)

Medanta The Medicity (2014-Till date)

Thesis Supervised

- **Ambarish Satwik**
Treatment of Varicose Veins by Endovenous Laser Ablation: Assessment of Result by Ultrasound Surveillance.

- **Dr. Hiten M Patel**
The Role of Spy Transcutaneous Angiography in Ischemic foot ulcer.
- **Dr. Shubhabrata Banerjee**
Thesis on Role of Atherectomay in Line salvage in symptomatic infra-inguinal atherosclerotic disease in Indian population.
- **Dr. Shahzad Sarosh Bulsara**
A prospective observational study to assess the Role of Thromboelastography in monitoring patients undergoing Catheter Directed Thrombolysis.
- **Dr. Govind Prasad**
An observational prospective study to determine factors affecting outcome of Brachio-Cephalic Fistula for Hemodialysis access.
- **Dr. Manju Bharath N R**
An observational longitudinal study to evaluate outcomes of Wire Interwoven self Expanding Nitinol Stents in Patients with Femoro-Popliteal Atherosclerotic Disease with Critical Limb Ischemia.
- **Dr. Vinit Ashok Paliwal**
An observational prospective study to evaluate clinical outcomes of Drug Eluting Balloon (DEB) in Arterio-Venous (AV) Fistuloplasty for a Failing AV Fistula for Dialysis.
- **Dr. Ashish Airen**
An observational longitudinal study to evaluate duplex changes in Deep Vein Thrombosis Patients Treated with RIVAROXABAN.
- **Dr. Ashutosh Babaji Aher**
An observational longitudinal study to evaluate outcome of Below knee Angioplasty in Infra-Popliteal Atherosclerotic arterial occlusive disease .

12.National and International Awards in the field of medicine .

1. Merit Scholarship IInd and Final Professional Exam, MBBS.
2. Dr. (Smt) Krishna Sohan Singh Award for Best Surgical Resident, (KBB) Delhi Medical Association.
3. Awarded St. Mary's London,UK (Intervascular), VSI Fellowship-2003
4. Vascular Fellowship at Regional Vascular Centre, Porz, Cologne, Germany- 2005.
5. Awarded Ethicon, Cordis Endovascular Fellowship (Australia) 2006
6. Organizing Secretary VSICON 2006, XIII National Conference of Vascular Society of India.
7. Programme Director duplex training programme (VSI) .

8. First Indian vascular surgeon to present a paper at the annual congress of European Society of Vascular Surgeons at Nice in 2008
9. First Indian to present a paper under the aegis of the World Federation of Vascular Societies in Oslo in 2009
10. Invited member of faculty for the Society of Vascular Surgeons annual congress in Boston in 2010.
11. Course Director & Founder Member of Vascular Access Society of India (VASI) & Controversies in Dialysis Access-Asia Pacific (CiDAAP)
12. Course Director for “MCVIC” (Medanta Comprehensive Vascular Intervention Course).
13. Course Director for “DART” (Dialysis Access Revascularisation Training Programme).
14. Course Director for “DTTP” (Dialysis Technician Training Programme).

13 .Contribution to Medical Teaching / Examination System

Examiner for Exams conducted

- DNB fellowship exit exam for the National Board of Examiner, Ministry of Health & Family Welfare Government of India.
- Thesis supervisor for PhD for Guru Govind Singh Indraprastha University, Delhi, India.
- Initiated Medanta's first duplex ultrasound course accredited to Haryana Medical Council on an annual basis.

- Initiated Medanta's first **DART** (Dialysis Access revascularization training for dialysis technicians) .During the DART lectures covered all aspects of vascular anatomy, physiology, pathophysiology, treatment techniques and follow-up for maintaining A-V Access.Over ten hours of the course curriculum was dedicated to hands-on-training. The participants enhanced their knowledge through lectures, clinical vignettes and real-time invasive procedures on patients with a wide spectrum of venous pathology .
- Initiated 1st Annual interventional Conference on Controversies in Dialysis Access Asia Pacific (CIDAAP 2016)

14. Involvement in the New Innovative methods in the fields of Medical research / Teaching methodology / Examination schemes :

FIRST IN INDIA

- 1) First in India to use VASCULOMIMETIC stent (SUPERA) in femoral arteries.
- 2) First in India to use VASCULOMIMETIC Stent (SUPERA) in arteries other than the femoral arteries - Largest experience in the world.
- 3) First in India to use the PENUMBRA INDIGO SYSTEM for thrombolysis in extensive Deep Vein Thrombosis and Pulmonary Embolism.

- 4) First in India to use ANGIOJET thrombolysis system for blocked AV grafts and stents in patients on hemodialysis.
- 5) One of the first in India to use combined intravascular and percutaneous embolization for complex arterio-venous malformation (Birth Marks) using ONYX, SQUID and other GLUES.
- 6) First in India to initiate acute rescue service for Aortic Aneurysmal Disease, Highest volume centre managing Aortic dissection making Medanta the only centre as a part of IRAD registry in the Asia-Pacific region.
- 7) First centre to perform and conduct (DART, Dialysis access revascularization training) program highlighting Duplex guided fistuloplasties.

15. Details of Outstanding services inside and outside the country

- **Regular Monthly clinics at AGRA focusing on** Varicose vein, DVT, AVF, Peripheral Arterial Diseases, Aortic Disease
- “Hand on suturing class” for surgical post graduates in conjunction with Agra Medical College
- **Continued Medical Education program at Gwalior:** Focusing on Swollen Leg (DVT), OPD counseling for Varicose veins (109 Patients), Wound Care, Peripheral arterial disease and Aortic disease
- **All the events had extensive local press coverage and were well appreciated by all those who attended and learnt about the event.**
- Health Camp at Village Singhani , Third Year in a Row

Outside India

- April 2105 ,Nepal Earthquake , Did voluntary service in Kathmandu in conjunction with Norvic Hospital .