

ANDHRA MEDICAL COLLEGE/KING GEORGE HOSPITAL CENTER FOR PAIN MANAGEMENT PROJECT REPORT

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DR. NARASIMHA R GUNDAMRAJ





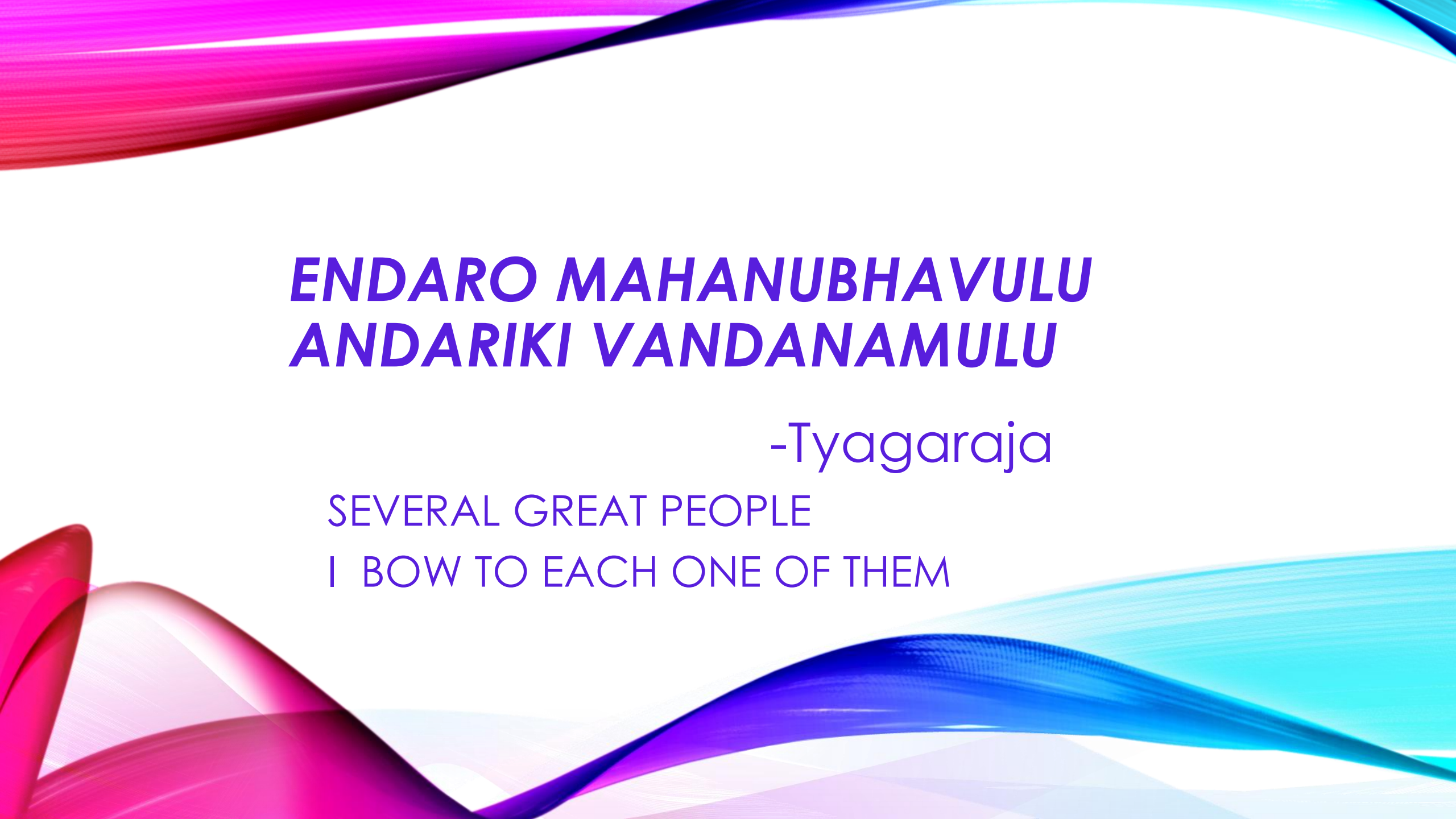
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DR. MAHENDRA R. SANAPATI
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PAIN MANAGEMENT CENTERS OF
AMERICA (PMCOA)
PRESIDENT
AMERICAN SOCIETY OF INTERVENTIONAL
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INDIANA SOCIETY OF INTERVENTIONAL
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EVANSVILLE, IN
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DR. RAM PASUPULETI
PRESIDENT/DIRECTOR
CENTER FOR PAIN MANAGEMENT
BOWLING GREEN, KY
PRESIDENT
KENTUKY SOCIETY OF
INTERVENTIONAL PAIN PHYSICIANS
PRESIDENT
GANDHI MEDICAL COLLEGE
GLOBAL ALLIANCE (GMC GA)
UNITED STATES OF AMERICA



