

MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC Sector-1, Kamothe, Navi Mumbai - 410209 Tel. No. 022-27432471, 022-27432994, Fax No. 022 - 27431094 E-mail: registrar@mgmuhs.com; Website: www.mgmuhs.com

PERFORMANCE APPRAISAL FORMAT FOR TEACHER'S

(Academic Year: July 1st 2018 - June 30th 2019)

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× .	1.	Date of joining th	is Institute:			*		
)			Before 1 st July 20 Between 1 st July Between 1 st Janua	2018 - 31st Dec				
2	2.	Name of the Teac	her:					
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6	•	Present Designation	on: Profess	or	V	1		
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8.		a. Total Teaching	Experience post PG as on 3	0 th June 2019:	14 Years 9	_Months		w
	×	b. University App	roval as a teacher (UG/PG/I	PhD) (Please at	ach attested photoc	opy of appro	val letter);	
				T	Yes/No	1 .		
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0. Health S	Science Education Tec	hnology related eve	nt participation: Yes/No; If	Yes (Provide details):	
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•	Intellectual Property Rights (IPR):		NJ	_(Attach details, If any)
•	Start ups:	NJ	(Attach details, If any)	
	Projects: (Please men	tion number of Proje	ects in the table)	

Page 2 of 5

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13. Gu	est Lectures/	Orations delivered:				
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14. Res	source persor	at Workshops/CME/S	Seminar/Symposium/	Panel D	iscussion: (attach certifica	ite copy)
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15. Fac	ulty Develop	ment Program (Acade	mic Skills/Soft Skill	s/Admin	istrative Skills etc.) attend	led: Yes/No ;
If Y	es, Give det	ails:	and Colo	G 131	workshop AGA	MC April 201
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16. Cor	ntribution/sug	gestions given for im	provement in teachi	ng learn	ing process for discussion	MAMIHS as in Board of
Stud	dies meeting	s of the University:	res/No; (If Yes,	Give att	ach an undertaking to the	is effect from
		Chairperson)	10 to 0		-	
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17. Other responsibilities & activities during last academic year: (Please attach relevant proof / Certificates)

Participation as	Activity details	Achievements w	ith documentary proof
Mentorship details / an significant finding	& interactions -Uh	Name of the men	tees assigned to you (Attach Time Dental IHS Yerla Dental
Examiner / Paper sette Moderator	Pappur Setter is Moo	lifeton 1991	atil - MD Examine
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Any other Administrat Commitment	BOS (Para- 1)	Unicel) - C	Laurpuson (Committe, Dentel Co
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Member of organizing committee of Institute I conference/CME/ etc)	evel Organizing	Con mitte	, GCPWnbshap
b) Teaching: PG L c) Preparation of Le	ng last academic year: (Mention "act Lectures <u> </u>	's, Journa ; If yes Topic:	Nembu, Innovelna al Club/Seminar/others In what s(Nursing) A Bos(Physiothrepy) - N
a) Indicate what %	your performance during last acade of your total time (during woromains AND mance on a scale of 0 to 5 in follow ("0" being the lowest and "5" being	king hours) is gen	,
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b) Rate your perform	Responsibilities/Domain Teaching	50%	4

21. Membership / Office Bearer of professional bodies: (mention only those which you acquired during last academic year)

Reviewer of Indian Journal

of Pharme cology, IPS I Indian Pharme colognal.

Society)

Page 4 of 5

22. Any other information which you would like to share /disclose:
s Certificate of Parti a pation, Design Competition— 22 nd to 26 th feb, 2019, Innovation + I neubalin Centre, MGMIHS, Navi Neumbai
23. Any other special training undertaken during last academic fear): (Please attach relevant proof certificates)
→ SPSS Training from 8th Func to 10th Aug 2018 O CISP in METTVaining from 20th to 22 hd Feb 2019
24. Plagiarism incidence/Disciplinary action against you (If any) in last academic year:
25. Contribution to the Institution in the last academic year: 1. Medical Book/Literature/ Manuscript/ Rare Book: 2. Donation: 3. Represented the institute in culture/sport/other activity):
26. One Strength/Talent/Ability which you possess and wish to be utilized for the institutional growth:
Total days present for teaching [excluding all kind of leaves (Sunday/Public holidays/Vacation/CL/SL/EL/Other leaves): 252/365 If present on non-instructional days (Please Tick): August 15 October 2 January 26
I solemnly declare that, the above information furnished is true and correct to the best of my knowledge.
May , 4/a/1
Date: (Signature of Teacher)

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INDIAN COUNCIL OF MEDICAL RESEARCH ANSARI NAGAR, NEW DELHI –110029.

No. 5/4/1-7/19-NCD-II

Date: 30-8-19

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The Dean MGM Medical College, Sector-18 Kamothe, Navi Mumbai410 209

Subject: - " Randomized controlled study to assess effectiveness and acceptability of mobile app based interventional tool for cardiovascular disease self-management and risk factor control among diabetic patients" under Dr. Ipseeta Ray Mohanty, Mumbai.

Sir,

The Director-General of the Council sanctions the above mentioned research scheme initially for a period of one year from 01-09-2019 subject to extension upto the total duration specified in para 3(3) below.

The Director-General of the Council also sanctions the budget allotment of Rs. 11,26,750/-(Rupees cleven lakh twenty six thousand seven hundred fifty only) as detailed in the attached statement for the period ending the 31-08-2020.

The grant-in-aid will be given subject to the following conditions:-

- The payment of the grant will be made in lump-sum to the head of the Institution. The first 1. instalment of the grant will be paid generally as soon as a report regarding the commencement of the project and appointment of the staff is received by the Council. The demand for payment of the subsequent instalment of the grant should be placed with the Council in the prescribed proforma attached.
 - 2. The staff appointed on the project should be paid as indicated in the budget statement attached.
 - 3. The approved duration of the scheme is 3 years. The annual extension will be given after review of the work done on the scheme during the previous year.
 - 4. A report on the progress made will be submitted to the Council as and when called for.
 - 5. The Institute will maintain a separate account of the receipts and the expenditure incurred on the scheme and will furnish a utilization certificate and an audited statement of account pertaining to the grant.

PTO



- 6. The other terms and conditions are indicated in Annexure-1
- 7. The Host Institute shall utilize the grant after following the provisions laid down in the GFRs 2017 and T. A. Rules.
- 8. The Pl may be advised to keep the fund in a separate Saving Bank Account opened for research funds received from ICMR so as to ensure that interest earned thereon is also credited in to the Fund Account.

The receipt of this letter may please be acknowledged.

