



# ANASTOMOSIS

IMA Quartely Journal



**INDIAN MEDICAL ASSOCIATION  
KANYAKUMARI MEDICAL COLLEGE BRANCH**

# **ANASTOMOSIS: THE IMA QUARTERLY JOURNAL**



**Released by**



## **INDIAN MEDICAL COLLEGE ASSOCIATION**

### **KANYAKUMARI MEDICAL COLLEGE BRANCH**

**Registered under Tamil Nadu Society Registration Act ,1975 - 95/2023**

**DAS Quarters, Additional Building,**

**Kanyakumari Medical College**

**Asaripallam, Nagercoil**

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## **PREFACE**

Indian Medical Association (IMA) Kanyakumari Government Medical College Branch, takes immense pleasure to present this edition of our Chronicle. This publication marks a significant milestone in the journey of IMA – KMC since its inspection, showcasing the collective achievements of our branch and highlighting our commitment to medical education, research, and the unity of our medical fraternity.

This Chronicle serves as a platform to celebrate our accomplishments over the past 9 years. This edition compiled the history of the evaluation of IMA – KMC branch, Executive members, List of Successors, highlights and mile stones of the KMC through its variety of activities to the medical community and society. The articles, research papers, and case studies that cover a wide range of medical specialties, reflecting the expertise and interests of our members are also discussed in this chronicle.

Furthermore, we are thrilled to announce the launch of our new website [website address] the digital platform which will serve as a valuable resource for our members, providing easy access to information about our activities, upcoming events, and important announcements and circulars. It will also facilitate communication and collaboration among our members and medical students, further strengthening our bonds as a united medical community.

The prime focus of our branch is “Upliftment of Medical Students”. We believe in nurturing the next generation medical professionals and providing them with the support and guidance

needed to excel. Research is another cornerstone of our activities. We recognize the importance of research in advancing medical knowledge and improving patient outcomes. This Chronicle showcases the research endeavours of our members, highlighting their contributions to the field of medicine. We encourage all members to actively engage in research and contribute to the growing body of medical knowledge.

We extend our sincere gratitude to the team, the contributors, and all those who have made this Chronicle possible. We hope that this publication will serve as a valuable resource for our members and inspire us all to continue striving for excellence in medical practice, research, and education.

## **EVOLUTION OF THE IMA – KANYAKUMARI MEDICAL COLLEGE BRANCH**

The Indian Medical Association (IMA) is the largest representative body of modern medicine doctors in India, serving as a powerful organisation for both medical professionals and the broader community's health and wellbeing.

The Indian Medical Association (IMA) Tamil Nadu is a voluntary organization that represents the diverse range of modern allopathic medicine and its specialties across the state. Founded in 1940 by a group of visionary doctors, IMA Tamil Nadu has grown to have a presence in every town, fostering a strong network of medical professionals.

*The Indian Medical Association - Kanyakumari Government Medical College branch (IMA - KMC) was established on July 10, 2016, as the fourth IMA branch in the Kanyakumari District by the tireless commitment and remarkable contributions of Dr. S.Muthu Kumar, Dr.A.Muralidharan and Dr.AJS.Pravin with a dual mission to uphold the dignity of the medical profession and enhance the quality of medical services for the people of Kanyakumari district, in collaboration with the Government Medical College, Kanyakumari. Since its inception, IMA – KMC has been actively engaged in mentoring younger members, advocating for doctors' rights, knowledge Sharing and upliftment of medical Education, community service and outreach, governance and decision-making. With a strong membership of 103 lifetime members, IMA - KMC plays a significant role in representing the organization in various forums, such as conferences, seminars, lectures, workshops, training programs participating in state and national governing bodies and in decision-making processes within the organization. With the Selfless devotion and exemplary efforts of the present executive committee the Indian Medical Association - Kanyakumari Government Medical College branch (IMA - KMC) was registered under the Tamil Nadu Societies Registration Act, 1975 with No. SRG/ Kaniyakumari/95/2023.*

**INDIAN MEDICAL ASSOCIATION**  
**INDIAN MEDICAL ASSOCIATION**  
**KANYAKUMARI GOVERNMENT MEDICAL COLLEGE BRANCH**  
**EXECUTIVE COMMITTEE**



**Dr.S.MUTHUKUMAR**  
President



**Dr.G.ARUL VENKADESH**  
Secretary



**Dr.D.C. JERALD BOSE**  
Finance Secretary



**Dr. AJS PRAVIN**  
Member - State Council



**Dr. MURALIDHARAN A**  
Member - State Council



**Dr. RAJASEKAR N**  
Member - Central Council



**Dr ANITHA**  
Vice President



**Dr T SUSITHA**  
Women's Wing  
Chairman



**Dr M K RAKESH**  
Blood Donation &  
Organ Donation



**Dr JAYARAM  
KOSALRAM**  
Scientific Committee

# **INDIAN MEDICAL ASSOCIATION**

## **KANYAKUMARI GOVERNMENT MEDICAL COLLEGE BRANCH**

### **List of Successors of Office Bearers**

#### **PRESIDENT**

<b>Year</b>	<b>Name</b>
<b>2016 - 2017</b>	<b>Dr. Narayanan Srinivasan</b>
<b>2017 - 2020</b>	<b>Dr. AJS. Pravin</b>
<b>2020 - till date</b>	<b>Dr. S. Muthu Kumar</b>

#### **SECRETARY**

<b>Year</b>	<b>Name</b>
<b>2016 - 2017</b>	<b>Dr. Jefferson</b>
<b>2017 - 2019</b>	<b>Dr. A. Muralidharan</b>
<b>2019 - 2020</b>	<b>Dr. Amalan Christhudhas</b>
<b>2020 - 2021</b>	<b>Dr. Geolin Mithun</b>
<b>2021 - till date</b>	<b>Dr. G. Arul Venkadesh</b>

#### **FINANCE SECRETARY**

<b>Year</b>	<b>Name</b>
<b>2016 - 2019</b>	<b>Dr. Amalan Christhudhas</b>
<b>2019 - 2020</b>	<b>Dr. Muthamil Silambu</b>
<b>2020 - 2023</b>	<b>Dr. P. Ram Praveen</b>
<b>2023 - till date</b>	<b>Dr. D.C. Jerald Bose</b>

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27.06.2025

Ref: CMA/2025/99/Admin

Dear Colleagues and Members,

I hope this message finds you in great health and high spirits. As the President of the Commonwealth Medical Association and a proud member of the Indian Medical Association (IMA), I am honored to share a few words with you in this quarterly edition.

The IMA unit functioning within the Kanyakumari Medical College campus is a remarkable example of dedication and commitment to both academic excellence and social welfare. Through our monthly academic meetings and various outreach programs, we are fostering not only knowledge but also leadership skills among our faculty and students. This unit plays an essential role in mentoring the next generation of medical professionals, instilling in them the values of integrity, compassion, and service.

As the largest professional body in the country, IMA is tirelessly working to restore professional competence, social relevance, ethical uprightness, and legal protection for our esteemed faculty and members. It is crucial for us to maintain a strong connection with our state and national headquarters, ensuring that each member feels valued, accomplished, and supported both professionally and personally.

As we celebrate a significant milestone—the centenary of the IMA, which began its journey in 1928—I am excited to share that the IMA headquarters has commenced the construction of an impressive Centenary Building Complex at its existing location. This ambitious project aims to encourage the participation of all 400,000 members of the IMA. I am reaching out to you as a member of the building committee, inviting your contributions of a minimum of ₹1,000 to support this important initiative for our century-old organization.

