



ॐ ज्ञानं ध्यानं श्रुतार्थवेदं ॐ

ADICHUNCHANAGIRI UNIVERSITY



ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES

B.G. Nagara - 571448, Nagamangala Taluk, Mandya District, Karnataka

AIMS PANORAMA

AIMS PANORAMA

REFLECTION OF AIMS NEWSLETTERS - 2021. VOL-11 ISSUE-2

2021, VOL-11
ISSUE - 2

AIMS PANORAMA

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AIMS **PANORAMA**

REFLECTION OF AIMS NEWSLETTERS - 2021. VOL-11 ISSUE-2



॥ ಜೈ ಶ್ರೀ ಗುರುದೇವ್ ॥



ಶ್ರೀ ಆದಿಚುಂಚನಗಿರಿ ಮಹಾಸಂಸ್ಥಾನ ಮಠ Sri Adichunchanagiri Mahasamsthana Matha

ಶ್ರೀ ಆದಿಚುಂಚನಗಿರಿ ಕ್ಷೇತ್ರ - 571811, ನಾಗಮಂಗಲ ತಾಲ್ಲೂಕು, ಮಂಡ್ಯ ಜಿಲ್ಲೆ
Sri Adichunchanagiri Kshetra - 571811, Nagamangala Taluk, Mandya Dist.

MESSAGE

॥ Jai Sri Gurudev ॥

'Doctor' is a word, when heard by anyone can immediately develop respect in the heart. It is the noblest profession in all the professions available throughout the world. Being a doctor is having the responsibilities more, than the privilege. Doctor is considered as a highly responsible person because he can save a life of human being, when the patient is in critical condition.

Medical profession is considered as a noble profession and the doctors have been always compared and equated next to God. The word 'noble' means that a doctor should have qualities like compassion, caring, giving, sharing, concern, helping, etc. A doctor is supposed to treat a person irrespective of caste, creed, religion, financial status, or social status. His sole concern is and should be to remove the miseries of the suffering patients.

Adichunchanagiri Institute of Medical Sciences, BG Nagara, Mandya, Karnataka has been in the forefront of providing professional medical education in the rural part of the country for the last three decades. I am proud to express that our Institution is releasing "**AIMS - PANORAMA Vol. - 11 Issue -2 A Compendium of Departmental Newsletters**" document which comprises of all activities of Faculty and Students for the academic year 2021.

Let us have faith in ourselves and work sincerely, not leaving everything to fate. I beseech the divine blessings of Lord Kalabhyraveswara Swamy and His Holiness Jagadguru Padmabhushan Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji to
all.....

**Yours in the Service of the Lord,
(Sri Dr. Nirmalanandanatha Swamiji)**



FOREWORD

Adichunchanagiri institute of medical sciences was established under the aegis of Sri Sri Sri Dr. Balagangadharanatha mahaswamiji with the purpose of providing proper medical care to the rural population in and around Bellur.

In the past 30 years it has transformed from a rural college to a vibrant, state-of-the-art academic and cultural hub and is now under the patronship of Sri Sri Sri Dr. Nirmalanandanatha Mahaswamiji. All the departments of our college are actively involved in both academic and research activities. Every department has its own newsletter which is published twice a year. To summarize the achievements of the faculty and the post graduate, our college has launched “**AIMS PANORAMA**” 2021 (Reflection of Aims Newsletters) from the previous seven years.

This magazine highlights the curricular and extracurricular activities of various departments with the growing emphasis on research in the field of medicine. It is important to be on the forefront of medical education by publishing genuine research articles and the institution is on the forefront in that direction.

I wish that all of us thrive hard to achieve excellence and reach greater heights in the years to come.

Dr M G Shivaramu, M.D.
Principal, AIMS.
Dean, Health Sciences (Medical)
ACU

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Anatomica-AIMS

OFFICIAL NEWSLETTER OF DEPARTMENT OF ANATOMY



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Our Team



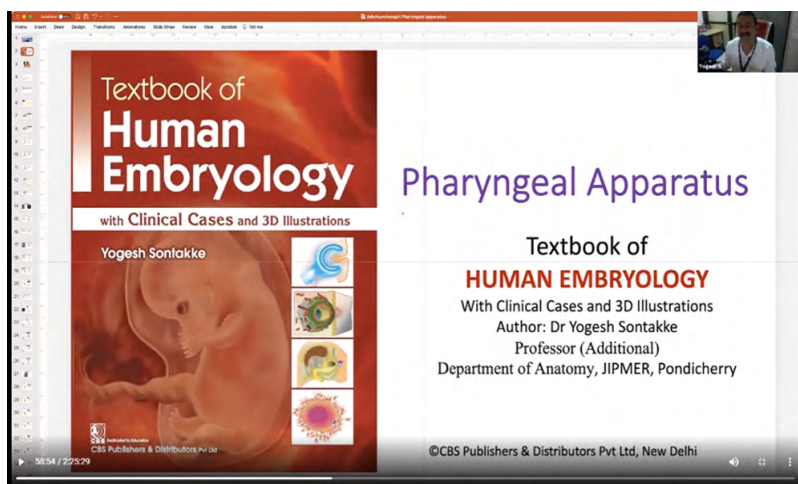
It is indeed a great pleasure to bring AIMS Anatomica Volume 11 Issue 2. Amidst the 2nd wave of Covid pandemic we could complete 50% of syllabus during online classes for 2020 - 21 batch of 1st MBBS. Department arranged a Webinar on development of pharyngeal arches. We conducted horizontal & vertical integration sessions by collaborating with faculty of other departments. World Anatomy Day was enthusiastically celebrated in the month of October by organizing a Quiz.

AETCOM module 1.1 (IMG) was conducted in a game show format and was appreciated by all students and faculty members.

Our faculty members attended the webinars arranged by NAAC & IQAC. New faculties have been recruited to the department for the increase in undergraduate and post graduate seats. I extend my gratitude to our beloved principal Dr M G Shivaramu for his support & guidance.

- Dr Sharada B M

WEBINAR ON DEVELOPMENT OF PHARYNGEAL ARCHES



Dr. Yogesh Sontakke, Additional Professor, Department of Anatomy JIPMER (An institution of national importance under the Ministry of Health and Family Welfare, Government of India) Pondicherry conducted a webinar on development of pharyngeal arches for first MBBS students on 22nd July 2021.

WORLD ANATOMY DAY



Organized Anatomy Quiz on the occasion of World Anatomy Day (15th October). Quiz was conducted in two rounds. First round was on MCQs. The top six teams consisting of two members each were selected for the final round held on 12th October 2021.

I prize : Vijayalakshmi R & Ananya N M
II Prize : Vidyanathan G & Impu V
III Prize : Chitra M N & Rachith Agarwal

AETCOM Module 1.1: What does it mean to be a doctor?



Emcee by Dr Ajay N



Welcome speech by Dr Sharada BM



Department conducted AETCOM module 1.1: What does it mean to be a doctor in a game show format on 15/11/2021. The responses from the students for the questionnaires related to AETCOM module 1.1 were collected in google form, analyzed.

The students were divided into two teams and asked to guess the common responses given by them for each question. This approach helped in breaking the monotony of usual class and facilitated their learning in a cheerful way.

CAREER GUIDANCE FOR UG STUDENTS & INTERNS



Flight Lieutenant Dr Dakshayani B, Airforce Station Dinjan, Assam addressed UG students & Interns in a career



guidance program organized by the department in association with AIMS Alumni on 18th November 2021.

Integrated teaching session on “Surgical Aspects of Inguinal Canal”



Dr. Venugopal K J, Assistant professor, Department of General Surgery, AIMS delivered an integrated session for I MBBS students on the topic “**Surgical Aspects of Inguinal Canal**” on **03/12/2021**, between **10 – 11 am**.

New Faculties



Dr Yogi Anupkumar Balakrishnan
Associate Professor
MBBS & M.D from A.J Institute of
Medical Sciences and Research Centre.



Dr Jayaprakash T
Associate Professor
MBBS from KMC Mangalore &
MD Anatomy from JIPMER, Puducherry



Dr Naveen Kumar B D
Assistant Professor
UG from SAMC Bengaluru
& PG from KMC Manipal

Publications

1. **Tejaswi HL, Asharani SK, Ajay N.** Perceptions of First-Year Medical Students on the Use of Whole Slide Imaging in Learning Histology. *Academia Anatomica International*; 7 (2): 1-6.
2. **Asharani S K,** Jyothi Lakshmi G L. Foramen Magnum: An Osteological Study in Adult Indian Population. *Indian Journal of Anatomy* 2021; 10(2): 09-13.
3. Jyothi Lakshmi G L, **Asharani S K.** A Morphometric Study of Nutrient Foramina in Dry Femur Bones. *Indian Journal of Anatomy* 2021; 10(2): 15-8.
4. **Savitha V,** Vidya H K, Anatomical Study of Origin of Sinuatrial Nodal Artery in Human Cadaveric Heart Specimens. *Indian Journal Of Anatomy* 2021; 10(2): 19-22.



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ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES

A constituent college of Adichunchanagiri University



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Dr. Malini M.

Assistant Professor

Dr. Divyashree

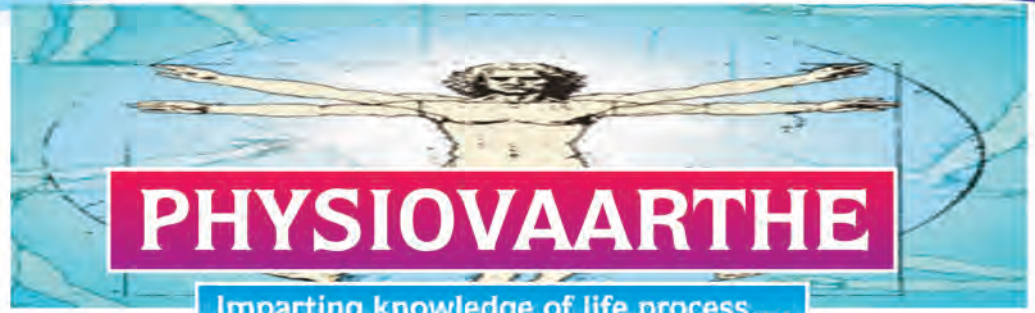
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BI-ANNUAL NEWSLETTER FROM THE DEPARTMENT OF PHYSIOLOGY

Volume - 11

Issue - 2

July - December - 2021

Dear readers,

Greetings from the Department of Physiology and a very Happy New Year 2022 to all the readers

It gives me immense pleasure to place before you the Volume 11, Issue (2) of our Newsletter, "Physiovaarthe" which has stood up to its objective of sharing the activities of the department and recent updates in the subject, for the past 11 years.

I feel proud to say that the department is progressing well in all fronts from academics to research, co-curricular and extra-curricular activities with the constant support, encouragement from our beloved Principal, co-operative work culture of all the department faculty and enthusiastic participation of students.

The department has ensured an effective implementation of all components of CBME curriculum to the I MBBS students even in the midst of difficult times due to the current pandemic.

During this period, the department has successfully implemented two AETCOM modules assigned to its responsibility, conducted student seminar as part of participatory learning and training of students towards self-directed learning. The second edition of student competition "A tribute to Nobel laureates" was conducted, to highlight the importance of knowing the contributions of these great scientists towards the understanding of Physiology and medicine of the present day and motivate them into research.

Further, in alignment with the curricular requirements, the department successfully conducted many integrated teaching sessions with the participation of other basic sciences and clinical departments.

As a mark of remembrance and respect, the department conducted Dr. Rajagopal Memorial Guest lecture by inviting an eminent speaker for the benefit of the undergraduate students. The department also felicitated the toppers of 2019 batch of MBBS who secured distinction and also the winners Professor and Head of various events conducted by the department. To encourage literary skill in Kannada, the department in association with AIMS Kannada Balaga on the occasion of world environment day had organized a Essay writing competition for all students and faculty of the institution, which saw a good participation from all.

Dr. Sudhir G K

Professor and Head



OUR TEAM



STUDENT SEMINAR

Online student seminar was organized by our department on 23-07-2021 between 11am to 1pm. Each group of 25 students were given a topic, guided by their respective mentors and one student from the group was selected for the presentation. The topics for the seminar were SDL topics of Digestive system and Respiratory system. Top three presenters were selected based on set criteria and were awarded with prizes and certificates.

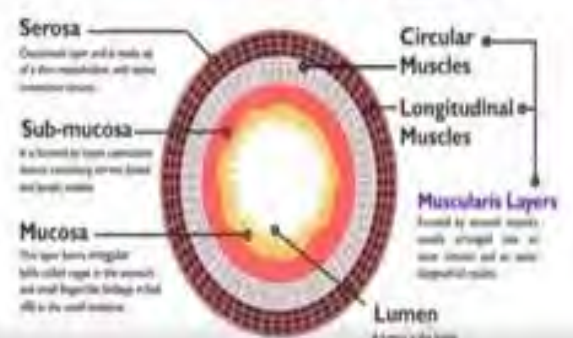


4. SPEECH PHONATION

- Phonation is achieved by larynx
- Movement of air in the respiratory passage helps - improvement of voice
- Applied-voice become thick with nasal intonation in nasopharyngitis and nasal obstruction



STRUCTURE OF GASTROINTESTINAL TRACT..




- Serosa**: Outermost layer and is made up of a thin mesothelium with some connective tissue.
- Sub-mucosa**: It is formed by loose connective tissue containing some blood and lymph vessels.
- Mucosa**: This layer forms irregular folds called rugae in the stomach and small finger-like outpocket called villi in the small intestine.
- Circular Muscles**
- Longitudinal Muscles**
- Muscularis Layers**: Formed by smooth muscles usually arranged into an inner circular and an outer longitudinal muscle.
- Lumen**: A space in the lumen part of the digestive tract.

DIGESTION OF CARBOHYDRATES



Chylomicrons

- These are the type of lipoproteins helps in transport of exogenous triglycerides from intestine to peripheral tissues like adipose tissue and skeletal muscle via lymphatics
- In extrahepatic tissue capillaries, lipoprotein lipase hydrolysis TAG to glycerol and free fatty acids. The free fatty acids are esterified back to triacylglycerols and stored by adipose tissues, glycerol is taken up by the liver



Initial digestion of protein in stomach

- ▶ No digestion of protein takes place in the mouth,
- ▶ Hydrochloric acid denatures protein and also converts pepsinogen to pepsin
- ▶ Pepsin breaks the protein down into peptides of various lengths and some amino acids
- ▶ Pepsin act only at pH 1.6-3.2
- ▶ Pepsin completes - 10-20% of digestion

- It coordinates the sympathetic and parasympathetic arms of the autonomic nervous system (ANS), which direct both afferent and efferent neural signals between the gut and the brain, respectively.
- The HPA axis meanwhile coordinates adaptive responses against stress including activation of memory and emotional centres in the limbic system of the brain.
- The neuro-immuno-endocrine mechanisms of the GBA allow the brain to influence intestinal function (promote cells, epithelial cells, enteric neurons, and smooth muscle cells).





STUDENT COMPETITION

"A Tribute to Nobel Laureates – Series II"

A student competition on the topic "A tribute to Nobel Laureates – Series II" was organized for I MBBS students of 2020-21 batch on 22/09/2021 from 10:00 am to 1:00 pm on historical aspects of medicine. The students worked as a team voluntarily constituted, on the selected Nobel laureate in the field of Physiology and Medicine under the guidance of their respective mentors. The event was attended by faculty members from Departments of Anatomy & Biochemistry along with the faculty from Department of Physiology and all I MBBS students.

5 students were selected as representatives from each mentor-ward group. The following Nobel Laureates were identified based on their significant contribution to Physiology and also its relevance to students in strengthening their physiological concepts.