ENDARO MAHANUBHAVULU ANDARIKI VANDANAMULU

-Tyagaraja

SEVERAL GREAT PEOPLE

I BOW TO EACH ONE OF THEM

INTRODUCTION

- ❖ It is with the intention of establishing and running a Center for Pain Management at Andhra Medical College (AMC)/King George Hospital (KGH) that Dr. Srinivas S. Thota, Dr. Mahendra R. Sanapati, Dr. Ram Pasupuleti and Dr. Narasimha R Gundamraj are working in collaboration with AMC Alumni of North America (AMCANA) & the Department of Anaesthesiology, AMC/KGH. This will be the first of its kind in the long and illustrious history of AMC/KGH.
- ❖ As a part of this collaborative effort, a fund-raising campaign will be done by AMCANA to assist in procuring the necessary space, staff, equipment and resources for a fully functional center for pain management at AMC/KGH.
- ❖ Dr. Thota, Dr. Sanapati, Dr. Pasupuleti and Dr. Gundamraj, with the help of AMCANA will coordinate the efforts of providing funds (fund-raising) and also providing the expertise and assistance in this project from USA and the Department of Anaesthesiology at AMC/KGH will provide assistance with the available resources at AMC/KGH in India.

INTRODUCTION

- ❖ Dr. Thota and Dr. Gundamraj have several years of experience in pain management, both in the academic and clinical sectors. In addition to practicing as interventional pain management physicians, they teach and train physicians from across the world in the field of pain management.
- ❖ Dr. Sanapati has over twenty years of experience in interventional pain management. Being the President of American Society of Interventional Pain Physicians (ASIPP) and its Indiana state chapter (INSIPP), Dr. Sanapati is an opinion leader in the field of pain management.
- ❖ He established American Spine & Pain Centers in Hyderabad in collaboration with five other American pain physicians of Telugu origin, bringing the latest treatments and technologies in pain management to the Telugu states.
- ❖ Dr. Thota, Dr. Sanapati, Dr. Gundamraj and other members of AMCANA have a keen interest in developing a full-fledged center for pain management at their Alma Mater AMC/KGH.

INTRODUCTION

- ❖ Dr. Pasupuleti has over twenty years of experience in the field of pain management and owns the Center for Pain Management (CPM) in Bowling Green, Kentucky, USA.
- ❖ He is also the President of Kentucky Society of Interventional Pain Physicians (KYSIPP).
- ❖ Dr. Pasupuleti is an excellent clinician in addition to which he teaches and trains physicians from all over the world in the most advanced techniques and treatment modalities in pain management.
- ❖ Dr. Pasupuleti established the pain clinic at his Alma Mater, Gandhi Medical College/Hospital and also more recently at Osmania Medical College/Hospital.
- ❖ He also helped establish other pain clinics in several cities across India and in other countries.
- ❖ Dr. Pasupuleti has conducted several teaching and training sessions in pain management in India and is credited with bringing cutting edge techniques and technology in pain management to India.

PAIN MANAGEMENT

- ❖ Pain management has grown by leaps and bounds in the past twenty years with new technologies and techniques being discovered every day.
- ❖ Fortunately, all the new techniques and technologies in pain management are now available in India today.
- ❖ However, it is unfortunate that most of these advances are available only in the private and corporate sector. They are expensive and beyond the reach of the common man.
- ❖ It is the intention of Dr. Thota, Dr. Sanapati, Dr. Pasupuleti and Dr. Gundamraj to make all the techniques and technologies in pain management available and accessible to everyone in India-particularly in their home state of Andhra Pradesh. The best way to make this happen is to provide these services at reputed government hospital/public institutions like AMC/KGH.

