Members of Research Advisory Committee, IGIMS, Patna, attended the First RAC meeting on 19.03.2019. Proposal submitted to MRU were presented before the RAC by project investigators and thereafter suggestions were made for each projects.

<table>
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<tr>
<th>Sl. No.</th>
<th>Name of Members</th>
<th>Designation</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Prof. (Dr.) Shyam Sundar, Dept. of Medicine, IMS, BHU, Varanasi</td>
<td>Chairperson</td>
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<td>2.</td>
<td>Prof. (Dr.) S. K. Shahi, Dean (Academics), IGIMS, Patna</td>
<td>Member Secretary</td>
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<td>3.</td>
<td>Prof. Kameshwar Prasad, Head, Deptt. of Neurology, AIIMS, New Delhi</td>
<td>Member</td>
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<td>4.</td>
<td>Prof. Shipad D. Banavali, Prof. &amp; Head, Deptt. of Medical and Pediatric Oncology, Tata Memorial Hospital, Parel, Mumbai</td>
<td>Member</td>
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<td>5.</td>
<td>Prof. (Dr.) Dipendra K. Mitra, Deptt. of Transplant Immunology, AIIMS, Delhi</td>
<td>Member</td>
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<td>6.</td>
<td>Dr. P. K. Sinha, Ex-Director Grade Scientist G, ICMR (RMRIMS) &amp; Ex-Dean (Research), IGIMS, Patna</td>
<td>Member</td>
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<td>7.</td>
<td>Prof. (Dr.) Paike Jayadeva Bhat, Molecular Genetics Lab Deptt. of Biosciences and Bioengineering, IIT Bombay, Mumbai</td>
<td>Member</td>
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<td>8.</td>
<td>Prof. (Dr.) Rajesh Kumar, HOD, Psychiatry, IGIMS, Patna</td>
<td>Member</td>
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<td>9.</td>
<td>Prof. (Dr.) Uday Kumar, HOD (Biochemistry), IGIMS, Patna</td>
<td>Member</td>
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<td>10.</td>
<td>Prof. (Dr.) Ajeet Gupta, Dean, Research, IGIMS, Patna</td>
<td>Member</td>
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<td>11.</td>
<td>Prof. (Dr.) Sangeeta Pankaj, Registrar-cum-Associate Dean, IGIMS, Patna</td>
<td>Member</td>
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<tr>
<td>12.</td>
<td>Dr. Babban Jee, Scientist C, Department of Health Research, New Delhi</td>
<td>Member</td>
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</table>
Minutes of the Meeting of the Research Advisory Committee of IGIMS

Suggestions made for Prof. Sangeeta Pankaj’s project: Study of causation of cervical cancer using molecular approaches (title with connotation).
HPV genotyping has to be correlated with histopathological findings and few selected genetic markers has to be studied. The purpose of this correlation is to classify the cervical cancer patients in bad, medium and good responders to treatment. For time being, HPV genotyping from outside lab should be supported by the institute, but in the long run, HPV genotyping system should be procured.

Suggestions made for Prof. VM Dayal’s project: Evaluation of AKT/mTOR substrate PI3K and p66shc expression in gall bladder cancer.
Apart from genetic pathway of mTOR/Akt, epigenetic modifications like methylation etc., should be studied as patients of GBC are localized in the gangetic basin and not whole population of this region.
Proposal should be focused on study of mTOR-PTEN axis, and expression of proteins/genes related to this axis in different clinical stages as well as impact of treatment on their expression.

Suggestions made for Prof. Rakesh Kumar Singh’s project: Search of molecular biomarker for diagnosis of severe obstructive sleep apnea in the diverse populations of Bihar.
Genetic markers of OSA should be studied, so that patients can be classified into various categories depending upon the severity of the disease. The study should be gender specific. The research design should be specific to meet out the objective. The BMI-matched control should be included in the study.
The significant co-morbid factors like obesity, COPD, diabetes etc may be considered as exclusion factors. The specific biomarkers should be taken into account for studying the underlined events of OSA.
One polysomnograph can be procured for the PI.