Yours faithfully,

(Ishwar Likhar) Admn. Officer for Director-General

This issue with the concurrence of Finance Section vide RFC No. NCD/Adhoc/70/2019-20 dated 30/8/19

No.5/4/1-7/19-NCD-II

- 1. Copy together with a copy of the budget statement forwarded for information to Dr. Ipseeta Ray Mohanry, Professor, Pharmacology, M. G. M. Medical College, Sector-18 Kamothe, Navi Mumbai-410 209.
- 2. Copy together with a copy of the budget statement forwarded to the Accounts Section for information and necessary action.
- 3. Copy together with a copy of the budget statement forwarded to the **Budget Section** for compilation of the Council's budget.
- 4. IRIS Code Number (2019-0502)
- 5. A.O., NCD.
- 6. Mr. Hemnat Kumar, Sr. T. O., ICMR, New Delhi

For Director-General



Budget Statement for the period (01-09-2019 to 31-08-2019)

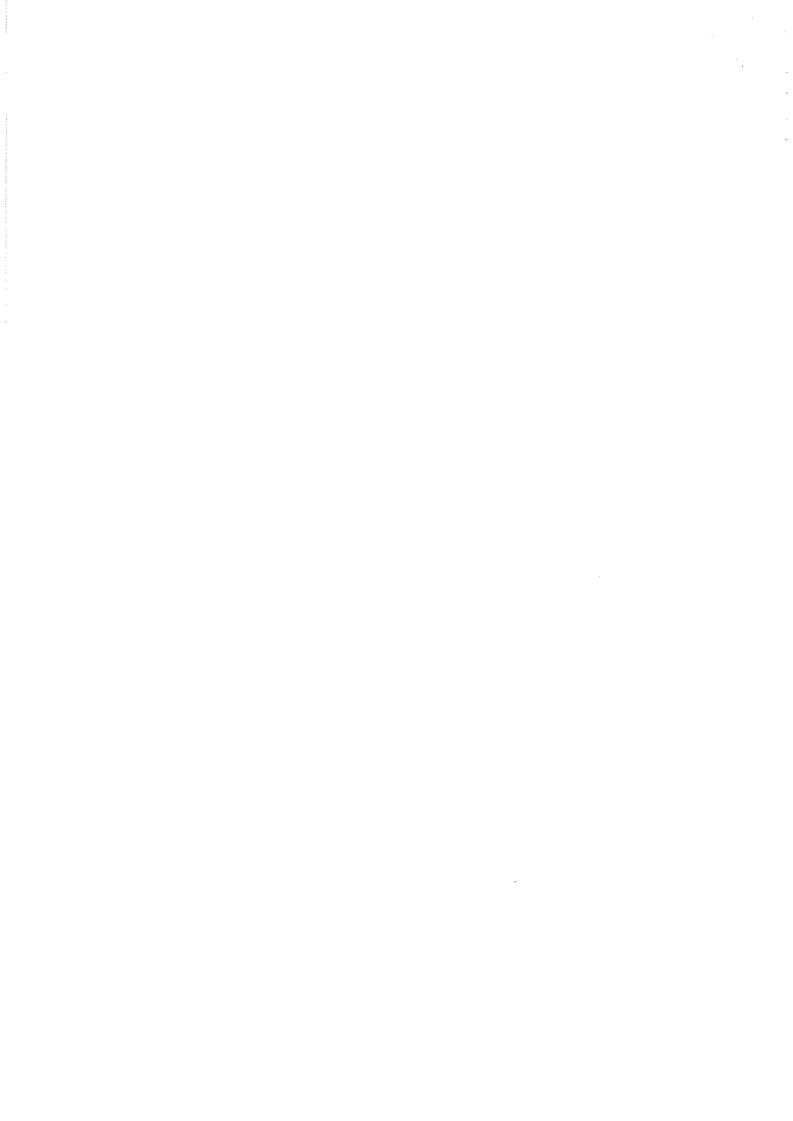
No. 5/4/1-7/19-NCD-II

Date: 30-8-19

Subject: - "Randomized controlled study to assess effectiveness and acceptability of mobile app based interventional tool for cardiovascular disease self-management and risk factor control among diabetic patients" under Dr. Ipseeta Ray Mohanty, Mumbai.

Staff .	1 st year (Rs.)
Contingency (Recurring)	
Contingency	25,000
Investigation Rs 3000/-per patients (3 time points 0&3 and 6 months) Total patients =300 total cost=300X3000=900000/- Dyslipidemia Lipid profile (TG, LDL, HDL, TC) Atherogenic index (Rs 400/- test) Glycemic control Fasting blood sugar, Glycosylated –Rs 100/- test hemoglobin Rs 500/- test Hemostasis High-sensitivity C- reactive protein Rs 500/- test Apolipoprotein A Rs 500/- test	400000
Apolipoprotein B1 Rs 500/- test Patient follow up and stationary	50000
Data entry and analysis	60000
Total (A.)	535000/-
Overhead Charge (5%) (B)	26750/-
Non-Recurring (Equipment)	
Digital BP Measurement apparatus	10000
Body Composition monitor	40000
Healthy heart mobile app development online version	500000
Total (C)	550000/-
(B) Travel	15000
Total (A+B+C+D)	11,26750/-
	1400

(Rupees eleven lakh twenty six thousand seven hundred fifty only)



TERMS AND CONDITION OF THE GRANT

- i) Approval of the research proposal and the grant being released is for the specific project sanctioned and should be exclusively spent on this project within the stipulated time.
- Expenditure should be on no account exceed the budget sanctioned for the enquiry. Expenditure incurred over the above the sanctioned amounts against one or more sub-heads of expenditure such as pay, allowances, contingencies etc, shall be met without reference to the ICMR, by re-appropriation of savings under remaining sub-heads provided by re-appropriation of incurred during the financial year is within the over all sanctioned ceiling of that year.
- No expenditure shall be incurred on items not sanctioned by the Council. Savings should also not be re-appropriated for meeting or incurring expenditure on staff that has not been sanctioned by the council.
- iv) The grant paid by the Council shall be refunded in full by the Institution if and when the grantee concerned discontinues a scheme midway or does not follow the detailed technical programme laid down and approved.
- v) Receipts realised by the project officer and the sale proceeds, if any, will be remitted to the Council as miscellaneous receipts and should not be utilized for meeting expenditure on the scheme.
- vi) All facilities for the conduct of the research scheme basic equipment and other ordinary laboratory chemicals, glass ware, furniture and other help as may be required for the smooth working of the scheme shall be provided by the institute.

Staff.

- vii) The staff employed on the research scheme will not be treated as employees of the Council and the deployment of such staff at the time of completion or termination of the project will not be the concern/responsibility of the Council. They will be subjected to administrative control of the Institution and will be appointed generally in accordance with the normal recruitment rules and procedure of the Institute.
- viii) The Council will not be liable to bear any expenditure on pension/provident fund contribution and/or leave salary contribution incurred and committed by the grantee Institution for persons appointed on deputation from another organizations.
- viii (A) An undertaking on part-I (specimen attached) (Appendix 'A') to be obtained from the Head of the Institute where extra-mural project funded by ICMR are being sanctioned, may be sent to Council. The second part of the U.K. to be obtained from each employees, by the Principle Investigator:

No grant will be released unless the undertaking is receive by us sufficiently in advance to consider any release.

^{*} undertaking



Release of funds

- The first installment of the grant will be paid as soon as a report regarding the commencement of the project and appointment of staff is received by the Council. The Demand for payment of subsequent installments of the grant should be placed with the Council in the prescribed form (Appendix 'B').
- The institute will maintain separate audited account for this project. If it is found expendient. Keep a part of whole of the grant in a back account earning interest, the interest thus earned should be reported to the Council. The interest thus earned will be treated as a credit to be adjusted towards further installment of the grant.
- The accounts will be subject to audit by the authorized auditor of the Institutions. In case, facilities are not available for such auditing, the account will be audited by the Council's own internal auditors. Latest by the end of December, following the financial year for which the grand is paid, an audit certification from, the auditors to the effect that "the accounts have been audited and that the money was actually spent on the objects for which it was sanctioned" shall be submitted to the Council.
- xii) Further grants will be stopped unless audited statements of accounts, utilization certificates are received within a period of one year after the end of the financial year for which grant was sanctioned.