MISSION STATEMENT

- ❖ KGH serves the medical needs of millions of people in Andhra Pradesh and is now providing advanced services in most fields of medicine, except for pain management.
- ❖ There is a huge unmet need for pain management services in the Government sector in Andhra Pradesh and the Center for Pain Management at AMC/KGH will provide the benefit of these essential services to millions of people.
- ❖ The National Medical Commission (NMC) has made it mandatory for all academic medical institutions in India to have a pain management program with a functional pain clinic.
- ❖ The Center for Pain Management at AMC/KGH will provide multi-disciplinary services including interventional and pharmacological pain therapies, physical therapy, psychological therapies and complementary/alternative modalities.

MISSION STATEMENT

- ❖ It will be the mission of the Center for Pain Management at AMC/KGH to bring comprehensive, quality and affordable pain management services to every household in Andhra Pradesh.
- ❖ In addition to this, the center will have an international collaboration with PMCOA and CPM, USA, to be able to provide the same quality of services that patients get across the world.

ACADEMIC PROGRAM

- ❖ The Center for Pain Management at AMC/KGH will also serve as an educational institution spreading the knowledge and reach of pain management by way of training and teaching graduate & post-graduate medical students, physicians and other pain management professionals.
- ❖ The Principal of AMC, Superintendent of KGH and HOD of Anaesthesia department can get permission from NMC to establish a DM (Fellowship Program) in Pain Management, which will train future generations of physicians in pain management.
- ❖ For this to happen, the center will need trained professionals and educators in addition to the equipment and technology.
- ❖ Dr. Thota, Dr. Sanapati, Dr. Pasupuleti and Dr. Gundamraj, with the help of AMCANA are willing to work with the Superintendent of KGH, Principal/Dean of AMC and other leading officials in the clinical, academic and administrative departments to establish a structured teaching program for the graduate/post-graduate/fellowship students, interns and other teaching staff.

ACADEMIC PROGRAM

- ❖ Dr. Sanapati & Dr. Pasupuleti will also offer a two to four-week training program free of cost at their institutions in USA for any student or staff member of AMC/KGH that is interested in pain management.
- ❖ To make the academic program possible, the leading officials at AMC/KGH will have to work with Dr. Thota, Dr. Sanapati, Dr. Pasupuleti and Dr. Gundamraj to create/establish visiting/honorary professor positions for them to be able to teach officially.
- ❖ Didactic teaching and regular classes can be held online and hands-on teaching can be done by way of the training programs in USA, live and cadaver workshops and also with physicians from USA coming to teach at AMC/KGH periodically.



Gandhi Medical College
MUSHEERABAD, SECUNDERABAD - 500 003, TELANGANA, INDIA.

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Date ...10.9.2021...

To,
Dr. Ram pasupuleti,
Director centre for Pain management
Bowling green
Kentucky,
U.S.A.

From
The Principal
Gandhi Medical College,
Secunderabad,
Telangana State.

Sir

Sub:- GMC, Sec'bad - Invitation guest faculty for pain management- Reg.

<<<Q>>>

Gandhi Medical College, Secunderabad trains Post Graduates in the Department of Neurosurgery, Anaesthesiology and orthopedics who will deal with many acute and chronic pain conditions in their professional work. The pain management is included their curriculum

Being an expert in pain management with extensive experience, we would like to invite you for training of our post Graduates as guest Faculty and involve in regular online classes.

I hope you accept our request and involve with our college teaching programme.

Kindly accept the invitation.

Thanking you,

Yours faithfully,


PRINCIPAL
GANDHI MEDICAL COLLEGE
Gandhi Medical College,
Secunderabad

SERVICES PROVIDED

- ❖ Center for Pain Management at AMC/KGH will provide a full complement of Pain Management Services including
 1. Comprehensive Evaluation and Diagnosis of any and all painful conditions of the human body
 2. Comprehensive and Multi-Disciplinary Treatment Modalities for any and all painful conditions of the human body including but not limited to
 - a. Pharmacological Therapies
 - b. Interventional Procedures
 - c. Physical Therapy
 - d. Psychological Therapy
 - e. Complementary and Alternative Modalities
Acupuncture, Chiropractic, Yoga & Meditation, Hypnosis & Relaxation, Tai Chi, Music Therapy, Aroma Therapy, Magnet Therapy..... etc
 3. Teaching and training physicians and other health care professionals in Pain Management

