

Annexure - I

The details of each faculty (Teaching staff / Medical Professional / Consultant/Mentor) appointed for the Fellowship / Certificate course along with its supporting documents & to be submitted along with list of Teaching staff.

(COURSE COORDINATOR)

Sr. No.	Particular	Information to be filled
01.	Name of Faculty/Teacher	: DR. MANISHA .ADITYA KULKARNI
02.	Date of Birth	: 19.06.1989
03.	Address	: 5D/1E WARD, NEAR MAHAVEER COLLEGE KOLHAPUR-416003
04.	Tel. No./ Mob. No.	: 9158833633
05.	e-mail id	: drmanisha.antranghospital@gmail.com
06.	Nationality	: INDIAN
07.	Qualification in details : (attach documentary proof)	: M.D. ANAESTHESIOLOGY (2016)
08.	Teaching experience/ Medical: Profession experience /Consultant/Mentor (attached document proof with signature of Head)	: POST MD EXPERIENCE 09.08.2016 to 18.03.2017 Registrar in ICU KMCH COIMBATORE 01-04.2018 TO TILL DATE - ANTRANG
09.	Present Appointment	: CONSULTANT- ANAESTHETIST HOSPITAL.
10.	Publications (List & Proof)	: A COMPARATIVE STUDY OF LEVOBUPIVACAINE AND BUPIVACAINE - 0.5% 0.5% IN EPIDURAL ANAESTHESIA IN ELECTIVE LOWER LIMB SURGERY SIM
11.	Post Graduate Teaching experience (Attach documentary evidence)	: ATTACHED
12.	Any other relevant information	: POSTER PRESENTATION - KISACON - 2014 E-PAPER - PAIN SYMPTOM - ISA CON - 2015 POSTER PRESENTATION - (ITICARE-2017)

- Note:**
- Unit wise teaching / Resident staff should be shown separately for each Unit in the Proforma.
 - Use only the Format provided. DO NOT devise your own format otherwise the information will not be considered. Fill up all columns.
 - Publications: Give only full articles in indexed Journals published during the period of promotion and list them here only. No Annexure will be seen.
 - In case of DNB qualification name of the institution/hospital from where DNB training was done and year of passing must be provided. Simply saying National Board of Examinations, New Delhi is not enough. Without these details DNB qualification holder will be summarily rejected.
 - Experience of Defense services must be supported by certificate from competent authority of the office of DGAFM without which it will not be considered.

I have verified the eligibility of all faculty members for the post they are holding (based on experience certificates issued by competent authority of the place of working). Their experience details in different Designations and unit wise distribution is given the faculty table above.

FOR ANTRANG MEDICAL RESEARCH
FOUNDATION PVT. LTD

Date :- 26.10.2021

DIRECTOR

Sign. of Teaching Staff

FOR ANTRANG MEDICAL RESEARCH
FOUNDATION PVT. LTD

Countersigned & Stamp by Head of Institute

DIRECTOR

Date :- 26.10.2021

Sign. of Head of Institute

Annexure - II

**Professional/Teaching Experience Certificate for Fellowship/Certificate
Courses Faculty/Teachers/Consultant/Mentor**

Title of the Course applied for :-

This is to Certify that Dr. MANISHA .A. KULKARNI has worked in the Department of ANTRANG HOSPITAL, KOLHAPUR College / Institutes as per following details.

A) General Experience:- 12 YEARS OF ACADEMIC EXPERIENCE

Designation	From	To	Total period Year / Month
<u>MBBS MD</u>	<u>2007 2013</u>	<u>2013 2016</u>	<u>5 1/2 Yr 3 Yr</u>
<u>ICU REGISTRAR</u>	<u>09-08-2016</u>	<u>18-03-2017</u>	<u>6 Months</u>
<u>CONSULTANT ANAESTHETIST</u>	<u>01-04-2018</u>	<u>TILL DATE</u>	<u>3 Years 5 months</u>

B) Actual Experience in the Subject of concerned Fellowship/Certificate Course applied for :-

Designation	From	To	Total period Year / Month
—	—	—	—
—	—	—	—

(It is mandatory to attach self-attested Photocopy of the Experience Certificate of each Mentor in the Subject of concerned Fellowship/Certificate Course)