Stores:

All expendable and non-expendable articles required for work of the enquiry should be purchased in accordance with the procedure in vogue in the institution. For permanent and semi-permanent assets acquired solely or mainly out of the grant, a separate audited record in the form of register in the prescribed Performa enclosed shall be maintained by the Institute. The term "assets means (1) immovable property and (ii) movable property of capital nature where the value exceeds Rs. 1,000/-. Separate assets registers for items costing Rs. 20,000/- or more and less than Rs. 20,000/- each item may be maintained. (Appendix "C").

For other stores purchased from the Council's grant, the Performa will be the same as is being used by the Institute.

All the assets acquired from the grant will be property of the Council and should, not without the prior sanction of the Council, be disposed of or encumbered or utilized for purpose other than those for which the grant has been sanctioned.



Publications

The financial assistance rendered by the council should be acknowledged in any published account of work for which the grant is given.

The council publishes own journal "Indian Journal of ('B') Medial research", In case, it is proposed to publish the papers based on the work done under the auspices of the Council in Journals other than the IJMR, the name of the journal in which it is proposed to publish the paper may please be intimated. A reprint of paper when published may please be sent to the Council for information and record.

Prior permission of the Council should be obtained before publication of any such papers in a foreign journal.

Patents

The Council shall have the right to make out patents in respect of inventions/discoveries make under a scheme/project financed by the council. The officer-in-charge or the staff employed on ICMR Schemes shall not apply or obtain patents for any invention/discovery made by them without prior approval of the council.

All patents will be registered with NDRC in the name of the Indian Council of Medical Research.

Termination of Enquiry:

Prior permission of the Council should be obtained if the investigator desires to discontinue the enquiry. The reasons for discontinuing the scheme should invariably be scated. The investigator should submit a complete and detailed report of the work done by him on the project till the date of relief.

Any unspent balance out of the funds given to the institute shall be refunded to the ICMR on termination of the scheme.

A final report is required to be submitted within one month from the date of termination of the enquiry.

A list (in duplicate) of non-expendable and expendable articles together with property registers and suggestions for disposal of the articles should be sent to the Council within a month from the date of termination of the enquiry.





Date: 07th June 2019

Attendance Certificate

This is to certify that Dr. Ipseeta Ray, Professor, Dept. of Pharmacology, MGM Institute of Health Sciences, Kalamboli, has conducted MD (Pharmacology) University Practical & Viva examination and Assessment of Theory answer books in subject of Pharmacology from 06th to 07th June 2019 at DY Patil Deemed-to-be University School of Medicine, Nerul, Navi Mumbai.

Thank you

Dr. Deepak Langade

Convener

Professor & Head, Dept. of Pharmacology

5th Floor, Medical College Bldg.

Plot No. 2, Sector-5, Nerul, Navi Mumbai 400 706

Maharashtra, INDIA

T: +91 22 2770 9218 / 2218 Extn.: 166; Cell: +91 99305 50009 Mail: deepak.langade@dypatil.edu; drdgl@hotmail.com

Web: www.dypatil.edu



Navi Mumbai 400 706 F: 91 22 3921 6038

Sector 5, Nerul T: 91 22 3921 5999

Maharashtra, India W: www.dypatilhospital.com

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Fwd: Selection of ICMR- Short Term Studentship (STS) 2019 application- reg.

From: shardul kamale (shardulpotter@gmail.com)

To: ipseetamohanty@yahoo.co.in

Date: Thursday, 16 May 2019 08:56 IST

------Forwarded message -------From:ICMR-STS<sts@bmi.icmr.org.in> Date: Fri, May 3, 2019, 9:54 AM

Subject: Selection of ICMR- Short Term Studentship (STS) 2019 application- reg.

To: <shardulpotter@gmail.com>

No: 21/1/2019-HRD-STS

MUST forward this E-mail to your guide.

Dear Students,

This is in reference to your application for ICMR- Short Term Studentship-2019 submitted ONLINE to the ICMR.

I am pleased to inform you that the DG, ICMR approves selection of your application for STS to carry out the proposed research work in any two months (between April to July, 2019) to work on the proposed STS research project. The award of Stipend Rs. 20,000/- and a Certificate is subjected to conditions and approval of your STS Report (to be submitted in October 2019) by ICMR. Kindly complete the research at the earliest, so that the Report can be prepared and submitted in time. (Report Submission guidelines are avaible at: http://14.139.60.56:84/Instuctions.aspx)

Please note that NO Report shall be considered/accepted after the last date i.e. 31st October 2019 (till 3:00 PM) only.

The research carried out by the student must be in compliance with ICMR's ICMR Ethical Guidelines for Biomedical Research on Human Participants, 2017 and National Ethical Guidelines for Biomedical Research Involving Children, which may be downloaded from ICMR website (http://www.icmr.nic.in/guidelines/ICMR_Ethical_Guidelines_2017.pdf) and http://www.icmr.nic.in/guidelines/National_Ethical_Guidelines for BioMedical_Research_Involving_Children.pdf

On completion of the studentship, a Report of the actual work done may please be submitted ONLINE as per detailed format and instructions specified on ICMR website.

IMPORTANT: It is advised that prior to writing/submitting the report, please go through the detailed Report Submission Guidelines/instructions given on ICMR-STS website.

In case of any queries, please send email to stshrd2017@gmail.com

Best wishes,

(Mrs. Harjeet Bajaj) Administrative Officer-STS (For Director General)

Important: Please inform the Dean/Principal of your Medical/Dental College regarding your selection for ICMR- STS 2019

This is an automated email. Please do not send reply to this email address.



Integrative Obesity and Diabetes



Research /Ayrifele

ISSNEY/OH-MILIER

Assessment of factors associated with poor glycemic control among patients with Type II Diabetes mellitus

Ashutosh A Kakade', Ipseeta R Mohantyi* and Sandeep Rai2

Department of Pharmacology, MGM Medical College, India

Abstract

Background: Glycemic control remains the major therapeutic objective for prevention of target organ damage and other complications arising from diabetes. In addition, elucidation of various determinants of poor glycemic control may contribute to a clearer understanding of modifiable antecedents of diabetes-related complications and help to achieve improved diabetic control and patient outcomes.

Method: Two hundred twenty patients of Type II diabetes mellitus were taken after Informed consent. Patients who fulfill Inclusion and Exclusion Criteria were participated for the study. A Case record form was administered to these patients, which included details regarding the socio-demographic, anthropometric, metabolic, disease profile and diabetes self-care practices of the Type II diabetic patients.

Result: Based on HbA1c values, majority of diabetic patients had poor glycemic control (91.8%) while only 8.2% Type II diabetic patients had good (ideal) glycemic control. Statistically significant difference (P = 0.044) was found between patients with good and poor glycemic control in relation with BMI (P = 0.044), central obesity (P < 0.001), dyslipidemia (P < 0.001) and diabetes self-care practices (glucose management (P = 0.003), dietary control (P = 0.006), sum scale (P = 0.028)].

Conclusion: Majority of Type II diabetic patients had poor glycemic control. Factors affecting glycemic control included BMI, central obesity, dyslipidemia and diabetes self-care practices (glucose management and dietary control).