I also extend warm greetings from the Commonwealth countries, emphasizing the shared commitment we all have to the noble profession of medicine.

Thank you for your continued support and engagement. Together, let us strive to make our IMA unit stronger and more impactful for the benefit of our community and profession.

Warm regards

Prof. Dr. J. A. Jayalal

President, Commonwealth Medical Association UK

Professor of Surgery &amp; HOD, Kanyakumari Government Medical College

National President, IMA (2021)

Website : [www.commonwealthmedicalassociation.org](http://www.commonwealthmedicalassociation.org) | Email : [lapsurgeon2001@yahoo.co.in](mailto:lapsurgeon2001@yahoo.co.in)  
[dr.mugambijoy@gmail.com](mailto:dr.mugambijoy@gmail.com)

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## **Dr. M.Thiraviam Mohan**

*Child Specialist*  
*Reg Number : 52267*

Dear Members of IMA Kanyakumari Medical College Branch,

“It is truly inspiring to see Anastomosis -IMA Quarterly Journal Of kanyakumari Medical college Branch, which continue as a vibrant reflection of our collective medical journey...”

It reflects the intellectual spirit, professional achievements, and compassionate service of our esteemed fraternity.

I am confident that this magazine will serve as a vibrant platform for sharing knowledge, experiences, and innovations across generations of dedicated medical professionals in all specialties.

Let us remain united in purpose, steadfast in service, and ever inspired to uphold the values of ethics, empathy, and excellence that define our noble profession.

Warm regards,

**Dr. M.Thiraviam Mohan**

Past Vice President IMA South Zone 2023

Candidate for the post of Honorary Secretary IMA TNSB (2026-2027)



**PRAVIN**

SKIN, LASER & COSMETIC CENTRE

**Dr. A.J.S. PRAVIN MD DD**

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Chief Consultant

**Dr. AVINASH PRAVIN MD DVL**

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27/2/2025

## Greetings

I Professor Dr.A.J.S.Pravin M.D.,D.D past president of IMA KGMC 2017- 2020 wish the President, Secretary and the core team of IMA, KGMC the very best in all the academic, social and humanitarian activities. This IMA was started in 14<sup>th</sup> July 2016 with the dedicated efforts of Dr.Muthukumar, Dr.Muralidharan, Dr.Narayana Sreenivasan and many others. The purpose of the IMA was to foster the academic activities especially Government medical college and other hospitals. It has fulfilled the long felt need of young aspiring medicos, post graduates and upcoming medical professionals. IMA KGMC started the first medical student using at KGMC in 2019 and has performed many academic CMEs, meetings and agitations especially against NMC NEET, violence against medical professionals and social causes – Jallikattu. I once again wish IMA KGMC the very best in the future endeavors under dynamic leadership of Professor Dr.Muthukumar, Secretary Dr.G.Arul Venkatesh and others.

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## INDIAN MEDICAL ASSOCIATION

### Kanyakumari Medical College Branch

இந்திய மருத்துவ சங்கம்

கன்னியாகுமாரி மருத்துவ கல்லூரி இளை

Registered under Tamilnadu Society Registration Act ,1975 - 95/2023

Association Head Quarter: IMA House, Indraprastha Marg, New Delhi - 110002

**President**  
Dr.S.Muthu Kumar, M.D.,  
70100 05799

**Secretary**  
Dr.G.Arul Venkadesh,M.D.,  
9791765579

**Finance Secretary**  
Dr.D C Jerald Bose,M.D.,  
8903705644

**Dr. S.Muthukumar**  
*President*  
*IMA - KMC Branch*



*"Wherever the art of medicine is loved,  
there is also a love of humanity."*

*- Hippocrates*

These profound words from the father of medicine resonate deeply with our mission at the Indian Medical Association (IMA) - Kanyakumari Medical College (KMC). As we continue to propel the Indian Medical Association (IMA) - Kanyakumari Medical College (KMC) to new heights, I would like to extend my sincerest gratitude to our dedicated Secretaries for their tireless efforts. The IMA Chronicle serves as a vital link between clinical practices and academic activities within our esteemed institution.

KMC has established itself as a premier healthcare organization, boasting a team of highly skilled super specialists and a broad spectrum of state-of-the-art technologies. I am delighted to see our members sharing their expertise and knowledge through this platform.

As President, it is heartening to witness the IMA Chronicle become a reality, thanks to the relentless hard work of our Secretaries, Dr.Arul Venkadesh, Dr.Geolin Mithun, Dr.Ram Praveen and Dr.Jerald Bose and the unwavering support of our cofounders Dr.AJS Pravin and Dr.Muralitharan, and the active participation of our members. Together, we are elevating the IMA to unprecedented levels.

Secretary Office:DAS quarters,Additional building,Kanyakumari Medical College, Asaripallam,Nagercoil.



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### Kanyakumari Medical College Branch

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Finance Secretary  
Dr.D C Jerald Bose,M.D.,  
8903705644

### Dr. G.Arul Venkadesh

Secretary  
IMA – KMC Branch



**"Not all Angels have Wings, some have Stethoscopes."** These words eloquently capture the essence of our medical community's selfless service. I'm delighted to extend my warmest greetings to each of you on the launch of our Chronicle, a milestone that showcases the vibrant spirit of the Indian Medical Association - Kanyakumari Medical College Branch.

The Indian Medical Association (IMA), founded in 1928, is a premier organization of doctors in India, boasting over 300,000 members who strive to promote medical science and maintain the dignity of the medical profession. Our Tamil Nadu State Branch, headquartered in Chennai, caters to the specific needs and concerns of doctors across the state.

As a local chapter, the Kanyakumari Medical College Branch was established on July 10, 2016, and operates under the Tamil Nadu State Branch and IMA. We're dedicated to promoting medical excellence, research, community service, and the welfare of doctors and patients in the Kanyakumari region, fostering a strong network of medical professionals in collaboration with Kanyakumari Medical College.

This Chronicle and our newly launched website are the culmination of a long-held dream by our executive members. I'm delighted to see this vision become a reality. Our Chronicle features outstanding contributions from our members, including innovative research articles, impactful outreach programs, and notable milestones. We're proud to highlight the recognition and accolades received by our esteemed members.

I'm grateful to Dr. Muthukumar, our President, for the opportunity to serve as Secretary. During my tenure, we've taken significant steps to register our branch under the Tamil Nadu Societies Registration Act of 1975. I'd also like to thank our past and present office bearers, friends, colleagues, and each of you for your tireless efforts and support in making our branch a beacon of excellence.

Special thanks go to our editorial team, contributors, and designers who've worked tirelessly to bring out this Chronicle. Once again, I congratulate each of you on this remarkable achievement and look forward to your continued support in our future endeavors.

Secretary Office: DAS quarters, Additional building, Kanyakumari Medical College, Asaripallam, Nagercoil.



## INDIAN MEDICAL ASSOCIATION

### Kanyakumari Medical College Branch

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9791765579

Finance Secretary  
Dr.D C Jerald Bose,M.D.,  
8903705644

**Dr. D.C.Jerald Bose**  
*Finance Secretary*  
*IMA – KMC Branch*



We are pleased to present this edition brought to you by the Indian Medical Association Kanyakumari Government Medical College Branch. As healthcare professionals, staying updated on the latest medical knowledge and advancements is crucial for delivering exceptional patient care. Our Mission: IMA KGMC is committed to promoting the highest standards of medical practice and patient care. Through initiatives like medical camps and awareness programs, we strive to make a positive impact on the healthcare landscape. In this edition, you'll find Insightful articles on cutting-edge medical research and advancements, Expert opinions from renowned healthcare professionals, Updates on the latest medical developments and breakthroughs.