**Sign & Stamp
Head of the Department**

Date: 26.10.2021

**Sign & Stamp FOR ANTRANG MEDICAL RESEARCH
Dean/Principal/Head of Institution PVT. LTD.**

Date: 26.10.2021

Heaven
DIRECTOR

Recommended/Not Recommended

Signature with date of LIC Chairman/Member

ಕೆ.ಸಂ. 0150530



ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ
ಕರ್ನಾಟಕ



RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES
KARNATAKA

ಡಾ|| ಮನೀಷಾ ಮೋಹನ್ ಶಿವಮೊಗ್ಗಿ

ಕವಯಿತ್ರಿ, ಪ್ರವಚನಕಾರ್ತೃ, ಲೇಖಕಿ ಮತ್ತು ಅಧ್ಯಾಪಕಿಗಳಾಗಿ

ಡಿಸೆಂಬರ್ 2011 ರ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಪಾಠ್ಯಕ್ರಮವೆರಬೇಕು ದೃಢೀಕರಿಸುತ್ತಾ

ಬ್ಯಾಚುಲರ್ ಆಫ್ ಮೆಡಿಸಿನ್ ಅಂಡ್ ಬ್ಯಾಚುಲರ್ ಆಫ್ ಸರ್ಜರಿ

ವ್ಯಾಪಾರ್ಯಾಪ್ತಿ, ಖಲಾಫತ, ಸಮಕುಲಾಫತ, ಏಲವತ ಪಾಠ್ಯಕ್ರಮ ಸೆನೆಟ್ ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರುಗಳಿಂದ

ನಾವು **ಶಾನ್ತಿ ಮಾರ್ಚ್ ೨೦೧೩** ರಂದು ನಡೆಸಿದ **೧೩** ನೇ ಘಟಕೀಯವರದಿ

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯಡಿ **ಪವಾನ ಮಾಡಿದ್ದೇವೆ**

We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and the members of the Senate and the Syndicate confer

BACHELOR OF MEDICINE & BACHELOR OF SURGERY

on

Dr. MANISHA MOHAN SHIVAMOGGI

in recognition of fulfillment of the requirements for the said

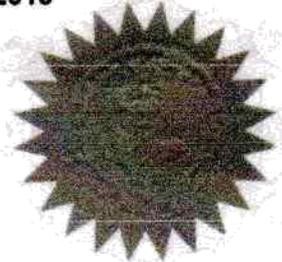
*Degree in the examination held during **DECEMBER 2011***

Given under the seal of the University, in the

15th Convocation held on 25th March 2013



Vice-Chancellor



Bengaluru Date : 25/03/2013

ಕ್ರ.ಸಂ. 048278



ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ
ಕರ್ನಾಟಕ



RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES
KARNATAKA

ಡಾ|| ಮನಿಷಾ ಮೋಹನ್ ಶಿವಮೊಗ್ಗಿ

ರವರು, ಸ್ನಾತಕೋತ್ತರ ಪದವಿಗೆ ಯಥಾ ಯೋಗ್ಯವಾದ ಅವಶ್ಯಕತೆಗಳನ್ನು
ಜೂನ್ 2016 ರ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಪೂರೈಸಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ

ಡಾಕ್ಟರ್ ಆಫ್ ಮೆಡಿಸಿನ್ (ಆನೆಸ್ತೀಸಿಯಾಲಜಿ)

ಸ್ನಾತಕೋತ್ತರ ಪದವಿಯನ್ನು ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ ಹಾಗೂ ಸೆನೇಟ್ ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರುಗಳಾದ
ನಾವು 06ನೇ ಏಪ್ರಿಲ್ 2017 ರಂದು ನಡೆದ 19 ನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ಪ್ರದಾನ ಮಾಡಿದ್ದೇವೆ.

