

Minutes of the meeting of 4th Local Research Advisory Committee under MRU held on 30 August, 2024 at UP University of Medical Sciences, Saifai.

Following faculty member of UPUMS and other medical Colleges attended the 4th meeting of LRAC of MRU on 30 August, 2024 offline and online mode:-

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| 1) Prof. (Dr.) Balbir Singh, Principal, ASMC, Firozabad | Chairperson- LRAC |
| 2) Prof. (Dr.) Prabhat Kumar Singh, VC, UPUMS | Chairperson-Executive Committee |
| 3) Prof. (Dr.) D.S. Martolia, Professor & Head,
Department of Community Medicine,
GMC, Kannuj | Co-Chairperson-LRAC |
| 4) Prof. (Dr.) Tej Pal Singh, Professor (Medicine)
SNMC, Agra | NCD-Expert (External) -LRAC |
| 5) Dr. Neha Mishra, Scientist, NJIL & OMD, Agra | ICMR- Nominee |
| 6) Prof. (Dr.) Ramakant Yadav, Pro-VC
And Head of Department, Neurology | NCD-Expert (Internal)-LRAC |
| 7) Prof (Dr.) Dhiraj Kumar Srivastava,
Community Medicine UPUMS, Saifai | NCD-Expert (Internal)-LRAC |
| 8) CMO, Etawah | Nominee of State Health Department |
| 9) Dr. Sushil Kumar Shukla, Professor
Community Medicine, UPUMS | Nodal officer/ Member Secretary |

The 4th LRAC meeting commenced with welcome note by Chairperson- Executive committee, Prof (Dr.) P.K. Singh with external members Dr. Balvir Singh, Principal ASMC, Firozabad; Dr. D.S. Martolia, Professor and Head, Department of Community Medicine, GMC, Kannauj; Dr. Tej Pal Singh, Professor, Department of Medicine, SNMC, Agra and Dr. Neha Mishra, Scientist, NJIL & OMD, Agra who attended meeting on online mode. The Chairperson-Executive committee also informed LRAC committee that a total 12 projects submitted to MRU has already been discussed in the meeting of Executive committee and Institutional Research cell committee which has held on Aug, 23- 2024. The projects are revised following the instructions of committee and now LRAC Committee can make the decision based on the revised projects.

In the Fourth meeting of LRAC, Committee ask to know about the current progress of the projects approved in the second & third meeting. The Nodal Officer MRU has explained the progress of LRAC approved projects. The Nodal Officer MRU stated that the procurement of all necessary instruments and consumables are done and Few instruments are not purchased due to shortage of funds, and the DHR will release instruments grants after the utilisation of previous released grant. The payments of consumables and instruments are under process.

Prof. Sushil Kumar Shukla, Nodal officer, MRU has briefed the formation of executive committee for MRU, as per the guidelines of DHR, MoHFW Gov. of India for monitoring the activities of MRU. He also briefed the progress of MRU research Projects sanctioned in the second and third meeting. To begin, a total of 11 research projects were sanctioned to MRU along with the list of 24 instruments required for the Projects. The procurement of 18 instruments and consumables are done and research activities are started now in MRU. Six instruments approved by LRAC and required for functioning of approved projects such as Water purification system, CO₂ incubator, Nano-drop, Gel Doc system, Mackler counting Chamber, Filtration unit] has not been purchased due to lack of funds in equipment grant, resulting works on few projects cannot be



initiated. Prof Shukla informed committee that training and demonstration of instruments to PG and MBBS students is given at MRU. Prof Shukla also informed the committee that a recently one-week online workshop on biomedical research was conducted by MRU, UPUMS in association with Sci-Tech, Lucknow, and more than 200 participants attended the workshops. Prof Shukla also informed the committee that a two days hands on workshop on project proposal developments and two days hands on workshop on molecular biology techniques is going to be organized at MRU in September.