- Ivan Petrovich Pavlov (Physiology of digestion)
- Schack August Sternberg Krogh (Capillary motor mechanism)
- Charles Robert Richet (Anaphylaxis)
- Erwin Neher & Bert Sakmann (Single Ion Channel)
- Willem Einthoven (ECG)
- Joseph Erlanger & Herbert Spencer Gasser (Classification of nerve fibers)

Each team was given a time of 12+3 minutes to present and was assessed by our department teaching faculty based on the following criteria – Introduction (self and group); Introduction of Scientist; History behind discovery; Body of the presentation; Implications of discovery; Recognition for discovery; Summary and Thanking; Answering to Questions to Presenters and other group members.

Based on scores of the assessment, top 3 teams were identified. Certificates and prizes were announced for the top 3 teams and consolation prize with certificates for the other participating teams.





"A Tribute to Nobel Laureates – Series II"





Two modules of AETCOM 1.2 titled 'What it means to be a patient?' & 1.3 titled 'Doctor patient relationship' were conducted for I MBBS students.

AETCOM Module 1.2 - conducted on 16th & 17th November

Session I:

Session I was conducted on 16-11-21 between 2pm to 4pm. Students shared their experience as a patient / patient's relative / friend. This was followed by the role plays on common errors in patient care and the patient expectations from the doctor. Six teams were formed from each mentor ward group, and were asked to enact on following case scenarios,

1. Managing Non-Emergency case in the primary health care centre, right and wrong method.
2. Managing Emergency case in the primary health care centre, right and wrong method.
3. Maintaining Privacy and confidentiality of patients in the health care centre, right and wrong method.

Reflections on the role plays were obtained and the session was concluded by congratulating all the participants.



Session II:

Session II conducted on 17-11-21 between 11am to 1pm and 2pm to 4pm. The students in small groups of 5 each visited the hospital ward and interacted with the patients regarding their history of illness, suffering, expected care & any other problems related to the treatment. After the hospital visit, the students were divided into 6 small groups of 25 each where students gave reflections and discussed the SDL of the module.



AETCOM Module 1.3 -conducted on 23rd, 24th November

Session 1:

Was conducted on 23-11-21 which began with a large group session by Dr Anand KSS on the competencies of the AETCOM modules followed by projecting two short video clippings on Empathy and Doctor-Patient relationship under the moderation of Dr Sudhir GK. This was followed by a presentation on 'Tips for good communication skills' by Dr Malini M.

Following this, students were divided into small groups of 25 each and addressed by one faculty for each. During this, students were asked to give reflections on the videos and discussion was held on two case scenarios related to this module. Session concluded with summarizing the key points such as Trust, Rights of Patient, Duties of Doctor, Boundaries in doctor patient relationship, Trust and Vulnerability in doctor patient relationship .



Session 2:

Was conducted on 24/11/2021 (11am -1pm) students in small groups visited specified OPDs designated to them accompanied by a faculty member. Later students gave their reflection on their observation made (interaction between doctor and patient and communication skills of the doctor) during their visit. Session was closed with summary and feedback.

Students were divided into 6 small groups of 25 each where students gave reflections and discussed the SDL of the module

VERTICAL INTEGRATION CLASSES

Four vertical integration sessions were conducted for IMBBS students during this period.

Session 1: On topic 'Physiology of deafness & tests for its diagnosis' was conducted in collaboration with ENT department on 17-11-21 between 10am to 11am. Under this topic Pathophysiology of deafness and bedside tests for its diagnosis was handled by our faculty Dr Anand KSS. Utility, principle and procedure of Audiometry in diagnosis and management of deafness was handled by Dr Pragathi from ENT department.



Session 2: On topic 'Physiology of infancy & anthropometry' was held on 19-11-21 between 9am to 10am in collaboration with the Pediatrics department. Physiology of infancy was taken by our faculty Dr Smitha.N followed by Anthropometric assessment of infants and Interpretation of growth charts taken by Dr Praveen.U from Pediatrics department.



**VERTICAL INTEGRATION CLASSES**

Session 3: On topic 'Physiological consequences of sedentary lifestyle' was conducted on 24-11-21 between 10am to 11am sharing the platform with the Biochemistry department. The physiological effects of sedentary lifestyle was discussed by our faculty Dr Manjushree R. Daily energy requirements & dietary recommendations for different living styles was discussed by Dr Namitha D from Biochemistry department.



Session 4: On topic 'Visual pathway, effect of lesions and its diagnosis' was conducted on 26-11-21 between 10am to 11am in collaboration with Ophthalmology department. Visual pathway was dealt by Dr Ravi GN whereas lesion at various levels of visual pathway and tests for diagnosis of the lesions at various levels was dealt by Dr Spoorthy S from the Department of Ophthalmology.





KANNADA ESSAY Competition

The Department of Physiology in collaboration with AIMS Kannada Balaga, organized a Kannada Essay writing competition on the occasion of Kannada Rajyotsava and World environmental day on 03.12.2021. The topic of essay writing: Effect of growing Industrialization and Urbanization on environment and our role in its control. The program was organized for both students and staff of AIMS. The event received a good response with more than 30 registrations. The essays were judged based on Kannada language usage, writing skills and content by members of Kannada Balaga and faculty of Department of Physiology. The winners of the competition were Mr. Nanjegowda M.S, II M.B.B.S student winning the 1st prize (Rs.2000/- gift voucher), Miss. Deeksha N, I M.B.B.S student winning the 2nd prize (Rs.1500/- gift voucher) and Miss. Srilakshmi B.M, III M.B.B.S student winning the 3rd prize (Rs.1000/- gift voucher). Winner's certificate and certificates of participation were given to all participants.

1st Prize



Mr. Nanjegowda M.S

2nd Prize



Miss. Deeksha N

3rd Prize



Miss. Srilakshmi B.M

PROFESSIONAL DEVELOPMENT ACTIVITIES

Dr Divyashree, Asst. Professor, completed the online course in BCBR conducted by ICMR





Changes in Department faculty profile



Dr Ravi G. N. was promoted as Associate Professor in August 2021.



**Dr. Smitha N
Appointed as Asst. Prof
from August, 2021**



**Dr. Manjushree R
Appointed as Asst. Prof
from August, 2021**



**Dr. Santosh K Mayannavar
Appointed as Asst. Prof
from December, 2021**



**Dr Jyothi.S Asst. Prof
relieved in October, 2021**



Dr.M.S Rajagopal Memorial Guest Lecture "Role of Basal Ganglia in motor functions" and Award ceremony

The guest lecture on "Role of Basal ganglia in motor functions" was organized on 29th October 2021 for the benefit of I MBBS students and faculty. The speaker was Dr.

Prashanthkumar M., Professor & Head, Department of Physiology, Dr C.D.S.I.M.E & R, Dayananda Sagar University, Harohalli, Ramanagara District.

The scientific session had explanation on the anatomy of basal ganglia nuclei, their connection and functions briefly, followed by an elaborate talk on role of basal ganglia nuclei in motor functions, neural pathways, their importance and clinical conditions occurring due to abnormalities in these circuits.

Speaker explained about applied physiology with relevant AV aids. The session was made more interesting through interaction with students. The program concluded with reflections & feedback from the students.





Oath taking ceremony on occasion of Vigilance awareness week – 2021

The Department of Physiology in association with IQAC-AIMS organised Oath taking ceremony on occasion of Vigilance awareness week – 2021 for I MBBS students and Pre-clinical department faculties on the day of guest lecture on 29-10-21.



Award ceremony

The Department had organised an Award ceremony to felicitate the toppers of 2019-20 batch I MBBS students (distinction holders) and winners of student competition 'A tribute to Nobel laureates', distribute prizes to winners of Yoga day competition.





Publications

1. **Malini M, Divyashree, Sudhir GK, Ravi G N, Anand K S S** "Perception of Phase I MBBS Students towards online classes compared to offline in Physiology Teaching and Assessment of CBME curriculum during Covid-19 Pandemic." Journal of Dental and Medical Sciences (IOSR-JDMS), 20(10), 2021, pp. 43-47
2. **Ravi G N, Sudhir G K** - Study of Depression, Anxiety & Stress among First Year Medical Students. Sch Int J Anat Physiol 2021:117-19.

RESEARCH WORK/PROJECTS PRESENTLY WORKING ON (LIST)

Faculty projects (self funded)

1. **Dr Sudhir G K** Assessment of relation between sleep pattern, waist circumference and glycosylated hemoglobin in healthcare professionals in A. I. M. S., B.G. Nagara
2. **Dr Sudhir G K** Pattern of recovery of taste and smell sensations among patients as a consequence of Covid-19 infection.
3. **Dr Malini M** A comparative study of Effect of Anaemia on Pulmonary Function Tests and Cardiovascular changes in Young Adult Females.
4. **Dr Divyashree** - Degree of loss of taste and smell among recovered covid infected patients in B G Nagara – Cross sectional study.
5. **Dr Anand and Dr Divyashree** – Modifiable risk factors for Coronary artery disease identified in apparently healthy individuals.
6. **Dr Malini M** Effect of Moderate Intensity continuous and High Intensity Intermittent Aerobic Exercise Training Programme on Cardiorespiratory, Blood glucose and Lipid Profile among Type 2 Diabetes Mellitus Individuals – **Ph.D** thesis topic at ACU.
7. **Dr Ravi G N** – Association between prediabetes and pulmonary functions in South Indian population. – Ph.D thesis topic at ACU.
8. **Dr Anand K S S, Dr Smitha N and Dr Manjushree R** have enrolled for BCBR – cycle 5

Interdisciplinary research projects (funded)

1. **Dr Malini M**, Nutritional Status Among Adolescence in Tribal population of Mysore District of Karnataka – submitted Interdisciplinary (Physiology, Pathology, Community Medicine) Research proposal of Ad-hoc project for grants under extramural research program of ICMR for the year 2021.
2. **Dr Malini M**, Evaluation of Cardio-vascular risk factors among faculties of constituent colleges of Adichunchanagiri University – A cross sectional study.

Student projects (funded)

1. **Dr Malini M** Relationship between ABO blood group and pregnancy complications – Miss Meghana C R Under the Guidance of Dr. Malini M. (ACU Funded STS Project)

ICMR (Completed)

1. **Dr Malini M** Effect of Exercise on ECG in young Healthy adults of BG Nagara in Mandya district of Karnataka- Student - Miss Poojadarshini P, Under the guidance of **Dr.Malini.M** (completed and sent to ICMR)



TRAINING / SPECIAL SKILLS:

- **Dr Divyashree** - attended and completed Revised Basic Course Workshop in Medical Education Technologies conducted by MEU, AIMS under the observership of Nodal Centre St. John's Medical College, Bangalore from 24 - 26th August 2021.
- **Dr Sudhir G K** - Curriculum Design, Development and Implementation - Certificate course (FDP) organized by Adichunchanagiri University in association with HESDAR Center Mysuru from September 1 - 4 2021.
- **Dr Divyashree** – completed BCBR course cycle -4 in October 2021.
- **Dr Malini M, Dr Divyashree** – attended workshop on Basics of research methodology and statistical Analysis using SPSS on 30th Nov and 1st December 2021 organized by AIMS - Scientific committee in association with JSS Medical College, Mysore.

Faculty as a resource person

- **Dr Sudhir G K**, As a resource person in the "Revised Basic Course Workshop" for teaching faculty, organized by MEU, AIMS from 24th & 26th August 2021.

Presented

- **Dr Sudhir G K** presented an e-poster "Pre-lecture clinical orientation" – A method to sensitize medical students towards application based learning of Physiology in the International conference RAMSEICON-2021 organized by Department of Physiology, Yenepoya Medical College from 1st to 3rd July 2021.
- **Dr. Malini. M** delivered oral Presentation titled " Perception of Phase I MBBS students towards online classes in Physiology Teaching and Assessment of CBME curriculum during Covid-19 Pandemic" at RAMSIECON-2021 conducted by Department of Physiology at Yenepoya Medical College from 1st to 3rd July 2021.
- **Dr Divyashree** presented oral paper titled "Difference in blood pressure response to isometric exercise in males and females" at RAMSIECON-2021 conducted by Department of Physiology, Yenepoya Medical College from 1st to 3rd July 2021.
- **Dr Divyashree** presented oral paper titled "Waist circumference and waist -hip ratio as a predictor of respiratory risk factor" at ASSOPICON 2021 recent trends in physiology. 7th Annual National E-conference conducted by Department of Physiology, Pramukhswami medical college, Bhaikaka university, Karamsad from 7/9/21 to 9/9/21.



Conducted

- **Dr Sudhir G K** - Webinar Guest lecture - Infrastructure and Learning Resources - Its pivotal role for a better learning experience, organized by IQAC & NAAC, Speaker - Dr. Vinita Bloor on 28th September 2021.
- **Dr Sudhir G K** -Guest Lecture - "Role of Basal Ganglia in Motor Functions" in memory of Dr. M.S.Rajagopal, organized by Department of Physiology, AIMS, Speaker - Dr. Prashanth Kumar M. on 29th October 2021.
- **Dr Sudhir G K** -Webinar Guest lecture - "Intellectual Property Rights", organized by AIMS-LRC in association with AIMS IQAC & NAAC, Speaker - Dr. Anand Bhyrappa on 17th November 2021.
- **Dr Sudhir G K** - "EBSCO Database presentation session", organized by AIMS-LRC in association with IQAC - AIMS.

Attended

- i. **Dr Sudhir G K**, As a delegate in the Webinar on "Learning soft skills for successful practice" organized by UCHPE, SDUAHER, Kolar on 10th July 2021.
- ii. **Dr Divyashree** - Webinar on World Population Day - Let's protect and gift a Beautiful World to Coming Generation: Time to act strong - Control ever Growing Population organized by Department of Community Medicine in association with AIMS NSS Unit on 12th July.
- iii. **Dr Sudhir G K** , As a resource person in the Workshop on "Basic skills in Medical Education" for teaching faculty, organized by MEU, AIMS on 28th & 29th July 2021.
- iv. **Dr Divyashree** - Workshop on Basic Skills in Medical Education organized by AIMS Medical Education Unit on 28th and 29th July 2021.
- v. **Dr Malini M, Dr Divyashree** - Webinar on "Sleep & Polysomnography: Basics to Recent Updates" Conducted by All India Institute of Medical Sciences, Rajkot, Gujarat held on 6th August 2021.



- vi. **Dr Divyashree** - A Guest Lecture and Sensitization Programme on topic- Role of Poison information centre and Analytical Toxicology Laboratory in Clinical Toxicology on 13/08/2021 organized by Department of Forensic Medicine
- vii. **Dr Malini M, Dr Divyashree** - International CME on "Cytokine Storm of COVID - 19: Whom to blame- Virus or Host" as delegate on September 9th 2021 organized by Department of Physiology at Gadag Institute of Medical Sciences.
- viii. **Dr Sudhir G K, Dr Malini M,** As a delegate in the CME on "Emerging Trends in Neurophysiology-A changing paradigm" organized by Department of Physiology, CDSIMER, Ramanagara on 17th September 2021.
- ix. **Dr Anand K S S, Dr Ravi G N, Dr Malini M, Dr Smitha N and Dr Manjushree R** - Webinar on Infrastructure & learning resource- Its pivotal role for a better learning experience in criteria 4 of NAAC of organised by AIMS NAAC and IQAC committee on 28th September 2021.
- x. **Dr Ravi G N, Dr Malini.M** - Webinar on Intellectual property rights organised by AIMS learning resource centre in association with NAAC and IQAC committee on 17th November 2021.
- xi. **Dr Sudhir G K,** As a delegate in the online CME on "Content development for Digital Medical Education", organized by Department of Anatomy, SDUMC, Kolar on 13th November 2021.
- xii. **Dr Sudhir G K,** As a delegate in the online CME on "Betacruize-2021", organized by Department of Physiology, Shri Sathya Sai Medical College & RI, Chengalpattu on 26th November 2021.
- xiii. **Dr Sudhir G K,** As a delegate in the National webinar on "Attainment of Quality benchmark in Medical Education: Responsibilities of a Health institution" organized by IQAC-KGMU in collaboration with ECHO India, on 3rd & 4th December 2021.
- xiv. **Dr Anand K S S, Dr Ravi G N, Dr Malini M, Dr Divyashree, Dr Smitha N, Dr Manjushree R** - Webinar on "Strong student support -key to dynamic student progression" organized by IQAC & NAAC core committee, A.I.M.S, ACU held on 30th December 2021.

