

## Department of Cardiology

### Departmental Research Lab.

- Central Research Laboratory which is fully equipped is available at B.J. Medical College and Gujarat Cancer Research Institute to which this Institute is affiliated and has full access.

### Equipment's: Available

- Adequate number of Computers with printers
- Internet and LAN facility
- We have fully equipped library with sufficient Books and Journals with Electronic resources for Research purpose
- No. of publications from the department during the last three years- **published/accepted: Original articles**

**Total no: 23**

| Sr. | Title of Paper  | Authors  | Citation of Journal  | National/<br>International | Details of Indexing |
|-----|---|--|--|----------------------------|---------------------|
| 1   | Assessing right ventricular dysfunction in ischemic and non-ischemic cardiomyopathy with LVEF (<35%): Insights from 2D echocardiography | Tanmay Agarwal, Sharad Jain, Krutika Patel, Nisarg Desai, Aman Kedia, Sanketkumar Balar  | Journal of the Practice of Cardiovascular Sciences (Accepted Feb.2026)     | National                   | DOAJ                |
| 2   | Clinical Profile, Angiographic Characteristics, and Short-to Mid-Term Outcomes of Patients With In-Stent Restenosis                     | Pankaj Singh <sup>1</sup> , Kunal Parwani <sup>2</sup> , Jayal Shah <sup>3</sup> , Krutika Patel <sup>4</sup> , Akash Karwa <sup>5</sup> , Govind Tiwari <sup>5</sup> , Kishan Hibare <sup>5</sup> , Sagar Vejani <sup>5</sup> | European Journal of Cardiovascular Medicine (EJCM) (Accepted January 2026) | International              | EMBASE              |

|   |  |   |   |               |        |
|---|--|---|---|---------------|--------|
| 3 | Correlation between Cardiac Output Measured by Fick's Principle with Non-Invasive assessment and in-hospital prognostic implication of Venous Saturation.    | Devrath Parmar, Kamal Shrma, Kunal Parwani, Krutika Patel, Maulik Kalyani, Dixit Dhorajiya  | European Journal of Cardiovascular Medicine (EJCM), Volume: 16   Issue 1   Jan   2026. DOI : 10.61336/ejcm/26-01-91   | International | EMBASE |
| 4 | Predictors of mortality by various parameters in Cardiac ICU Patients: A Prospective Study   | Devrath Parmar, Kamal Sharma, Maulik Kalyani, Dixit Dhorajiya, Arjun Lal  | ASEAN Heart Journal (Accepted Nov. 2025) December 2025, 34:3, First online: 15 December 2025, <a href="https://doi.org/10.31762/AHJ2534.0">https://doi.org/10.31762/AHJ2534.0</a> | International | Pubmed |
| 5 | Institutional experience with ductus arteriosus stenting in neonates with duct dependent pulmonary circulation: Procedural outcomes & mid-term follow up     | Bhavik Champaneri1*, Abhay Pota2, Tarun Parmar2, Jigar Surti3, Shilpa Deodhar4, Amit Kungwani5, Suresh Bishnoi6, Amit Mishra7, Trushar Gajjar8, Shyam S. Kothari9 | Indian Heart Journal (Accepted September 2025) 2025 Sep 24:S0019-4832(25)00170-1. doi: 10.1016/j.ihj.2025.09.002  | International | Pubmed |
| 6 | Immediate and Intermediate-Term Outcomes of Right Ventricular Outflow Tract Interventions in Neonates and Infants: A Prospective Single-Center Study         | Bhavik Champaneri, Vicky Garhwal, Abhay Pota, Tarun Parmar, Shilpa Deodhar, Amit Kungwani   | Cureus 17(9): e92516. doi:10.7759/cureus.92516  | International | Pubmed |
| 7 | Equations for Predicting Changes in Hemodynamic Parameters by various Inotropes in patients of Cardiogenic Shock with Acute Coronary Syndrome: EQUINOX study | Riyaz Charaniya, Kamal Sharma, Bhavik Champaneri, Benny Jose Panakkal, Krutika Patel, Sudharshan W.P., Arjun Lal  | Heart India (Accepted September 2025) 10.4103/heartindia.heartindia_62_25, November 14, 2025.   DOI: 10.4103/heartindia.heartindia_62_25  | National      | DOAJ   |
| 8 | Etiological Distribution and Mortality Factor in Pericardial Effusion: Insights from a Large Cohort study  | Kunal Parwani, Pooja Vyas, Kewal Kanabar, Iva Patel, Payal Tripathi, Paritosh Nilesh Kotak, Khushboo Chouhan  | Gobal cardiology science & practice (Accepted 2025) 2025:54 <a href="https://doi.org/10.21542/gcsp.2025.54">https://doi.org/10.21542/gcsp.2025.54</a>                             | International | Pubmed |
| 9 | Correlation between infarct size and hemodynamic variables in ST-Elevation myocardial infarction and   | Kumud Singh, Jayal Shah, Krutika Patel, Pankaj Singh, Akash Karwa, Govind Tiwari,   | Indian Journal of Clinical Cardiology. DOI: 10.1177/2632463625  | International | DOAJ   |