The IMA KGMC is dedicated to supporting the ongoing education and professional development of healthcare professionals. We believe that this publication will be a valuable resource for our members and the broader medical community. We wish the IMA KGMC branch continued success and growth, and we strive to become the best IMA branch in the country. May this publication contribute to the ongoing improvement of healthcare in KGMC and beyond.

I'm deeply grateful to the President, Secretary and Lifetime members for their invaluable support and contributions to the IMA KMC branch. Their dedication has been instrumental in shaping the branch's past successes and future achievements. The collective efforts of these individuals have Fostered a spirit of collaboration and excellence, driven initiatives that benefit the medical community, Enhanced the branch's reputation and impact. Thank you to all who have contributed to the IMA KMC branch's growth and success. Your tireless efforts are truly appreciated.

*D. C. J. Bose*

Secretary Office:DAS quarters,Additional building,Kanyakumari Medical College, Asaripallam,Nagercoil.

## INDIAN MEDICAL ASSOCIATION – KMC BRANCH

### LIST OF MEMBERS

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2	Dr. RAMESH KUMAR T.	9486961681
3	Dr. RAJA MURUGAN R.	7598799977
4	Dr. ANITHA V.	9626087334
5	Dr. SUSITHA T.	8300108700
6	Dr. ROSEBELL J.	7358808173
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11	Dr. CHANDRA SHEKAR M.	9715860836
12	Dr. ARUN KUMAR T.V.	9047613476
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14	Dr. CLEMENT JENIL DHAS C.P.	9488612476
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23	Dr. SINDHU NEELAKANDAN	8940718747
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51	Dr. GEETHUNATH G.K.	9497053978
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# REDUCING THE INCIDENCE OF FNHTR BY USING LEUKOREduced BLOOD AND BLOOD PRODUCTS



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## ABSTRACT

Removal of leucocytes from various blood products has been shown to minimize Febrile nonhemolytic transfusion reactions, HLA alloimmunization, platelet refractoriness in multitransfused patients and prevention of transmission of leukotropic viruses such as EBV and CMV. Rapidly growing size of hemato-oncological patients who require multiple transfusion of blood and blood components during the course of their management pose a great challenge to transfusion services for providing them red cell and platelet antigen matched products in alloimmunized subjects. Hence, removal of leucocytes below a certain threshold level of  $\leq 5 \times 10^6$  in a blood component certainly helps in prevention of alloimmunization and associated risks in those patients. In this modern era, the best Leucoreduction can be achieved with the help of 3<sup>rd</sup> and 4<sup>th</sup> generation leukofilters, both in the laboratory and bed side, and state of the art apheresis devices. The present article briefly reviews the current literature for pros and cons of leucofiltration and its scope of implementation in the cost constrained settings.

## HISTORY

The concept of removal of leukocytes from the blood was introduced by Fleming, as early as 1920. Fleming used a cotton wool plug in a bent glass tube with a constricted limb. Blood was placed above the cotton wool and forced through it with the help of a teat. It was later realized that this model closely resembled the structure of modern depth filters. The work on leucofiltration got a boost subsequent to the accidental observation by Swank in 1961, while working on a blood viscosity model, wherein, on microscopic examination, he found that very high pressure was required to force 2-10 days old acid-citrate-dextrose (ACD) stored blood through a microfilter, as aggregates of platelets and leukocytes clogged the filter passes. Later, in the 1980s, advancement in

technology led to the development of the first generation cellulose acetate filters, with a leukocyte removal efficiency of 98 percent. Although clinically acceptable results were achieved, they had two major limitations. First, they appeared to activate complement C3, with subsequent vasoconstriction and increased capillary permeability. Second, the efficacy of leukocyte removal was strongly dependent on the flow across the filter, so the overall filtration process was slow. The new generation filters with rapid flow and excellent leukocyte removal are discussed later in the text.

## **CASE REPORT**

An 8-year-old female child who was diagnosed as **Pyruvate kinase deficiency** at 2 months of age and her blood group is **B RH** positive. She was in need of transfusion every month after diagnosis and during the course of transfusion, she developed adverse transfusion reactions like Allergic reaction and Febrile non hemolytic transfusion reaction for which the transfusion reaction workup was done and the results were such that there is no agglutination of antigen and antibody, there is no pretransfusion error, there is no delay in transfusion and storage and there is no hemolysis also. So, the further transfusion was planned to transfuse coombs cross matched O Rh negative compatible red cells for which she developed again an episode of allergic and febrile reaction. Since, she is in need of transfusion every month for maintaining normal physiology to ameliorate anaemia, we planned for Leukoreduced red blood cell for further transfusion for which there was no allergic and febrile reaction even after subsequent transfusion. She was transfused with more than 18 leukoreduced blood products with success.

## **DISCUSSION**

Blood transfusion is a fundamental therapy in numerous pathological conditions. Chronic Blood transfusion dependent diseases like Pyruvate kinase Deficiency, Thalassemia, and Sickle cell Anemia are in need of regular transfusion to lead a normal life. Even though, HSCT is the final most appropriate treatment for hemato-oncological patients, Blood transfusion plays

an important role in conservative treatment. Regrettably, many clinical reports describe adverse transfusion's drawbacks due to non leukoreduced red blood cells. So, by using leuckofilter, leukoreduced blood component transfusion plays an important role in reducing transfusion reactions, morbidity and unnecessary hospital stay for longer period during post transfusion.

## **DISEASE BACKGROUND**

Pyruvate kinase deficiency (PKD) is the most common enzyme-related glycolytic defect that results in red cell hemolysis. Red blood cell (RBC) metabolism hinges on glycolysis. Pyruvate kinase (PK) enzyme is a key to this process. PK converts phosphoenolpyruvate to pyruvate. In PKD, cellular energy efficiency and longevity decrease. Young RBCs are most affected in PKD. PKD is a lifelong chronic hemolytic anaemia with a wide spectrum of symptoms and manifestations. Given the significant risk of complications that can arise over a patient's lifetime, monitoring is critical. Currently, supportive care includes transfusions, splenectomy, and chelation therapy. PK activators and gene therapy offer innovative disease-directed approaches which may transform the clinical phenotype of patients in the future. Given the potential future treatment possibilities for PKD, careful thought is needed to determine the optimal management strategies in individual patients<sup>4</sup>

## **CONCLUSION**

The current generation of leukofilters could achieve 4 log reductions in leukocyte content. The availability of leukocyte removal (leukoreduction) techniques for blood components is associated with a considerable improvement in various clinical outcomes which includes a reduction in the frequency and severity of febrile transfusion reactions, reduced cytomegalovirus transfusion-transmission risk, the reduced incidence of alloimmune platelet refractoriness, will prevent HLA alloimmunization as well as reducing the overall risk of both recipient mortality and organ dysfunction. So, transfusing Leuckoreduced Blood component is ideal for patients with Chronic Blood transfusion dependent diseases and for Haemato oncological patient, who are in need of HSCT.