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ADICHUNCHANAGIRI UNIVERSITY

ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES

A constituent college of Adichunchanagiri University



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Sri Sri Sri Dr. Nirmalanandanatha
Mahaswamiji

Advisor

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Dean of Health Sciences
(Medical), Principal, AIMS

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Dr. Aliya Nusrath
Professor & Head
Dept. of Biochemistry

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Asst. Professor

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॥ Jai Sri Gurudev ॥

Biomed

(Medicine at Molecular level)
Department of Biochemistry

July to December 2021; Volume 11, Issue 02

From Chief Editor's Desk :

With immense pleasure I am presenting the new issue of BIOMED newsletter.

"We keep moving forward, opening new doors, and doing new things, because we're curious and curiosity keeps leading us down new paths." - Walt Disney

The department got new home in the new building. Shifting to the new department had mixed feelings. Leaving behind the comfort zone of the old department was saddening but at the same time moving to new premises with spacious infrastructure and better facilities brings new opportunities to the staff. The department human resource also strengthened with addition of new faculty and tutors and I welcome Dr. Jyotsna R & all newly appointed tutors to the department. With the new infrastructure the department is preparing for increasing the admissions of undergraduates & postgraduates. The dept. underwent local assessment committee inspections for upgrading UG (From 150 to 250 students) and PG seats (From 1 to 4 PG seats).

The department had good number of scientific programmes and regular academic activities in the second half of the year. Apart from regularly conducting **guest lectures, quiz**, the department also conducted "**Hands on training programme to lab technicians and nurses**". Further the Ph.D programme in the department got a boost with the successful conduction of first **Doctoral Advisory Committee (DAC)** meeting of the newly joined Ph.D. scholars under ACU and the Ph.D. thesis synopsis presentation of Research scholar under RGUHS. The department also conducted the long awaited award function "**Biosem Laurels**" to accolade the academic achievers of 2019 batch. The department for the first time also ventured in conducting **e - poster competition** to all ACU students. We thank our beloved Principal & Dean Dr. MG Shivaramu for always encouraging & supporting the department.



Dept. of Biochemistry Staff

Hands on Training Programme on "Prevention of pre-analytical errors in Clinical Laboratory: Role of Nursing staff and Lab technician" held on 30th July 2021

Hands on Training Programme was organized by Dept. of Biochemistry on "Prevention of pre-analytical errors in Clinical Laboratory: Role of Nursing staff and Lab technician" on 30th July 2021 in two sessions. The programme was attended by 154 nursing staff and Lab technician. The programme was moderated by Dr. Namitha D, Asst. Professor, Dept. of Biochemistry. Ms. Anvitha. K.A and Ms. Ananya. N.M , I MBBS student rendered the invocation song. Dr. Aliya Nusrath, Professor & Head, Dept. of Biochemistry welcomed the gathering and briefed on the importance of training programme. The programme was inaugurated by watering the Tulsi plant. Dr. M G Shivaramu, Principal AIMS, & Dean Health Sciences (Medical), ACU delivered the key note address, he highlighted the importance of training programme for the support staff in lab technologies. Following this, the Dept. Newsletter BIOMED was released. Dr. B G Sagar, Medical Superintendent, AH&RC, delivered the opening remarks and emphasized the importance of preanalytical error prevention. Scientific sessions: Session 1: 11.30 to 1.00pm & Session 2: 2.00 -3.30 pm both the sessions were moderated by Dr. Asha Rani N, Assoc. Professor, Dept. of Biochemistry. The first session on "Pre-Analytical errors and their Prevention" was presented by Mr. Somashekar G N, Asst. Professor, Dept. of Biochemistry, he explained the pre analytical errors and prevention. Following this Dr. Kruthi B N, Asst. Prof. Dept. of Biochemistry, delivered a presentation on "Communication and Documentation of results: A call to Action", she enlightened importance of communication and documentation. Role play was done by Dr. Asha Rani N, Assoc. Professor, Dept. on Biochemistry and Dr. Namitha D, Asst. Professor, Dept. of Biochemistry, to create the awareness on importance of communication. Pretest questionnaire and post-test questionnaire was administered and the programme ended with collection of feedback using template from all the delegates

SESSION 1	SESSION 2	TOPIC	SPEAKER	Moderator of the session
11.45 am to 12.15 pm	2.10 pm to 2.45 pm	Pre-analytical errors and their prevention	Mr. Somashekar G N	Dr. Asha Rani N
12.15 pm to 12.45 pm	2.45 pm to 3.10 pm	Communication and Documentation of results: A call to Action	Dr. Kruthi B N	Dr. Asha Rani N

All are cordially Invited



1st Doctoral Advisory Committee meeting for Ph.D. in Biochemistry

1st Doctoral Advisory Committee meeting for Ph.D. in Biochemistry was conducted on 26th July 2021 at 11.30am via Google meet. Dr. Kruthi B N, Asst. Professor of Biochemistry moderated the session.

Members Attended

1. Dr. M G Shivaramu, Principal, AIMS and Chairperson DAC
2. Dr. R Vishwakumar, Professor and HOD, Dept. of Biochemistry, Narayana Medical College, Nellore
3. Dr. Aliya Nusrath, Professor and HOD, Dept. of Biochemistry
4. Dr. Rajeshwari A, Assoc. Prof. Dept. of Biochemistry
5. Dr. Chikkanna D, Assoc. Prof. Dept. of Biochemistry
6. Dr. Asharani N, Assoc. Prof. Dept. of Biochemistry
7. Dr. Shilpashree Y D, Assoc. Prof. Dept. of Biochemistry
8. Dr. Namitha D, Asst. Prof. Dept. of Biochemistry
9. Dr. Kruthi B N, Asst. Prof. Dept. of Biochemistry

The meeting commenced with welcome address by Dr. Aliya Nusrath, Professor and HOD, Dept. of Biochemistry, AIMS. Followed by keynote address by Dr. M G Shivaramu, Principal, AIMS and Chairperson DAC. Dr. R Vishwakumar, Prof. and HOD, Dept. of Biochemistry, Narayana Medical College, Nellore, provided the opening remarks for the DAC meeting.

This was followed by research proposal presentations

First Dr. Shilpashree Y D, Assoc. Prof. Dept. of Biochemistry, part time Ph.D. scholar presented her Ph.D. synopsis work under the guidance of Dr. Aliya Nusrath

Title of the presentation "FTO Gene Polymorphisms and Thyroid Status Among Type 2 Diabetes Mellitus Patients in Rural South Indian Population: A Cross-Sectional Study"

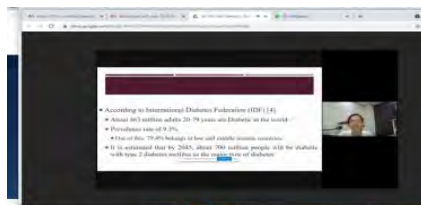
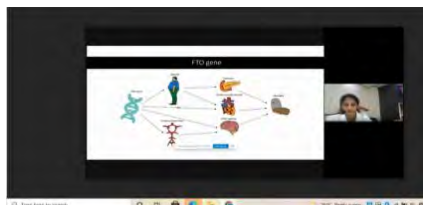
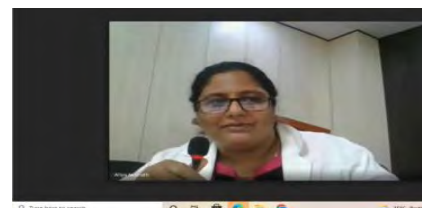
Then Dr. Namitha D, Asst. Prof. Dept. of Biochemistry, part time Ph.D. scholar presented her Ph.D. synopsis work under the guidance of Dr. Asharani N

Title of the presentation "Rediscovering Megalin as a Predictive Biomarker of Cardiovascular risk among Patients with type 2 Diabetes Mellitus"

Following each presentation, the subject expert Dr. R Vishwakumar provided the valuable comments and suggestions.

The subject expert was overwhelmed with the title, selection of topic and objectives, which the scholars had chosen as their Ph.D. work.

Finally, the Academic session was concluded with closing remarks and vote of thanks by Dr. Asharani N, Assoc. Prof. Dept. of Biochemistry



COURSES AND TRAINING COMPLETED BY FACULTY

1. Dr. Aliya Nusrath Underwent training on "Curriculum Design, Development and Implementation" from 1st to 4th September 2021 organized by Hesdar Center, Mysuru, with A+ grade.
2. Underwent training in the "Revised Basic Course workshop in Medical education Technologies" conducted by St. John's Medical College, Bangalore, Nodal centre in MEU at AIMS, B G. Nagara from 24th August 2021 to 26th August 2021.
 - a. Dr. Shilpashree YD, Assoc. Professor
 - b. Dr. Namitha D, Asst. Professor

BIOSEM LAURELS: "AN AWARD FUNCTION FOR ACADEMIC EXCELLENCE IN BIOCHEMISTRY"

Department of Biochemistry organized Biosem Laurels: An award function for academic excellence in Biochemistry" on 28th September 2021 at 11.00 am. The programme had Seminar presentation on the topic "Role of clinical laboratory in Covid-19 pandemic" by 1st MBBS 2020-21 batch students

In the second part of the programme (Laurels) the 2019-20 students were recognized for their participation in JVTM, awards were given for winners of Bio Quiz on Diabetes Mellitus conducted to mark the event of World Diabetes Day 14th November 2020 and academic achievers were awarded for their Academic Excellence. Additionally the participants of e -poster competition on "Strengths & challenges of online learning: Student's Perspectives" were awarded with prizes and certificates.

The programme was presided by Dr. M G Shivaramu, Principal Dean Health Sciences (Medical), ACU. The faculty from preclinical departments, Sri Adichunchanagiri College of Pharmacy (SACP), students from Adichunchanagiri College of Nursing, SACP, BGSIT and MBBS students attended the programme

List of students awarded for Academic achievers of 2019-20 batch are:

- ▶ **Best Student of the Year** – Biochemistry- Ms. Deekshitha Kaiyer
- ▶ **Best Student of the Year** – Biochemistry- Ms. Gayatri Brahmandam
- ▶ **Best Academic Performance (Female)** – Biochemistry- Ms. Rekha S
- ▶ **Best Academic Performance (Male)** – Biochemistry- Mr. Govind Dinesh
- ▶ **Venus stars of the batch IA-** Ms. Anusa Raju Gondkar
- ▶ **Venus stars of the batch IB-** Mr. Hemanth CA
- ▶ **Venus stars of the batch IIA-** Ms. Konkala Mounika Reddy
- ▶ **Venus stars of the batch IIB-** Mr. Prajwal AG
- ▶ **Venus stars of the batch IIIA-** Ms. Spoorthi Mahesh
- ▶ **Venus stars of the batch IIIB-** Ms. Sree Thanvi Bathina and Ms. Srilakshmi Chandrakant Despande

Winners of e-poster competition on "Strengths & challenges of online learning: Student's Perspectives"

- ▶ **I Prize:** Vidyanathan G, AIMS
- ▶ **II Prize:** Prerana M, AIMS
- ▶ **III Prize:** Abhishek TS, SACP
- ▶ **Consolation Prize:** Shrilakshmi S, AIMS
- ▶ **Consolation Prize:** Bhoomika GS . SACP

Winners of Bio Quiz on Diabetes Mellitus

- ▶ **1st Prize:** Ms Haripriya V and Ms Moulya MS
- ▶ **2nd Prize:** Ms Anusha Raju Gondkar and Ms Sinchana KH
- ▶ **3rd Prize:** Mr Chandan M and Mr Yashas B.P.

GLIMPSE OF THE PROGRAMME



ADICHUNCHANAGIRI UNIVERSITY
ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES
B.G. Nagar - 571466, Nagamangala Taluk, Mandya District, Karnataka

DEPARTMENT OF BIOCHEMISTRY
"BIOSEM LAURELS : AN AWARD FUNCTION FOR ACADEMIC EXCELLENCE IN BIOCHEMISTRY"

Date : 28th September 2021 | Time : 11.00 am to 3.00 pm
Venue : Lecture Hall-I

BIOSEM LAURELS AWARD PROGRAMME

Moderation : Dr. Srinivasheer Y D
Invocation : Ms. Anvitha K.A and Ms. Ananya N.M
Welcome address : Dr. Aliya Nusrath
Inauguration : Waterring Tulsi plant : Dr. M.G Shivaramu
Key note address : Dr. Rajeshwari A.
JVTM certificate distribution : Moderation by : Dr. Chikanna D
Quiz prize distribution : Moderation by : Dr. Asha Rani N and Dr. Namtha D
Academic Excellence awards : Moderation by : Dr. Kashi B N
e-poster competition awards : Ms. Somashekar D N
Vote of Thanks : Ms. Somashekar D N

Session 1 - 11.00am to 12.00pm	Session 2 - 12.00 pm to 1.00 pm
<p>Seminar Seminar on "Role of clinical laboratory in COVID-19 pandemic" by Dr. Namtha D on 28th Sept 2021, 11.00 am to 11.30 am, in the auditorium of ACU.</p> <p>Award Function • JVTM certificate distribution to 2000-2020 batch • Quiz prize distribution for 2019-2020 batch • Academic Excellence awards for 2019-2020 batch • e-poster competition awards for 2019-2020 batch • Valedictory function by Dr. M.G Shivaramu</p>	

Dr. Aliya Nusrath
Principal and Head
Dept. of Biochemistry

Dr. M.G Shivaramu
Dean, Health Sciences(Medical) ACU

All are equally Special!



e-Poster Competition on Strengths & Challenges of Online Learning: Students Perspectives" For Undergraduate

e-poster competition on Strengths & challenges of online learning: Student's Perspectives" for undergraduate students of Adichunchanagiri University. Competition was organized by the Department of Biochemistry, AIMS, during the month of August 2021.

Organizing Team :

- ▶ **Dr. Aliya Nusrath**, Professor and Head, Department of Biochemistry
- ▶ **Dr. Rajeshwari A**, Assoc. Professor, Department of Biochemistry
- ▶ **Dr. Kruthi B N**, Asst. Professor, Department of Biochemistry

Timeline of the program:

- ▶ e-poster was accepted from-1st to 15th August 2021, 4:00pm
- ▶ Preliminary evaluation- During preliminary round out of 20 e-posters, top 10 was selected for final evaluation.
- ▶ Final Evaluation: Top 03 posters for 1st, 2nd & 3rd prize and 02 posters for consolation prize was selected
- ▶ Announcement of winners: On 28th September 2021, prizes and certificates were distributed to the winners and appreciation certificates were given to all the participants.