|    |  |  |  |               |        |
|----|--|--|--|---------------|--------|
|    | its prognostic implications  | Kishan Hibare, Sagar Vejani  | 1355013  |               |        |
| 10 | Percutaneous balloon mitral valvuloplasty in children and adolescents with juvenile rheumatic mitral stenosis: single centre experience  | Abhay Pota , Tarun Parmar , Priyanka Agarwal , Bhavik Champaneri , Amit Mishra , Trushar Gajjar ,Jigar Surti , Shilpa Deodhar , Amit Kungwani , Gajendra Dubey | Cureus 17(5): e84707. DOI 10.7759/cureus.84707   | International | Pubmed |
| 11 | Comparative Analysis of Gender-Specific Patterns of Traditional Coronary Artery Disease Risk Factors and QRISK3 Scores in First-Degree Relatives of Coronary Artery Disease Patients | Meena Parmar, Pooja Vyas, Krutika Patel, Atisha Rana, Vijay Kalsariya, Mayuri Zadafiya   | Journal of Research in Health Sciences (doi:10.34172/jrhs.9005 JRHS 2025; 25(3):e00655)  | International | Pubmed |
| 12 | Review Article: Role of Intracoronary Imaging and Physiology in Acute Coronary Syndrome.   | Jayesh Prajapati, Iva patel, Poojan Jayesh Prajapati, Rajvi Thakkar  | Indian Journal of Clinical Cardiology.2025;6(3):248-262. doi:10.1177/26324636251347713   | International | DOAJ   |
| 13 | Short-term Outcomes of Rotational Atherectomy in patients with Severe Left Ventricular Dysfunction: A Retrospective Review from a Tertiary Referral Centre                           | Kewal Kanabar, Pooja Vyas, Krutika Patel, Gourav Behra   | Indian Heart Journal (2025 Apr 2:S0019-4832(25)00063-X. doi: 10.1016/j.ihj.2025.03.017.) | International | Pubmed |
| 14 | Management and long term outcomes of post stenting coronary pseudoaneurysm: A single centre retrospective analysis   | Rujuta Parikh , Riyaz Charaniya , Gaurav Singh , Gourav Behra, Utsav Patel , Krutika Patel , Ashish Garg , Mohit Khare   | Heart India 13(2):p 132-137, May–Aug 2025.   DOI: 10.4103/heartindia.heartindia_12_25    | National      | DOAJ   |
| 15 | Echocardiographic and morphological correlation of winking coronary sign on coronary angiography   | Dr. Kamal Sharma, Dr. Gunjan Shah, Sharad Jain, Iva Patel, Devrat Singh Parmar, Maulik Kalyani, Dixit Dhorajiya, Arjun Lal                                     | Journal of clinical and preventive cardiology, 2025;14:15-9                              | National      | DOAJ   |
| 16 | Prognostic Value of QRS Morphology in Acute Coronary SyndromePatients with Atrioventricular Block  | Amit Kumar Soni, Karthik Natarajan, Dr. Shomu Bohora* and Gajendra Dubey   | Eur J Cardiovasc Med. 2025;15(7):318-323   | International | Embase |