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# LESSONS FROM A TRAGEDY: FATAL SYSTEMIC POISONING FOLLOWING ACCIDENTAL PARAQUAT DERMAL CONTACT

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## INTRODUCTION

Paraquat (1,1'-dimethyl-4,4'-bipyridylium dichloride) is a widely used herbicide recognized for its high toxicity. It is commonly utilized around the globe to manage weed growth in agricultural settings, especially in crops like cotton, soybeans, and corn. While it plays a significant role in farming, paraquat is infamous for its potential to cause fatal poisoning. There have been numerous reports of accidental or intentional ingestion, and because of its deadly effects on the lungs, kidneys, and other essential organs, it is considered one of the most hazardous substances when swallowed or inhaled.

The mechanism of paraquat toxicity mainly involves the buildup of the chemical in the lungs, resulting in severe oxidative damage and inflammation, which can lead to acute respiratory distress syndrome (ARDS) and multi-organ failure. The mortality rate associated with paraquat exposure is notably high, even with low quantity ingestions. Prompt identification, supportive care, and targeted treatments can enhance the outcomes of those who are affected. This case report discusses the clinical features and diagnostic challenges that we encountered in this case of percutaneous paraquat poisoning in a patient who presented with severe respiratory distress and multi-organ dysfunction syndrome.

## CASE REPORT

A 42-year-old male, who works as a foreman for the electricity board, was admitted to the intensive care unit (ICU) due to gradually worsening breathlessness over the past five days. His symptoms had escalated significantly in the last 24 hours before admission, and he reported no history of fever, cough, or sputum production. Additionally, he had an ulcer on his scrotum and left inner thigh that had been present for about ten days. The patient also had a history of chronic alcohol use, with his last drink taken around 15 days before his admission.

While receiving in ICU, the patient was in severe respiratory distress. He was dyspnoeic, tachypnoeic, and exhibited labored breathing. Arterial blood gas (ABG) analysis revealed respiratory alkalosis (pH 7.54) with hypoxic respiratory failure, as evident from low pO<sub>2</sub> of 49 mm Hg, a decreased pCO<sub>2</sub> of 25.9 mm Hg, and a bicarbonate level of 22.1 mmol/L. Chest X-ray revealed bilateral heterogeneous infiltrates, and hence provisionally diagnosed as a case of Severe Acute Respiratory Distress Syndrome (ARDS).



Figure 1:

Chest XRay taken at the time of admission



Figure 2:

Chest XRay taken on Day 3 of hospitalization

Despite initial treatment with nasal oxygen therapy with NRBM, the patient did not improve, and he could not tolerate non-invasive ventilation (NIV). Consequently, endotracheal intubation was done and mechanical ventilation was started. Routine lab investigations revealed Leucocytosis of 30,700/cu.mm, with Neutrophilic predominance (92% neutrophils, 4% lymphocytes, and 4% eosinophils), indicating a potential infection. Furthermore, renal function was impaired, with elevated urea levels (82 mg/dL) and creatinine (1.8 mg/dL), along

with hyponatremia, as evidenced by a serum sodium of 119 mEq/L. However, liver function tests were normal. The patient's C-reactive protein (CRP) was elevated at 22.4 mg/L, and procalcitonin levels were also high, suggesting Sepsis with Multi-Organ Dysfunction Syndrome (MODS).

## **MANAGEMENT AND DIAGNOSIS**

Based on the initial presentation, the patient was started on broad-spectrum intravenous antibiotics (MEROPENEM and DOXYCYCLINE), along with IV Steroids and other supportive treatments, including intravenous fluids and electrolyte corrections. CT scan of the chest showed consolidation with air bronchograms in the bilateral basal lung fields, diffuse ground-glass opacities, thickening of the interlobular septa, reticulations, and bronchiectatic changes. These findings were indicative of interstitial lung disease, along with bilateral minimal pleural effusion. CT scan of the abdomen was taken to exclude any other underlying issues and revealed mild ascites and a left renal cortical cyst, but no other significant abnormalities were found in the abdomen.



Figure 3: CT Film (Lung Window) of the patient

As there was no clinical improvement with initial treatment, the patient was started on IV Antifungal therapy with VORICONAZOLE and Antiviral therapy with OSELTAMIVIR. Sputum collected from endotracheal aspirates was tested for acid-fast bacilli (AFB) and returned negative for tuberculosis, while the CBNAAT (Cartridge-Based Nucleic Acid Amplification Test) also showed no

positive results. Additionally, SARS-CoV-2 PCR, antigen, and IgM/IgG tests were all negative, effectively ruling out COVID-19 as a cause of the patient's respiratory symptoms. Sputum Culture and Sensitivity did not yield any pathogen growth.

As the patient's condition continued to deteriorate and no infectious organisms were found, our clinical team explored alternative diagnostic methods to uncover the reason behind the patient's worsening clinical status. During a thorough review of the patient's history, his wife recalled seeing a greenish stain on the patient's pants in the left thigh area about 20 days before his admission. This detail turned out to be vital in refining the diagnosis. The stain was traced back to an accidental spill of pesticide, which the patient had encountered while trying to open the container. Upon investigating further, the pesticide was found to be PARAQUAT. He had unintentionally spilled PARAQUAT on his clothes, and there were no immediate symptoms after the exposure. However, the later development of respiratory distress and subsequent organ dysfunction raised concerns that led to the diagnosis of percutaneous paraquat poisoning.



Figure 4: Scrotal and left thigh contact ulcer

## **DISCUSSION**

Paraquat is a highly toxic herbicide that can cause severe pulmonary toxicity following ingestion, inhalation, or skin exposure. Its toxicity arises from its ability to undergo redox cycling, leading to the generation of reactive oxygen species (ROS), which induce cellular oxidative damage. Once absorbed, paraquat primarily accumulates in the lungs, where it causes direct injury to alveolar epithelial cells, leading to inflammation, fibrosis, and eventual respiratory failure. In severe cases, the damage progresses to ARDS, requiring mechanical ventilation and intensive care.

The initial signs of paraquat poisoning can be quite vague, with symptoms that may vary from mild stomach discomfort, oral ulcers to more serious complications like pulmonary edema. The defining feature of paraquat toxicity is its swift advancement to acute respiratory distress syndrome (ARDS) and multi-organ failure, which can result in death within days to weeks following exposure. Early detection and supportive care are crucial for improving outcomes, which may involve low oxygen therapy, corticosteroids, and medications aimed at reducing oxidative stress, although there is currently no specific antidote for paraquat poisoning.

In this case, the patient exhibited severe hypoxia and signs of ARDS, which, combined with laboratory results indicating infection and multi-organ dysfunction, initially led the clinical team to suspect an infectious cause. The delayed recognition of paraquat exposure highlights the necessity of obtaining a comprehensive history, particularly in cases of unexplained respiratory failure and multi-organ involvement.

The treatment for paraquat poisoning is mainly supportive. If paraquat ingestion or exposure is suspected, patients should be promptly decontaminated, which includes removing contaminated clothing and administering activated charcoal if ingestion occurred within a few hours. While various agents like antioxidants (e.g., N-acetylcysteine, glutathione) have been tested, none have shown definitive effectiveness in enhancing survival.

## **CONCLUSION**

This case underscores the necessity of maintaining a high level of suspicion for paraquat poisoning in patients who show signs of acute respiratory distress and multi-organ dysfunction. Although the initial symptoms appeared to align with an infectious cause, a detailed investigation into the patient's background revealed paraquat exposure as the probable reason for his condition. Prompt recognition and supportive care are vital in treating paraquat poisoning, as the situation can quickly escalate to life-threatening organ failure if not managed properly.