Preliminary Evaluators :

- ▶ **Dr. Aliya Nusrath**, Professor and Head, Department of Biochemistry
- ▶ **Dr. Rajeshwari A**, Assoc. Professor, Department of Biochemistry
- ▶ **Dr. Chikkanna D**, Assoc. Professor, Department of Biochemistry
- ▶ **Dr. Asha Rani N**, Assoc. Professor, Department of Biochemistry
- ▶ **Dr. Shilpashree YD**, Assoc. Professor, Department of Biochemistry
- ▶ **Dr. Namitha D**, Asst. Professor, Department of Biochemistry

Final Evaluators:

- ▶ **Dr. Vijay Shankar S**, Professor and Head, Department of Pathology of Adichunchanagiri Institute of Medical Sciences
- ▶ **Dr. Shashikala S. V**, Professor and Head, Department of CSE of BGS Institute of Technology



Ph.D. Thesis Synopsis Presentation

Title: Isolation, purification and characterization of protein from aqueous extract of medicinal plant *coleus aromaticus* (labiatae) and study of its anti-carcinogenic activity in vitro & in vivo (Albino mice)

Department of Biochemistry organized presentation of Ph.D. Thesis Synopsis of Mr. Santosh Kumar Nune, part time Research Scholar, Dept. of Biochemistry, Sridevi Institute of Medical Sciences, Tumkur, under the guideship of Dr. Aliya Nusrath, Prof. & HOD, Dept. of Biochemistry as per the RGUHS university protocol on 30th September 2021 at 10.30 am to 12.30 noon. The programme was presided by Dr. M G Shivaramu, Principal, AIMS and Dean Health Sciences (Medical), ACU and also attended by Mr. Umesh BK, ACU Finance officer. The external subject expert Dr. Santhi Silambanan, Professor of Biochemistry, Sri Ramachandra Institute of Higher Education & research Porur, Chennai-600116 was present online (google meet link: <https://meet.google.com/jexponk-jba?hs=122&authuser=2>) The programme had the presence of observer deputed from RGUHS Dr. V Vijayakumari, Professor, Dept. of Biochemistry, ESI Medical College, Bangalore. Around 30 faculty members from AIMS including Scientific Committee members, AIMM participated in the programme. Dr. Aliya Nusrath, Prof. & HOD, Dept. of Biochemistry welcomed the gathering. Dr. M G Shivaramu, Principal, AIMS and Dean Health Sciences (Medical), ACU addressed the delegates and highlighted the importance of PhD programme.

Following inauguration Mr. Santosh Kumar Nune, part time Research Scholar, Dept. of Biochemistry, presented in detail the research work leading to Ph.D. degree. The research work was appreciated. The open house discussion had many queries from external subject expert and the delegates which were satisfactorily answered by the research scholar. Suggestions were given by external subject expert to enhance the research work. Concluding remarks were given by the observer.

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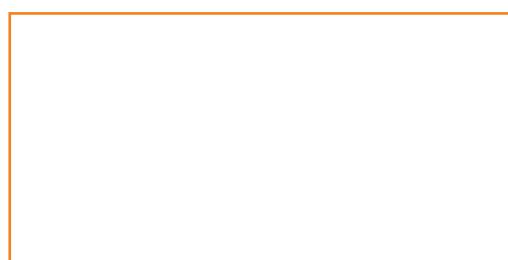
Department of Biochemistry
**Ph.D. THESIS SYNOPSIS
PRESENTATION**

Title : Isolation, purification and characterization of protein from aqueous extract of medicinal plant *coleus aromaticus* (labiatae) and study of its anti-carcinogenic activity in vitro & in vivo (Albino mice)

Ph.D. Scholar : Dr. Santosh Kumar Nune, Part time Research Scholar Dept. of Biochemistry, Adichunchanagiri Institute of Medical Sciences, B G Nagara	Guide : Dr. Aliya Nusrath, Prof. and Head, Dept. of Biochemistry, AIMS, BG Nagara
External Subject Expert: Dr. Santhi Silambanan, Professor of Biochemistry, Sri Ramachandra Institute of Higher Education & research , Porur, Chennai, Tamilnadu	Observer from RGUHS: Dr. V Vijayakumari, Professor, Dept. of Biochemistry, ESI Medical College, Bangalore

Best wishes
Dr. M G Shivaramu,
Principal, AIMS Dean Health Sciences (Medical),
ACU, BG Nagara

Date: 30th September 2021 | Time: 10.30am to 12.00pm | Venue: MEU Hall
All are Cordially Invited



Guest Lecture : To Mark the Event of World Food Day 2021

In view of celebrating World Food Day 2021, Department of Biochemistry organized a guest Lecture on "Health and Nutrition to All". Dr. C S Vivek Babu, Principal Scientist, Food Protectants & Infestation Control (FPIC) Department, CSIR - Central Food Technological Research Institute (CFTRI) Mysuru, was the resource person.

The programme started with invocation and inaugurated by watering Tulasi plant by dignitaries. Dr. M G Shivaramu, Principal AIMS, & Dean Health Sciences (Medical), ACU delivered the key note address.

In the Scientific session Dr. C S Vivek Babu, the guest speaker emphasized on nutritive values of millets and highlighted on the products and technologies developed at CFTRI.

All 1st MBBS students, faculty of Biochemistry department, HOD's of pre, para clinic and faculties from other Departments attended the scientific session. The scientific session was interactive and it was very well appreciated by all the attendees.

|| Jai Sri Gurudev ||

ADICHUNCHANAGIRI UNIVERSITY

Adichunchanagiri Institute of Medical Sciences
B.G. Nagara - 571448, Nagamangala Taluk, Mandya Dist. Karnataka

Guest Lecture Date : 20th November 2021
Time : 11.00 a.m
Venue : Lecture Hall - 1

DEPARTMENT OF BIOCHEMISTRY
WORLD FOOD DAY 2021

WORLD FOOD DAY

TOPIC: "HEALTH AND NUTRITION TO ALL"

Guest Speaker :

Dr. C.S Vivek Babu
Principal Scientist
Food Protectants and Infestation Control (FPIC) Department,
CSIR-Central Food Technological Research Institute (CSIR-CFTRI)
Mysuru-570020, Karnataka, India

All are cordially Invited



Bio Quiz on Diabetes Mellitus for First Year MBBS Students – 2021

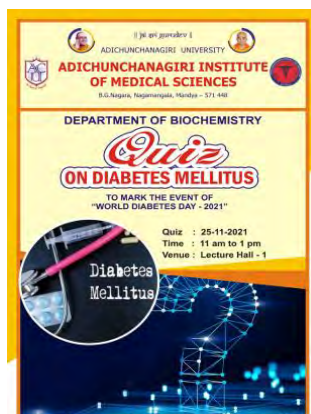
The Department of Biochemistry organized "Bio Quiz on Diabetes Mellitus" for 1st MBBS students to mark the event of World Diabetic Day 2021. Quiz was conducted in two rounds, Preliminary and Finals. In the preliminary round conducted on 15th Nov. 2021, the students participated as a team of two students (75 teams). Top 6 teams were selected for the final round which was conducted on 25-11-2021 between 11 am and 1.00 pm.

Team No	Roll Number	Name of the Participant
Team 1	14	Anusha.N
	56	Kavya Jain.G.B
Team 2	103	Rachith Agarwal
	120	Sanjeev
Team 3	29	Deepthi Rajagopalan
	84	Neeta.H
Team 4	32	Divyashree.N.M
	53	Jahana Firdose
Team 5	6	Akshatha.M
	24	Chitra.M.N
Team 6	9	Ananya.N.M
	101	R.Vijayalakshmi

The quiz masters for final round were Dr. Aliya Nusrath, Prof and HOD, Dr. Rajeshwari A, Assoc. Prof and Dr. Namitha D, Asst. Prof, Dept. of Biochemistry. Dr Chikkanna D, Assoc. Prof and Dr. Sanjana and Dr. Varun D were the scorers and time keepers for the session. Dr. Asha Rani, Assoc. Prof and Dr. Rajeshwari A, Assoc. Prof, Dept of Biochemistry were coordinators of the preliminary round. Final round had 5 rounds (MCQ round, Case study, Guess who am I, Picture clue and Rapid fire round). All the rounds were innovative, clinically oriented and unique which was appreciated and enjoyed by all the participant.

Winners of the quiz

- ▶ **1st Prize: Divyashree NM and Jahana Firdose**
- ▶ **2nd Prize: Akshatha M & Chitra MN**
- ▶ **3rd Prize: Anusha N & Kavya Jain GB**



Faculty as Resource persons

Dr. Aliya Nusrath

1. Resource person for Workshop on "Research Protocol Writing in Workshop" organized by SKAMCH and RC, Bangalore held on 22nd July 2021.
2. Resource Person in the "Workshop on Basic Skills in Medical Education" organized by MEU, AIMS, BG Nagara, on 29th July 2021.
3. Resource Person in the "Revised Basic Course workshop in Medical Education technologies" conducted by St. John Medical College, Bangalore Nodal Center in association with MEU, AIMS, BG Nagara, on 24th August 2021 to 26th August 2021.



Dr. Aliya Nusrath presenting at SKAMCH and RC, Bangalore

Dr. Rajeshwari A

1. Guest speaker on the topic "Awareness programme on Aids" held on 1st December 2021 organized by BGS first Grade College

Dr. Asha Rani N

1. Resource Person in the "Workshop on Basic Skills in Medical Education" organized by MEU, AIMS, BG Nagara, on 29th July 2021.

Dr. Shilpashree Y D



1. Resource Person in the "Workshop on Basic Skills in Medical Education" organized by MEU, AIMS, BG Nagara, on 29th July 2021.

Faculty Forum



New building Pooja



1st Convocation of ACU



Work shop on "BRM & Statistical analysis on SPSS"



Dept. Ayudha pooja



Innugration of FDP programme at Skill & Simulation Lab- AIMS



Conference / Workshop /CME/Guest lectures

Dr. Aliya Nusrath

1. Online preconference symposium on "**Advanced QC Practices**" held on 25th August 2021, organised St. John's National Academy of Health Sciences.
2. Online preconference symposium on "**Liquid biopsy-A Paradigm Shift**" held on 25th August 2021, organised St. John's National Academy of Health Sciences.
3. State level virtual conference on "**Paediatric Laboratory Medicine**" held on 25th to 27th August 2021, organised St. John's National Academy of Health Sciences.

Dr. Asha Rani N

1. CME on "**Update on Diagnostic in Medical genetics**" held on 18th August 2021, organised Raipur Institute of Medical Sciences
2. Online preconference symposium on "**Advanced QC Practices**" held on 25th August 2021, organised St. John's National Academy of Health Sciences.
3. Online preconference symposium on "**Liquid biopsy-A Paradigm Shift**" held on 25th August 2021, organised St. John's National Academy of Health Sciences.
4. State level virtual conference on "**Paediatric Laboratory Medicine**" held on 25th to 27th August 2021, organised St. John's National Academy of Health Sciences.

Dr. Shilpashree YD

1. CME on "**Biochemistry In covid-19**" organised by Gadai Institute of Medical Sciences, on 12.07.2021.
2. Virtual Continuing Medical Education on "**Update on Diagnostics in Medical Genetics**" held on 18th August 2021, organized by Dept. of Biochemistry, Raipur Institute of Medical Sciences.
3. State level virtual conference on "**Pediatric Laboratory Medicine**" held on 25th to 27th August 2021, organized St. John's National Academy of Health Sciences.

Dr. Namitha D

1. Virtual Continuing Medical Education on "**Update on Diagnostics in Medical Genetics**" held on 18th August 2021, organised by Dept. of Biochemistry, Raipur Institute of Medical Sciences.
2. State level virtual conference on "**Paediatric Laboratory Medicine**" held on 25th to 27th August 2021, organised St. John's National Academy of Health Sciences.

Dr. Kruthi BN

1. Attended "**Basic Skill in Medical Education**" held on 28th and 29th July 2021, organized by Scientific committee, AIMS.
2. Virtual Continuing Medical Education on "**Update on Diagnostics in Medical Genetics**" held on 18th August 2021, organised by Dept. of Biochemistry, Raipur Institute of Medical Sciences.
3. State level virtual conference on "**Paediatric Laboratory Medicine**" held on 25th to 27th August 2021, organised St. John's National Academy of Health Sciences.
4. Attended the State Level Online CME on "**Content Development for Digital Medical Education**" held on 13th November 2021 conducted by the Department of Anatomy, Sri Devaraj Urs Medical College, Tamaka, Kolar
5. Wrkshop on "**Basic Research Methodology and Stastical Analysis using SPSS**" held on 30th November 2021 and 1st December 2021, organized by Medical Education Unit

Publication and Presentation

1. Santhosh Kumar Nune, **Aliya Nusrath**, Vedamurthy Joshi. Dinesha Ramadas. **Protective Effect of Coleus Aromaticus Plant Protein against T-BOOH Induced Cell. Damage.** (2021). International Journal of Pharm Science.12(3), 112-119 <http://dx.doi.org/10.22376/ijpbs.2021.12.3.B112-B119>.
2. **Namitha D**, MG Shivaramu, Vijay Kumar AG and Kumar U. **Biochemical method of age estimation by Dentition.** Dent Oral Maxillofac Re.2021; Volume 7:2.1-3.
3. **Namitha D**, MG Shivaramu, Vijay Kumar AG and Kumar U. **Sex determination using biochemical methods from Dentition.** Dent Oral Maxillofacial Re. 2021; Volume 7:2.1-3.
4. **Namitha D**, MG Shivaramu, Vijay Kumar AG and Kumar U. **Cardiac Troponin T Level in Sudden Death Cases – A Prospective Study.** International Journal of Scientific Research.2021; 11(10):1-2.
5. **Namitha D**, MG Shivaramu, Vijay Kumar AG and Kumar U. **Pseudo cholinesterase Level in Organ phosphorus Poisoning – A Prospective Study.** International Journal of Scientific Research.2021; 11(10):1-2.
6. **Namitha D**, Paul Mathew, YD Shilpashree. **Association between Thyroid stimulating hormone with components of metabolic syndrome in postmenopausal Women.** Journal of Clinical and Diagnostic Research. 2021; Vol 15 (12): BC22-25
7. **Dr. Asharani N:** Presented a Paper titled "**Comparison of Neutrophil-To-Lymphocyte Ratio and De ritis Ratio with Glycemic Status in Type 2 Diabetes Mellitus: A Retrospective Study**" in the State level virtual conference held on 25th to 27th August 2021, organised by St. John's National Academy of Health Sciences, Bengaluru.
8. **Dr. Shilpashree Y D:** Presented a Paper titled "**Correlation of Erythrocyte Indices with Glycemic Status in Type 2 Diabetes Mellitus**", in the State level virtual conference at St. Johns National Academy of Health Sciences, Bengaluru, held on 25th to 27th August 2021.
9. **Dr. Namitha D:** Presented a Paper titled "**Lipid Indices: role in Assessment of Microvascular Risk in type 2 Diabetic Retinopathy Patients**", in the State level virtual conference at St. Johns National Academy of Health Sciences, Bengaluru , held on 25th to 27th August 2021.
10. **Dr. Kruthi B N:** Presented a Paper titled "**Triglyceride-Glucose Index and related Parameter: As a predictor of Metabolic Syndrome Among Undergraduate Medical Students**", in the State level virtual Conference held at St. Johns National Academy of Health Sciences, Bengluru, between 25th and 27th August 2021.

Local Assessment Committee Inspection

The department underwent LAC inspection for postgraduate increase of seats feom one to four. Dr. Priyadarshini KS, Professor, Dept. of Biochemistry, Rajarajeshwari Medical College and Hospital, Bengaluru visited the department as LAC Assessor on 23/11/2022. The LAC inspection was successful.





|| ज्ञानं इति ब्रह्मरूपदेव ||

ADICHUNCHANAGIRI UNIVERSITY

ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES

A constituent college of Adichunchanagiri University



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Pharmacologic

Department of Pharmacology

JULY to DECEMBER, 2021;

Volume 11,

Issue 02

Greetings and Regards from the Department

Greetings for good health and cheer from the Department of Pharmacology. I would like to share that the department has come out with the log book and practical record for the CBME 2019 batch. I would like to acknowledge the participation of all the faculty members for the cause.

A lockdown did force us to have 2 months of online classes but that did not hamper the quality of teaching in any way, thanks to technology once again coming to our rescue.

