

CURRICULUM VITAE OF DR.C.N.MANJUNATH, DIRECTOR
SRI JAYADEVA INSTITUTE OF CARDIOVASCULAR SCIENCES AND
RESEARCH

Name & Designation : **DR. C. N. MANJUNATH**
Address Professor & HOD of Cardiology, Director, Sri Jayadeva Institute of Cardiovascular Sciences and Research, Jayanagar 9th Block, Bannerghatta Road, Bangalore – 560 069.

Academic Qualification:

<u>Degree</u>	<u>College</u>	<u>University</u>	<u>Year of passing</u>
M.B.B.S	M.M.C	Mysore	1982
M.D. (Gen. Medicine)	B.M.C	Bangalore	1985
D.M. (Cardiology)	K.M.C	Mangalore	1988

DR.C.N.MANJUNATH – A PROFILE

Dr.C.N.Manjunath is a Senior Cardiologist and Director of Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bengaluru, under his leadership the Institute has recorded 300% overall growth and the Bed Strength has been increased from 330 to 1150 beds exclusively for cardiac care, he has introduced and practicing the **“Treatment First Payment Next concept”**. He has very exclusively implemented the concept that **“Every Needy Patient should be given quality treatment irrespective of financial affordability”**.

Under this concept, where in thousands of poor patients with cardiac disease irrespective of financial affordability were treated and free treatment is given in deserving poor not only for the people of Karnataka and other parts of the Country and third world countries. **He has taken affordable cardiac care across the State by opening branches in Mysore / Kalaburagi apart from Bangalore. He has also organized and participated in many camps across the State and under-privileged and tribal patients are treated. He has mobilized more than 25 Crores donations from various charitable organizations and built up a poor patient corpus fund, the interest generated is utilized for needy and poor. Even medicines are given free of cost for deserving patients.**

He has continued and even contributed much more to the society and also has brought many laurels to the Country in the area of interventional cardiology since then. **He has donated Two acres of land for establishing Primary Health Centre in his native village which is functioning.**

Professional Skills & Achievements:

1. Dr. C.N.Manjunath, Director has innovated a new technique of performing Balloon Mitral Valvuloplasty in difficult cases; this is **being called Manjunath's Technique** published in American Journal cathet.Cardiovasc.Diagn 44:23-26 1998 Because of his original research, because of this work, Balloon Mitral Valvuloplasty operation has become cheaper by 30 – 40% which is a boon to poor patients of India and third world countries.
2. Has done **highest number of Balloon Mitral Valvuloplasties with Accura Balloon in India**, published in Journal of interventional cardiology – Vol 11 April 1998
3. **Left atrial thrombus classification is called Manjunath's classification, published in Catheterization and Cardiovascular Interventions. 74:653-661(2009)**
4. **Has distinction of Training American, U.K, China and French Doctors on Balloon Valvuloplasties at Sri Jayadeva Institute of Cardiology, Bangalore.**
5. Principal investigator in India's first Indigenous Recombinant Streptokinase study (Shankinase) in Acute Myocardial Infarction (Heart Attack).
6. International Authority on Mitral Valvuloplasty Balloon/Catheter.
7. Has performed more than 15,000 interventions including Coronary and Non-Coronary cases.
8. Has introduced Novel method of Auto transfusion of blood in dieing patients of Cardiac Tamponade during PTMC
9. **Has given live demonstration on Balloon Mitral Valvuloplasty and Metal Commissurotome in India and abroad.**
10. **Conducted 200 Angioplasties in just 5 days free of cost, which is a world record**
11. **American President Barack Obama has applauded the Institute's work under the Guidance of Dr. C N Manjunath**
12. **Opened Jayadeva Branch at Mysore (110 bed facility) in the year 2010, which is a great success.**
13. **100 beds Jayadeva Institute** opened at Kalaburagi, which catering cardiac treatment to Hyderabad / Karnataka region since May 2016.
14. **All Indian Institute of Medical Sciences – New Delhi visited SJICR to adopt the Jayadeva Model - Hospital Administration, basic amenities / facilities to reach common patients.**
15. **Has successfully implemented high quality cardiac care at an affordable cost across the state**
16. **More than 250 Publications in International and National Journals**
17. **Authored chapters in many Text Books and given many orations.**
18. ***Institute has got NABH Accreditation by Quality Council of India in the month of September 2015 and this is the first Public Institution in the Country to get the NABH Accreditation***
19. **Has donated Two acres of land at Native town for the construction of Primary Health Centre, which is already functioning**
20. Has mobilized Rs. **25 Crore** donations and established a poor patient fund at Sri Jayadeva Institute of Cardiology for benefit of patients undergoing Heart surgeries
21. Has introduced free treatment for **SC/ST poor patients**
22. Under his leadership in last 10 years 40 Lakhs patients are treated, 2 lakhs cardiac intervention and operation are done