Healthcare providers should be alert to potential environmental exposures, like pesticides, in patients with unexplained symptoms, particularly in agricultural or industrial environments. Additionally, a comprehensive clinical history that includes any contact with toxic substances is crucial for making a swift diagnosis and informing treatment strategies in these intricate cases.

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# **DOUBLE-FACE BUCCAL MUCOSAL GRAFT SUBSTITUTION URETHROPLASTY – A NOVEL TECHNIQUE FOR OBLITERATIVE BULBAR URETHRAL STRICTURES – CASE REPORT**

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*Consultant Urologist*



## **INTRODUCTION**

The current trend in the management of bulbar urethral strictures is non-transection, minimal urethral mobilization, and substitution of the urethra. Substitution bulbar urethroplasty can be performed using a dorsal or ventral approach, depending on the length, extent, and calibre of the stricture. Combined dorsal and ventral on-lay augmentation urethroplasty technique was described by Palminteri et al. for bulbar urethral reconstruction. In this paper, we present our report of the double-face Buccal Mucosal graft urethroplasty technique for near-obliterated bulbar urethral strictures and short-term outcomes of this technique.

## **CASE REPORT**

A 54 years male, a known case of head injury with history of urethral catheterisation presented with severe Lower urinary tract symptoms on September 2023 and on evaluation was found to have an obliterated mid bulbar urethral stricture on ascending urethrogram (AUG). Supra pubic cystostomy was done and he was on regular follow up. On November 2023, he was re-evaluated with ascending urethrogram showing a completely obliterated mid bulbar stricture of length 3 cm. (Fig 1)

He was admitted and double face buccal mucosal graft substitution urethroplasty was done on November 2023. Urethral catheter was removed on end of December 2023. Repeat AUG revealed a normal Caliber urethra at the site of anastomosis. (Fig 2) Supra pubic cystostomy was removed on first week of January 2024. Patient is now voiding well and he is on regular follow up.



Fig. 1 - Before Surgery AUG



Fig. 2 - After surgery AUG

### **SURGICAL TECHNIQUE**

The double- face BMG urethroplasty can be performed in two ways, either dorsal on-lay with ventral inlay or ventral on-lay with dorsal inlay technique. Near- obliterative bulbar strictures are the main indications of double-face graft urethroplasty. In our case we did dorsal on-lay with ventral in-lay. (Fig. 3 - 10)

The operative procedure was performed with the patient under general anaesthesia with nasotracheal intubation. The patient is placed in the exaggerated lithotomy position. Urethroscopy was performed with a 6-Fr ureteroscope to assess the urethral strictures, Caliber. A 0.032 guide wire was placed to enable the identification of the urethral lumen during the procedure. A 16Fr urinary catheter is inserted, identifying the distal end of the segment affected by stenosis. A longitudinal mid line incision is made in the perineum. The left & dorsal surfaces of the urethra are dissected, with the right border maintained, as proposed by Kulkarni et al. A longitudinal incision is made along the midline of the dorsal wall of the urethra affected by stenosis, extending up to 1cm beyond the area of stenosis, preserving the spongy tissue.

The unhealthy mucosa is excised on the already exposed ventral urethra. A small patch of buccal graft is inserted ventrally and quilted with delicate sutures. On the dorsal aspect a long buccal graft is quilted on the corpora. The anastomosis is then performed over a 14 size silicone urethral catheter.



Fig 3 – Stricture area exposed



Fig 4 – proximal caliberation



Fig 5 – Distal caliberation



Fig 6 – BMG harvested



Fig 7 – Ventral graft quilted



Fig 8 – Dorsal



Fig 9 – Catheter inserted



Fig 10 – Urethral Closure Completed

### **A BRIEF DESCRIPTION OF RELEVANT ANATOMY**

Anterior urethra is divided anatomically into 2 parts, namely penile and bulbar urethra. The bulbar urethra lies between penoscrotal junction and membranous urethra, which includes external urethral sphincter. The bulbar urethra is divided also into proximal, middle and distal bulbar urethra. The proximal and middle bulbar urethral parts are unique in terms of spongy tissue, which is more developed in these regions. These proximal and middle parts of the bulbar urethra are covered by the bulbospongio-cavernosus muscle, which is divided into 2 parts, and the proximal 2/3 of the muscle surrounds the urethra. We know from the anatomical studies that this proximal portion aids in the ejaculation, and also in the evacuation of last few drops of urine. The distal 1/3 parts of bulbospongio-cavernosus muscle surrounds the corpora cavernosa at the base of the penis. This distal muscle is known to compresses the deep dorsal vein of the penis to aid in erection. We approach the dorsal surface of urethra by one of two ways. The first one is by incising bulbospongiosus muscle in midline ventrally with circumferential mobilization of the urethra. The second is by one-sided dissection, sparing the bulbospongiosus muscle and limiting the muscle division only to the distal bulbocavernosus muscle, which is a muscle preserving approach.

## **DISCUSSION**

Urethral stricture differs according to its aetiology, extent, site, depth and density. All these factors are relevant to the management of this pathology, determining the most appropriate approach in each case. The use of urethral dilatation, internal urethrotomy and primary reconstruction are treatment options, however, there are limitations when the stenosis is complex and extensive. In such cases, the use of flaps and grafts has been proposed. These can be of different origins, including lingual mucosa, labial mucosa, postauricular mucosa, etc.

Buccal mucosa graft (BMG) was first described for urethral reconstruction by Humby in 1941. It has become an ideal urethral substitute because of ease of harvest, surgical handling characteristics, hairlessness, compatibility in a wet

environment, and its early ingrowth and graft survival. Because of these unique characteristics, buccal mucosa has endeared itself to the realm of reconstructive urology. Standard bulbar urethroplasties using buccal grafts should have a lifetime success rate approaching 92%.

In 1996, Morey et al. described ventral on-lay oral mucosa urethroplasty and proposed an improvement to the technique used to harvest buccal mucosa using two teams working simultaneously. Two years later, Barbagli et al. described the application of a dorsal on-lay graft with preservation of the ventral surface. Asopa et al. also described the use of a dorsal on-lay graft. More recently, dorsal grafts have been used in less extensive dissections of the urethra, as described by Kulkarni et al. In selected patients, double Face urethroplasty has also been used for more severe forms of stenosis, with little or no lumen for this purpose. Several variations in techniques have been used. Palminteri et al. described a technique in which a combined dorsal plus ventral double buccal mucosa graft was used in the urethra. Despite encouraging results, there are two disadvantages with that technique. The first is the need for two incisions in the urethra, one ventral and the other dorsal. The second disadvantage is that the ventral graft has little support for its fixation, since it is not fixed to the corpus spongiosum. The technique described here offers the considerable advantage of increasing the lumen, both in the dorsal and ventral parts, using only a urethral incision on the dorsal surface.

## **CONCLUSION**

Double-face urethroplasty is indicated for near-obliterative strictures. A double-face urethroplasty with buccal mucosa using a longitudinal urethral incision preserving the corpus spongiosum and inlay graft proved a viable option, with good results in the postoperative follow-up.

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குடல், கிரைப்பை, கல்லீரல், கணையம், புற்றுநோய்  
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# THE GROWING NEED FOR BIOMEDICAL WASTE MANAGEMENT IN HOSPITALS

**Dr Susitha T**



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## **Abstract**

Biomedical waste (BMW) remains as a threat to the medical personnels and community. Adequate knowledge and good practice towards BMW are mandatory for different cadres in health care sector dealing with medical wastes. Every healthcare facility (HCF) should have a designated flow of BMW management. Segregation is the crucial step and if done properly ensures that all the remaining steps are done effectively. More focus is needed in record maintenance and reporting of BMW. Regular inspection and periodic audits of BMW are to be implemented in waste generating facilities. Hospitals should ensure proper implementation of guidelines by forming a Committee for BMW management.