Agenda of 4th LRAC meeting and decision made are as under:

For Agenda Point 4.1. Approval of twelve projects (Enclosure No. 1) submitted under MRU for further consideration under Department of Health Research, MoHFW, Govt. of India. The following projects have been discussed and decision made.

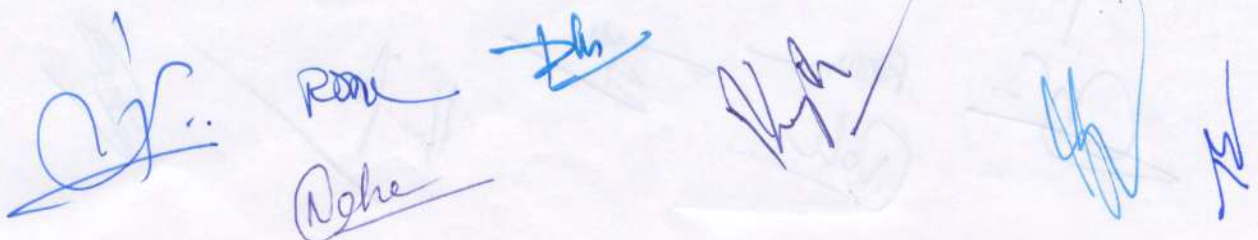
- i) **Dr. Arun Kumar Yadav, Assistant Professor, Radiation Oncology, UPUMS Saifai Etawah** presented his Research Topic in front of committee for approval. His Topic for Research is **Exploring the Potential of microRNA-205 and microRNA-let7a in blood and Saliva as a Biomarker for Head and Neck Squamous Cell Carcinoma: A pilot Study.** [Ref. no. P13/MRU/UPUMS/2024]

Dr. Arun Kumar Yadav has presented the objective of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on his topic. Dr. Arun Kumar Yadav stated that one more micro-RNA [microRNA-let7a] included in this study following the suggestion of Executive committee accordingly the budget has revised. He has informed the committee members that the investigators will perform pilot study with 25 patients for their one-year research study. The committee asked investigators what are the new finding and how finding of this study impacted in the routine health care system. The Investigators responded that micro RNAs has been reported as a potential prognostic biomarker in many diseases. Through this study, we will check the sensitivity and specificity of these microRNA in HNSCC, if found significant, it can be used as possible biomarker for diagnostic purposes. The approximate budget for this research project is Rs. 2,80,000 (the list of required expenditures is attached, **encl. 02**).

Decision of Committee: The committee approved the project proposal with proposed budget for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of funds.

- ii) **Dr. Perna Kataria, Assoc. Professor, Dental Science, UPUMS, Saifai** presented his Research Topic in front of committee for approval. Her Topic for Research is **"Evaluation of Effect of Vitamin D as an adjunct to scaling and root planning on Alveolar Bone in Periodontitis Patients by Assessing Vitamin D Binding Protein Concentration: A randomized Clinical Trials.** [Ref. no. P14/MRU/UPUMS/2024]

Dr. Perna Kataria has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on her topic. Dr. Perna Kataria has informed the committee that the project is revised following the suggestion of executive committee, committee asked to remove the osteoporosis patients for this study as they must take oral vitamin D which may impacted your study, and reduce the study period for two years. Executive committee also suggested that CTRI registration is mandatory for the clinical trials study. Dr. Perna Kataria informed the committee that all the recommendation of EC is compiled in the revised project



proposal. Professor T.P Singh, NCD-Expert (External) asked how the budget is utilised for the proposed work and what are the duration of Vitamin D therapy. The investigators responded that the vitamin D supplementation will be given for six months. The study will be mainly utilised for the clinical and biochemical analysis, the radiographic studies will be covered by university. The CTRI registration will be done after getting approval from LRAC. Prof Martolia, NCD-Expert (External) asked is there any committee available at UPUMS to approve clinical trial studies. Investigators informed that the project have already been discussed in IRC meetings. The approximate budget for this research project is Rs. 2,09,275/- (Consumable) and Rs. 41,579/- (non-consumable) (the list of required expenditures is attached, **encl. 03**).