|    |  |   |  |               |   |
|----|--|---|--|---------------|---|
| 17 | Revascularization Strategies in Acute Coronary Syndrome with Concurrent Atrioventricular Block: Clinical and Functional Outcomes   | Amit Kumar Soni, Karthik Natarajan, Dr. Shomu Bohora and Gajendra Dubey   | Eur J Cardiovasc Med. 2025;15(7):312-317   | International | Embase  |
| 18 | Risk Stratification and Prognostication in Delayed PCI: Insights from Grace, TIMI Scores, and Biomarkers   | Jignesh Patel, Karthik Natarajan, Pratik Raval  | Jornal of Neonatal Surgery [Internet]. 2025Mar.22 [cited 2025Apr.12];14(S):569-73.   | International | Scopus  |
| 19 | Echocardiographic recovery after delayed revascularization: evaluating EF and GLS improvements   | Jignesh Patel, Karthik Natarajan, Pratik Raval  | International Journal of Life Sciences, Biotechnology and Pharma Research Vol. 14, No. 3, March 2025                                     | International | EMBASE  |
| 20 | Timing of ravscluarization in NSTEMI: impact on clinical outcomes and functional recovery  | Jignesh Patel, Karthik Natarajan, Pratik Raval  | International Journal of Life Sciences, Biotechnology and Pharma Research Vol. 14, No. 3, March 2025, DOI: 10.69605/ijlbpr_14.3.2025.117 | International | EMBASE  |
| 21 | Elucidating the Clinical outcomes of very young (<30 years) Asian Indians presenting with ST elevation Myocardial Infarction – The ETUDES study                                    | Kamal Sharmaa, Amit Sonib, Rujuta Parikh b, Iva Patelc , Ravi Dabhid, Abhrajyoti Biswase, Tarang Shahe, Nirmal Shahe, Pankaj Singhe, Maulik Kalyanie, Khamir banker | Journal of clinical and preventive cardiology,2025;14:2-8  | National      | DOAJ  |
| 22 | Pattern of coronary artery disease and its correlation with risk factors in patients with established peripheral artery disease: Doppler and angiographic study                    | Ajinkya Borhade, Tarunkumar Madan, Dinesh Joshi, Riyaz Charaniya, Krutika Patel, Anand Dhakne, Himani Upadhyaya, Parth Thakkar                                      | Heart Vessels Transplant ,2025; 9: doi: 10.24969/hvt.2024.552  | International | Scopus  |
| 23 | Meta- analysis: A systematic review and meta-analysis investigating gender differences in in-hospital, short-term and long-term outcomes among patients who underwent primary PCI. | Iva Patel, Pooja Vyas, Anand Shukla, Pratik Shah, Deepanshu Assudani, Khushboo Chauhan  | Minerva cardiology and angiology. 2025 Feb 5. doi: 10.23736/S2724-5683.24.06670-5.   | International | EMBASE, PubMed/M EDLINE, Science Citation Index Expanded (SCIE), Scopus |

## **Department of Cardio Vascular and Thoracic Surgery**

### **Departmental Research Lab.**

- Central Research Laboratory which is fully equipped is available at B.J. Medical College and Gujarat Cancer Research Institute to which this Institute is affiliated and has full access.