The first internal assessment (theory and practical) was held online and it gave us experiences to understand the student approach to assessments.

The CBME Curriculum has just been great, it covers all aspects of the specialty. We are grateful to the people who took the initiative and framed the curriculum. This is going to provide a comprehensive approach to training in Pharmacology.

Dr Ravi Shankar M,
Professor and Head of the Department



ACADEMIC ACTIVITIES

Dr Ravi Shankar M, Prof and Head

Webinars

Participated in webinar on "Intellectual Property Rights" 17th November 2021 on the occasion of National Library Week organized by AIMS-IQAC & NAAC.

Institutional Activities

Participated in the Academic and Administrative Audit (AAA) conducted by an external committee representing the IEC, IAEC and Pharmacovigilance Committees.

Committee related activities

Participated in the role of member secretary towards the registration of AIMS Institutional Ethics Committee with the National Ethics Committee Registry for Biomedical and Health Research (NECRBHR), Department of Health Research (DHR).

Examination related activities

Participated in conduction of online exams for

a. PG exams –

1. Goa Medical College, Goa University
2. Madras Medical College and Kilpauk Medical College, Tamil Nadu Dr MGR University of Health Sciences.

b. UG exams –

1. Andhra Medical College and other colleges, Vishakapatnam, Dr NTRUHS
2. ACU Exams

Board of Studies related activities

1. Organized and conducted BoS meeting of paraclinical subjects as the Chairperson to introduce relevant and important amendments in the Curriculum with respect to assessments.
2. Participated in Committee of Academic Council meetings as the Chairperson, BoS, Paraclinical specialities.
3. Participated in reviewing the evaluation of the PG synopsis as the Chairperson of BoS, Paraclinical specialities.

Reviewer Certificates received (July to December 2021)



DISCOVERY OF INSULIN: SOME INTERESTING EVENTS

By Dr Ravi Shankar M

The difficulty encountered by all scholars was to separate the extract of the Langerhans islands from the rest of the pancreatic exocrine tissue.

Banting at the University of Toronto succeeded in this. Since November 1920, Banting began working in a laboratory led by John James Richard MacLeod. Banting's goal was to isolate the hormone secreted by the pancreatic islands.

Before leaving for a planned holiday in Scotland, MacLeod allowed Banting to be assisted by two young assistants, Best and Noble. The researchers closed the pancreatic ducts with a technique designed by Banting to get the degeneration of the pancreatic exocrine tissue and to obtain a pancreatic islet from the pure state. With this liquid extract, for the first time, in the history of medicine, Banting and Best found the way to control glucose in a diabetic animal.

On the basis of these successes, on 12th December 1921, Banting and Best reported the results of the discovery of insulin to the American Society of Physiology.

MacLeod, returning from Scotland, guessed the historical importance of the results and, on 11th January 1922, he authorized to conduct experimentation in humans.

Leonard Thompson, a 14-year-old, serious diabetic patient at the Toronto General Hospital, was the first patient to be treated. However, the initial clinical experimentation was a failure: the administration of 15 ml of pancreatic extract had no impact on ketoacidosis, only slightly reducing glycemia and glycosuria, and resulted in the formation of a sterile abscess.

On January 23rd Leonard underwent another series of injections and this time he experienced a normalization of glycaemia, glycosuria, and ketonuria. More in details, glycaemia decreased from 520 mg/dl to 120 mg/dl. Glycosuria dropped from 71 to 9 g; ketonuria disappeared.

The merit was also of the clinical biochemist James Bertram Collip (1892–1965), who developed a new extraction and concentration protocol. Collip, from the alcoholic acid extract of oxen and pork pancreas, showed that these preparations were more effective than those obtained by the binding of the ducts and subsequent degeneration of the exocrine pancreas.

In 1923, a German pharmaceutical laboratory began producing insulin, following the manufacturing license issued by the Toronto Insulin Committee. In 1923, insulin production began in Denmark and Austria, and, in 1924, in Hungary, Australia and Argentina.

In 1923, Banting and Macleod received the Nobel Prize in Medicine, which they shared with Best and Collip.

Dr. Vinaya M

1. Attended the workshop on 'Basics of research methodology and statistical analysis using SPSS' on 30th November & 1st December 2021 at AIMS, BG Nagara
2. Organized Webinar on 'Strong student support – Key to dynamic student progression' on 30th December 2021 at AIMS, BG Nagara as a part of hosting team (NAAC and IQAC team), AIMS.

Dr Padmanabha T S

Webinars, CMEs, Guest Lectures participated/ conducted:

1. Actively participated in webinar on "Intellectual Property Rights" 17th November 2021 on the occasion of National Library Week organized by AIMS-IQAC & NAAC.
2. Participated in two-day National Webinar on "attainment of quality benchmark in medical education: Responsibilities of a Health Institution" organized by IQAC, KGMU in collaboration with ECHO India on December 3rd - 4th.
3. Participated as delegate in the webinar on "Implementation of National Education Policy 2020" organised by Faculty of Allied Health and Basic Sciences (FAH&BS) in association with Internal Quality Assurance Cell (IQAC) on 27-10-2021. (SDUAHER)
4. Participated in 7th Meeting of the Academic Council held on 22-09-2021 at the Medical Education Unit Hall, AIMS, ACU.
5. Part of conducting team for organizing "EBSCO" database presentation (DynaMed and Micromedex with Watson) on the occasion of "National Library Week" (November 14th-20th, 2021) at AIMS by AIMS Learning Resource Centre, in association with AIMS-IQAC and NAAC, on 17th November 2021.
6. Part of ACU First convocation day as volunteer on 15th September 2021

As a Speaker:

1. As a speaker for "Workshop on Basic Skills in Medical Education" for AIMS faculty held on 28th and 29th July 2021 (Topic: Providing Effective Feedback)

Faculty Development Program (FDP) attended:

1. Participated in certificate course on Curriculum Design, Development and Implementation organized by Adichunchangiri University in association with HESDARC from 1st to 4th September 2021 at Medical Education Unit, Adichunchanagiri Institute of Medical Sciences, Adichunchanagiri University.
2. Successfully completed the "Karnataka State Level Training in Guidelines for PMDT in India– 2021" from 22-07-2021 till 23-07-2021 conducted by STDC, Karnataka.

As an examiner for conducting UG practical examination :

1. Conducted UG practical examination as an examiner at various institutions, namely Bidar Institute of Medical Sciences, BGS Global Institute of Medical Sciences and Hassan Institute of Medical Sciences, SSAHE and at MGR University during September -October 2021.

Departmental Activities:

1. Actively engaged in CBME implementation MBBS 2019 batch)
2. Involved in planning and implementation of third practical internal assessment as similar to university examination for MBBS 2019 batch
3. Actively involved in Certification of practical competencies for UG MBBS 2019 batch
4. Actively involved in preparing of Standard Operating Procedure for Institutional Ethics Committee.
5. Actively involved in preparation of First Triannual Report March to June 2021_CBME_Pharmacology

Achievements:

1. Promoted as Associate Professor of Pharmacology on 2nd August 2021
2. Provisionally registered Ph.D. program(Pharmacology) in Medical under the guide ship of Dr RaviShankar M, Prof & Head of Pharmacology, effect from 23/07/2021.
3. Presented PhD synopsis in front of Doctoral Advisory Committee Meeting on 23/07/2021
4. Submitted modified PhD synopsis as per suggestions from Doctoral Advisory Committee (August 2021)





Dr. Sareetha A V

- ▶ Actively participated in screening of research proposals of AIMS, B G Nagara as member of AIMS Institutional Ethics Committee.
- ▶ Actively involved in B.Sc Allied Health Sciences internal assessment and related activities for the batch 2020.
- ▶ Participated in workshop on Revised Basic Medical Education Technologies conducted by St.Johns Medical College from 24.08.2021 to 26.08.2021 at AIMS B G Nagara.
- ▶ Attended workshop on Basics of stastical analysis using SPSS on 30.11.2021 and 01.10.2021 at AIMS B G Nagara.

The department wholeheartedly welcomes Dr Vinayak A, Assistant Professor, who joined as a faculty member. We wish him a very fruitful and a satisfying career.

|| Jai Sri Gurudev ||

ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES

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PATHO-INSIGHT

DEPARTMENT OF PATHOLOGY

July – Dec 2021

Volume 11

Issue 2

From the Desk of Chief Editor

“Adversity has the effect of eliciting talents, which in prosperous circumstances would have lain dormant”

- Horace

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Its indeed a great pleasure to bring out the Second issue of 11th volume of newsletter showcasing various activities done in the department. Our department is blessed with a wonderful team of enthusiastic faculty and vibrant postgraduate students. The department of Pathology has been forerunner in terms of its academic achievements.

Even with the continued Covid -19 pandemic ,the faculty got acclimatized and were motivated to do more. Our faculty have been part of various webinars, within and outside the institution and also participated in various conferences and presented papers and posters. Our students participated in various competitive events and won laurels to our institution.

Our faculty have been resource persons in various medical education and scientific research programs in our institution.

All our ventures have been possible only because of the constant support and encouragement of our dynamic Principal Dr M G Shivaramu who has played a vital role in all our endeavors.

*Regards
Dr Vijay Shankar S
Professor & HOD*



OUR TEAM

REPORT OF UNDERGRADUATE PATHOLOGY QUIZ ON THE OCCASION OF INTERNATIONAL PATHOLOGY DAY



The event presided by Principal



Lighting the lamp



Resource faculty



The teams

With the divine blessings of Paramapujya Jagadguru Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji and Paramapujya Jagadguru Sri Sri Sri Dr. Nirmalanandanatha Mahaswamiji, International Pathology Day is celebrated on the 2nd Wednesday of November every year and this year saw the Department of Pathology, Adichunchanagiri Institute of Medical Sciences celebrate it on the 10th of November, 2021. It is an annual awareness day dedicated to highlighting the fundamental role of pathology in the healthcare community and in the lives of everyone.

The programme was designed to bring out awareness among all the 2nd Year undergraduates. Taking place in the Lecture Hall, in the presence of Dr. M. G. Shivaramu (Principal, AIMS. Dean-Academics, Health Sciences, ACU.) and Mr. Umesh B. K. (Finance Officer, ACU. Registrar, AIMS) as the chief guests, the entire pathology department headed by Dr. Vijay Shankar, Dr. Sanjay, the Quiz master and the attendees of the programme took seat as Dr. Ramya began the proceedings. After a melodious invocation by Reena, the dignitaries – Dr. M. G. Shivaramu, Mr. Umesh B. K., Dr. Vijay Shankar and Dr. Sanjay (quiz master) - were invited to light the lamp. Dr. Vijay Shankar gave the welcome speech. The principal shared encouraging words to the pathologists and to the audience.

The main event for today was the finals of the pathology quiz for the 2nd year undergraduates. After online preliminary rounds, 6 teams of 2 were selected as finalists.

Team A: Rudolf Virchow: Dikshitha & Gayathri
Team B: Maxwell Myer Wintrobe: Spoorthy & Thanvi
Team C: George Papanicolaou. Supriya & Rekha
Team D: Karl Landsteiner. Yashas BP and Anusha N
Team E: V R Khanolkar. Impana M and Chandana JK
Team F: Myrtelle Canavan/ Aakankshi B S and B. Indushree

The action was intense with suspense in the air. Round 1 and Round 2 were questions on general and systemic pathology conducted by Dr. Rajini and Dr. Rakshitha respectively. Round 3 was case scenario based moderated by Dr. Amruthavani and Dr. Jalli Pravallika. Image based Round 4 by Dr. Sanjay somehow eased the rising tensions, leading to the fun-filled simile and metaphor Round 5 by Dr. Kusuma. The last Round 6 was the high-scoring, game changing rapid fire hosted by Dr. Ramya.

Dr. Nanjundaswamy and Dr. Dhanalakshmi were on the scoring team, and they declared Team

Georgios Papanikolaou as the winners followed by Team Karl Landsteiner as the 1st runner-up and team Myrtelle Canavan as 2nd runner up. the teams who won first and second place, will get to represent the institution at state and national level quiz competitions later this month.

With the vote of thanks delivered by Dr. Sanjay, the programme was received very well and was a grand success.



Winners



The department with all the participants

Report of KAPCON 2021

KAPCON2021 is the 48th Annual conference of Karnataka chapter – Indian association of Pathologists & Microbiologists (KCIAPM) conducted virtually from 1st to 3rd October 2021. Adichunchanagiri institute of medical sciences, Adichunchanagiri university was a part of conference by being official technical sponsors for poster presentations and workshops which were conducted as pre conference events.

A total of 400 papers were conducted in different institutions across the state virtually for which AIMS, provided the technical support. Department of Pathology also hosted 3 sessions of paper presentation on 24th September 2021 with Dr Ramya, Dr Rashmi and Dr Pravalika, postgraduate students coordinating the sessions with DR Vijay Shankar as the moderator for the same.



A total of 10 workshops were organized as a part of conference on 29th and 30th September 2021 for which AIMS, provided technical support. Department of Pathology hosted 3 workshops online with Dr Rashmi, Dr Ramya, postgraduates and Dr Amruthavani, senior resident coordinating the same

The workshops which were coordinated were

a. G I Pathology; b. Hematopathology; c. Dermatopathology



ROLE OF DEPARTMENT FACULTY IN MEDICAL EDUCATION

Our department has a very active role in the field of medical education.



- **Dr. Amita.K** Delivered guest lecture on "Framing MCQs" at AIMS, BG Nagara ay FDP programme conducted by Medical Education Unit on 28th July 2021.

- **Dr Vijay Shankar S** Delivered guest lecture on " learning domains and progression of learning" at AIMS, BG Nagara ay FDP programme conducted by Medical Education Unit on 28th July 2021.
- **Dr.Vijay Shankar.S** Delivered a talk on " Choosing a teaching method for objectives and competencies " at AIMS, BG Nagara ay FDP programme conducted by Medical Education Unit on 25th August 2021.
- **Dr. Vijay Shankar.S** Delivered a talk on " Matching assessment to competency, objectives and learning - Choosing the right assessment" at AIMS, BG Nagara ay FDP programme conducted by Medical Education Unit on 26th August 2021.

FACULTY AS RESOURCE PERSONS AT CME/CONFERENCES

- **Dr Ramya Suresh**, Postgraduate student , delivered a talk online on “Covid, different variants and mental impact on school kids” for the students and teachers of Global City International School, Bangalore on World Doctor's Day on 1st July 2021
- **Dr. Amita K** Delivered a guest lecture for faculty members of Cambridge Institute of Technology Bangalore on “Breast and cervical cancer: Awareness, self diagnostics and prevention” on 11th October 2021
- **Dr. Amita K** Delivered a guest lecture on “Breast and cervical cancer: Awareness, self diagnostics and prevention” on 23rd November 2021 at BGSIT, ACU for faculty members and first year engineering students.
- **Dr. Amita K** Delivered a talk on “Framing hypothesis and Objectives”. in “Workshop on Basics of research methodology and statistical analysis using SPSS” on 30th November and 1st December 2021
- **Dr Vijay Shankar S** delivered a talk on “ Limitations of Social Media/networking in medical publishing” at the “Gaya Prasad Memoria Symposium” at APCON2021 69th Annual Conference of IAPM conducted virtually on 4th Dec 2021 by IAPM Chhattisgarh Chapter.



Dr. Amita. K
being felicitated., at BGSIT, ACU



Dr. Ramya Suresh

FUNDED RESEARCH PROJECTS :

- Submitted research project report of Mr Nirant, guide **Dr Amita K**. Title: Relationship of MPV in predicting severity in hypertensive retinopathy on 30th November 2021
- **Dr Amita K**: Nutritional status among adolescence of jenu kuruba tribal population in mysore district of karnatakato - ICMR under ADHOC extramural research scheme.