STAFF REQUIREMENTS

- ❖ The following individuals/staff will be needed to establish and run the center
- ❖ **Professor/Assistant Professor-1**
- ❖ **Post Graduate-1 or 2**
- ❖ **House Surgeon-1 or 2**
- ❖ **Nurse-1**
- ❖ **Procedure Room Assistant/Radiology Technician-1**
- ❖ **Receptionist/Telephone Operator- 1 or 2**

SPACE REQUIREMENTS

- ❖ The Center will need the following rooms/ space
- **Consultation/Exam Rooms-1 or 2 (100-200 Sq. ft)**- for Physicians to assess and examine patients
- **Patient Waiting Area/Reception (200-300 Sq. ft)**
- **Procedure Room (Semi-Sterile) (300 Sq. ft)**- to perform 90% of interventional pain management procedures using fluoroscope machine (X-Ray Machine) and other pain management devices like radio frequency machine, ultrasound machine and other equipment and supplies as needed
- **Recovery Room (200 Sq. ft)**- to recover patients who have had procedures
- Access to Operating Room as needed for Complex Interventional Pain management procedures (10%) like Intradiscal procedures, Intrathecal Pumps, Spinal Cord Stimulation, Vertebroplasty and others

EQUIPMENT REQUIREMENTS

- EQUIPMENT
- C-Arm-1
- C-Arm Table-1
- Lead Aprons/Shielding
- Radiofrequency Machine & Supplies-1
- Ultrasound Machine & Supplies-1
- Nerve Stimulator & Supplies-1
- Transport/Recovery Stretchers-2
- BP Machine/Monitors/Thermometers- 2
- Stethoscopes-2
- Crash Cart & Supplies-1
- Oxygen Cylinder-1
- Autoclave-1
- IV stands-2
- Disposables
- Procedure Supplies
- Epidural Trays
- Needles & Syringes including Spinal needles, Tuohy needles, Loss of resistance syringes
- Epidural/Intrathecal Catheters
- Radiofrequency Supplies- Needles, Probes, Grounding pads
- Ultrasound supplies- Probes, Gel, Needles
- IV supplies- Saline/LR bags/lines/intracaths
- Medications (Injectable)- Depomedrol (or any steroid), Lidocaine, Bupivacaine, IV Contrast, Benzodiazepines, Diclofenac, Ketorolac, Acetaminophen, Morphine, Fentanyl
- Specialized trays/supplies for Vertebroplasty/Discectomy/Spinal Cord Stimulation/ Intrathecal Pumps
- Office Equipment
- Electronic Medical Record System
- Telephone System, Printer/Copier/Scanner/Fax & Office Supplies/ Furniture
- Laptops- 1 or 2

Equipment	Quantity	Amount (Rupees)	
C-Arm	1	16,00,000	
C-Arm table	1	1,75,000	
RFTC machine & Supplies	1	20,00,000	
Ultra Sound Machine &Probe	1	20,00,000	
HydraulicStretchers/beds/WC	2	50,000	
Nerve Stimulator	1	25,000	
Vital Signs monitor/IV Stands	2	50,000	
Stethoscopes	4	2,000	
Lead Aprons/shielding	4	30,000	
Computers/laptops/monitors	2	70,000	
EMR System	1	75,000	
Crash cart with AED	1	75,000	
Autoclave	1	1,20,000	
Oxygen Cylinders	2	8,000	
Procedure room/OR lights		50,000	
Disposables		3,00,000	
Total		Rs.66,30,000	(77,222 US Dollars)

FINANCIAL ANALYSIS
**Estimated Budget for Center
For Pain Management at
AMC/KGH**
**Equipment requirement
(Initial Outlay)**

TOTAL ***Rs. 66,30,000***
\$ 77,222

**Estimates based on quotes from vendors
on big ticket items and available prices
on vendor’s sites on other items at the
time of the preparation of the report-
actual costs may change with time**

CONCLUSION

- The Estimated initial financial outlay for this project is Rupees 66,30,000 (77,222 US Dollars).
- A fund-raising campaign will be conducted by AMCANA in 2025.
- The funds raised during this campaign will provide a nidus for the basic equipment requirements to start the center.
- Further needs in terms of finances, equipment, staff and other resources to continue the pain management center will be provided by AMC/KGH.
- A request is being made to individuals, families and organizations to assist and donate in this worthy cause.



THANK YOU

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