*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and the
members of the Senate and the Syndicate confer*

DOCTOR OF MEDICINE (ANAESTHESIOLOGY)

on Bengaluru

Dr. MANISHA MOHAN SHIVAMOGGI

*in recognition of fulfillment of the requirements for the said
Post Graduate Degree in the examination held during JUNE 2016
Given under the seal of the University, in the
19th Convocation held on 06 April 2017*



*Dr. K.S. Ravindranath
Vice Chancellor*

Bengaluru Date : 06/04/2017

012716087

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
GOVERNMENT OF KARNATAKA

0037041

100565926



ಕರ್ನಾಟಕ ಪ್ರೌಢ ಶಿಕ್ಷಣ ಪರೀಕ್ಷಾ ಮಂಡಳಿ

Karnataka Secondary Education Examination Board



ಪ್ರಮಾಣ ಪತ್ರ
Certificate

DISTINCTION

ಈ ಕೆಳಗೆ ನಮೂದಿಸಿದ ಅಭ್ಯರ್ಥಿಯು ಎಸ್.ಎಸ್.ಎಲ್.ಸಿ. ಪರೀಕ್ಷೆಯಲ್ಲಿ ಕೆಳಗಿನ ವಿವರಗಳೊಂದಿಗೆ ತೇರ್ಗಡೆಯಾಗಿದ್ದಾನೆ/ವ್ಯಾಲಿ ಎಂದು ಪ್ರಮಾಣೀಕರಿಸಲಾಗಿದೆ.

This is to certify that the candidate mentioned below has PASSED S.S.L.C. Examination with the following details.

ನೋಂದಣಿ ಸಂಖ್ಯೆ Register No. :	20050719851	ತಿಂಗಳು/ವರ್ಷ Month/Year :	MARCH-2005	ಶಿಕ್ಷಣ ಮಾಧ್ಯಮ Medium of Instruction	ENGLISH
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ಹೆಸರು Name **MANISHA MOHAN SHIVAMOGGI**

ತಾಯಿಯ ಹೆಸರು Mother's Name **NANDA**

ತಂದೆಯ ಹೆಸರು Father's Name **MOHAN**

ಜನ್ಮ ದಿನಾಂಕ
Date of Birth **19-06-1989 NINETEENTH JUNE NINETEEN EIGHTY-NINE**

ವಿಷಯಗಳು SUBJECTS	ಅಂಕಗಳು MARKS		ಪಡೆದ ಅಂಕಗಳು MARKS OBTAINED	ಪಡೆದ ವರ್ಗ (ಕ್ಲಾಸ್) CLASS OBTAINED
	ಗರಿಷ್ಠ MAX.	ಕನಿಷ್ಠ MIN.		
ಪ್ರಥಮ ಭಾಷೆ/ FIRST LANGUAGE : SANSKRIT	125	44	124	<ul style="list-style-type: none"> * ಈ ಪರೀಕ್ಷೆಯಲ್ಲಿ 80% ಮತ್ತು ಅದಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಅಂಕಗಳನ್ನು ಪಡೆದವರು ಡಿಸ್ಟಿಂಕ್ಷನ್ ವರ್ಗಕ್ಕೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆ. * ಮೊದಲ ವರ್ಗ : 80% ಮತ್ತು ಅದಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಅಂಕಗಳನ್ನು ಪಡೆದವರು. * ದ್ವಿತೀಯ ವರ್ಗ : 75% ಮತ್ತು ಅದಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಅಂಕಗಳನ್ನು ಪಡೆದವರು. * ಮೂರನೇ ವರ್ಗ : 60% ಮತ್ತು ಅದಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಅಂಕಗಳನ್ನು ಪಡೆದವರು. * ಮೊದಲ ವರ್ಗ : 80% ಮತ್ತು ಅದಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಅಂಕಗಳನ್ನು ಪಡೆದವರು. * ಡಿಸ್ಟಿಂಕ್ಷನ್ : 85% AND ABOVE * FIRST CLASS : 80% AND ABOVE BUT BELOW 85% * SECOND CLASS : 75% AND ABOVE BUT BELOW 80% * CLASS IS DECLARED FOR THOSE WHO PASS IN FIRST ATTEMPT ONLY. * PASS IN EXAMINATION * 30% MIN. IN EACH SUBJECT AND 35% IN THE AGGREGATE
ದ್ವಿತೀಯ ಭಾಷೆ/ SECOND LANGUAGE : ENGLISH	100	35	092	
ತೃತೀಯ ಭಾಷೆ/ THIRD LANGUAGE : KANNADA	100	35	100	
ಗಣಿತ/ MATHEMATICS	100	35	100	
ವಿಜ್ಞಾನ/ SCIENCE	100	35	097	
ಸಮಾಜ ವಿಜ್ಞಾನ/ SOCIAL SCIENCE	100	35	096	
ಒಟ್ಟು ಅಂಕಗಳು/ TOTAL	625	219	609	DISTINCTION (97.44%) AN100