Decision of Committee: The committee approved the project proposal with proposed budget for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

- iii) **Dr. Rajesh Kumar Thakur, Dental Science, UPUMS, Saifai.** Presented his research topic "Effect of Vitamin D Application on Endosseous implant integration and Crestal Bone Level: A randomized Controlled Clinical Trials. [Ref. no. P15/MRU/UPUMS/2024]

Dr. Rajesh Kumar Thakur has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on his topic. Dr. Rajesh Kumar Thakur has informed the committee that the project is revised following the suggestion of executive committee. Executive committee suggested that CTRI registration is mandatory for the clinical trials study. Committee also suggested to include the instruments and consumable which are readily available at UPUMS for this study and reduced the proposed budget below 5 lakh. Dr. Rajesh Kumar Thakur informed the committee that all the recommendation of EC is compiled in the revised project proposal. Local Research Advisory Committee asked how investigators will measure the effectiveness of local implication of vitamin D in dental implants. The investigators responded that they will perform the resonance frequency analysis (RFA) after therapy or measure the implant stability. The instrument required for the measurement of RFA is not available to our university; hence we need this instrument through the MRU grants. The approximate budget for this research project is Rs. ₹4,78,500/- (Consumable) and Rs. ₹ 4,14,350/- (non-consumable) (the list of required expenditures is attached, **encl. 04**).

Decision of Committee: The committee approved the project proposal for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

- iv) **Dr. Pinky Pandey, Head of Department, Pathology, UPUMS, Saifai.** Presented her research topic Delineating the prevalence of isocitrate dehydrogenase mutations in patients with diffuse glioma to improve patient health care. [Ref. no. P16/MRU/UPUMS/2024]

Dr. Pinky Pandey has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on her topic. Dr. Pinky Pandey has informed the committee that the project is revised following the suggestion of executive committee. Committee asked how this research work impacted the routine health care system. The investigators responded that they will perform immunohistochemical and CAST-PCR methods to detect the diffuse glioma, and IHC is routinely utilised to detect IDH mutant in diffuse glioma but sometimes it has a sensitivity issues, and CAST-PCR is the most robust method to detect IDH wild type and mutant in diffuse glioma patients, accordingly the treatment can be employed. Committee asked how much cost per CAST-CPR or is it costly than the IHC based test. Investigators responded that

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the cost of CAST-PCR is not high and it can be implemented in our routine testing if finding showed acceptable sensitivity and specificity. The approximate budget for this research project is Rs. ₹5,00,000/- (Consumable) (the list of required expenditures is attached, **encl. 05**).

Decision of Committee: The committee approved the project proposal for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

v) **Dr. Alka Yadav, Assistant professor, Pathology, UPUMS, Saifai.** Presented her research topic Detection of gastric Helicobacter Pylori infection: Comparison of Clinical, histopathological and Molecular techniques. [Ref. no. P17/MRU/UPUMS/2024]
Dr. Alka Yadav has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on her topic. Dr. Alka Yadav has informed the committee that the project is revised following the suggestions of executive committee. The approximate budget for this research project is Rs. 2,57,975/- (Consumable) (the list of required expenditures is attached, **encl. 06**).

Decision of Committee: The committee approved the project proposal and proposed budget for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

vi) **Dr. Pinky Pandey, Head of Department, Pathology, UPUMS, Saifai.** Presented her research topic To study the efficacy of h-TERT immunohistochemistry as a potential surrogate marker in Gliomas. [Ref. no. P18/MRU/UPUMS/2024]
Dr. Pinky Pandey has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on her topic.
The approximate budget for this research project is Rs. ₹5,00,000/- (Consumable) (the list of required expenditures is attached, **encl. 07**).