Suggestions made for Dr. Harshvardhan’s project: Genetic Analysis of Steroid Resistant Nephrotic Syndrome (SRNS) in Bihar.
DNA collected from SRNS patients, should be sent to outside lab for sequencing, in the long run, sequencing facility should be developed.
INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES
SHEKHPURA, PATNA

Minutes of Research Advisory Committee Meeting held on 19th March 2019

The following members of RAC attended the meeting.

1. Prof. (Dr.) Kameshwar Prasad, Department of Neurology AIIMS, New Delhi
   Chairman
2. Prof. (Dr.) Dipendra K Mitra, Transplant Immunology AIIMS, New Delhi
   Member
3. Prof (Dr) Paike Jayadeva Bhat, Deptt of Bio-Sciences & Bio engineering, IIT Bombay, Mumbai
   Member
4. Prof. (Dr.) Shivendra Shahi (Dean Academics, IGIMS)
   Member
5. Dr P.K.Sinha, Member BTSC and Ex-Dean Research, IGIMS.
   Member
6. Dr. Ajit Gupta, Dean Research IGIMS
   Member
7. Dr. Uday Kumar, HOD Bio-Chemistry, IGIMS
   Member
8. Dr. Rajesh Kumar, HOD Psychiatry, IGIMS
   Member
9. Dr Babban Ji ,Sci C, DHR Govt of India
   Member
10. Dr. Sangeeta Pankaj, Associate Dean IGIMS cum Registrar
    Member

Dr (Prof) Shyam Sundar, Chairman RAC could not attend the meeting due to illness. In his absence Prof Kameshwar Prasad, Department of Neurology AIIMS, New Delhi, presided that meeting.

Agenda:

Day1 (19th March 2019): Dr (Prof) N.R. Biswas, Director IGIMS, Patna welcomed all the RAC members & briefed the RAC about Indira Gandhi Institute of Medical Sciences, Patna (IGIMS).

IGIMS was established on 19th November 1983, as an autonomous super-speciality medical institute of high standard with a vision to render supportive supervision and continued education for the medical and health functionaries.

Objectives as laid down in the IGIMS Act 1984 are as follows:

i) to establish clinical research centre,
ii) to develop community health research centre with special emphasis on reproductive biology and population control.

iii) to develop research and training in basic sciences

Prof. S.K. Shahi, Dean (Academic) presented before the committee about the role and responsibility Research Advisory Committee of IGIMS, Patna. Research Advisory Committee shall be the apex committee of IGIMS to strengthen Research in the Institute.

Schedule of meetings: Every three months.

There shall be Research Screening Committee under Dean (Research) which will exclusively screen the project proposals and monitor ongoing research projects of faculties, residents and Ph.D / DM, MCh, MS, MD students at IGIMS periodically. Role and responsibility is laid down in the Dean Research Cell document.

Functions of RAC:

- To undertake research in non-communicable as well as communicable diseases
- To identify research questions of priority in the state and among projects submitted by the faculties and students
- To assess the progress of the projects undertaken by the faculty / student of Institute
- Evaluation after completion of each project
• To approve submitted research projects so that they can be further submitted for the ethical clearance. Projects have to be approved through Research Advisory Committee before submitting for Ethical Clearance.
• To assess the performance of each project in terms of research completed and publications in the reputed medical journals on an yearly basis
• To ensure maintenance of the quality of research/trial as per the requirements of the design or protocol of the study and the national and international recommendations for conducting research and trials

All research projects/clinical trials (involving human subjects) should be evaluated by Dean Research Cell of IGIMS and thereafter screened projects if, deemed fit after obtaining the comments of two referees of the concerned field, can be sent to Research Advisory Committee (RAC) for evaluation.

The principle investigator is expected to make a brief ppt. presentation of project before the committee and defend his/her proposal.