ಪಡೆದ ಅಂಕಗಳು (ಅಕ್ಷರಗಳಲ್ಲಿ)
TOTAL (In words) **SIX HUNDRED NINE ONLY**

ಶಾಲೆಯ ಹೆಸರು ಮತ್ತು ವಿಳಾಸ
NAME OF THE SCHOOL & ADDRESS
B.E.L. HIGH SCHOOL
JALAHALLI

Handwritten signature



RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA

BANGALORE - 560 041

ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

ಬೆಂಗಳೂರು - 560 041

STATEMENT OF MARKS

Sl. No.: A.A.- 165774

PHASE - III, PART - I M.B.B.S (RS2) EXAMINATION
DECEMBER - 2010

Register Number **07M1861**

Name of the Student: **MANISHA MOHAN SHIVAMOGGI**

Sl. No	Subjects	University Examination						Grand Total		Remarks	
		Theory / Practicals		Viva		I.A.		Max.	Sec.		
		Max.	Sec.	Max.	Sec.	Max.	Sec.				
01	COMMUNITY MEDICINE	Th. 200 Pr. 080	128 060	040 060	031 031	060 020	043 016	0300 0100	0202 0076	PASS	
02	OPHTHALMOLOGY	Th. 100 Pr. 080	065 059	020 059	014 014	030 020	019 016	0150 0100	0098 0075	PASS	
03	OTORHINOLARYNGOLOGY	Th. 100 Pr. 080	066 050	020 050	013 013	030 020	022 013	0150 0100	0101 0063	PASS	
GRAND TOTAL								0900	0615		1ST CLASS

Min to Pass: 50% in Theory aggregate, 50% in Practical aggregate
35% in Internal Assessment Marks, 50% in Subject aggregate

Total marks obtained: **SIX HUNDRED FIFTEEN**
(in words)

Name of the College: **M.S. RAMAIAH MEDICAL COLLEGE**
BANGALORE

Date: **19/03/2011**

Registrar (Evaluation)



RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA

BANGALORE - 560 041

ರಾಜೀವ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ

ಬೆಂಗಳೂರು - 560 041

STATEMENT OF MARKS

SI. No.: A.A.-111932

PHASE - II M.B.B.S (RS2) EXAMINATION

DECEMBER - 2009

Register Number

07M1861

Name of the Student: **MANISHA MOHAN SHIVAMOGGI**

Sl. No.	Subjects	University Examination						I.A.		Grand Total		Remarks
		Theory / Practicals		Viva		Max.	Sec.	Max.	Sec.	Max.	Sec.	
		Max.	Sec.	Max.	Sec.							
01	PATHOLOGY	Th. 200 Pr. 080	136 056	040	029	060 020	045 018	0300 0100	0210 0074		Pass	
02	MICROBIOLOGY	Th. 200 Pr. 080	124 064	040	030	060 020	045 016	0300 0100	0199 0080		Pass	
03	PHARMACOLOGY	Th. 200 Pr. 080	120 062	040	033	060 020	049 015	0300 0100	0202 0077		Pass	
04	FORENSIC MEDICINE	Th. 100 Pr. 040	056 033	020	016	030 010	024 008	0150 0050	0096 0041		Pass	
GRAND TOTAL								1400	0979		1ST CLASS	

Min to Pass : 50% in Theory aggregate, 50% in Practical aggregate
35% in Internal Assessment Marks, 50% in Subject aggregate

Total marks obtained: NINE HUNDRED SEVENTY NINE (in words)