Decision of Committee: The committee approved the project proposal and proposed budget for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

vii) **Dr. Sushil Kumar Shukla, Professor, Community Medicine, UPUMS, Saifai.** presented his research topic Assessment of potential NGS analysis-based precision therapy for patients with Head and Neck Squamous Cell Carcinoma. [Ref. no. P19/MRU/UPUMS/2024]
Dr. Sushil Kumar Shukla has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on his topic. Committee asked the how NGS impacted the treatment of HNSCC? The investigators responded that this study will enable the identification of disease-causing mutations, facilitates the discovery of new therapeutic targets, and provides the basis for personalised treatment plans. Furthermore, it can also aid in the development of more effective drugs with fewer side effects. Investigators are also informed the committee to overcome the issues of tumour heterogeneity, in this study the biopsy sample will be collected from three different site and NGS will perform and compare. The committee ask can it be utilised for other clinical purposes. Investigator stated that the NGS is not available to our nearby institutions and if granted to UPUMS, This NGS analysis can be available for the all nearby medical college/institutions and can utilised for various studies including neonatal disease, reproductive health, and infectious disease also. The approximate budget for this research project is Rs. ₹45,80,000/- (Consumable) and 2.5 Crore (non-consumable) (the list of required expenditures is attached, **encl. 08**).

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Decision of Committee: The committee approved the project proposal with the proposed budget for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

- viii) **Dr. Sanjay Kumar Kannaujia, Associate Professor, Pathology, UPUMS, Saifai.** Presented his topic "Study of expression of Her2/neu, P53, and ki67 in prostate cancer and its correlation with Histomorphological grade and serum PSA level: A diagnostic cross-sectional study in a rural tertiary care centre. [Ref. no. P20/MRU/UPUMS/2024]

Dr. Sanjay Kumar Kannaujia has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on his topic. Dr. Kannaujia has informed the committee that the project is revised following the suggestions of executive committee. The approximate budget for this research project is Rs. 2,29,562/- (Consumable) (the list of required expenditures is attached, **encl. 09**).

Decision of Committee: The committee approved the project proposal for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

- ix) **Dr. Shabana Andleeb Ansari, Associate Professor, Pathology, UPUMS, Saifai.** Presented her Topic Study of DLL4 and HIF2 α in Gall Bladder Cancer and Correlation with Serum VEGF Level. [Ref. no. P21/MRU/UPUMS/2024]

Dr. Shabana Andleeb Ansari has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on her topic. Dr. Ansari has informed the committee that the project is revised following the suggestions of executive committee. The approximate budget for this research project is Rs. 2,48,694/- (Consumable) (the list of required expenditures is attached, **encl. 10**).

Decision of Committee: The committee approved the project proposal for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

- x) **Dr. Alok Dixit, Professor and Head, Pharmacology, UPUMS, Saifai.** Presented his research topic A computational approach to discover promising drugs against the transforming growth factor-1 β (TGF-1 β), a key player accelerating tumour progression. [Ref. no. P22/MRU/UPUMS/2024]

Dr. Alok Dixit has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on his topic. He briefed that the computation studies may help us to identify potential lead compounds (Drug repurposing; FDA approved) against TGF-1 β , which further aids in ongoing trials studies.

Decision of Committee: There is no budget for the approved research project, as the necessary requirements is already available at MRU. Committee approved the project to execute at MRU.

- xi) **Dr Sonam Kushwaha, Assistant Professor, Prevalence of Staphylococcus aureus along the milk value chain in District Etawah of western Uttar Pradesh. Towards a bottom-up understanding of antimicrobial resistance (AMR).** [Ref. no. P23/MRU/UPUMS/2024]

Dr Sonam Kushwaha has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on her topic. Dr Sonam Kushwaha has informed the committee that the project is revised following the suggestions of executive committee. The approximate budget for this research project is Rs. 99,500/- (Consumable). Nodal



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officer MRU noted that the project is not revised according to the suggestion made in Executive committee and informed the committee that the prevalence-based study cannot be approved under MRU.