Introduction

There is a rising trend in the prevalence of diabetes in India over recent years, and the number of people living with diabetes in India is expected to increase from 32.7 million in the year 2000 to almost 60 million by 2025 [1]. In India, only a few nationwide studies have been conducted on the prevalence of diabetes and its complications. Moreover, while the urban population has easier access to diabetes screening as well as health care facilities for its management, the rural areas have poor diabetes screening services, preventive and counselling facilities, and there is non-adherence to diabetic management guidelines, complicated by long distance travel to health services among several other problems [2].

The primary goal in the management of diabetes mellitus is to attend near-normal glycaemia. Glycosylated hemoglobin (HbA1c) is the primary target of glycemic control. HbA1c is formed by nonenzymatic covalent addition of glucose moieties to hemoglobin in red cells. Unlike blood glucose levels, HbA1c is the index that indicates the average blood glucose during the past 3 months and is little affected by day-to-day variations [3]. Glycemic control is always the major therapeutic objective for prevention of target organ damage and other complications arising from diabetes. Despite the evidence from large randomized controlled trials establishing the benefit of improved glycemic control in reducing microvascular and macrovascular complications, high proportion of diabetic patients remain poorly controlled [4]. Therefore, recognizing the determinants of poor glycemic control will contribute to a clearer understanding of modifiable antecedents of diabetes-related complications and help to achieve improved diabetic control.

In clinical practice, optimal glycemic control is difficult to obtain on a long-term basis because the reasons for poor glycemic control in Type II diabetes are complex. Both patient and health care provider related factors may contribute to poor glycemic control. A variety of factors are identified in influencing glycemic control including age, sex, education, marital status, BMI, smoking, diabetes duration, and type of medications [5]. However, the results are not consistent and, in most instances, more than half of the variance in HbA1c levels is not explained [6]. Therefore studies focused on determining the factors predominantly associated with poor glycemic control among Type 2 diabetics attending any particular hospital set up, are warranted so that appropriate interventions can be planned at the level of the patient, physician and Institute.

This kind of research into diabetes mellitus will provide useful insights into the current glycemic control of diabetic patients in our set up. Type II diabetic patients were classified as having good and poor glycemic control. Data on glycemic control pattern was linked to various measures of treatment modality (Oral Hypoglycemic agents, Insulin, OHA + Insulin), risk factors (Hypertension, Dyslipidemia,), socio-demographic (Age, Gender, Socio-economic status), metabolic (Lipid Profile), anthropometric (BMI, Waist Circumference), disease

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Key words: glycemic control, type ii diabetes mellitus, self-care practices, glycosylated hemoglobin

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²Department of Medicine, MGM Medical College, India



PubMed ∨		· 1

Format: Abstract

Full text links

Phytomedicine. 2019 Apr;57:158-165. doi: 10.1016/j.phymed.2018.09.195. Epub 2018 Sep 19.

TELSEVER A

Dipeptidyl peptidase IV Inhibitory activity of Terminalia arjuna attributes to its cardioprotective effects in experimental diabetes: In silico, in vitro and in vivo analyses.

Mohanty IR¹, Borde M², Kumar C S³, Maheshwari U⁴.

Author information

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- Department of Bioinformatics, School of Biotechnology and Bioinformatics, DY Patil 3 Deemed to be University, CBD Belapur, Navi Mumbai, India.
- Department of Pathology, MGM Medical College, Navi Mumbai, India. 4

Abstract

BACKGROUND: The marketed synthetic (Dipeptidyl peptidase-IV) DPP-IV Inhibitors are expensive antidiabetic drugs and have been reported to cause unacceptable adverse effects such as pancreatitis, angioedema, thyroid and pancreatic cancers. In this scenario research to develop novel DPP-IV Inhibitors from alternative sources is the need of the hour.

HYPOTHESIS/PURPOSE: Terminalia arjuna, a medicinal herb with antidiabetic and cardioprotective activities may represent a natural DPP-IV Inhibitor, the DPP-IV Inhibitory activity of which may translate into demonstrable therapeutic benefits in setting of diabetes with cardiovascular co-morbidities.

STUDY DESIGN: The study type used for the present study was an experimental (In vitro, In vivo and In silico) design.

METHOD: The DPP-IV Inhibitory, antidiabetic and cardioprotective effects of Terminalia arjuna was evaluated in the experimental model of myocardial infarction co-existing with diabetes. To determine the active principle of Terminalia arjuna responsible for DPP-IV Inhibitory activity, the crystal structure of DPP-IV was considered as receptor which was docked against Arjunetin, Arjungenin, Arjunic acid, Arjunone, Ellagic acid, Gallic acid, Sitagliptin and Vildagliptin. The binding sites as well as affinity of various active ingredients of Terminalia arjuna for DPP- IV enzyme was elucidated using in silico studies and compared to Vildagliptin.

RESULTS:



IJBCP International Journal of Basic & Clinical Pharmacology

DOI: http://dx.doi.org/10.18203/2319-2003.ijbcp20190668

Original Research Article

DPP-4 inhibitory activity and myocardial salvaging effects of Commiphora mukul in experimental diabetes

Manjusha K. Borde^{1*}, Ipseeta Ray Mohanty², Ujwala Maheshwari³, Rajesh Kumar Suman⁴, Y. A. Deshmukh²

¹Department of Pharmacology, Sinhgad Dental College and Hospital, Pune, Maharashtra, India ²Department of Pharmacology, ³Department of Pathology, MGM Medical College, Navi Mumbai, Maharashtra, India ⁴Department of Pharmacology, Hind Institute of Medical Sciences, Ataria, Sitapur, Lucknow, Uttar Pradesh, India

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ABSTRACT

Background: Commiphora mukul (Burseraceae) is commonly known as Guggul in Ayurveda. Several studies have reported antidiabetic activity of Commiphora mukul but there are no studies to explore the DPP-4 inhibitory activity and myocardial salvaging effects of Commiphora mukul in setting of diabetes mellitus. The present study was designed to evaluate the cardioprotective efficacy as well as safety of the medicinal plant Commiphora mukul (Guggul) in the experimental model of myocardial infarction co-existing with diabetes.

Methods: Diabetes was induced with single dose of streptozotocin (STZ): 45mg/kg ip and myocardial infarction was produced by administering isoproterenol (ISP): (85mg/kg, sc) to rats 24 and 48 h prior to scarification (5th week). After the confirmation of diabetes on 7th day (glucose>200mg/dl), vildagliptin (10 mg/kg) and *Commiphora mukul* (200 mg/kg) were administered orally from 1st to 5th week (4 weeks). At the end of experimental period, normal control, diabetic-isoproterenol control, vildagliptin and *Commiphora mukul* group rats were sacrificed for further biochemical investigations as well as histopathological evaluation.

Results: Commiphora mukul treatment demonstrated significant antidiabetic as well as myocardial salvaging effects as indicated by restoration of blood glucose, HbA1c and CPK-MB serum DPP-4, hs-CRP levels as compared to diabetic ISP control group. In addition, Commiphora mukul showed significant cardioprotection as indicated by positive correlation between cardiac marker CPK-MB and serum DPP-4. The histopathological assessment of heart, pancreas and biochemical indices of injury confirmed the cardioprotective effects of Commiphora mukul. In addition, Commiphora mukul was found to be safe to the liver and kidney.