Name of the College : M.S. RAMAIAH MEDICAL COLLEGE
BANGALORE

Date : 04/03/2010

Registrar (Evaluation)



UNIVERSITY OF HEALTH SCIENCES, BANGALORE - 560 041
 ರಾಮೇಶ್ ಗಾಂಧಿ ಆರೋಗ್ಯ ವಿಜ್ಞಾನಗಳ ಏಶ್ಯವಿದ್ಯಾಲಯ, ಕರ್ನಾಟಕ
 ಬೆಂಗಳೂರು - 560 041

STATEMENT OF MARKS

SI. No.: A.A.- 025958

PHASE - I M.B.B.S (RS2) EXAMINATION
 JULY/AUGUST-2008

Register Number 07M1861

Name of the Student : MANISHA MOHAN SHIVAMOGGI

Sl. No.	Subjects	University Examination				I.A.		Grand Total		Remarks
		Theory / Practicals		Viva		Max.	Sec.	Max.	Sec.	
		Max.	Sec.	Max.	Sec.					
01	ANATOMY	Th. Pr.	200 080	132 065	040 032	060 020	050 018	0300 0100	0214 0083	Pass
02	PHYSIOLOGY	Th. Pr.	200 080	132 060	040 029	060 020	050 019	0300 0100	0211 0079	Pass
03	BIOCHEMISTRY	Th. Pr.	100 040	064 032	020 016	030 010	026 008	0150 0050	0106 0040	Pass
GRAND TOTAL								1000	0733	1ST CLASS

Min to Pass : 50% in Theory Aggregate, 50%
 35% in Internal Assessment Marks, 50% Subject Aggregate

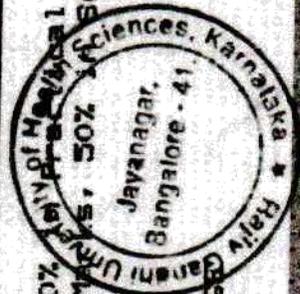
Total marks obtained:
 (in words)

SEVEN HUNDRED THIRTY THREE

Name of the College :

M.S. RAMAIAH MEDICAL COLLEGE
 BANGALORE

Date : 26/08/2008



[Signature]

Registrar (Evaluation)



Maharashtra Medical Council, Mumbai

Certificate of Registration

Registration No. 2018/07/3691

This is to certify that the withinsigned



Doctor (Ms.) **MANISHA MOHAN SHIVAMOGGI**

D/o. **SHIVMOGGI MOHAN** possessing the qualification **M.B.B.S.** of **RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA, 2013** has been duly registered in part **I** of the register under the Maharashtra Medical Council Act, 1965 (Mah. XLVI of 1965).

This certificate is valid upto **17/07/2023**.

In witness whereof are herewith affixed the Seal of the Maharashtra Medical Council, Mumbai & the Signature of the Registrar.



Dated the 17/07/2018

Registrar



23rd Annual Conference of Indian Society of Critical Care Medicine
3rd - 5th February 2017, Kochi, Kerala
STRIVING FOR AFFORDABLE CRITICAL CARE

Certificate

We certify that

Dr. MANISHA MADHAN SRIVANMOGGI

has presented a E-POSTER during the 23rd Annual Conference of Criticare held at Kochi.

Atul Kulkarni

Atul Kulkarni
National President

Pradip Kumar Bhattacharya

Dr Pradip Kumar Bhattacharya
General Secretary

Tham Mathew

Dr. Mohan Mathew
Organizing Chairman

Vinodan

Dr. Vinodan
Scientific Committee Chairman



KISACCON 2014



The 30th Annual Karnataka State Conference of the Indian Society of Anaesthesiologists
9th to 12th October, 2014
Hosted by: ISA Hubli-Dharwad City Branch
Organised by: Department of Anaesthesiology, SDM College of Medical Sciences and Hospital, Dharwad-580009

Certificate
This is to certify that

Dr. Manisha Mohan Shivamoggi bearing medical Reg. No. 99105

registered with Karnataka Medical council has presented a Free Paper / Award Paper / Poster
titled Ankylosing spondylitis: a rare case of successful neuraxial blockade by midline epidural and Taylor's approach