### **Equipment's: Available**

- Adequate number of Computers with printers
- Internet and LAN facility
- We have fully equipped library with sufficient Books and Journals with Electronic resources for Research purpose
- No. of publications from the department CVTS- **published/accepted: Original articles**

**Total no: 12**

| Sr. | Title of Paper  | Name of Authors   | Citation of Journal  | Year | National/<br>International | Journal<br>Indexing                       |
|-----|---|---|--|------|----------------------------|---|
| 1   | Original article: Outcome Of Del Nido Versus St. Thomas Cardioplegia Solution In Adult Mitral Valve Replacement Surgery For Rheumatic Mitral Valve Disease  | Akash Shah, Anil Jain, Himani Pandya, Ronak Raval   | Perfusion (Accepted 2026)  | 2026 | International              | Pubmed                                    |
| 2   | Review article: Reintervention After Transcatheter Aortic Valve Replacement   | Vidur Bansal, Ruchit Patel, Pratyaksha Rana, Utkarsh Sanghavi and Chirag Doshi  | Cardiology in Review<br>DOI:10.1097/CRD.0000000000001152   | 2025 | International              | Medline/<br>Pubmed,<br>Embase,<br>Scopus, |
| 3   | Original article: A retrospective comparative analysis of trends of selected echocardiographic parameters in tricuspid valve repair with mitral valve replacement cases involving use of suture annuloplasty vs ring annuloplasty for tricuspid repair: A single-center study | Shobhit Mathur, Archit Patel, Sunil Kumar T, Pratik Shah  | Heart Vessels Transplant 2024; 8: doi: 10.24969/hvt.2025.612   | 2025 | International              | Scopus,<br>DOAJ                           |
| 4   | Early outcomes of Triple Valve Replacement: A single centre experience  | Dr Akash Shah, Dr Utkarsh Sanghavi, Dr Milan Snehkunj, Dr. Jignesh Kothari  | Journal of the Practice of Cardiovascular Sciences (Accepted Nov. 2025)  | 2025 | National                   | DOAJ                                      |
| 5   | Predictors of Early Left Ventricular Dysfunction After Mitral Valve Replacement for Rheumatic Valvular Disease: A Single Center Study.  | Sandip Lukhi , Shobhit Mathur , Chirag Doshi and Himani Pandya  | European Journal of Cardiovascular Medicine (EJCM)<br>Print ISSN : 2042-4884<br>E-ISSN : 2042-4892<br>Volume: 15   Issue 09   Sep   2025 | 2025 | International              | EMBASE                                    |
| 6   | Simultaneous Single Staged Surgical Management Of Coarctation Of Aorta Concomitant With Intracardiac Abnormality By Extra-Anatomic Aortic Bypass Grafting   | Dr. Utkarsh Sanghavi, Dr. Vikas V, Dr. Devvrat Desai, Dr. Jignesh Kothari   | Asian cardiovascular thoracic annals (Accepted 2025)   | 2025 | International              | Pubmed                                    |
| 7   | Incidence, predictors, outcome and impact of frailty on Delirium in patients over 60 years of age following cardiac surgery   | Iva Patel, Kartik Patel, Ashish Madkaikar, Pallav Shah, Himani Pandya, Krutika Patel, Krupa Godhani, Ashish Garg, Praveen K | Brazilian journal of Cardiovascular and thoracic surgery   | 2025 | International              | Pubmed                                    |