Awards Received :

1. **Padma Shree Award – 2007**
2. **Millennium Plaque of Honour by Hon'ble Prime Minister of India at 103rd Indian Science Congress, Mysuru - 2016**
3. **“Man of the Year” by Bangalore Press Club, 2016**
4. **“Life Time Achievement” Award by Indian College of Cardiology, 2016**
5. Sir C V Raman Young Scientist Award 2001
6. Distinguished Service Award – September 2006, by World Congress on Clinical and Preventive Cardiology (WCCPC 2006).
7. Received **“Doctorate”** from Karnataka State Open University – Mysore – 2011
8. Honored **“Doctorate of Science”** from Rajiv Gandhi University of Health Sciences, Bangalore, on 31st March 2012.
9. Honored **“ Doctorate”** Mangala University, Mangalore 2016
10. Distinguished Physician Award by American Association of Cardiologist of Indian Origin March 2003.
11. National Recognition Award in the field of Angioplasty 1997.
12. Karnataka Rajyotsawa Award – 1998.
13. Fellow of Indian College of Cardiology
14. Fellow of Indian Academy of Medical Specialties
15. Life Member of CSI
16. Best Citizen Award BCC – 1994
17. Faculty Member of Asia Pacific Society of Interventional Cardiology
18. Best Scientific paper Award – South Zone CSI – 1995, Pulmonary Venous flow Velocities by TEE before and after PTMC, Bangalore.
19. Best paper Award – IMA Medical Specialities Conference 1996 – Comparative study of PS and Wiktor Coronary, Cochin, Kerala 1990.
20. Best paper award “Closure of PDA using Amplatzer Device at 8th Annual Conference of ICC Bhuvaneshwar, Orissa – 2001.
21. The Great Son of Karnataka – 2008 – All India Conference of Intellectuals – In recognition of his outstanding services, Achievements and contribution.
22. Best Challenging case award – TCT conference 2011 at **Sanfrancisco, USA.**
23. 8th World Congress on Clinical, Preventive Cardiology & Imaging (WCCPCI 2013) Bestowed upon International Award for Excellence in Cardiology – September 2013
24. Fellow of American College of Cardiology – FACC
25. Paul Haris Fellow Award by The Rotary Foundation of Rotary International.
26. **“Sri. Krishna Iyer Award” by Udaya Banu Kalasangha, Bangalore 2016.**

Teaching Experience:

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|---|---|-----------------|
| 1. Experience in Teaching after Post Graduation | - | 30 years |
| 2. Experience in the Medical Profession | - | 35 years |
| 3. Examiner in DM Cardiology | - | 12 Universities |

Procedures under the Leadership of Dr.C.N.Manjunath, during the year 2016:

- Four Lakhs Four thousand Nine hundred ninety two **Out Patients** were treated **(404992)**
- **32000** Cathlab procedures were performed **(Highest in the Country)**
- **16821** Angiograms
- **1100** Mitral Valvuloplasties **(Highest in the World)**
- **8085** Angioplasties **(One of the Highest volume in the Country)**
- **2750** Bypass & Valve Replacements Surgeries
- **211378** Echo-Cardiograms **(Highest in the World)**

- **39100** In-Patients were treated, Out of which 20,000 were treated at subsidized cost

Under his leadership, Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bangalore has been accorded NABH Accreditation (National Accreditation Board for Hospitals and Health Care Providers). This is the only Public Heart Institution in the Country to get this distinction.