JUDGE / CHAIRPERSON

Dr Vijay Shankar conducted the proceeding of M R Parthasarathy and AV Ramaprasad Oration award on 1st September 2021 and also chaired the session of hematopathology on 3rd September 2021 at KAPCON2021

Dr Vijay Shankar judged Undergraduate Paper presentation conducted on 30th September 2021 at 48th Annual Conference of KCIAPM, KAPCON 2021

Dr Amita K, Professor of Pathology was the Judge of Postgraduate Paper presentation conducted on 25th September 2021 at 48th Annual Conference of KCIAPM, KAPCON 2021

Dr Vijay Shankar S Chaired Session on " MILAN system of reporting salivary gland cytopathology " from the needle to scalpel" at IAC KCCON held online at SDM medical college on 21st August 2021

CONFERENCES/GUEST LECTURES/CMES ETC. ATTENDED BY FACULTY / STUDENTS

The faculty and postgraduates have regularly attended various CME,s Workshops and slide seminars held at various institutions across the state.

INTERDEPARTMENTAL COLLABORATION |DEPARTMENT OF RADIOLOGY

Our Faculty and PGs Participated in a hands-on on workshop conducted by Department of Radiology - **USG guided biopsy and FNAC** on 18th August 2021



EXAMINATION AND RELATED ACTIVITIES

- **Dr. Vijay Shankar S** Carried out university assignment of SSMC practical exams as external examiner at Siddhartha institute of Medical sciences, from 29th and 30th June AND JULY 1 2021
- **Dr. Vijay Shankar S** Carried out university assignment of RGUHS PG practical exams as external examiner at BMC m Bangalore , from 9th & 10 August 2021
- **Dr. Vijay Shankar S** Carried out university assignment of RGUHS UG practical exams as external examiner at BMC m Bangalore , from 7th October 2021
- **Dr. Abhishek M G** Carried out university assignment of RGUHS PG practical exams as internal examiner at MMC, Mysore from 9th & 10th August 2021.

- **Dr. Abhishek M G** Carried out university assignment of RGUHS UG practical exams as internal examiner at MMC, Mysore from 7th October 2021.
- **Dr. Amita.K** Carried out university assignment of ACU UG practical exams as internal examiner at Adichunchanagiri institute of medical sciences from 12th to 14th July 2021.
- **Dr. Amita.K** Carried out university assignment of RGUHS PG practical exams as internal examiner at MSRMC, Bangalore from 9TH to 11th August 2021.
- **Dr. Prakash** Carried out university assignment of ACU UG practical exams as external examiner at BGS GIMS from 12th to 14th July 2021.
- **Dr. Prakash** Carried out university assignment of RGUHS UG practical exams as external examiner at SIMS Shimoga from 11th to 12th October 2021.
- **Dr. Sanjay** Carried out university assignment of RGUHS UG practical exams as external examiner at HIMS Hassan from 7th October 2021.



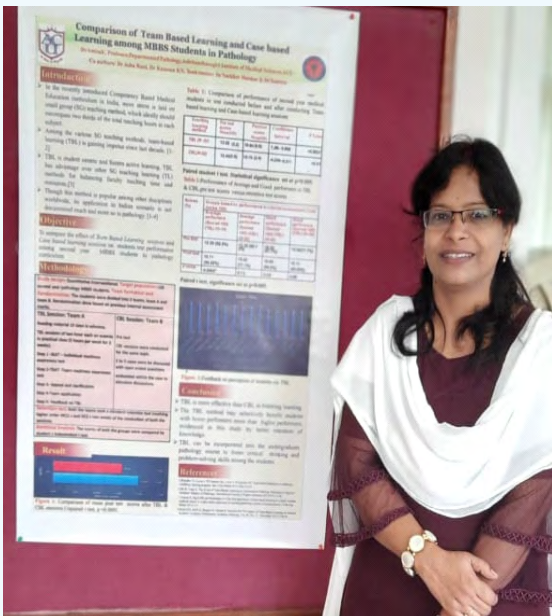
LIST OF PUBLICATIONS

1. **Singh M, Amita K.** Prevalence and Determinants of Obesity/overweight and Undernutrition Among School Going Adolescents 10 to 17 years in Rural Area of South India. Online J Health Allied Scs. 2021;20(2):1.
2. **Kumari A, Amita K.** Diagnostic Efficacy of Endometrial Aspiration Cytology in Abnormal Uterine Bleeding - A Cross Sectional Study at a Tertiary Care Hospital. Online J Health Allied Scs. 2021;20(3):13.
3. **Amita K, Chandana N.** Cytological Diagnosis of Rare Synchronous Primary Malignancies. Online J Health Allied Scs. 2021;20(3):17.(SCOPUS)
Abstract Published in J Cytol 2021
4. **Kusuma KN, Chandana N, Shankar SV.** Palatine Tonsillar Epidermoid Cyst- Mimicking Cystic Tumor. Selcuk Med J 2021;37(3): 283-286
5. **Rajini T, Amita K.** Diagnostic Accuracy of Fine Needle Aspiration Cytology in Breast Masses among Children and Adolescents Aged Below 21 Years of Age- A Cross-sectional Study. JCDR:2021;15(7): EC15-EC20.

LIST OF ABSTRACTS (PAPERS AND POSTERS) PUBLISHED

1. **Amita K1 , Ramya Suresh1, Prashantha Kalappa.** Complexity of cluster density by using grey image fractal analysis - an adjunct tool for FNAC in diagnosis of breast lesions © 2021 Journal of Cytology | Indian Academy of Cytologists | Published by Wolters Kluwer – Medknow
2. **Ramya Suresh, Amita K, Sanjay M,** effectiveness of International System For Reporting Serous Fluid Cytology In Routine practice – an institutional experience © 2021 Journal of Cytology | Indian Academy of Cytologists | Published by Wolters Kluwer – Medknow
3. **Sanjay M., Amita K., Rajini T.** spectrum of cytomorphological changes in pleomorphic adenoma and its reflection in histopathology © 2021 Journal of Cytology | Indian Academy of Cytologists | Published by Wolters Kluwer – Medknow
4. **Rajini T, Amita K,** intramuscular hydatid cyst of thigh diagnosed by fine needle aspiration cytology – a case report © 2021 Journal of Cytology | Indian Academy of Cytologists | Published by Wolters Kluwer – Medknow
5. **Jalli Pravallika, Amita K.** FNAC diagnosis of sporotrichosis presenting as a mass lesion -a case report of an unusual presentation © 2021 journal of Cytology | Indian Academy of Cytologists | Published by Wolters Kluwer - Medknow

PAPER PRESENTATIONS




01. **Dr. Amita. K** has participated in the 50th Annual conference of India Academy of Cytologists and presented oral paper titled "complexity of cluster density by using grey image fractal analysis - an adjunct tool for FNAC in diagnosis of breast lesions" held on 19th to 21st November 2021 at AIIMS New Delhi
02. **Dr.Amita. K** Poster presentation at ACME ST John's medical college, Bangalore. Title: Effectiveness of Team Based Learning and case-based learning among students' academic performance among second year MBBS students of Pathology – A comparative study on 12th November 2021

STUDENT ACHIEVEMENTS | POSTGRADUATE RESEARCH

We are indeed proud that our postgraduate students presented posters in state conference and national workshop and brought laurels to the department.

POSTER PRESENTATIONS


Dr Ramya Suresh - titled "An unusual perianal manifestation of tailgut cyst" under the guidance of **Dr Vijay Shankar S**



An unusual PERIANAL presentation of a TAILGUT CYST

Authors – Dr. Ramya Suresh, Dr. Vijay Shankar

ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES




KAPCON Reg. No. – K423

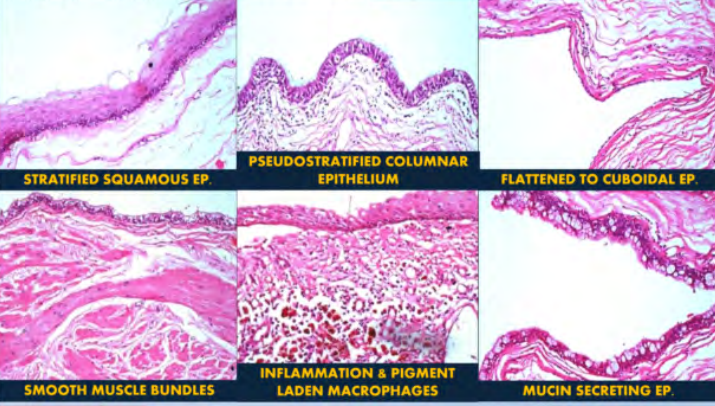
INTRODUCTION TAILGUT CYSTS or RETRO-RECTAL CYSTIC HAMARTOMAS are rare, congenital, hamartomatous lesions occurring mostly in retro-rectal (presacral) space in all age groups, more commonly in women. They embryologically arise from persistent remnants of postanal gut (tailgut). They RARELY appear in anterior rectal, PERIANAL, perirenal and posterior sacral regions.¹

CASE DETAILS A 60-year-old male presented with a painless, perianal polypoid lesion for 12 years, not associated with rectal bleeding/discomfort, urinary problems, or fever.

GROSS FEATURES The resected, skin covered specimen measuring 5x3x1cm showed a multiloculated cyst with trabeculations and expelled brownish material.



MICROSCOPY The cyst was lined by stratified squamous, pseudostratified columnar, flattened to cuboidal and mucin secreting columnar epithelium. The cyst wall contained bundles of smooth muscles, pigment laden macrophages and inflammatory cells.



DISCUSSION Tailgut cysts are rare, congenital lesions derived from the vestigial elements of the embryonic hindgut. The clinical diagnosis is **DIFFICULT** because it is mostly asymptomatic or manifests with non-specific mass effect symptoms like rectal bleeding, pain with defecation, urinary problems or neurological symptoms of spinal cord tethering. The cyst may get secondarily infected, and be **MISDIAGNOSED** as a pilonidal cyst, perianal/ano-rectal fistula, or a recurrent retro-rectal abscess. Malignant changes and metastasis are rare.² **DIFFERENTIAL DIAGNOSIS** includes anal gland cyst, duplication cyst, epidermal cyst, sacral meningocele, teratoma/dermoid cyst and these are excluded by considering the structure and the epithelial lining of the cysts.¹

CONCLUSION Owing to the rarity of the condition and its **NONSPECIFIC PRESENTATION**, the incidence is unknown and the diagnosis is frequently late and/or misdiagnosed. A complete surgical resection followed by histopathological evaluation is mandatory.¹

REFERENCES:
 1. Patil R, Jibhikate SN, Pawar V, Valand A. Adenocarcinoma arising in tailgut cyst: A rare case; Indian J. Pathol. Microbiol. 2014;57:341-2. 2. Sahin S, Kepil N, Batur S, Cetin SE. Adenocarcinoma in a tailgut cyst. A rare case report; Turk Patoloji Dergisi. 2020;36(2):169-172.

Dr Pournami S V – titled "Intramuscular Hydatid Cyst Of Thigh Mimicking As Hematoma On Ultrasound" under the guidance of **Dr Abhishek M G** Professor of Pathology



INTRAMUSCULAR hydatid cyst OF THIGH Mimicking AS HEMATOMA on ultrasound

Dr Pournami S.V., Dr Abhishek MG

Postgraduate student, Professor

ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES, BG NAGARA



KAPCON REGISTRATION NUMBER: K404

INTRODUCTION

Hydatid disease is a zoonotic infection which occurs as a result of infection by larval cyst stage of tapeworm caused by **Echinococcus granulosus**. Dogs are the definitive host, while man, sheep and cattle are the intermediate host. Man get the infection from the infected feces of dogs. This tapeworm can produce cysts in almost every organ, most frequently affected organs are liver and lungs. Primary musculoskeletal Echinococcus infection is very rarely reported in India without involving the thoracic and abdominal organs.^[1]

OBJECTIVES
To describe a rare case of unusual location of intramuscular hydatid mimicking hematoma on ultrasound.

CASE DETAILS
56 year old male presented with complaints of slow growing swelling in the posterior aspect of left thigh since 30 years which is associated with pain and difficulty in walking.

Systemic examination-Within normal limits.
 Blood and urine Investigation – normal limits.
 USG Thigh- Hematoma of thigh

FINE NEEDLE ASPIRATION CYTOLOGY
Smear studied are scantily cellular showing predominantly areas of hyaline laminated, eosinophilic material. Also seen are epithelioid cell granulomas with scattered histiocytes and occasional foreign body type of giant cells in a background of debris material. Features suggestive of Parasitic lesion with granulomatous reaction



Figure 1: Laminated hyaline, eosinophilic material
 Figure 2: Scolex of Echinococcus granulosus

MACROSCOPY



Specimen consist of single grey brown to grey black soft cystic mass measuring 22x14.5x12cm. External surface-grey brown, C/S-multiloculated cyst is noted with focal solid areas. Cyst wall is thick with grey yellow gelatinous material.

DISCUSSION
Largest cyst measuring 1 cm and smallest measuring 0.2cm.

HISTOPATHOLOGICAL FINDING
Sections studied show multiple cystic structures with cyst wall made up of lamellated acellular eosinophilic layer, outer fibrous and inner germinal epithelium with few daughter cyst. Also seen are plenty of foreign body giant cells, histiocytes and inflammatory cells. Features suggestive of Intramuscular hydatid cyst with giant cell reaction




Figure 3: Cross section of scolex with surrounding laminated membrane.
 Figure 4: Germinal epithelium (produces daughter cyst with multiple scoleces)

DISCUSSION
Hydatid disease can occur as cystic lesion anywhere in the body commonly in liver and lung. Atypical location like thigh swelling can cause diagnostic dilemma. So, hydatid disease should always be considered as differential diagnosis of cystic mass lesion at atypical location in patients from endemic areas.

CONCLUSION
Hydatid disease can affect any part of the body. FNAC along with radiological investigation is a very best useful tool in diagnosing Hydatid disease in atypical location.


REFERENCE
1. Mohan, Harsh. Textbook of Pathology, 7th edition, Jaypee, 2015, p.601.

Dr Rashmi Ravindran - titled " Solitary neurofibroma of the Hand" under the guidance of **Dr Kusuma K N**, Assistant Professor of Pathology



SOLITARY NEUROFIBROMA OF THE HAND

Authors – **Dr Rashmi Ravindran**, Dr Kusuma K N
Adichunchanagiri Institute of Medical Sciences **K590**



Introduction

Neurofibromas are benign nerve sheath tumours, which can occur as sporadic cases or they can be associated with NF-1. These consists of hamartomatous proliferation of neuromesenchymal components which includes schwann cells, perineural cells - fibroblasts and mastocytes and CD34+ spindle cells in varying proportions^[1]. Solitary neurofibromas are rare in hand. Malignant transformation of neurofibroma to malignant peripheral nerve sheath tumors is about 5% to 10 %^[2].

Objectives

To describe a case of solitary neurofibroma of hand.

Case history

Clinical Examination revealed a Single, well defined, swelling of about 4x2.5cm in third web space of left hand. (Figure 1) Systemic Examination and haematological investigations within normal limits. X -ray revealed no evidence of bony change. Surgical excision of swelling was done and sent for histopathological evaluation.