## **Key words**

Biomedical waste, Biohazard, Health care facility

## **Introduction**

BMW is “any waste, which is generated during the diagnosis, treatment or immunization of human beings or animals, or in research activities pertaining thereto, or in the production or testing of biologicals”<sup>1</sup>. BMW are infectious wastes which can be either liquid or solid in nature. The demand for rapid and quality health care attracts more wastes due to improved diagnostic procedures. The common sources of production are clinics, diagnostic laboratories, nursing houses, hospitals and health camps.

Adequate knowledge and good practice towards BMW are mandatory for different cadres in health care sector. Various health hazards are associated with mishandling of these wastes. About 40 pathogens are documented to be

transmitted and the predominant ones are HIV, Hepatitis B and C viruses<sup>2</sup>. Pollution of air, water and soil can occur due to poor BMW activities. So utmost care is needed at all levels, while handling and disposing them.

### **Biomedical waste rules**

The Ministry of Environment, Forest and Climate change has formulated BMW management rules in 2016. These rules are done amendments in 2018 and 2019. The apex body which monitors the BMW activities is Central Pollution Control Board (CPCB) in India. The State Pollution control boards of respective state regulate, monitor and report the BMW activities to CPCB. Every HCF should have a designated flow of BMW management and their own sewage treatment plant (STP).

### **The Indian scenario**

The average BMW produced per bed is about 1.5-2 kg daily in India. Our country generates 484 tonnes per day from 168869 HCFs. There are 198 Common BMW treatment facilities (CBMWTF) in use and 28 are under construction. The number of HCFs using CBMWTFs are 131837 and approximately 21870 HCFs have their own treatment facilities on-site<sup>3</sup>.

### **Classes of biomedical waste**

Among the total waste generated in hospitals, 85% is general (non-hazardous) waste, and the remaining 15% is hazardous. BMW includes masks, gloves, body parts, sharps, broken ampoules, soiled cotton, discarded linen, expired drugs, vaccines, laboratory wastes, urinary bags, chemicals, cytotoxic and radioactive materials. The BMW produced in hospitals is classified into four major classes. They are the non-plastic infectious wastes (yellow), the plastic recyclable items (red), sharps and metals (white) and broken glasses and metallic body implants (blue) (Figure 1). All the BMW bags and containers should have the logos of biohazard and cytotoxic hazard on them (Figure 2).



Figure 1-Colour coded bins for biomedical waste<sup>4</sup>

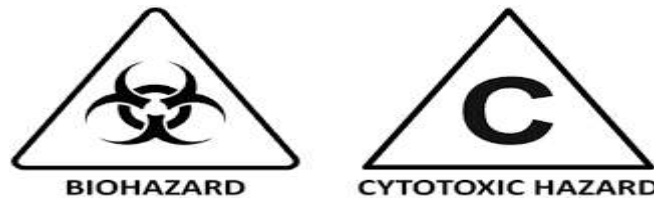


Figure 2. Logos of biohazard and cytotoxic hazard

### Steps

The four main steps in BMW management are

1. Segregation
2. Storage
3. Transport
4. Disposal

### Segregation

BMW is a potential source of infection. Segregation is the crucial step and if done properly ensures that all the remaining steps are done effectively. Health care workers have to be mindful while doing this step. A single wrong mistake nullifies the entire effort of appropriate disposal<sup>5</sup>. For example, disposing a plastic syringe in yellow bag instead of red one leads to liberation of toxic fumes during incineration. Only three fourths of the capacity of the bags are to be filled. Adequate number of bins should be placed at appropriate waste generating units<sup>5</sup>. All the laboratory liquid waste is to be pretreated either by autoclaving or 1-2% hypochlorite.

## **Storage**

The properly labelled and segregated waste from various areas of hospital is transported by trained workers to common storage area. These workers during transport should wear gowns, masks, heavy duty gloves and gumboots. The common storage area should be safe, well-ventilated, easy to clean with good drainage system and remote from general public. It should display biohazard sign and have compartments to store different categories of wastes temporarily. This area should be sheltered from water, wind, rodents, insects and animals.

## **Transport**

The BMW from central storage area after proper weighing are transported in designated closed vehicle which has a tracker system. The waste reaches the CBMWTF where all wastes are treated and safely disposed within 48 hours of generation time. The treatment methods are Incineration, Autoclaving, Microwaving, Plasma Pyrolysis and Shredding. Any waste which couldn't be reused or recycled are disposed by Deep burial, Sharp pits and Encapsulation.

The principle of BMW management is based on 3Rs- Reduce (decreasing the production of waste), Reuse (if feasible), and Recycle (Plastics). The energy obtained during disposal is used for generating electricity and also as compost for soil.

## **Challenges**

Non-adherence of BMW rules is a major failure. There is always demand for human resources and infrastructure for handling and storing the wastes respectively. Poor segregation practices by few health care workers adds to the menace. The safety measures for BMW workers are often inadequate. There is always risk of hospital associated infections and environmental hazards due to mishandling. Inaccurate data maintenance and poor documentation of BMW also fuels the problem. There is a deficiency in knowledge, attitude and practice on medical wastes among health professionals. Among doctors, the knowledge

about BMW is desirable (82%) while its of lower percentages in other cadres. Nurses score more in practice (83%) compared to other cadres.<sup>6</sup>

### **Solutions**

Hospitals should ensure proper implementation of guidelines by forming a Committee for BMW management. Following right approach towards onsite segregation of wastes should be insisted consistently. Logos of biohazard should be displayed on the plastic bags and containers. The BMW should not be stored more than 24 hours after generation. More focus is needed in record maintenance and reporting, at all levels starting from site of generation to common storage area. Dedicated trolley or vehicle is needed for safe transport of wastes from wards to the common storage area of hospital. Strict monitoring of BMW is to be done as per Standard Operating Procedures (SOP). Raising the awareness among health care workers by Information, Education and Communication (IEC) strategies. Regular inspection and periodic audits of BMW are to be implemented in waste generating facilities.

### **Conclusion**

BMW remains as a threat to the medical personnel and community. Adequate infrastructure with dedicated health care workers with right approach helps in effective BMW management. Commitment and support from Government helps in creating a sustained impact. An eco-friendly environment could be derived by collaborating easy approaches and strict monitoring measures.

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# **CASE REPORT: LUMBAR SYMPATHETIC BLOCK FOR PERIPHERAL VASCULAR DISEASE (PVD)**

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## **ABSTRACT**

Peripheral Vascular Disease (PVD) is a debilitating condition characterized by reduced blood flow to the lower extremities, often leading to pain, ulceration, and impaired mobility. While surgical interventions such as angioplasty or bypass are options, minimally invasive Interventional pain procedures like Lumbar sympathetic block (LSB) is an effective intervention aimed at improving circulation and alleviating pain. We present a case of a 50-year-old male with PVD who underwent an LSB for symptom relief. The procedure demonstrated significant improvement in pain levels and circulation, highlighting the role of LSB as a therapeutic option in PVD management.