Conclusions: The natural DPP-4 inhibitor *Commiphora mukul* demonstrated significant cardioprotective effects in experimental model of myocardial infarction co-existing with diabetes.

Keywords: Commiphora mukul, DPP-4 inhibitor, Diabetes, Experimental model, Myocardial infarction

INTRODUCTION

A large body of epidemiological and pathological evidence documents that type 2 diabetes mellitus (T2DM) is an independent risk factor for cardiovascular disease (CVD) and is associated with increased susceptibility to cardiovascular complications. Cardiovascular complications are associated with increased mortality and

morbidity related with diabetes mellitus. To make matters worse, when patients with diabetes develop clinical CVD, they sustain worse prognosis for survival than patients of CVD without diabetes.³⁻⁵ These statistics provides scientific rationale for aggressively addressing the cardiovascular complications of diabetes. Therefore, the therapeutic goal, besides glycemic control in management



IJBCP International Journal of Basic & Clinical Pharmacology

DOI: http://dx.doi.org/10.18203/2319-2003.ijbcp20193200

Original Research Article

Evaluation of antidiabetic efficacy of *Murraya koenigii* on Streptozotocin induced diabetes in experimental rats

Rajesh Kumar Suman^{1*}, Ipseeta Ray Mohanty², Manjusha K. Borde³, Y. A. Deshmukh², Anurag Pathak¹, Arun Kumar Adhikari¹, H. K. Singh¹

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ABSTRACT

Background: The medicinal plant *Murraya koenigii* shown to have a wide variety of pharmacological activities (hypoglycemic and hypolipidemic). Objective of this study is the present study was designed to evaluate Antidiabetic and Hypolipidemic property of *Murraya koenigii* in experimentally induced diabetes in rats.

Methods: Experimental diabetes was produced with single dose of Streptozotocin (STZ): 45 mg/kg IP. The rats were randomly allocated in various groups for 37 days. After the confirmation of diabetes on 7th day (>200 mg/dl), hydroalcoholic extract of *Murraya koenigii* (500 mg/kg) was administered orally to experimental rats from day 7th day and continued for 37 days thereafter. Various antidiabetic (Glucose, HbA1C), metabolic (Lipid profile), safety (pancreatic lipase, Creatinine, SGPT, Histopathology of Liver and Kidney) were evaluated in various group.

Results: Efficacy of Murraya koenigii was observed on various parameter of diabetes. Administration of STZ resulted in a significant decrease in diabetic changes (increase in blood glucose, HbA1C), altered lipid profile (p<0.01) in the Control group rats as compared to sham group. Murraya koenigii treatment demonstrated significant antidiabetic indicated by restoration of blood glucose, HbA1C level (p<0.01) compared to Control group. In addition, Murraya koenigii also documented hypolipidemic property of test drug. As per biochemical assessment of Pancreatic lipase, Serum creatinine, SGPT and Histopathological report, the test drug reduce the pancreatic, liver and renal marker and also showed safe to pancreas, Liver and kidney. The histopathological assessment of the liver and kidney confirmed the biochemical findings.

Conclusions: The study concluded that the Murraya koenigii possess antidiabetic efficacy

Keywords: Blood glucose, Diabetes, Experimental rats, Medicinal plant, *Murraya koenigii*, Streptozotocin

INTRODUCTION

Many herbal agents have been described for the treatment of diabetic mellitus in ancient literature. The global prevalence of type 2 diabetes mellitus (T2DM) is on the rise and at the current rate the estimates for the year 2000 through 2030 show that this global epidemic will have an increase from 171-366 million patients.

Curry leaf extract possess the property to decrease blood cholesterol and blood glucose level in diabetic ob/ob mice. Mice were given daily injection of 80 mg/kg of leaves extract intraperitonially for 10 consecutive days. Blood glucose was found to be reduced after the administration of extract. This study suggests that Murraya koenigii may be proved to be clinically important in improving the management of type 2 diabetes.^{4,5}

















An International Multidisciplinary Medical Summit

Certificate of Participation

CME on "Pharmacology with Clinical Perspectives" CME :: ODE NO.- MMC/MAC/2019/C-012145 Held on 14th - 15th February 2019 By The Dept. of Pharmacology

This Is To Certify That

Dr./Mr./Mrs./Ms. Tosella R.

has participated as a Faculty/Chairperson/Delegate in

"MEDINSPIRE 2019" An International Multidisciplinary Medical Surmmit.

He/She has delivered a lecture on

Maharashtra Medical Council has granted 4 Credit Points for the CNE.

As a faculty he/she is awarded I additional Credit Point.

HOD Dept. of Pharmacology D. Decour Langade Dr. Rai Usha Satish MMC Observer

General Secretary, ISRPT Dr. Sandeep Kaushal

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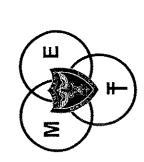
or, spine Marthy M President, MPS

or Viay o Pati President

Dr. Surekha Patil

Or. Shirish Patil Vice Chancellor





Seth G. S. Medical Cologo & KEM Hospital, Mumbail

Type of CME - Multispeciality

Code no. MMC/MAC/2019/F-012241

This is to certify that

Dr. Ipseeta Ray

has participated as Delegate in the

Curriculum Implementation Support Program in Medical Education Technology

held from $20^{\rm th}$ February to $22^{\rm md}$ February 2019

at GSMC-KEMH-MCI Nodal Centre, Mumbai, Maharashtra

Maharashtra Medical Council has granted four (04) credit hours for Delegates



Dr. I

Dr. Hemant Deshmukh

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Dr. Vaja P. Savji MMC Observer