Co-Authors Hemant Kumar J during KISACCON 2014

S. Rangalakshmi

Dr. S. Rangalakshmi
President
ISA, Karnataka State

Dr. Shyamsunder Kamath

Dr. Shyamsunder Kamath
Organising Secretary
Department of Anaesthesiology
SDMCMS&H, Dharwad

Dr. Harihar Hegde

Dr. Harihar Hegde
Scientific Committee Head
Department of Anaesthesiology
SDMCMS&H, Dharwad

Veerabhadraiah T A

Dr. Veerabhadraiah T A
Observer
Karnataka Medical Council
Bangalore

63rd Annual National Conference of Indian Society of Anaesthesiologists



63rd ISACON
Jaipur | 2015

25-29 December, 2015

B.M. Birla Auditorium and Convention Centre, Jaipur

Certificate of Participation

This is to certify that

Dr Manisha Mohan Shivamoggi

Presented a paper titled

**A COMPARATIVE STUDY OF LEVOBUPIVACAINE 0.5%
AND BUPIVACAINE 0.5% IN EPIDURAL ANAESTHESIA
IN ELECTIVE LOWER LIMB SURGERIES IN ADULTS**

During

63rd Annual National Conference of Indian Society of Anaesthesiologist

ISACON 2015 at Jaipur, 26th to 29th December 2015

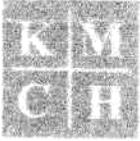
Rajasthan Medical Council has granted 8 Credit Hours
(Ref No. RMC/CME/2015/6653 & 6654 dated 14/8/2015)

Co-Authors: Dr. VIJAYANAND S Dr. ASHWINI A

Dr S S Harsoor
President ISA National

Dr Venkata Giri K M
Secretary ISA National

Dr S S C Chakra Rao
Chairman Central Scientific



KOVAI MEDICAL CENTER AND HOSPITAL LIMITED

NABH Accredited Hospital

Excellence in Healthcare

Post Box No. 3209, Avanashi Road, Coimbatore - 641 014, INDIA | Phone : (0422) 4323800
Fax : (0422) 2627782 | Web : www.kmchhospitals.com | CIN No : L85110TZ1985PLC001659



3.06.17

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **DR. MANISHA MOHAN SHIVAMOGGI** has been working in this ICU as a Registrar from 09.08.2016 to 18.03.2017. Kovai Medical Center is a 750 bed multi speciality, NABH accredited tertiary care Hospital. ICU has 15 Medical and 15 Surgical ICU beds and well supported by two Cardiac and Neuro Critical Care step down units of 10 bed each. ICU is a semi closed unit lead by full time intensivists, supported by dedicated Registrars and JMOs.

During her tenure here, **DR. MANISHA MOHAN SHIVAMOGGI** is trained well in Basic assessments, monitoring and management of complex polytrauma, envenomation, toxin ingestion, Acute Coronary Syndrome, ARDS, Acute stroke and infectious diseases.

She is well versed with insertion and interpretation of IAP, CVP and Respiratory Monitoring like ventilator graphics and arterial Blood gas analysis. She has assisted procedures like swanganz, Bronchoscopy and Tracheostomy. She has also handled both inter and intra hospital transport of critically ill patients.

DR. MANISHA MOHAN SHIVAMOGGI is also trained in Basic Life Support, Advanced Life Support and Trauma Life Support systems. She is sincere, dedicated and hard working. She has pleasing manners and maintains a cordial relationship with her colleagues and seniors. She possesses an excellent conduct and character. I wish her success in all her future endeavors.

M. N. Shivakumar

DR. M.N.SIVAKUMAR
(CONSULTANT INTENSIVIST & ICU IN CHARGE)





ANTRANG HOSPITAL

A Complete G.I. Care Centre

EXPERIENCE LETTER

Ref.-AH/HR/19-20/EL-26

Date: 25-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Dr.Manisha Aditya Kulkarni is working as a "**consultant Anesthetist**" from 1st April 2018 to Till Date.

During the tenure of services with us her performance is good.

She is knowledgeable, hardworking & disciplined.