RAC will hold a discussion on the various aspects of the study including novelty, clarity of hypothesis, research design, statements of end points, sample size, clinical relevance/translational value of the study, adequacy of literature review time frame, adequacy of expertise of Investigators, budget and agreements related to the study etc.
Types of projects / trials needing evaluation by the RAC

Investigator initiated projects or trials, soliciting funding from national /International funding agencies

Investigator initiated projects but where no specific funding is required

Projects being proposed as part of the fulfilment of MD, DNB, DM and MCh programmes and PhD work.

Pharmaceutical company sponsored trials.

Extra-mural directly approved project’s progress report to be put before RAC for review.

Comments

Prof. (Dr.) Kameshwar Prasad appreciated the achievements of the Institute and advised to put before the Research Advisory Committee only those projects which are submitted/ or proposed for Multi-Disciplinary Research Unit of DHR. However, intramural or extramural projects can be put before RAC, if the Director or Dean (Research) deems it fit.

Prof Dipendra K Mitra emphasised to make the project proposal inter-disciplinary i.e clinical projects linked to basic science or vice-versa. Molecular/immunological and clinical research together will enhance the quality of research output of the institute.
Projects submitted under Multi-Disciplinary Research unit

1. Study of causation of cervical cancer using molecular approaches
   PI- R. Sangeeta Pankaj Dept. of Gynaec Oncology
   Comments:-
   HPV genotyping has to be correlated with histopathological findings and few selected genetic markers has to be studied. The purpose of this correlation is to classify the cervical cancer patients in bad, medium and good responders to treatment. For time being, HPV genotyping from outside lab should be supported by the Institute, but in the long run, HPV genotyping system should be procured. Possibility of doing HPV genotyping of numerous known genotypes, using Real Time PCR should be explored and required reagents procured.

2. Evaluation of of AKT/mTOR substrate P70S6K and phospho-mTOR Expression in Gallbladder Cancer
   PI- Prof. VM Dayal
   Apart from genetic pathway of mTOR/Akt, epigenetic modifications like methylation etc., should be studied as patients of GBC are localized in the gangetic basis and not whole population of this region proposal should be focused on study of mTOR-PTEN axis, and expression of proteins/genes related to this axis in different clinical stages as well as impact of treatment on their expression.
   To fulfil the objectives of the project, kits for IHC should be immediately procured and data collected using institute IHC facility.
3. Search of potential molecular biomarkers for diagnosis of obstructive sleep apnea (OSA) in the diverse clinical populations of Bihar

PI- Prof. Rakesh Kumar Singh

Genetic markers of OSA should be studied, so that patients can be classified into various categories depending upon the severity of the disease. The study should be gender specific. The Research design should be specific to meet out the objective. The BMI-matched control should be included in the study. The significant co-morbid factors like obesity, COPD, diabetes etc. may be considered as exclusion factors. The specific biomarkers should be taken into account for studying the underlined events of OSA. One polysomnograph can be procured for the PI.

Confirmed OSA patients (diagnosed at other hospitals like AIIMS) who come at IGIMS for surgery, should be included in the pilot study for gene-expression and cytokine analysis. Luminex platform or ELISA (already available with the institute) should be used for the pilot study to analyse whole panel of pro- and anti-inflammatory cytokines.
4. Genetic Analysis of Steroid Resistant Nephrotic Syndrome – A single centre study from Bihar

PI- Dr. Harsh Vardhan

DNA collected from SRNS patients, should be sent to outside lab for sequencing. In the long run, sequencing facility should be developed.
New Projects approved by Research Advisory Committee