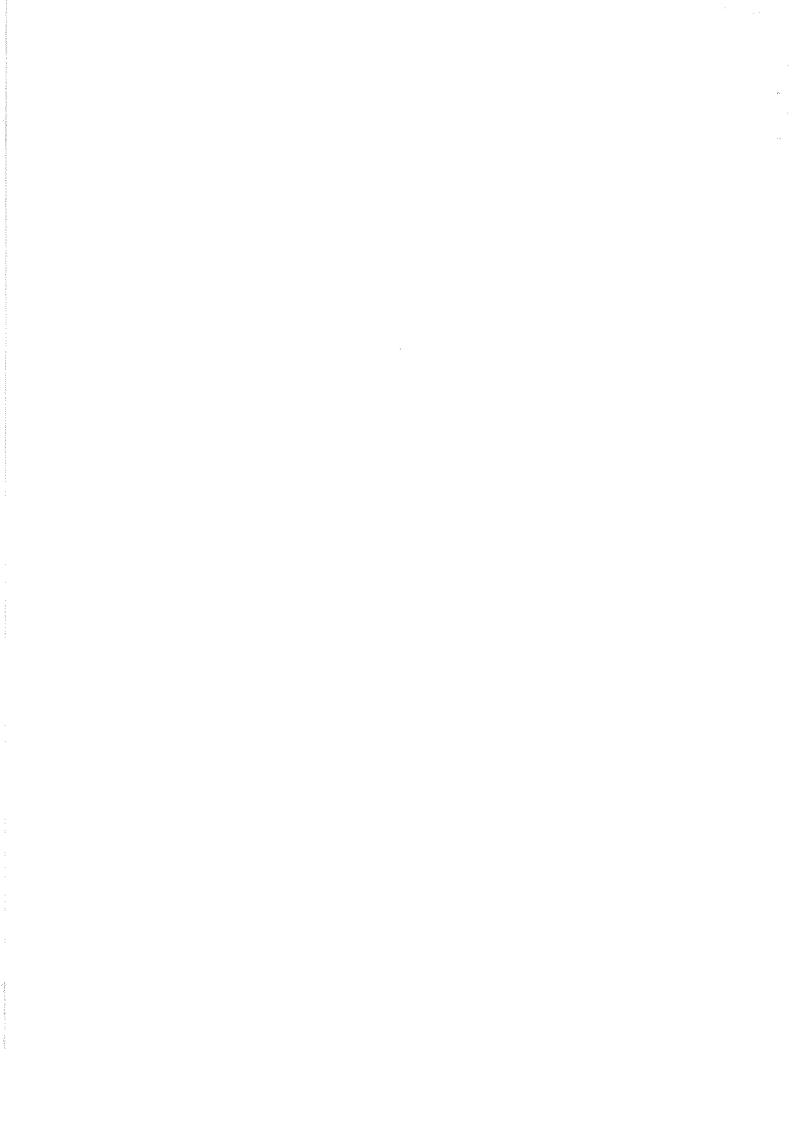
MMC Observer MMC/MAO/00027/2013

Dr. Y. J. Bhosale Org. Secretary

Dr. P. B. lyer Org. Chairman

Seth GS Medical College & KEM Hospital

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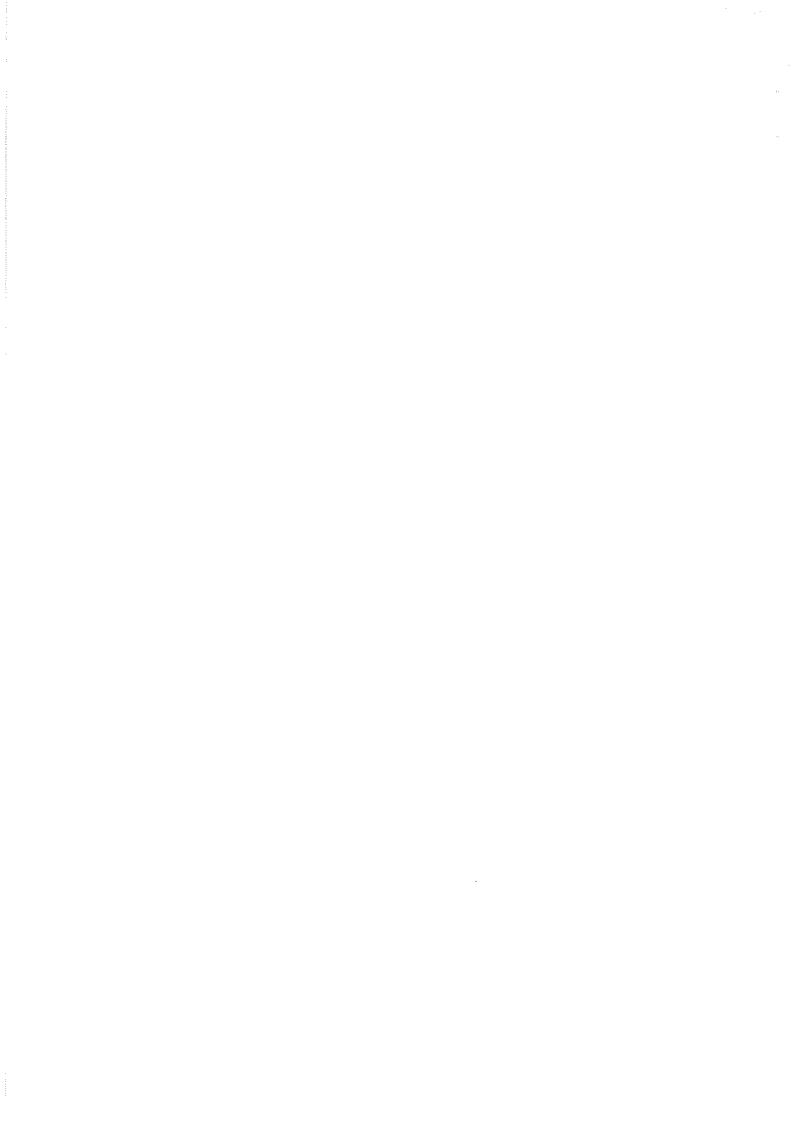
Dr. Ipseena Ray

has pearle ipased in the Training Programme on

Organized by Medical Minits Department, Wockhardt I d. in Collaborations with MOM Medical College & Hospital, Navi Munisal.

On 14th Dec 2018 at Department of Ph. macology, MoM Medical College & Hispinit, No. Manhall

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MGM Institute of Health Sciences

(Deemed University u/s 3 of UGC Act, 1956)

Grade 'A' Accredited by NAAC

Sector-01, Kamothe, Navi Mumbai - 410 209

Certificate of Tarticion

2

Hands-on-Training on 'Data Analysis Using SPSS'

Dr./Mr./Ms. IPSEETA RAY

from 08/06/2018 - 10/08/2018

has actively participated in Hands-on-Training programme on 'Data

at MGM Institute of Analysis Using SPSS' for 10 days (30 hours), Pharmacology Dept. Health Sciences, Navi Mumbai.

Dr. Rajesh B. Goel

Registrar MGM Institute of Health Sciences

Dr. Kita Abbi

Program Co-ordinator Professor, Biostatistics MGM Institute of Health Sciences





MGM Institute of Health Sciences, Navi Mumbai

(Deemed to be University u/s 3 of UGC Act, 1956) Grade 'A' Accredited by NAAC

MGMIES Incubation and Innovation Contre

Orticity of Participation

Presented to

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./Mrs./Ms	
./Mr.	

your contribution in the Design Competition 2019 organized by MGM Institute of Health

Science, Navi Mumbai from 22nd to 26th February 2019.

Dr. Raman P. Yadav

Director, MGMIHS

Registrar,

Dr. Sudhir N. Kadam

Medical Director,

MGMIHS

Dr. Shashank D. Dalvi Vice Chancellor,

MGMIHS

Dr. Raiesh B. Goel Incubation and Innovation Centre

MGMIHS





MGM Institute of Health Sciences, Navi Mumbai

(Deemed to be University u/s 3 of UGC Act, 1956) Grade 'A' Accredited by NAAC

MCMIES Incubation and Innovation Contre

Oritical Anticitation

Presented to

DR. IPSITA KAY

in recognition of maximum participation in the Idea Competition 2019 organized by

MGM Institute of Health Science, Navi Mumbai from 30th Jan 2019 to 16th Feb 2019.