Dr. C.N.Manjunath, Director of Sri Jayadeva Institute of Cardiovascular Sciences and Research which is a superspeciality Institution with 600 bed strength, offering 24 hours ICCU management, Interventions in Cardiology and Cardiothoracic Surgery. It is one of the largest Single Heart Care Centre in South East Asian Region & this center performs annually about 26,000 Cardiac Cathlab procedures and 3000 Open Heart Surgeries. **Institute is also conducting India's largest Post Graduate superspeciality course in D.M. Cardiology with 21 seats / M.Ch Surgery with 12 seats and Cardiac Anaesthesia with 8 Seats. It has the State of art equipments in the form of 7 Cathlabs, 7 Operations Theatres and Non-Invasive laboratories.**

ADMINISTRATIVE AND INNOVATIVE REVOLUTIONARY MEASURES
UNDERTAKEN BY DR.C.N.MANJUNATH AS DIRECTOR

Institute has achieved 300% growth

Ever since Dr.C.N.Manjunath has taken over the charge as Director of Sri Jayadeva Institute of Cardiovascular Sciences and Research, he has brought in the revolution and metamorphosis thereby providing high quality cardiac care at an affordable cost to all sections of the society. The Institute has recorded 300% growth in the last 9-10 years.

Keeping in view of increasing number of patients, the bed strength of the hospital has been increased from 300-600 exclusively for cardiac care which makes Jayadeva Institute a largest single centre cardiac care destination in South East Asia. Daily this Institute conducts 80-100 Angiogram Procedures including Angioplasties, 15 Open Heart Surgeries, 600-700 Echocardiography tests and attends Out patients of 1000+. To accommodate this huge volume without diluting the quality of care, additional Out Patient Blocks are constructed and laboratory services are extended and even we have introduced appointments to Out Patient Services through SMS.

The top priority is given to cleanliness and hygiene at all levels of services and most patients and visitors wonder stuck and they won't believe that this is a Government run hospital. Today we have shown that the Government run autonomous institute can be managed like a Five Star Hospital which most people think it is next to impossible and we have brought in a corporate work culture with very good public relation and guest relation system.

We have introduced Incentive Scheme for all employees based on performance, productivity and punctuality which has resulted in greater motivation and

higher productivity. We have encouraged public private partnership in many areas of services such as CT Angiogram, Nuclear Cardiology and other laboratory services.

We have also introduced Single Window Master Health Check up facility where in all OPD Investigations are done under one roof and reports are given at the end of 2 hours, so that the working class need not spend whole day for evaluation and investigations.

The Institution is running Country's biggest Post Graduate Courses in Cardiology with annual intake of 21 seats in D.M. Cardiology and 12 seats in M.Ch Cardiothoracic Surgery and 8 seats in D.M. Cardiac Anaesthesia. This is the only Institution in the Country where there are 21 Post Doctoral seats in D.M. Cardiology Courses as a result we are producing quality Cardiologists not only for our State and also to the rest of the Country.

To promote Research activities in the Institute, we have introduced Incentive Scheme for Scientific Publications in National and International for the Doctors, as a result we can able to publish 250 research articles in the last 2 years.

We are working on a Novel Slogan **"Every Needy Patient shall be given a quality treatment irrespective of financial affordability"** despite limited grants from the Government. We have collaborated with more than 25 Charitable Organisations, Non-Government Organisations, Philanthropic bodies which are supporting the treatment of many needy patients. We have very effectively implemented **"Treatment First Payment Next"** concept where in patients coming for emergency treatment shall be admitted without any advance amount or verifying any documents and treatment is initiated. **Our Slogan is "Quality, Charity, Subsidy and Humanitarian Approach". We have established "Poor Patient Corpus Fund" of Rs. 25.00 Crores, the interest generated is used for poor and needy patients.**

To reach people in remote areas and various Districts and Taluk Hospitals, we are very active on Telemedicine Net-works and we are connected with 30 Districts and Medical College Hospitals and providing consultancy services and follow up treatment.

We have also simplified Discharge processes where in billing and payments are done in respective floors. **Recently Accountant General of India has audited the Institute's Accounts and have even appreciated that this hospital is a great model for its effective internal finance management and resource mobilization despite 37% deficit in the grants allocation to the Institute by the Government. All Services and maintenance were excellent.**

We have also introduced Maternity Leave for all the Employees working on a Contract basis and also the Yeshasvini Scheme & Health Insurance Scheme is being introduced for their health benefits.

We have also introduced Patient Comfort Monitoring Services and Patient Satisfaction Survey to collect the feedback from both Inpatients and patients after discharge. In this survey, we collect feedback regarding the services such as Doctors visit, food, nursing care so that we are subjecting ourselves for self assessment.