|    |  |   |   |      |               |        |
|----|--|---|---|------|---------------|--------|
| 8  | Submitral Left Ventricular Aneurysms: Correction through a Transmitral Approach  | Chirag Doshi , Sumit Modi , Aakash Dinesh Joshi, Mohammed Ibrahim, Mausam Garachh , Opjinder Deepak   | Journal of Cardio-Thoracic Medicine. 2025; 13(1): 1494-1499. Doi : 10.22038/jctm.2024.77005.1441  | 2025 | National      | DOAJ   |
| 9  | Vessels Lateral to the Left Aortic Arch: A Pictorial Review  | Pratyaksha Rana, Vidur Bansal, Saurabh Deshpande, T M Harishkar, Megha M Sheth, Chirag Doshi,   | British Journal of Radiology, tqaf125, <a href="https://doi.org/10.1093/bjr/tqaf125">https://doi.org/10.1093/bjr/tqaf125</a>                              | 2025 | International | Pubmed |
| 10 | Ventricular assist devices in functionally univentricular hearts   | Maruti Haranal · Thakut Gowtham   | Indian Journal of Thoracic and Cardiovascular Surgery <a href="https://doi.org/10.1007/s12055-025-01900-3">https://doi.org/10.1007/s12055-025-01900-3</a> | 2025 | National      | Scopus |
| 11 | A comparative analysis of trends of echocardiographic parameters in double valve replacement cases involving the use of Del Nido's and Saint Thomas' cardioplegia for myocardial protection: A single-center study | Archit Patel, Kartik Patel, Praveen Nayak, Shobhit Mathu  | Heart India 2025;XX:XX-XX.  | 2025 | National      | DOAJ   |
| 12 | Isolated Complete Atrioventricular Canal Defect Repair In Patients With Down's Syndrome Presenting Beyond 6 Months – Single Center experience  | Dr. Kartik Patel, Dr. Chandrasekaran Ananthanarayanan, Dr. Trushar Gajjar, Dr. Amit Mishra, Dr. Bhavik Champaneri, Dr. Jigar Surti, Himani Pandya | World Journal for Pediatric and Congenital Heart Surgery (Accepted 2025)  | 2025 | International | Pubmed |

## Department of Cardiac Anesthesia

### **11. Departmental Research Lab.**

- Central Research Laboratory which is fully equipped is available at B.J. Medical College and Gujarat Cancer Research Institute to which this Institute is affiliated and has full access.

**Equipment's:** Available

- Adequate number of Computers with printers
- Internet and LAN facility
- We have fully equipped library with sufficient Books and Journals with Electronic resources for Research purpose
- No. of publications from the department during the last three years- **published/accepted**

**:Original articles**

**Total no: 13**

| <b>No. of publications (Published/Accepted) from Cardiac Anesthesia Department</b> |  |  |   |                               |                 |
|--|--|--|---|-------------------------------|-----------------|
| <b>Original article</b>  |  |  |   |                               |                 |
| <b>Sr. No.</b>   | <b>Title of Project</b>  | <b>Name of Authors</b>   | <b>Journal</b>  | <b>National/International</b> | <b>Indexing</b> |
| 1  | Perioperative Predictors Of Acute Kidney Injury In Offpump Coronary Artery Bypass Grafting Surgery   | Dr.Kaushal Patel, Dr.Ritesh Shah, Dr.Sunil Ninama, Dr.Pravin Patel, Ms.Ravina Modi, Dr Kiran Pisekar | Journal of Cardio-Thoracic Medicine (Accept 2026)           | International                 | DOAJ            |
| 2  | Outcome of Fresh Frozen Plasma versus albumin in priming solution of extracorporeal circuit inneonatal cardiac surgery: A Prospective Comparative Observational study  | Shreya Singh, Mrugesh Prajapati, Kaushal Patel, Gowtham Thakut, Priyanga Murugesan,Ravina Modi       | Journal of Cardio-Thoracic Medicine (Accept 2026)           | International                 | DOAJ            |
| 3  | Diagnostic and Prognostic Value of Lymphocyte-to-HDL Ratioin Predicting Major Adverse Cardiovascular Events: ASystematic Review and Meta-Analysis                      | Bharat G. Makwana, Saeedahmed Y. Vohra, Manisha Bharat Makwana                                       | Journal of Rare Cardiovascular Diseases 2025;5(S2):339–347. | International                 | Scopus          |
| 4  | Perioperative Use of Lidocaine Infusions for Chronic Pain Prevention: ASystematic Review   | Bharat G. Makwana, Saeedahmed Y. Vohra, Manisha Bharat Makwana                                       | European Journal of Cardiovascular Medicine (EJCM)          | International                 | EMBASE          |
| 5  | Role of neutrophil-lymphocyte ratio, platelet-lymphocyte ratio, and red cell distribution width in the prognosis of pediatric patient's undergoing intracardiac repair | Pravin Patel , Rajesh VSP, Himani Pandya M., Jigisha Pujara  | Indian Anesthetist forum (Accepted Dec 2025)                | National                      | DOAJ            |
| 6  | “Comparative Analysis of Pre-operativeTransthoraci   | Srikanth Gujja, Varun Arora, Sravanthi Yelagandula,Hemang  | Acta Medica International                                   | International                 | DOAJ            |