Dr. Kaman P. Yadav

Incubation and Innovation Centre Director, MGMIHS

Dr. Rajesh B. Goel

Registrar, MGMIHS

Dr. Sudhir N. Kadam

Medical Director,

Dr. Shashank D. Dalvi-Z AN

Vice Chancellor,





TO CO

Accredited by NAAC with "A" Grade

Sector-1, Kamothe, Navi Mumbai – 410 2019 | Ph.: 022 2743 3404, 2743 7900 Email: mgmmcnh@gmail.com | Web: www.mgmuhs.com

Faculty Sensitization Program

This is to certify that Dr. Loseela Hay

Participated in 'Faculty Sensitization Program (CBME)' held at MGM Medical College &

as Speaker / Delegate.

es electives conducted, sessions on: 1) AETCOM & Humanities Dr. G. S. Narshetty

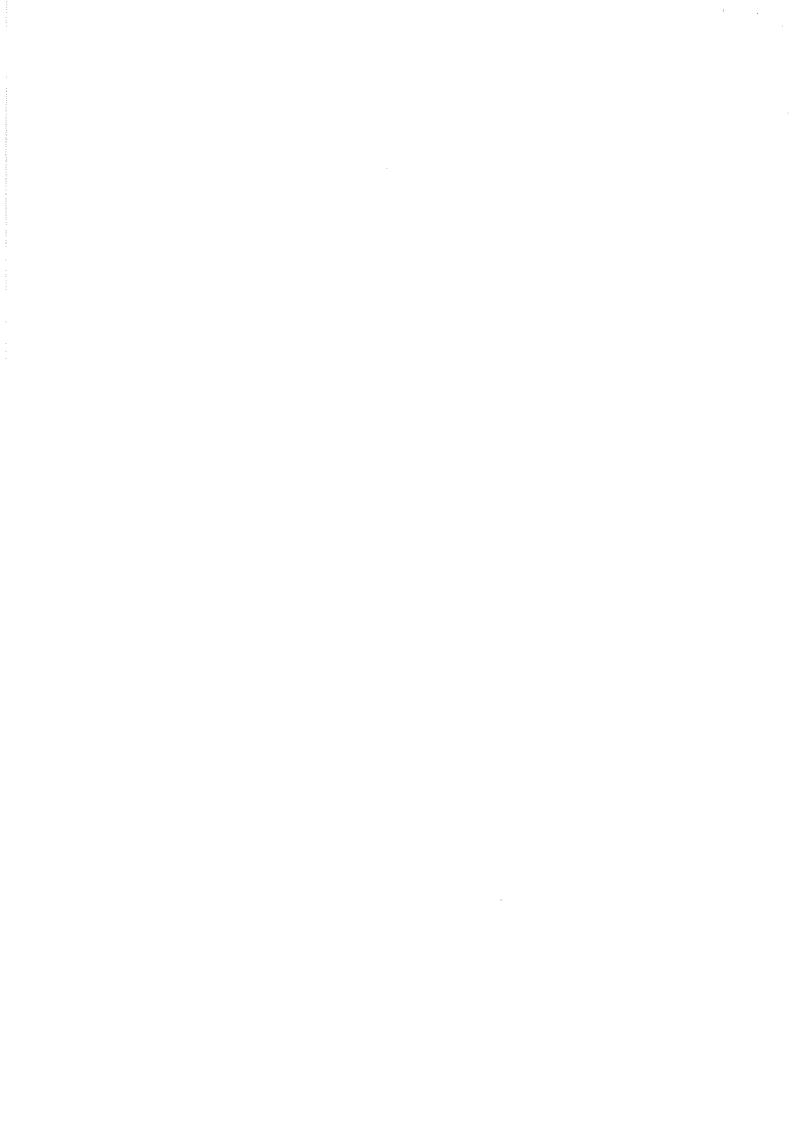
Kamothe, Navi Mumbai MGM Medical College

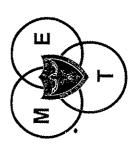
Curriculum Committee

Chairman

Dr. R. S. Inamdar

Hospital, Kamothe, Navi Mumbai on Mach 2019





Nodal Centre Seth GS Medical College & KEIN Mosnital

Curriculum Implementation Support Program

Certification Participation

This is to certify that

Dr. Ipseeta Ray

Professor, Department of Pharmacology

Member, Curriculum Committee, MGM Medical College, Kamothe, Navi-Mumbai has participated in the Curriculum Implementation Support Program held from 20^{th} to 22^{nd} February, 2019, at the Nodal Center

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Praveen B. Iyer

Convener -GSMC-KEMH-MCI Nodal Centre

in the same of the

Dr. Munira Kirkani Co-convener & In-charge CISP, GSMC-KEMH-MCI Nodal Centre

Dated : 22rd February, 2019

Seth G S Medical College & KEM Hospital

Dr. Hemant Deshmukh



	ROLL NO.	NAME OF THE STUDENTS	NAME OF THE MENTORS	DEPARTMENT
	MGM/MC/NM/ 017-93	SHRIVASTAV ESHA AJIT		MICROBIOLOGY
94	MGM/MC/NM/ 017-94	2 SINGH KESHAV CHANDAN		MICROBIOLOGY
95	MGM/MC/NM/ 017-95	YADAV HARSHVARDHAN SUNIL		MICROBIOLOGY
96	MGM/MC/NM// 017-96	2 YADAV SHIWANSH SHIVPRASAD	98)	MICROBIOLOGY
97	MGM/MC/NM// 017-97	JOSHI DYUTIKA KANTAMNENI	-	MICROBIOLOGY
98	MGM/MC/NM/2 017-98	JOHAL MUSKAN		MICROBIOLOGY
99	MGM/MC/NM/2 017-99	MHATRE NIYATI MAHESH		MICROBIOLOGY
100	MGM/MC/NM/2 017-100	THAKUR MANASVI SANJAY		MICROBIOLOGY
101	MGM/MC/NM/2 017-101	SINGH KUSHWAH SANJAY SAHOOKAR	-	MICROBIOLOGY
102	MGM/MC/NM/2 017-102	ANSARI HUZAIF MEHBOOB	Dr. Neha Singh Roll No.(99-105)	MICROBIOLOGY
103	MGM/MC/NM/2 017-103	THAKEKAR SRUSHTI ANIL	110.(77-103)	MICROBIOLOGY
104	MGM/MC/NM/2 017-104	SAWANT PAULOMI AJIT		MICROBIOLOGY
105	MGM/MC/NM/2 017-105	KEETTIKKAL EDWIN ANTO		MICROBIOLOGY
106	MGM/MC/NM/2 017-106	KOLE AKRITI JAGABANDHU	Dr. Savita Shahani Roll No.(106-112)	PHARMACOLOGY
107	MGM/MC/NM/2 017-107	SONI RIDDHI SHAILESH		PHARMACOLOGY
108	MGM/MC/NM/2 017-108	MIRANI PARTH DEEPAK		PHARMACOLOGY
109	l	BOYAPATI NEHA CHANDRASEKHARA RAO		PHARMACOLOGY
110	MGM/MC/NM/2	SAHARAN VARUN ARVIND SAHARAN		PHARMACOLOGY
.11	MGM/MC/NM/2	NAIK SHRADDHA PRADEEP		PHARMACOLOGY
12	MGM/MC/NM/2	TAI ASAD GULLAM HUSAIN		PHARMACOLOGY
13	MGM/MC/NM/2	SINGH SHREYA SHREYA		PHARMACOLOGY
14	MGM/MC/NM/2	PRABHU ANUSHA NICOLE	Dr. Ipseeta R. Roll No.(113-119)	PHARMACOLOGY
15	MGM/MC/NM/2	WALANJ SIDDHIKA DINESH		PHARMACOLOGY
16	MGM/MC/NM/2	KADU JIDNYASA VIJAY		PHARMACOLOGY