In these days many specialists are leaving the Government hospitals and many are reluctant to join the Government Hospitals but in Jayadeva Institute because of

excellent working atmosphere, Incentive Schemes, Academic opportunities and ease of promotional issues, there is no shortage of specialists and many specialists are in queue to join and serve the Institute and people.

Today this Institute is attracting patients from all over the world including overseas patients from Indonesia, Pakistan, Bangladesh, Malaysia etc. because of quality cardiac care. There are not many Government Institutions attracting overseas patients. Institute is also attracting Specialists from USA, UK, France, Vietnam, Middle East, China etc., The Specialists from those country's are coming to Institute for undergoing training in Interventional Cardiology and to learn various techniques.

To provide cardiac treatment to Labour Class, Institute has opened a State of Art Cardiac Centre at **ESIC, Rajajinagar in the year 2012**. The Institute has started **another branch in Mysore with 110 bed capacity** which is providing cardiac treatment to patients of Mysore, Chamarajanagar, Mercara, Mandya and Hassan State. To reach cardiac patients in remote part of the State, **we have established one more unit at Kalaburagi and is functioning since 10 days. This is the only Public Institution in the Country which is having many branches in different parts of the State.**

Institute has also created a brand not only nationally even at the international levels as a result we are recognized to do Live Transmission of various procedures to other parts of the world.

Some of the Other Achievements made by Dr. C.N. Manjunath:

1. Performed more than **26000 Cardiac Interventions including Coronary and Non-Coronary Cases.**
2. **Done Original Research on Accura Balloon resulting in Balloon Valvuloplasty Operations becoming cheaper by 30-40%** and thereby providing immense relief to poor patients in India and other developing and underdeveloped nations (**Work published in American Journal, Journal of Interventional Cardiology Volume 11 April 1998**). This is a boon to poor patients of Third World Nations.
3. **Left Atrial Thrombus Classification** is called "**Manjunath's Classification**", published in Catheterization and Cardiovascular Interventions, 74:653-661(2009).
4. **Innovated a New Technique** of performing Balloon Mitral Valvuloplasty in difficult cases **called "Manjunath's Technique"** (published in Catheterization Cardiovascular Diagnosis 1998).
5. **American President Mr. Barack Obama**, has **applauded** the Institute concept of high quality **cardiac care at an affordable cost and free** in deserving poor under dynamic leadership of Dr. C.N.Manjunath.
6. **Mobilised Rs. 25 Crores donations** and created a **poor patient fund** at Sri Jayadeva Institute of Cardiovascular Sciences and Research for the benefit of needy patients undergoing various Heart Surgeries. Interest generated is utilized for Needy poor patients.
7. **He is Author and Architect of "Hrudaya Sanjeevini Scheme"** for the poor – **Under this Scheme annually 6500 Below poverty Line Needy** Patients are treated free of cost which includes Open Heart Surgeries, Bypass Surgeries, Angioplasties, Pacemaker Implantations which are done free of cost. This Scheme is a boon to the poor and needy heart patients.

8. **Principal Investigator in India's first** Indigenous Recombinant **Streptokinase Study** (Shankinase) in Acute Myocardial Infarction (Heart Attack).
9. **Performed in India the highest number of Balloon Mitral Valvuloplasty with Acura Balloon besides** he has distinction of **training American, French, UK, China, Vietnam** Cardiologists in the field of Valvuloplasty Procedures at Bangalore and has done India Proud.
10. **Past President and Permanent Invitee of the Indian College of Cardiology.**
11. **Nine Indo-American Workshops on Angioplasty conducted. 1500 patients were treated free. During 2016,150 Angioplasties** for poor patients in just **4 day** in joint collaboration with Medtronics Vascular Division & NRI Heart Foundation, USA. **10 Crores worth Stents given free of cost by the Donors (Total)**
12. He is instrumental in opening Cardiac Centres for Labour Class and another at Mysore which caters to the Nearly One Crore Population in the region.
13. **He has authored Schemes for poor patients belonging to Scheduled Caste/Scheduled Tribe Community**, wherein all heart related procedures are done free of cost to Schedule Caste / Schedule Tribal Community Patients.
14. He has put **Karnataka and India on World Map** in the area of Balloon Mitral Valvuloplasty Procedures.
15. **Has more than 300 Publications in International and National Journals.**