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<tr>
<th>Sl.No.</th>
<th>Name</th>
<th>Department</th>
<th>Topics &amp; Remarks</th>
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<tbody>
<tr>
<td>1.</td>
<td>Dr. Kalpana Singh, Additional Professor</td>
<td>Dept. of Reproductive Biology</td>
<td>Topic: Outcome evolution of Dehydroepiandrosterone (DHEA) supplementation in “Infertile women with diminished ovarian reserve- A Randomised controlled study” Remarks: In-principle approved, Include more co-investigators from the concerned departments helping in the project study. Sample size needs to be re-visited. In this regard for Meta-analysis study literature be consulted.</td>
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<tr>
<td>2.</td>
<td>Dr. Bhavana Tiwari Assistant Professor</td>
<td>Dept. of Reproductive Biology</td>
<td>Topic: “TORCH screening of women in childbearing age group coming to IGIMS, Patna for preconception counselling and infertility treatment –A cross-sectional sero-prevalence study”. Remarks: In-principle approved, Name of the counsellor be added as co-investigator. Proper questionnaire be printed along with informed Consent.</td>
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<td>3.</td>
<td>Dr. Anita Ambasta Associate Professor</td>
<td>Dept. of RIO IGIMS, Patna</td>
<td>Topic: “Microbiological etiology of Endophthalmitis and Role of loop Mediated Isothermal Amplification (LAMP) assay in culture negative cases in a tertiary centre of Bihar” Remarks: In-principle approved, Maintain record of treatment change, involve Microbiology department for Gram’s staining. Microbial analysis using automated identification and susceptibility testing system (BD Phoenix M50)</td>
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<td></td>
<td>Name</td>
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<td>4.</td>
<td>Dr. Gyan Bhaskar</td>
<td>Dept. of RIO</td>
<td>Management and clinic-bacteriological profile of congenital Dacryocystitis in a Tertiary Eye Care Hospital</td>
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<td>Additional Professor</td>
<td>IGIMS, Patna</td>
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<td>5.</td>
<td>Dr. Mobashir sarfaraz Ali</td>
<td>Dept. of RIO</td>
<td>Clinico- Histopathologial correlation of retinoblastoma (RB) and their Management outcome.</td>
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<td></td>
<td>Associate Professor</td>
<td>IGIMS, Patna</td>
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<td>6.</td>
<td>Dr. Rakhi Kushmesh</td>
<td>Dept. of RIO</td>
<td>Indication and outcome of repeat penetrating keratoplasty at tertiary eye centre of eastern India.</td>
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<td></td>
<td>Associate Professor</td>
<td>IGIMS, Patna</td>
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<td>7.</td>
<td>Dr Abhay Kumar, Scientist II</td>
<td>Transplant Immunology, Dept.</td>
<td>Study of disease association of HLA alleles found in Bihar population: Experience from Transplant Immunology unit at IGIMS</td>
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<td>of Microbiology, IGIMS</td>
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<td>8.</td>
<td>Dr. Navin Mishra</td>
<td>Department of Dental</td>
<td>Evaluation of salivary and serum biomarkers (CRP, CK-MB and MMP-9) in cardiovascular disease patients having chronic apical Periodontitis: A multi-centric clinical study</td>
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<td></td>
<td>Asst. Professor</td>
<td>Sciences, IGIMS</td>
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Recommendations of Research Advisory Committee:

Research is the key to excellence in academic medicine. Some forms of research, particularly in the basic and applied sciences, require significant investments and IGIMS has no budgetary provision to support research in a wide range of some basic and substantial clinical and translational medicine.

Economic analyses have shown that the benefits of research are far in excess of investments. These analyses are based on the benefits to society/nation in terms of human health and longevity, and do not consider the long term inquiry driven attitudinal changes that we seek to inculcate in our faculty and trainees.

1. Members of the RAC after perusal of ongoing project reports suggested to the Director, IGIMS to provide RS 5 Lacs for each projects so that the project work is not hampered due to lack of fund.

2. Members also felt that Director, IGIMS should take up with Health Department, Govt. of Bihar, for annual budgetary provision of five crores annually for IGIMS under Research Head, to encourage research in medical sciences as per IGIMS Act 1984.
As per IGIMS act 1984 the mandate and objective of IGIMS, Patna is:

i) to establish clinical research centre,

ii) to develop community health research centre with special emphasis on reproductive biology and population control,

iii) to develop research and training in basic sciences.

Chairman
Prof Kameshwar Prasad
Professor Neurology, AIIMS, Delhi

Approved by
Director,
IGIMS, Patna