Figure 1: Preoperative photograph showing mass on left hand

Histopathological examination

Macroscopy showed a skin covered grey- brown to grey white soft tissue mass measuring 4x2.5x1.5 cm. Cut section was grey white (Figure 2)




Figure 2 : Excised specimen with its cut surface

Figure 3: Well delineated mass in dermis (H & E 10X)

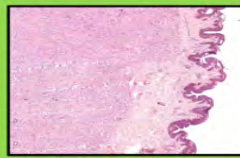
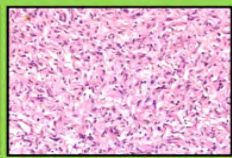


Figure 4: Microscopy showing spindled cells with wavy nucleus (H & E 40X)



Microscopy showed a skin with epidermis and dermis. Epidermis was unremarkable. Dermis showed a well delineated lesion composed of benign looking cells arranged in interlacing fascicles which are separated by stroma. Individual cells are spindle to oval with pointed wavy nucleus and scanty eosinophilic cytoplasm. (Figure 3 and 4)

Discussion

Solitary neurofibroma is a benign non encapsulated tumors which usually are slow growing and develop from small nerves. Solitary neurofibroma is not associated with Neuro fibromatosis, are extremely rare in the hand and have history of slowly growing over years ^[2]. These need to be distinguished from other tumors like giant cell tumour of tendon sheath, fibroma, ganglion cyst, neuroma. Histopathological evaluation is used to differentiate the neurofibroma from above entities.

Conclusion

Solitary neurofibroma of the hand is rare. As malignant transformation is seen in some cases, surgical excision and thorough histopathological evaluation are needed.

References

1. Kim KS, Lee DG, Do Hun Lee JH, Lee SY. Slowly growing solitary neurofibroma of the thumb: A case report. Medicine. 2021;100(2):1-4.
2. Pearl RA, O'Toole G. A case of large sporadic neurofibroma of the hand. Journal of Plastic, Reconstructive & Aesthetic Surgery. 2010;63(7):e573-5.

STUDENT ACHIEVEMENTS | UNDERGRADUATES

The department of Pathology encourages undergraduate students to participate in state level annual Pathology Quiz. They will be selected based on the written test and training for quiz will be given to the selected students.

The fifth term students **Supriya, Rekha, Yashas BP and Anusha N** had participated in the online **State Level UG Quiz** organized by KCIAPM at Father Mullers Medical college Mangalore 27th November 2021

Ms Nirantm, submitted **ICMR project** titled "Relationship of MPV in predicting severity in hypertensive retinopathy" under the guidance of Dr Amita K , in the month of November 2021.

STUDENT ACHIEVEMENTS | UNDERGRADUATES



Yashas BP and Anusha N

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Supriya & Rekha

Ms Nirantm, submitted ICMR project titled "Relationship of MPV in predicting severity in hypertensive retinopathy" under the guidance of Dr Amita K , in the month of November 2021.

CONGRATULATIONS! | POSTGRADUATES- EXAM RESULTS

The results of postgraduates were announced in July 2021. Congratulations to **Dr Chandana & Dr Dhanalakshmi**, our PG students for successfully clearing the M D examination. Congratulations **Dr Amrutavani** for successfully clearing diploma in clinical pathology examination.

The Department of Pathology wishes them the best in their future endeavors.

CONGRATULATIONS



Dr Prakash V B

Dr Prakash V B for being promoted to the post of **Associate Professor** on 2nd Aug 2021

NEW ADDITIONS TO OUR TEAM



Dr Priyadarshini

Dr Priyadarshini.

MBBS: Batch of 2007 from Jayadeva Jagadguru Murgarajendra Medical College, Davangere. (2007 to 2013)

MD(pathology): Batch of 2015 from Bangalore Medical College and research institute, Bengaluru. (2015 to 2018).

She joined our department as Assistant Professor on 30th August 2021.



Dr Pallavi B R

Dr Pallavi B R

MBBS: Batch of 2006 from KVG medical college, Sullia (2006-2012)

MD(pathology): Batch of 2015 from Father Muller Medical College, Mangalore. (2015-2018)

She joined our department as Assistant Professor on 7th October 2021.

Dr Chandana, Dr Dhanalakshmi and Dr Amruthavani were recruited as Senior residents / tutors in the Department of Pathology.

Dr Chandana got relieved from the post of Senior resident/tutor in the month of September 2021. **Dr Dhanalakshmi & Dr Amruthavani** got relieved from the post of Senior resident/tutor in the month of December 2021.

The Department of Pathology wishes them the best in all their future endeavours.

INTEGRATED TEACHING

Integrated teaching Programme on "Pyogenic Meningitis" was conducted for MBBS 2018 CBME students on 27.10.2021 from 02.00 to 04.00 pm in the Lecture Hall 1. **Dr. Rajini T**, Assistant professor of Pathology explained the Pathogenesis. Faculty members and 148 CBME students attended the programme.



Integrated teaching Programme on "Sexually Transmitted Diseases (STD)" was conducted for MBBS 2019 CBME & 2018 Non CBME students on 10.11.2021 from 02.00 to 04.00 pm in the Lecture Hall 2. **Dr. Priyadarshini**, Assistant professor of Pathology explained the Pathogenesis. Faculty members and 148 CBME & Non CBME students attended the programme.

Integrated teaching Programme on “Pyrexia of Unknown Origin (PUO)” was conducted for MBBS 2019 CBME & 2018 Non CBME students on 01.12.2021 from 02.00 to 04.00 pm in the Lecture Hall 2. **Dr. Sanjay M**, Associate professor of Pathology explained the pathogenesis. Faculty members and 150CBME & Non-CBME students attended the programme.



ACTIVITIES FROM BLOOD BANK

The blood donation drive was inaugurated by **Dr. M G Shivaramu**, Principal, AIMS, and other dignitaries by watering the plant. On 16th September 2021.

A total of 45 units of blood was collected during the drive.

A team of doctors and nurses came from AH&RC for collecting the blood.

Students and staff of SACCP enthusiastically and wholeheartedly participated in the drive.

A certificate of appreciation and refreshment was given to each donor as a token of gratitude.

The blood donation drive was coordinated by **Dr. Prakash**, Blood bank officer, **Dr. Satish Kumar**, Associate Professor, Dept of ENT, NSS program officers **Mr. Ravindra BN** and **Mr. Madhu B k**

National voluntary blood donors day was celebrated on **1st October 2021** by AIMS youth red cross unit in association with dept of Pathology and AIMS NSS unit.



Blood donation drive on 16th September 2021



National voluntary blood donors day on 1st October 2021

ACCOMPLISHMENTS/ AWARDS



Dr Amita K Completed ACME second contact session 12th to 14th Nov 2021 at ST John's Medical College Bangalore.

Dr Amita K: Award for quality research publications “ Award for research publications” by Vision Group Of Science and Technology Government of Karnataka, India

Dr Abhishek M G, awarded incredible young researcher award of India on 12th Nov 2021



Please feel free to contact us at pathology@bgsaims.edu.in

|| Jai Sri Gurudev ||

ADICHUNCHANAGIRI INSTITUTE OF MEDICAL SCIENCES

(A constituent college of
Adichunchanagiri University)



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Dr. D. Venkatesha
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Dr. Vijaya S
Dr. Vidyasagar K
Dr. Shwetha D C
Dr. Megha S
Dr. Shakthi R**

MICRO BULLETIN

DEPARTMENT OF MICROBIOLOGY

July to Dec, 2021

Volume 11

Issue 02

The Department of Microbiology is a multidisciplinary unit having qualified and experienced faculty committed to provide diagnostic services to AH&RC and teaching facilities to MBBS, MD Microbiology, MSc Microbiology, Nursing, B.Sc. MLT and Paramedical courses. The department is well equipped to provide quality teaching and research opportunities for staff and students. The present faculty members are actively engaged in pursuing research in various fields of Microbiology.

The department has taken a major initiative in hospital infection control/surveillance, setting guidelines for antibiotic policy and Biomedical Waste Management. NTEP, ICTC/HIV surveillance & ART Centre are attached to Microbiology section of central laboratory. Department of Microbiology has established molecular laboratory and we have performed a total of 3,18,752 RT-PCR tests over a period of one and a half years and 6,506 Rapid antigen tests for COVID-19. The department maintains a vibrant atmosphere by regularly organizing guest lectures, continued medical education Programmes (CME) and Louis Pasteur Day.

Our Team



E-mail: microbiology@bgsaims.edu.in

AYUDHA POOJA



AYUDHA POOJA PERFORMED IN THE DEPARTMENT OF MICROBIOLOGY



AYUDHA POOJA PERFORMED IN THE VIROLOGY LABORATORY

INTEGRATED TEACHING PROGRAMME ON “PYOGENIC MENINGITIS”

Integrated teaching Programme on “**Pyogenic Meningitis**” was conducted for MBBS 2019 CBME & 2018 Non CBME students on 27.10.2021 from 2 to 4 pm in the Lecture Hall 1. **Mr. Hemanth C A** anchored the programme and welcomed the gathering. **Dr. Shwetha D C**, Assistant professor of Microbiology briefed about introduction and etiological agents of Pyogenic Meningitis. **Dr. Rajini T**, Assistant professor of pathology explained the pathogenesis. **Dr. Virendra**, Senior Resident of General Medicine briefed the clinical features. **Dr. Vidyasagar K**, Associate professor of Microbiology discussed about laboratory diagnosis. **Dr. Ravi Shankar M**, Professor & Head of Pharmacology briefed the treatment. **Dr Amulya N**, Assistant professor of Community Medicine discussed about the prevention. **Dr Venkatesha D**, Professor and Head summarized the topics and interacted with the students. Faculty members and 139 CBME students attended the programme. The session was concluded with vote of thanks. Feedback was taken in the google forms.



Anchor - Mr. Hemanth C A



Dr. Shwetha D C



Dr. Rajini T



Dr. Virendra



Dr. Vidyasagar K



Dr. Ravi Shankar M



Dr. Amulya N



Faculty



Students

Integrated teaching Programme on “Sexually Transmitted Diseases (STD)”

Integrated teaching Programme on “**Sexually Transmitted Diseases (STD)**” was conducted for MBBS 2019 CBME & 2018 Non CBME students on 10.11.2021 from 2 to 4 pm in the Lecture Hall 2. **Miss. Gayatri Brahmandam**, anchored the programme and welcomed the gathering. **Dr. Shakthi R**, Assistant professor of Microbiology briefed about etiological agents of Sexually Transmitted Diseases. **Dr. Priyadarshini**, Assistant professor of Pathology explained the pathogenesis. **Dr. Yogesh D**, Associate Professor of Dermatology briefed the clinical features. **Dr. Shakthi R**, Assistant professor of Microbiology discussed about laboratory diagnosis. **Dr. Vivekanand**, Senior Resident of Pharmacology briefed the treatment. **Dr Basavaraju M. Ingalgeri**, Professor & Head of Community Medicine discussed about the syndromic approach, prevention and control. **Dr Venkatesha D**, Professor and Head summarized the topics and interacted with the students. Faculty members and 144 CBME & Non CBME students attended the programme. The session was concluded with vote of thanks. Feedback was taken in the google forms.



Anchor
Miss. Gayatri Brahmandam



Dr. Shakthi R



Dr. Priyadarshini



Dr. Yogesh D



Dr. Shakthi R



Dr. Vivekanand



Dr. Basavaraju M. Ingalgeri



Dr. Venkatesha D



Faculty & Students

Integrated teaching Programme on “PUO”

Integrated teaching Programme on “**Pyrexia of Unknown Origin (PUO)**” was conducted for MBBS 2019 CBME & 2018 Non CBME students on 01.12.2021 from 2 to 4 pm in the Lecture Hall 2. **Mr. Yashas B P** anchored the programme and welcomed the gathering. **Dr. Vijaya S**, Associate professor of Microbiology briefed the etiological agents of PUO. **Dr. Sanjay M**, Associate professor of Pathology explained the pathogenesis. **Dr. Chaithra**, Senior Resident of Medicine briefed the clinical features. **Dr. Shwetha D C**, Assistant professor of Microbiology discussed the laboratory diagnosis. **Dr. Sneha Jyothi A N**, Assistant professor of Pharmacology briefed the treatment. **Dr Basavaraju M. Ingalgeri**, Professor & Head of Community Medicine discussed about the syndromic approach, prevention and control. **Dr Venkatesha D**, Professor and Head summarized the topics and interacted with the students. Faculty members and 143 CBME & Non CBME students attended the programme. The session was concluded with vote of thanks. Feedback was taken in the google forms.



Anchor - Mr. Yashas B P



Dr. Vijaya S



Dr. Sanjay M



Dr. Chaithra



Dr. Shwetha D C



Dr. Sneha Jyothi A N



Dr. Venkatesha D



Dr. Basavaraj M. Ingalgeri

Faculty & Students

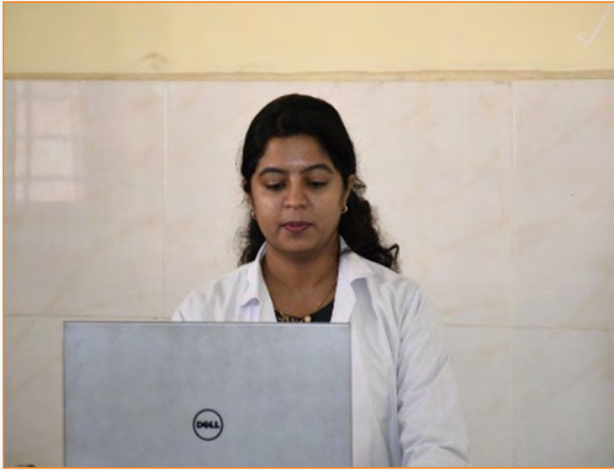


Celebration of “Louis Pasteur day”

Louis Pasteur day was organized by Department of Microbiology, AIMS, B G Nagara on 27.12.2021 from 12.00 pm to 01.00 pm in the Demonstration Hall. The programme was anchored by Dr. Supriya V, Tutor department of Microbiology. A brief introduction of Louis Pasteur was given by Dr. Supriya V & Dr. Keerthi Prakash Tutor, department of Microbiology spoke about the history and evolution of Microbiology. Dr. Subhash Chandra M R Tutor, department of Microbiology threw light on Nobel laureates. Dr Venkatesha D, Prof and Head, Department of Microbiology concluded the programme by vote of thanks.