## **Introduction**

PVD, often secondary to atherosclerosis, results in ischemic pain, claudication, and non-healing ulcers. Sympathetic nerve blockade has been explored as a method to enhance blood flow and relieve ischemic symptoms. Lumbar sympathetic block interrupts the sympathetic supply to the lower limbs, leading to vasodilation and improved perfusion. Here, we report a case where LSB was performed for severe PVD-related pain, demonstrating its efficacy in symptomatic relief.

## **Case Report**

A 50-year-old male patient came with Chief Complaints of Left lower limb pain for 2 weeks. Pain characteristics - Intermittent claudication pain in both legs with difficulty in walking due to pain, Able to walk for only short distance. He

also complaints of Rest pain in the left lower limb. NRS score – 9/10. He was a chronic smoker and alcoholic with no comorbidities. On General physical examination, Skin discoloration present on the affected limb (fig 1) & left leg Peripheral pulse reduced. Ankle-Brachial Index (ABI) was 0.8 (suggestive of PVD) & Ultrasound Findings: Suggestive of arterial insufficiency. Patient was started on Heparin 5000U IV QID with Aspirin and for pain patient was receiving Paracetamol, Brufen and Amitriptyline. Despite these measures patient complained of pain with NRS 7/10. So, Planned for Lumbar Sympathetic Block.

After obtaining informed consent and pre procedure workout, patient was prepared for the procedure with standard NPO guidelines on the day of procedure. Procedure Details: With proper ASA monitoring and a secure IV line patient was positioned in a prone and the procedure was performed under fluoroscopic guidance. Under ASP WITH 22 G 12 cm Quincke needle left lumbar sympathetic block done with 8 ml of 1 % xylocard, 0.125% Bupivacaine and 20 mg Triamcinolone at L3 level after obtaining desired contrast spread in AP and lateral view (Fig 2,3). Vital signs were stable throughout the procedure. No sensory or motor deficits post-procedure

#### Outcome and Follow-up

- Immediate post-procedure improvement in pain score NRS – 2/10
- Increased skin temperature indicating improved circulation
- No complications observed
- The patient was discharged with instructions for wound care, lifestyle modifications, and medication (Gabapentin 300 mg, antiplatelets, and vasodilators).
- Follow-up after 2 weeks showed sustained relief of symptoms. NRS 1/10

#### Discussion

PVD is a progressive vascular disorder that significantly impairs quality of life. While surgical interventions such as angioplasty or bypass are options, conservative and interventional pain management techniques like LSB play a crucial role in symptomatic relief. LSB leads to vasodilation by blocking the

sympathetic nervous system, thereby improving peripheral circulation. This case highlights the efficacy of LSB as a minimally invasive, yet effective, option for pain management and circulation enhancement in PVD patients.

### **Conclusion**

Lumbar sympathetic block is a viable and effective intervention for PVD-related pain. This case reinforces its role in multimodal pain management, especially in patients with contraindications for surgical interventions. Further studies and long-term follow-ups are needed to establish its role in disease progression and quality of life improvement.



Fig 1 Skin Discoloration



Fig 2:Dye spread in AP image



Fig 3 -Dye spread in lateral image

 <b>Emglyza-10/25</b> Emagliflozin 10mg / 25mg Tablets	 <b>Emglyza-Met 500/1000</b> Emagliflozin 1.5mg + Metformin 500mg / 1000mg Tablets	 <b>Javlis-5</b> Losartan 5mg Tablets
 <b>Javlis-DUO 5/25</b> Losartan 5mg + Emagliflozin 2.5mg Tablets	 <b>Javlis-M 2.5/500 2.5/1000</b> Losartan 2.5mg + Metformin 500mg / 1000mg Tablets	 <b>Javlis-M 5/500</b> Losartan 5mg + Metformin 500mg (SR) Tablets
 <b>GLYZANDA-M0.5 MI M2</b> Glimepiride 0.5mg / 1mg / 2mg + Metformin 500mg PR Tablets	 <b>GLYZANDA-MV 1mg 2mg</b> Glimepiride 1mg / 2mg + Metformin 500mg SR + Voglibose 0.2mg Tablets	 <b>Telaze-20/40</b> Telmisartan 20mg / 40mg Tablets
 <b>Telaze-H</b> Telmisartan 40mg + Hydrochlorothiazide 12.5mg Tablets	 <b>Telaze-CT40</b> Telmisartan 40mg + Chlorzoxipolone 12.5mg Tablets	 <b>Telaze-MT25/MT50</b> Telmisartan 25mg + Metoprolol Succinate (ER) 25mg Tablets
 <b>Cilnilet 5 10 20</b> Cilnidipine 5mg / 10mg / 20mg Tablets	 <b>Cilnilet-T</b> Cilnidipine 10mg + Telmisartan 40mg Tablets	 <b>PalmiStar</b> Policosatetraenole 100mg + Magnesium Glucuronate 170mg + ALA 200mg + Acetyl-L-Carnitine 200mg + Vitamin B12 2.2mcg + Vitamin D3 600 IU Tablets
 <b>UPSIRON</b> Folic Acid 5mg + Pyridoxine 5mg + Cyanocobalamin 500mcg + Vitamin C 40mg + Vit B12 6mcg + Folic Acid 200mcg & Cyanocobalamin 500mcg Tablets	 <b>MERZENDA PLUS</b> Methylcobalamin 1500mcg + ALA 100mg + Folic Acid 5mg + Pyridoxine 5mg Tablets	 <b>SignoPraz-20/D</b> Rabeprazole 20mg Gastro-resistant Tablets + Domperidone 30mg SR Capsules


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I am Dr .S. Jefferson Roy MBBS DA a practicing Anaesthesiologist in  
Kanniyakumari District. What I do I preach and educate is the strategy behind  
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## IMA ACTIVITIES

<b>S.No</b>	<b>Year</b>	<b>Month</b>	<b>Theme</b>	<b>Guest of Honor</b>
1	2023	January	Multidisciplinary management of low backache	<b>Dr Ramkumar</b> Neurosurgeon KGMC - Kanyakumari
2	2023	February	Emergency trends in vascular surgery	<b>Dr.K.Rajesh</b> Vascular Surgeon KGMC - Kanyakumari
3	2023	March	Outreach activities Village adoption Elandhayadivilai	<b>Dr.M.Thiraviam Mohan</b> IMA TNSB Vice President South Zone ALL members of IMA – KMC Branch
4	2023	March	Black day black badge protest against Right to health bill in Rajasthan	All Members of IMA - KMC Branch
5	2023	June	Outreach activities Village adoption Melmidalam	All members of IMA – KMC Branch
6	2023	June	ARDS beyond Mechanical Ventilation	<b>Dr Ajmal Abdul Karim</b> Consultant Critical Care KIMS - Health, Trivandram
7	2023	July	Is snoring a disease	<b>Dr Joseph Pratheeban</b> <b>Consultant Pulmonologist</b>
8	2023	July	Doctor's Day Celebration	<b>Dr.Prince Sreekumar Pius</b> Dean KGMC - Kanyakumari
9	2023	August	Combination therapy in uncontrolled T2DM	<b>Dr.Jayaram Kosalaram</b> Consultant Physician KGMC - Kanyakumari