Decision of Committee: Considering the Novelty and feasibility of this project, the committee recommended to consider this project under intramural funding through Research cell of UPUMS. The project is not recommended for MRU.

xii) **Dr. Sanjeev Kumar Yadav, Assistant Professor, Pathology, UPUMS, Saifai.** Presented his topic HPV in Oral and Oropharyngeal Carcinoma: Molecular and Immunohistochemical profiling across Tumors and Lymph Nodes. [Ref. no. P24/MRU/UPUMS/2024]

Dr. Sanjeev Kumar Yadav has presented the objectives of the study, rationale, hypothesis, methodology, outcome, and budget requirements for research on his topic. Dr. Sanjeev Kumar Yadav has informed the committee that the project is revised following the suggestions of executive committee. The committee asked what are the new findings of your research project. He informed the committee, in the proposed study, the investigators will check the presence of HPV in nearby lymph node along with Oral and Oropharyngeal region to access the spread of HPV. The approximate budget for this research project is Rs. 4, 99, 802/- (Consumable) (the list of required expenditures is attached, **Encl. 11**).

Decision of Committee: The committee approved the project proposal for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of CCT and equipments grants.

For Agenda point 4.2. Few Projects has not been initiated due to lack of funds in Equipments and CCT grants

- (i) Effect of In-vitro addition on pentoxifylline on acrosomal status in oligo-asthenospermic semen samples [P04/MRU/UPUMS/2017]:- Mackler Counting Chamber has not been procured.
- (ii) Prognostic Evaluation Brain Biomarkers (GFAP, NSE, NFL, T-tau and S100 B) In Moderate - Severe traumatic Brain Injury: Observational Study. Consumable has not been procured due to budget constrained in CCT grant.
- (iii) Six instruments approved by LRAC and required for functioning of approved projects such as Water purification system, CO₂ incubator, Nano-drop, Gel Doc system, Filtration unit has also not been procured due to lack of funds in equipment grant.

Decision of Committee: LRAC is aware of the status of projects that have been initiated due to limitation of funding. LRAC instructed Nodal Officer MRU to furnish all requirements to the DHR requesting the earliest possible release of the fund.

For Agenda point 4.3. Termination of Project "Investigating the association of HLA-1 and HLA- class-II alleles with the severity of *M. tuberculosis* infection: A prospective study" from MRU Principal Investigator: Dr. Amita Singh, Assistant Professor, Dept of Physiology [Project no. P11/MRU/UPUMS/2024] and allowing the investigator to submit it under DHR grant-in-aid scheme (Extramural).

Decision of Committee: The committee approved the submission of the project for extramural Research grant



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For Agenda point 4.4. Modification of title of the project P04/MRU/UPUMS/2017 entitled Effect of In vitro addition on pentoxifylline on acrosomal status in oligo-asthenospermic semen samples was reallocated to Dr. Kalpana Kumari, Professor and Head, Obs & Gynae, as Dr Shika Setha has left the institute. The modified title of project is '**Effect of In-vitro addition on pentoxifylline on sperm motility in oligo-asthenospermic semen samples**'.

Decision of Committee: The committee approved the modified title of the project.

For Agenda point 4.5. Approval of State of Art equipment "Next Generation Sequencer" to MRU.

Decision of Committee: The committee approved the State of Art equipment "Next Generation Sequencer" for further submission in the Department of Health Research, MoHFW, Govt. of India, New Delhi for the release of grants (Encl.12).

Meeting ended by the Chairperson-LRAC and Chairperson-Executive committee of MRU with the vote of thanks to all.

(Dr. Balbir Singh)
Chairperson

(Dr. D.S. Martolia)
Co-Chairperson

(Dr. Tej Pal Singh)
NCD-Expert (External)

(Dr. Ramakant Yadav)
NCD-Expert (Internal)

(Dr. Dhiraj Kumar Srivastava)
NCD-Expert (Internal)

(Dr. Neha Mishra)
ICMR Nominee

(CMO, Etawah)
Nominee of State Health Department

Dr. Sushil Kumar Shukla
Nodal Officer/Member Secretary

Ref No. ...67(U)/22/UPUMS/MRU/2024-25

Date : 30 Aug, 2024

Copy to all above concern officer for information and necessary compliance.