|    |   |   |  |               |        |
|----|---|---|--|---------------|--------|
|    | c and Intraoperative Transesophageal Echocardiography for Grading Aortic Stenosis in Adults Undergoing Elective Aortic Valve Replacement: A Single-Center Experience”           | Gandhi , Jamalpur Sravan Kumar, Shrikant Bhagwanrao Sonune  | (Accepted Oct 2025)  |               |        |
| 7  | Comparison of conventional and modified ultrafiltration on perioperative clinical outcome in neonates undergoing arterial switch operation                                      | Jyoti Masaniya,Jigar Patel,Jamalpur Sravan Kumar,Mrugesh Prajapati,Pratik Shah  | Annals of Pediatric Cardiology (Accepted July 2025)                                  | National      | Pubmed |
| 8  | The effect of Timing of transfer to tertiary care center on early surgical outcome of obstructed total anomalous pulmonary venous connection- A prospective observational study | Guriqbal Singh, Divyakant Parmar, Jigar Surti3, Bhavik Champanari, Tarun Parmar, Trushar Gajjar, Amit Mishra, Maruti Haranal , Himani Pandya          | Annals of Pediatric Cardiology (Accepted July 2025)                                  | National      | Pubmed |
| 9  | A comparative study of Amiodarone vs. Magnesium Sulphate for prophylaxis against arrhythmia in patients with Aortic stenosis operated for aortic valve replacement              | Dr. A.Sri Mallikachunan, , Dr. Sunilkumar N. Ninama, Dr. Amit Taluja, Dr. Abhishek Verma, Dr. Shubhendu Bajpai, Dr. Visharad Trivedi, Saveena Bishnoi | European Journal of Cardiovascular Medicine (EJCM)Volume: 15   Issue 06   Jun   2025 | International | Embase |
| 10 | Efficacy of Transverse Thoracic Plane Block and Improvement in Respiratory Parameter After Cardiac Surgery: A Prospective Randomized Study                                      | Dr Abhishek Verma, Dr Sunil Ninama , Dr. Amit Taluja , Dr Shubendu Bajpai, Dr Visharad Trivedi, Dr Keerti A Chitopekar                                | European Journal of Cardiovascular Medicine  | International | Embase |

|    |   |   |  |               |                  |
|----|---|---|--|---------------|------------------|
| 11 | Comparison Of Vasoactive Inotropic Score And Vasoactive Ventilation Renal Score In Complex Congenital Cardiac Surgeries-A Prospective Single Centre Observational Study.  | Dr. Nirav Parikh1, Dr. Venuthurupalli S.P. Rajesh1, Dr. Ram Kiran KS1, Dr.Deepal Prajapati1 Dr.Jigisha Pujara1, Dr.Jigar Surti1, Dr.A.Srimallikarchuna n1, Himani Pandya2 | Indian The Indian Anaesthetists Forum (Accepted 2025)  | National      | DOAJ             |
| 12 | Impact of remote ischemic preconditioning on tissue perfusion indices chemical biomarker and peripheral near infrared spectroscopy in children undergoing cardiac surgery | Venuthurupalli S P Rajesh, Jigisha Pujara, Nirav Parik, Ram Kiran K S   | journal of clinical pediatric and care (Accepted 2025) | National      | Index copernicus |
| 13 | Role of Perioperative Oral Thyroid Hormone Supplementation in Infants Undergoing Surgery for Congenital Heart Disease   | Dr. Jigar Panchal,Dr Aparna Sirandas, Dr. Divyakant Parmar  | Eur J Cardiovasc Med. 2025;15(5):800-804.              | International | Embase           |