Mrs.Meenakshi Lavekar
HR MANAGER

FOR ANTRANG MEDICAL RESEARCH
FOUNDATION PVT. LTD

Dr.Vivekanand Kulkarni
DIRECTOR



A COMPARATIVE STUDY OF LEVOBUPIVACAINE 0.5% AND BUPIVACAINE 0.5% IN EPIDURAL ANAESTHESIA IN ELECTIVE LOWER LIMB SURGERIES IN ADULTS

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ABSTRACT

BACKGROUND

Bupivacaine produces fatal cardiotoxic and neurotoxic effects following accidental intravascular injection due to its R (+) enantiomer. Levobupivacaine, the pure S (-) enantiomer of bupivacaine, is found to be less toxic than its racemic parent and might be a safer alternative.

The aim of this study was to compare the efficacy of Levobupivacaine 0.5% and Bupivacaine 0.5% in epidural anaesthesia in elective lower limb surgeries in adults with respect to onset and maximum dermatomal level of sensory blockade, duration of analgesia, onset, intensity and duration of motor blockade, haemodynamic parameters and perioperative complications.

Settings and Design- A prospective, randomised, comparative study.

MATERIALS AND METHODS

A study was conducted on 60 ASA I-II patients, aged 18 - 60 years of either sex posted for elective lower limb surgeries after ethical clearance and patient's written informed consent. The patients were assigned randomly (using computer generated randomisation) to receive epidurally either 12 mL of bupivacaine 0.5% as Group B (n= 30) or to receive 12 mL of levobupivacaine 0.5% as Group L (n= 30). Onset and maximum dermatomal level of sensory blockade, duration of analgesia, onset, intensity and duration of motor blockade and haemodynamic parameters were assessed. Perioperative complications were identified and treated accordingly. Study concluded when the patient first complained of pain.

Statistical Analysis- The study was analysed by Chi-square and student's 't' tests ($p < 0.05$: statistically significant) and by using SPSS (Ver. 10.0.5) package.

RESULTS

The time of onset of motor blockade was prolonged in Group L when compared to Group B (B- 16.50 ± 2.921 min and L- 19.60 ± 4.889 min; $p = 0.004$). The intensity of motor blockade was greater in Group B when compared to Group L (B- 2.17 ± 0.379 and L- 1.93 ± 0.450 ; $p = 0.034$). No statistically significant difference was noted in terms of onset and maximum dermatomal level of sensory blockade, duration of analgesia, duration of motor blockade, haemodynamic parameters and perioperative complications between both the groups.

CONCLUSION

Levobupivacaine 0.5% could prove to be a good alternative, as it produces a sensory blockade, haemodynamic and side effect profile equivalent to Bupivacaine 0.5% in lower limb surgeries. In terms of motor blockade, the onset is delayed and is less dense with levobupivacaine as compared to bupivacaine but with a similar duration.

KEYWORDS

Epidural Anaesthesia; Bupivacaine; Levobupivacaine; Lower Limb Surgeries; Clinical Efficacy.

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BACKGROUND

Epidural anaesthesia is a versatile regional anaesthetic technique widely used in practice, which over spinal anaesthesia has the advantages such as it provides effective surgical anaesthesia which can be prolonged with postoperative

analgesia, segmental blockade and better haemodynamic stability.^{1,2} Different local anaesthetics are used for epidural anaesthesia namely lignocaine, bupivacaine, ropivacaine and now levobupivacaine.

Bupivacaine is a long-acting local anaesthetic, which shows good motor/sensory separation.³ It has a chiral centre in its structure and hence exhibits stereoisomerism. It is available in a commercial preparation as a racemic mixture (50:50) of its two enantiomers, levobupivacaine S (-) isomer and dextrobupivacaine R (+) isomer. While these two molecules have identical physicochemical properties, they have distinct pharmacological and toxicological effects.⁴ Although, bupivacaine has been safely used in regional anaesthesia for many years, fatal cardiotoxic and neurotoxic effects which have been linked to its R (+) isomer may be seen following its accidental intravascular injection. Therefore, pure S (-) enantiomers of bupivacaine, i.e.

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