(Dr. Prabhat Kumar Singh)
Vice Chancellor, UPUMS and Chairperson-Executive committee, MRU

Encl:- As Above

Enclosure 1.

Sr. No.	Title of Projects	Principal Investigators, Designation, Department	Budget		
			1 st Year	2 nd Year	Total
1	Exploring the Potential of microRNA-205 and micro RNA-let7a in blood and Saliva as a Biomarker for Head and Neck Squamous Cell Carcinoma: A pilot Study [P13/MRU/UPUMS/2024]	Dr. Arun Kumar Yadav, Assistant Professor, Radiation Oncology	2,80,000	-	2,80,000
2	Evaluation of Effect of Vitamin D as an adjunct to scaling and root planning on Alveolar Bone in Periodontitis Patients by Assessing Vitamin D Binding Protein Concentration: A randomized Clinical Trials. [P14/MRU/UPUMS/2024]	Dr. Prerna Kataria, Assoc. Professor, Dental Science	1,20,000	89,275	2,09,275
3	Effect of Vitamin D Application on Endosseous implant integration and Crestal Bone Level: A randomized Controlled Clinical Trials [P15/MRU/UPUMS/2024]	Dr. Rajesh Kumar Thakur, Professor, Dental Science	3,50,000	1,28,500	4,78,500
4	Delineating the prevalence of isocitrate dehydrogenase mutations in patients with diffuse glioma to improve patient health care [P16/MRU/UPUMS/2024]	Dr. Pinki Pandey, Professor and Head, Pathology	3,50,000	1,50,000	5,00,000
5	Detection of gastric Helicobacter Pylori infection: Comparison of Clinical, histopathological and Molecular techniques [P17/MRU/UPUMS/2024]	Dr. Alka Yadav, Assistant Professor, Pathology	1,57,975	1,00,000	2,57,975
6	To study the efficacy of h-TERT immunohistochemistry as a potential surrogate marker in Gliomas [P18/MRU/UPUMS/2024]	Dr. Pinki Pandey, Professor and Head, Pathology	3,50,000	1,50,000	5,00,000
7	Assessment of potential NGS analysis-based precision therapy for patients with Head and Neck Squamous Cell Carcinoma [P19/MRU/UPUMS/2024]	Dr. Sushil Kumar Shukla, Professor, Community Medicine	25,00,000	20,80,000	45,80,000

8	Study of expression of Her2/neu, P53, and ki67 in prostate cancer and its correlation with Histomorphological grade and serum PSA level: A diagnostic cross-sectional study in a rural tertiary care centre" [P20/MRU/UPUMS/2024]	Dr. Sanjay Kannaujia, Assoc. Professor, Pathology	1,50,000	79,562	2,29,562
9	Study of DLL4 and HIF2 α in Gall Bladder Cancer and Correlation with Serum VEGF Level [P21/MRU/UPUMS/2024]	Dr. Shabana Andleeb Ansari, Associate Professor, Pathology	1,48,694	1,00,000	2,48,694
10	A computational approach to discover promising drugs against the transforming growth factor-1 β (TGF-1 β), a key player accelerating tumour progression [P22/MRU/UPUMS/2024]	Dr. Alok Dixit, Professor and Head, Pharmacology	Non-funded	-	-
11	Prevalence of Staphylococcus aureus along the milk value chain in District Etawah of western Uttar Pradesh. Towards a bottom-up understanding of antimicrobial resistance (AMR) [P23/MRU/UPUMS/2024]	Dr. Sonam Kushwaha, Assistant Professor, Community Medicine	Not recommended	-	-
12	HPV in Oral and Oropharyngeal Carcinoma: Molecular and Immunohistochemical profiling across Tumors and Lymph Nodes [P24/MRU/UPUMS/2024]	Dr. Sanjeev Yadav, Assistant Professor, ENT	3,50,000	1,59,802	4,99,802/-