	ROLL NO.	NAME OF THE STUDENTS	NAME OF THE	DEPARTMENT	1
1/	MGM/MC/NM/2	NAME OF THE STODENTS	MENTORS	DEFACTMENT	-
/17	017-117	TIWARI SHRUTI AJIT	Dr. Ipseeta R. Roll No.(113-119)	PHARMACOLOGY	
118	MGM/MC/NM/2 017-118	ANKUSH SANIKA AVINASH		PHARMACOLOGY	
119	MGM/MC/NM/2 017-119	CHOPDEKAR ATHARVA SANTOSH		PHARMACOLOGY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
120	MGM/MC/NM/2 017-120	SHIRODKAR ANUSHREE BHARAT	Dr. Pradeep Jadhav. Roll No.(120-126)	PHARMACOLOGY	
121	MGM/MC/NM/2 017-121	SINGH YASH AJAY		PHARMACOLOGY	
122	MGM/MC/NM/2 017-122	ANSARI HASNAT MUKARRA MUDDIN		PHARMACOLOGY	
123	MGM/MC/NM/2 017-123	PATEL SAGAR RAMESH		PHARMACOLOGY	
124	MGM/MC/NM/2 017-124	KAMALE SHARDUL VIJAY		PHARMACOLOGY	
125	MGM/MC/NM/2 017-125	PUNDE AISHWARYA AVINASH		PHARMACOLOGY	T
126	MGM/MC/NM/2 017-126	WABLE ROHAN DILIP		PHARMACOLOGY	*
127	MGM/MC/NM/2 017-127	GEEVARGHESE JOB JACOB	Dr. Snigdha Senapathy Roll No.(127-133)	PHARMACOLOGY	
128	MGM/MC/NM/2 017-128	SUBANDH ANISH MAKARAND		PHARMACOLOGY	
129	MGM/MC/NM/2 017-129	OZA RUSHABH NISHEETH		PHARMACOLOGY	
130	MGM/MC/NM/2 017-130	KENI DIVYAKSHI BHAGWAN		PHARMACOLOGY	
131	MGM/MC/NM/2 017-131	SHAIKH UZMA FAIZANAHMAD		PHARMACOLOGY	
132	MGM/MC/NM/2 017-132	DUBEY ANKIT SANJAY SAHOOKAR		PHARMACOLOGY	-
133	MGM/MC/NM/2 017-133	DALVI PRANAV NITIN		PHARMACOLOGY	
134	MGM/MC/NM/2 017-134	SHEKHAR TANISHA VIJAY	Dr. Savitri Katlam Rôll No.(134-140)	PHARMACOLOGY	
135	MGM/MC/NM/2 017-135	KUMAR GAYATHRI RAJENDRA		PHARMACOLOGY	
136	MGM/MC/NM/2 017-136	JAIN PRANIT PANKAJ		PHARMACOLOGY	
. 137	MGM/MC/NM/2 017-137	GUPTA PREETI BUDHA GAUTIYA		PHARMACOLOGY	
138	MGM/MC/NM/2 017-138	SINHA YASH YASHI SHARAN		PHARMACOLOGY	
139	MGM/MC/NM/2 017-139	KOLHE VAISHNAVI SUNIL		PHARMACOLOGY	
	MGM/MC/NM/2			DILADMACOLOGY	





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E-mail: mgmmca@themgmgroup.com

To Whom It May be Concerned

Date-19/09/2019

Dr Ipseeta Ray, Chairperson, BOS (Para-Clinical) actively participated and contributed significantly to the curriculum development and implementation process at the University level from time to time

Important Contributions are as under

Introduction of training in 'Research Methodology' for 2nd MBBS

• It was resolved to introduce training in 'Research Methodology' for 3rd Semester MBBS students. The final consensus draft of the training module is submitted for approval.

Inclusion of topic on 'Emerging and Re- emerging infections' in MBBS Microbiology syllabus

• It was resolved to include the topic on 'Emerging and Re-emerging infections' in MBBS Microbiology syllabus

To provide all standard proformas for examination of Medico-legal cases during Forensic Medicine MBBS practical's in formative and summative assessments

- The printed format of the Medico-legal examination proforma may be provided to 2nd MBBS students during practical examination in formative and summative assessments, to be applicable from batch entering 2nd MBBS 2017-2018of examination is submitted.
- Besides Performa of Sexual Violence, the list of the standard Medico-legal examination proformas that may be provided to 2nd MBBS students during practical's in formative and summative assessments



- o Age of Estimation
- o Cause of Death
- o Injury Report
- Sexual offences
- o Alcoholic Examination
- o Sickness/fitness
- o Potency certificate
- o Examination of weapon
- o Examination of bone

Action plan for adoption of competency based undergraduate medical curriculum by para-Clinical disciplines

- It was resolved to recommend adoption of competency based undergraduate medical curriculum for Para-Clinical disciplines, as mandated by MCI
- Although the overall syllabus remains the same, several changes have been incorporated
 in the competency-based medical education curriculum. These include reduction in the
 duration of the 2nd MBBS term (Paraclinical Phase), total teaching hours, teaching
 learning methods, skill training, self-directed learning, formative and summative
 assessment methods, time table, AETCOM modules, elective courses and the required
 resources for implementation of the curriculum
- Accordingly, the Para-Clinical departments will comply and ensure the smooth implementation of the proposed Competency based medical education curriculum when the batch enters 2nd MBBS in the year 2020
- The list of Elective courses suggested by various para-clinical departments are appended for approval

General Electives as per the list provided by MCI

- Immunology (Microbiology)
- Laboratory Sciences (Pathology)
- Research Methodology, Pharmacoeconomics (Pharmacology)

Additional General Electives (Not included in MCI list) that can be offered for implementation by MGMIHS are

- 'Virology and Bacteriological techniques (Microbiology, Navi Mumbai)
- 'Bio-medical waste management' (Microbiology, Aurangabad)
- 'Medico-legal aspect of Injured person' (FMT, Aurangabad)
- 'Research Project' (Pharmacology, Navi Mumbai)
- 'Pharmacovigilance' (Pharmacology, Aurangabad)
- 'Quality Assurance in Lab service' (Pathology, Navi Mumbai)
- 'Blood bank' (Pathology, Aurangabad)



Change in portion for Paper 3 and Paper 4 for MD Microbiology University Examination

• The proposed change in portion for Paper 3 and Paper 4 for MD Microbiology Examination is consistent with MCI Guidelines. The revised distribution of the syllabus for the four Papers in MD Microbiology University Examination is submitted for consideration and approval.

Change in portion for Paper 3 and Paper 4 for MD Pathology University Examination

• The revised syllabus distribution for the four Papers in MD Pathology University Examination is in accordance with MCI Guidelines and is submitted for consideration and approval.

To define objectives required to be achieved by post graduate (MD) students in Pharmacology during their Allied postings

- It was resolved to structure and streamline the Allied posting training of MD Pharmacology students by defining the objectives to be accomplished during the allied postings schedules in various departments
- The draft of the tasks to be performed during allied postings and modified PG log book reflecting the training undertaken during the allied postings are here with submitted for approval

To identify the thrust area for research department wise

- The thrust areas for research identified by respective Para-Clinical departments based on the infrastructure available, research projects undertaken, publications, awards and Conferences/CME organized are submitted for consideration.
- It was also resolved that the departments will make efforts to further strengthen these areas of research in the future, keeping in view the thrust areas at National and regional levels.

Co-Chairperson, BOS (Para-Clinical)