10	2023	September	Outreach activities Medical Camp Puthukudierupu	<b>All members of IMA – KMC Branch</b>
11	2023	October	Art Competition World Anatomy Day	<b>Prof Dr Anitha Department of Anatomy, KGMCH</b>
12	2023	October	Acute stroke management-An update	<b>Dr Krishnasree</b> Associate Consultant Neurology KIMS - Health, Trivandram
13	2024	January	Awareness on Eye Care	<b>Dr.AJS.Pravin</b> RI District Chairman
14	2024	February	CME on Oncological imaging via PET & SPPECT	<b>Dr.J.Balasubramaniyan</b> Chief Transplant & Interventional Nephrologist
15				
16				
17				
18	2024	July	Doctor's Day Celebration	All members of IMA- KMC Branch
19	2024	September	Unravelling novelties of Modern management in Chronic Pancreatitis	<b>Dr.Johnson MariaAntony</b> Senior Consultant Department of Gastroentologist KMC, Kanyakumari

20	2024	September	Blood Donation Camp Chembaruthivilai	<b>Dr M K Rakesh MD</b> IMA – KMC Branch
21	2024	October	Blood Donation Camp KMC - Kanyakumari	<b>Dr M K Rakesh MD</b> IMA – KMC Branch
22	2024	November	Metabolic Dysfunction Associated Steatotic Liver Disease & Diabetes recent Concepts	<b>Dr.Joel Franklin F</b> Joel's Diabetes Thyroid & Hormone Clinic Nagercoil
23	2025	January	Demystifying Sepsis Management	<b>Dr.C.Ayyapan</b> Consultant & ICU Head Apollo Speciality Hospital Madurai

## GLIMPSES OF IMA









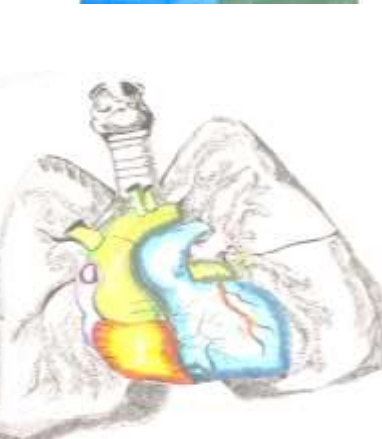


## Greetings by the Office Bearers to the Members of IMA



# ANATOMY ART COMPETITIONS





## MEGA BLOOD DONATION CAMP

On March 5, 2025, the Indian Medical Association (IMA) Kanyakumari Medical College (KMC) Branch organized a mega blood donation camp in collaboration with Kanyakumari Medical College, IMA Medical Students Network, and the Red Ribbon Club. The event was held in the examination hall of Kanyakumari Medical College Hospital (KMCH). Prof. Dr. V. Ramalakshmi, Dean, inaugurated the camp, while Dr. K.U. Suresh Balan, Vice Principal, Dr. Y. Kingsley Jeba Singh, Medical Superintendent, Dr. Joseph Sen, RMO, Dr. Vijayalakshmi Mohandas, ARMO, and Dr. Renimol, ARMO, felicitated the event. The camp received overwhelming support from IMA President Dr. Muthukumar, Dr. Arul Venkadesh, Secretary and other IMA members. A total of 220 blood units were collected, marking the highest collection among all camps conducted by KGMCH in Kanyakumari district to date. The success of the camp was attributed to the active participation and coordination of undergraduate and postgraduate students, Vice Principal, Heads of Departments, Professors, and Assistant Professors of Kanyakumari Medical College. Dr.M.K.Rakesh, District Blood Transfusion Medical officer convened the Mega Medical Camp in a grand manner.



# AWARDS & RECOGNITION



## LIFE TIME ACHIEVEMENT AWARD



**Dr.M.MUTHU SHENBAGAM**  
Professor & HOD of Emergency Medicine



**Dr.P.JOHN CHRISTOPHER**  
Professor & HOD of Medicine



**Dr.EDWARD JOHNSON**  
Professor and Hod of Anaesthesiology



**Dr.EDWIN EMPEROR**  
Professor and Hod of Plastic Surgery

### BEST PERFORMANCE AWARD - 2023

<b>S.NO</b>	<b>Name</b>	<b>Designation</b>
1	Prof Dr Anitha	Professor and HOD of Anatomy
2	Dr Padma kumar	Department of Nephrology
3	Dr Selvakumar	Deptment of Urology
4	Dr T Ramesh Kumar	Deptment of Neonatology
5	Dr Sam Anbu Sahayam	Deptment of Pharmacology
6	Dr T Susitha	Deptment of Microbiology

**BEST PERFORMANCE AWARD - 2024**

<b>S.NO</b>	<b>Name</b>	<b>Designation</b>
1	Dr.M.Balabharathi	Assistant Professor of Radiology
2	Dr.Oxy T.S. Dharsini	Plastic Surgery
3	Dr.V.Breetha	Assistant Professor of OG
4	Dr.J.Rosebell	Assistant Professor of Anesthesia
5	Dr.M.K.Rakesh	Assistant Professor of Immunohaematology
6	Dr.Mohan Murugesan	Assistant Professor of Pathology
7	Dr.R.Balaji	Medical Officer, ISRO
8	Dr.P.Ram Praveen	First Year PG
9	Dr.M.Mohamed Jasir	First Year PG
10	Dr.Hari Krishnan	First Year PG

**TEACHERS DAY AWARD - 2024**

1	Dr.V.Anitha	Department of Anatomy
2	Dr.D.Jude Anselm Shyras	Department of ENT
3	Dr.G.M.Niban	Department of Neurosurgery
4	Dr.Sri Vidya	Deptment of General Medicine
5	Dr.R.Beena	Department of Ophthalmology
6	Dr.Jayaram Kosalram	Deptment of General Medicine
7	Dr.J.Merceline Alice Pon Jeba	Department of pediatrics
8	Dr.R.Keerthana	Department of Pharmacology
9	Dr.J.Jeya Deepana	Department of Microbiology



1. Organize Continuing Medical Education (CME) programs
2. Provide a platform for young medical graduates to showcase their research work, share knowledge, and learn from experts in the field.
3. Community Health Initiatives
4. Mentorship Programs
5. Collaborate with Local Healthcare Institutions
6. Advocate for Healthcare Policy Changes
7. Host Medical Conferences and Workshops
8. Develop a Member Support System
9. Promote Research and Innovation
10. Foster Interdisciplinary Collaboration
11. Develop a Public Health Awareness Program

## **“KANYAKUMARI - A TREASURE TROVE OF NATURAL BEAUTY AND CULTURAL HERITAGE”**

Kanyakumari located at the southernmost tip of the Indian subcontinent, Kanyakumari District is a gifted area, rich in natural beauty, cultural significance, and historical landmarks. Formed on November 1, 1956, the district was once the “Granary” of the erstwhile Travancore State. Kanyakumari, also known as Cape Comorin, is a coastal town surrounded by the sea on three sides. The town boasts a scenic coastline with beautiful beaches, making it a popular tourist destination. Kanyakumari has a rich cultural heritage, with a blend of Tamil, Kerala, and Christian influences. The town is known for its vibrant festivals, including the Chithra Pournami festival. The Thiruvalluvar Statue: A Symbol of Cultural Heritage

The Thiruvalluvar Statue, located on a small island near Kanyakumari, is a magnificent monument dedicated to the renowned Tamil poet and philosopher Thiruvalluvar. The statue stands tall at an impressive height of 133 feet, including the pedestal, and is steeped in symbolism, representing the 38 chapters of virtue, 95 chapters of wealth and love, and the three-level platform, Atharapeedam. The Thiruvalluvar Statue is an awe-inspiring monument that showcases the rich cultural heritage of Tamil Nadu, making Kanyakumari District a must-visit destination for anyone interested in exploring the natural beauty, cultural significance, and historical landmarks of India.