Philanthropic Contributions and Charity:

1. He is the Author and Architect of "Hrudaya Sanjeevini Scheme for the poor". Under this scheme annually 7500 Below Poverty Line needy patients are treated free of cost which includes Open Heart Surgeries, By-Pass Surgeries, Angioplasties, Pacemakers Implantations which are done free of cost. This scheme is a boon to the poor and needy heart patients. This scheme is running successfully for the last seven years.
2. He has authored and implemented projects for poor patients belonging to Scheduled Cast / Scheduled Tribe Community. Open heart Surgeries and Angioplasties are done free of cost for deserving under privileged patients.
3. He has tied with more than 25 Charitable Organizations under which Annually 800 - 1000 open heart Surgeries, Angioplasties are done free of cost for deserving patients including Children.
4. Mobilization of Finances and Implants for Free Treatment of Patients. Stents, Pacemakers, Valves and other Drugs amounting to Rs. 1.00 Crores used for the treatment of 620 poor patients free of cost. Materials worth Rs. 2.00 Crores were provided to poor patients free of cost.
5. As president of Cardiological Society of India, Bangalore Chapter introduced novel scheme for the first time to donate Rs. 5 Lakhs every year towards treatment of poor patients with Heart disease, from the CSI funds.
6. In 1997 an Angiography workshop at Chennai under Asia Pacific Society was held, where in 25 poor patients were given angioplasty and stenting procedures free of cost which otherwise would have costed Rs. 32 Lakhs.
7. Has donated Rs. 15 Lakhs towards poor patients treatment out of 56th CSI Annual conference savings which was held in December 2004 in Bangalore.
8. No Admission fees for Emergency Treatment at SJICR
9. Donated 350 Heart Valves & 100 Pacemakers to poor patients worth Rs. 1.5 crores.
10. **Has Conducted Annually Indo-American Angioplasty Workshop since 2007**, where in **1250 poor patients** underwent **Free Angioplasty with Stent and worth Rs. 7.5 Crores. Jointly sponsored Dr. Subramani, Wisconsin, USA.**

11. **Free Permanent Pacemaker Implantation donated worth Rs. 75 Lakhs, jointly sponsored by Sri Jayadeva Institute of Cardiology & Dr. Subramani, Wisconsin, USA.**
12. Free Angioplasty treatment for **1500** patients,
13. Free Open Heart Surgeries for **2000** patients,
14. **600** artificial Heart Valves donated **75** Free Permanent Pacemaker + 15 ICD,s done with donation from Rotary Bangalore East Pacemaker Bank
15. Concessional treatment facilities to the patients coming under Yeshasvini Co-operative Farmers Health Scheme.
16. **M/s. S.B. Chordia Trust, Chennai has sponsored Rs. 1.5 Crore to treat about 300 poor patients.**
17. **M/s. Ranka Charitable trust donated Rs. 76 Lakhs towards the Surgery / Angioplasty procedures about 195 poor patients.**

Facilities added during his Tenure:

- **Establishment of Two more Branches at Mysuru and Kalaburagi**
- Introduced Single Window Master Health Check Up facility
- Expansion of General OPD (Out Patient Department)
- Expansion of New OPD
- Modernization of Library
- Establishment of Auditorium
- Establishment of Deluxe Ward in 5th Floor and 6th Floor
- Renovation of Special Ward
- Modernization of Kitchen
- Establishing Accommodation for Post Graduates
- Establishing Accommodation for Patient Visitors
- Addition of Seven (7) Cathlabs – This is the only Institute having 7 Cathlabs under one roof.
- Addition of Operation Theatres
- Establishment of Paediatric and Surgical ICCU's
- Establishment of Tissue Valve Bank
- Parking Slot for Faculties in Hospital Premises
- Introduced Maternity Leave for all Employees working on Contract basis
- Introduction of Yeshasvini Scheme and Health Insurance Scheme for their health benefits
- Introduction of Patient Comfort Monitoring Services & Patient Satisfaction Survey to get the feedback

He has brought a revolutionary change in the system and proved that Government Institution can function like any other corporate hospital. All this remarkable and impeccable progress has taken place in the last 9-10 years under the dynamic leadership of Director, Dr.C.N.Manjunath, Sri Jayadeva Institute of Cardiovascular Sciences and Research.

**(DR.C.N.MANJUNATH)
DIRECTOR**