Louis Pasteur



Dr. Supriya V



Dr. Venkatesha D



Dr. Subhash Chandra M R



Dr. Keerthi Prakash K P



Faculty & Students

Online Programmes Attended by Department Staff

1. International webinar on World Zoonoses Day organised by Manipal Institute of virology (MIV) on 6.7.21 Dr. Dhanalakshmi T A
2. Webinar on “share facts on Drugs save lives organised by dept. of Forensic Medicine & Psychiatry AIMS on 8.7.2021 Dr. Dhanalakshmi T A
3. Relevance of Fungal infection in clinical practice organised by dept. of Microbiology Topivala national medical college on 8.7.21 Dr. Dhanalakshmi T A, Dr. Shakthi R
4. Integration by Dr. Prakash organised by Rajarajeshwari Medical College on 8.7.21 Dr. Shakthi R
5. Webinar on Learning soft skills for successful practice by Dr. Sethuraman organised by SDUAHER Kolar on 10.7.21 Dr. Vijaya S
6. Guidelines for PMDT in India 2021 Topic: State Training of Training in guidelines for PMDT in India-2021 Govt. of Karnataka Health & family welfare service state TB centre in association with AIMS-NTEP Cell on 22.7.21 & 23.7.21 Dr. Venkatesha D
7. “Vaccine and SARS-CoV-2 variants in India: a fight against COVID-19” by Dr. Pragya D Yadav ICMR-NIV-Pune organised by Premas Life Sciences on 23.7.21 Dr. Shakthi R
8. CME on “Tuberculosis-The clock is Ticking –END TB” organised by dept. of Microbiology, Deccan College of Medical Sciences, Hyderabad on 24.7.21 Dr. Dhanalakshmi T A
9. International Webinar on World Hepatitis Day (Microsoft team) organised by Manipal Institute of Virology, MAHE & Dept. of Gastroenterology & Hepatology, & Blood Transfusion, KMC, Manipal on 28.7.21 Dr. Shakthi R
10. National level CME on Hepatitis B- Mitigation & Working towards Elimination organised by Dept. of Medicine & Microbiology AIIMS, Bibinagar, Hyderabad on 28.7.21 Dr. Dhanalakshmi T A Dr. Shakthi R
11. Resource person for workshop on Basic skills in Medical Education Topic: Choosing the right teaching- learning methods organised by MEU AIMS, B.G. Nagara on 28th & 29th July 2021 Dr. Vijaya S
12. IAMMKC Chapter Meet Theme: Antimicrobial Resistance COVID-19 Vaccination: current status, issues and challenges organised by Dept. Microbiology Vydehi Institute of Medical Sciences on 30.7.21 Dr. Dhanalakshmi T A, Dr. Vijaya S, Dr. Shakthi R

13. Webinar on Carbapenem-resistant Enterobacterales (CRE)-Detection & Control organised by Neuberger Anand reference laboratories on 06.08.2021 Dr. Shakthi R
14. COVID Diagnostics an Update organised by Society of Clinical Microbiologists with Cipla diagnostics on 07.8.2021 Dr. Shakthi R
15. Webinar on Zoonosis organised by T N Medical college & Nair hospital on 8.8.2021 Dr. Shakthi R
16. Guest lecture & Sensitization program Topic: Role of Poison Information Centre & Analytical Toxicology lab in clinical Toxicology organised by Dept. of Forensic Medicine & Toxicology AIMS, B.G. Nagar on 13.8.21 Dr. Venkatesha D, Dr. Shakthi R
17. Virtual conference on COVID -19 and the beginning of a new era organised by Sri HN Reliance foundation Hospital on 21st & 22nd August 2021 Dr. Shakthi R
18. Revised Basic Course Workshop in Medical Education technologies organised by MEU, AIMS under, St. John's Medical College, Bangalore (NMC Nodal Centre) on 24th to 26th August 2021 Dr. Vijaya S
19. Scientific Writing & Publication workshop organised by Dept. of MGMCH Jaipur on 26th to 27th August 2021 Dr Dhanalakshmi T A
20. Break the Breakpoints Antibacterial & Antifungal interpretation guidelines organised by Society of Clinical Microbiologists Biomerieux on 27.8.2021 Dr. Dhanalakshmi T A
21. COVID -19 Diagnostic an update organised by diagnostics on 27.8.2021 Dr. Dhanalakshmi T A
22. Webinar on Corona Virus Disease-19 Country's Response & Future Direction-I organised by river route & T N Medical College & Nair Hospital on 31.8.21 Dr. Shakthi R
23. Webinar on Corona Virus Disease-19 Country's Response & Future Direction-II organised by river route & T N Medical College & Nair Hospital on 3.9.21 Dr. Shakthi R
24. Webinar on Biomedical Waste Managements organised by Indian Medical Association –Junior Doctors' Network & CAHO on 8.9.21 Dr. Vijaya S, Dr. Shakthi R
25. Workshop on Curriculum aspects by HESDAR Center organised by Adichunchanagiri University B.G. Nagara on 1.9.21 to 4.9.21 Dr. Dhanalakshmi T A

26. Webinar on Virtual symposium on "Sepsis management –what has changed" organised by Indian Association of Medical Microbiologists –Delhi chapter on 13.9.21 Dr. Dhanalakshmi T A
27. CME on Practical Surveillance to Improve IPC Practices organised by Academy of Clinical Microbiologists Dept. of Microbiology KMC, Manipal on 16.9.21 Dr. Dhanalakshmi T A, Dr. Vijaya S, Dr. Shakthi R
28. Webinar on Mutant variant of concern and their impact on COVID-19 testing confirmation organised by vott & cipla diagnostics on 17.9.21 Dr. Shakthi R
29. Webinar on 'Dilemmas in the Diagnosis of IFI during COVID-19 by Dr. Arunaloke Chakrabarti, followed by Panel discussion COVID-19 & Mucor- The Deadly Duo organised by Cipla Critical Care on 17.9.21 Dr. Dhanalakshmi T A
30. One-day review meeting & training for ART Senior medical officer / MD & data managers of ART Centre organised by KSAPS Venue: Conference hall 1st floor, PMSSY Building Victoria hospital campus, Bangalore on 22.9.21 Dr. Shakthi R
31. International Webinar on World Rabies Day organised by Manipal Institute of Virology, MAHE, Manipal-Microsoft Teame on 28.9.21 Dr. Dhanalakshmi T A
32. Webinar on "Infrastructure & Learning Resources-Its pivotal role for a better learning experience" organised by NAAC Core committee & Internal quality Assurance cell AIMS on 28.9.21 Dr. Venkatesha D, Dr. Dhanalakshmi T A, Dr. Vijaya S
33. Ph.D Thesis synopsis presentation organised by Biochemistry on 30.9.21 Dr. Venkatesha D, Dr. Dhanalakshmi T A, Dr. Vijaya S, Dr. Vidyasagar K
34. Guest lecture on "Women & Heart disease" & Artificial Intelligence in cardiology" Bench test to field Application is it venality organised by dept. of General Medicine AIMS, B.G. Nagara on 30.9.2021 Dr. Shakthi R
35. Virtual CME on "Tackling Multidrug Resistant Organisms-A Clinical Challenge organised by dept. of K S Hegde Medical Academy Nitte in association with Cepheid. On 7.10.2021 Dr. Dhanalakshmi T A, Dr. Shakthi R
36. CME on Diagnostic Stewardship –A first step towards effective patient management organised by Dept. of Microbiology KMC, Mangalore on 09.10.2021 Dr. Dhanalakshmi T A, Dr. Shakthi R
37. International Webinar series "Mental health in an unequal world" on occasion of world health week celebration organised by dept. of Psychiatry & Clinical psychology in association with students support cell AIMS on 13.10.21 Dr. Shakthi R

38. Guest Lecture "Health Care: An All Inclusive Science" organised by AIMS and SACCP & CAN Kempegowda Study and Research Center, ACU on 20.10.21 Dr. Venkatesha D, Dr. Dhanalakshmi T A
39. Guest Lecture on "Understanding Posh and its importance in work place" organised by Posh Committee in association with AIMS, Students Council & AIMS-Sports & Cultural Committee on 22.10.21 Dr. Venkatesha D
40. International infection prevention week celebration Topic: - "Road to new normal" COVID-19 impact on infection prevention & control organised by Dept. of Microbiology & Dept. of HIPC at Panimalar medical college hospital & Research institute on 22.10.2021 Dr. Shakthi R
41. Webinar on Nipah Virus organised by Dept. of Microbiology Sri Devaraj Urs medical college Kolar on 22.10.2021 Dr. Dhanalakshmi T A, Dr. Shakthi R
42. NUILCRBSI- Nurses the ultimate leader of lowering CRBSIS organised by Kasturba hospital Manipal on 22.10.2021 Dr. Shakthi R
43. CME on "COVID -19: Human Resilience, Innovation & hope" organised by Dept. of Microbiology AIIMS, Raipur on 23.10.21 Dr. Shakthi R
44. Webinar on "Intellectual Property Rights" organised by AIMS- Learning Resource Centre in association AIMS-IQAC & NAAC on 17.11.21 Dr. Vijaya S
45. One-day training for ART SMO/MO Centre of excellence organised by KSAPS at Bowring hospital Bangalore on 25.11.21 Dr. Shakthi R
46. 3rd National Conference on Antimicrobial Stewardship Practices" ASICON 2021 organised by AIIMS, Patna, Bihar, India on 3rd 4th December 2021 Dr. Dhanalakshmi T A
47. "National Conference on Clinical Microbiology and infectious diseases 20221" organised by Madras Medical College, Chennai on 3rd to 04th Dec 2021 Dr. Dhanalakshmi T A
48. National Webinar on SARS-COV-2 Organised by S.S Institute of medical sciences & research centre Davangere on 07.12.21 Dr. Vijaya S, Dr. Shwetha D C
49. "Workshop on Basic in research methodology & Statistical analysis using SPSS" organised by Scientific Committee AIMS in association with JSS Medical college Mysore on 30.12.21 Dr. Vidyasagar K, Dr. Shakthi R
50. Webinar on " Strong student support-the key to dynamic student progression" organised by NAAC Core Committee and Internal Quality Assurance Cell on 30.12.21 Dr. Venkatesha D, Dr. Vijaya S

Publications

1. R. Shakthi and D. Venkatesha. Determination of Vancomycin and Linezolid Resistance among Staphylococcal Isolates from a Tertiary Care Hospital. *Int.J.Curr.Microbiol.App.Sci.*2021 10(09):230-235
2. Venkatesha D, Dhanalakshmi T A, Shakthi R. Biofilm production and antibiotic resistance pattern among bacterial isolates from wound samples in a rural tertiary care teaching hospital. *IP Int J Med Microbiol Trop Dis* 2021;7(3):160-164
3. D.C. Shwetha, G C Ravi, D Venkatesha, S Megha and P G Greeshma. Microbiological Profile of Chronic Suppurative Otits Media and their Antibiogram in A Rural Tertiary Care Hospital *Int.J.Curr.Microbiol.App.Sci* 2021 10(08): 448-455

Faculty Research Projects

1. Bacteriological profile of Hospital acquired infections and their antibiotic resistance patterns. Dr. Dhanalakshmi T A, Dr. Vidyasagar K, Dr. Venkatesha D
2. Prevalence of Carbapenem Resistant Enterobacteriaceae in a tertiary care teaching hospital Dr. Dhanalakshmi T A, Dr. Vidyasagar K, Dr. Venkatesha D
3. In Vitro Activity of Fosfomycin among Uropathogens in a Rural Tertiary Health Care Center. Dr. Vijaya S
4. Evaluation of peripheral blood smear and quantitative buffy coat in the diagnosis of Malaria- A comparative study. Dr. Vidyasagar K, Dr. Venkatesha D
5. Study of prevalence of HIV infection among patients attending ICTC in a tertiary care hospital. Dr. Vidyasagar K, Dr. Venkatesha D
6. Detection of biofilm production and antibiotic resistance pattern in clinical isolates from orthopedic implant associated infections. Dr. Shakthi R, Dr. Venkatesha D
7. Correlation between Ct values of SARS-CoV-2 polymerase chain reaction and severity of disease or mortality in patients with COVID 19 disease. Dr. Shakthi R
8. Knowledge and Insight about COVID-19 among the allied health science students in India: An online survey. Dr. Shakthi R
9. Dynamic profile of RTPCR in diagnosing COVID-19 at virology laboratory, AIMS B.G. Nagara- A descriptive study. Dr. Megha S, Dr. Venkatesha D
10. Detection of antimicrobial property of the green leafy vegetable by agar well method using reference gram positive and gram negative bacteria. Dr. Rajeshwari A, Dr. Dhanalakshmi T A
11. An analysis of the viral load and antibodies in patients with COVID-19 infections of varying severity and during convalescence. Dr. Ravi, Dr. Megha S, Dr. Ramesh

ACU funded Research Projects

1. Antibody titres to Hepatitis B surface antigen among Hepatitis B vaccinated medical students. Ms. Alisha Goel, Dr. Dhanalakshmi T A
2. Study of Asymptomatic bacteriuria in pregnant women attending tertiary care hospital. Mr. A. Balaji Yadav, Dr. Vidyasagar K
3. Comparison of efficacy of fine needle aspiration and fluid cytology and CBNAAT in diagnosis of extrapulmonary tuberculosis. Dr. Amita K, Dr. Dhanalakshmi T A
4. Synthesis of novel piperazine based chemical library and enumeration of its antimicrobial potency. Dr. Thammanna Gowda S S, Dr. Dhanalakshmi T A

ICMR Projects for Undergraduate Students

Evaluation of antimicrobial activity of Ethanolic leaf extracts of Azadirachta Indica (Neem) on Clinically important organisms. Mr. Indradhanush U, Dr. Megha S, Dr. Venkatesha D

New Staff

We welcome the new tutors to the department of Microbiology AIMS, B.G. Nagara



Dr. Supriya V



Dr. Subhash Chandra M R



Dr. Keerthi Prakash K P

**ADICHUNCHANAGIRI
INSTITUTE OF
MEDICAL SCIENCES**

*(A constituent college of
Adichunchanagiri University)*



Chief Patron

Paramapoojya Jagadguru

Sri Sri Sri

**Dr. Nirmalanandanatha
Mahaswamiji**

Advisor

Dr. M.G Shivaramu.

*Dean of health sciences Medical,
ACU
Principal, AIMS*

Chief Editor

Dr Ravi Shankar M

Professor & HOD

Editorial Board

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Dr Padmanabha T S
Dr Sareetha A V
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Dr Divya R
Dr Vinayak A
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II Jai Sri Gurudev II

Pharmacologic

Department of Pharmacology

JULY to DECEMBER, 2021; Volume 11, Issue 02

Greetings and Regards from the Department

Greetings for good health and cheer from the Department of Pharmacology. I would like to share that the department has come out with the log book and practical record for the CBME 2019 batch. I would like to acknowledge the participation of all the faculty members for the cause.

A lockdown did force us to have 2 months of online classes but that did not hamper the quality of teaching in any way, thanks to technology once again coming to our rescue.

The first internal assessment (theory and practical) was held online and it gave us experiences to understand the student approach to assessments.

The CBME Curriculum has just been great, it covers all aspects of the specialty. We are grateful to the people who took the initiative and framed the curriculum. This is going to provide a comprehensive approach to training in Pharmacology.

Dr Ravi Shankar M, Professor and Head of the Department



ACADEMIC ACTIVITIES

Dr Ravi Shankar M, Prof and Head

Webinars

Participated in webinar on “Intellectual Property Rights” 17th November 2021 on the occasion of National Library Week organized by AIMS-IQAC & NAAC.

Institutional Activities

Participated in the Academic and Administrative Audit (AAA) conducted by an external committee representing the IEC, IAEC and Pharmacovigilance Committees.

Committee related activities

Participated in the role of member secretary towards the registration of AIMS Institutional Ethics Committee with the National Ethics Committee Registry for Biomedical and Health Research (NECRBHR), Department of Health Research (DHR).

Examination related activities

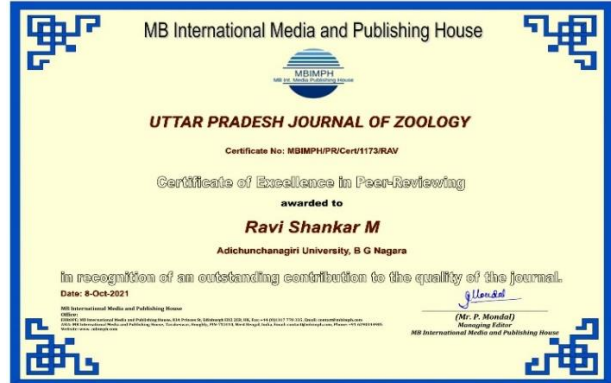
Participated in conduction of online exams for

- a. PG exams –
 1. Goa Medical College, Goa University
 2. Madras Medical College and Kilpauk Medical College, Tamil Nadu Dr MGR University of Health Sciences.
- b. UG exams –
 1. Andhra Medical College and other colleges, Vishakapatnam, Dr NTRUHS
 2. ACU Exams

Board of Studies related activities

1. Organized and conducted BoS meeting of paraclinical subjects as the Chairperson to introduce relevant and important amendments in the Curriculum with respect to assessments.
2. Participated in Committee of Academic Council meetings as the Chairperson, BoS, Paraclinical specialities.
3. Participated in reviewing the evaluation of the PG synopsis as the Chairperson of BoS, Paraclinical specialities.

Reviewer Certificates received (July to December 2021)



DISCOVERY OF INSULIN: SOME INTERESTING EVENTS

By Dr Ravi Shankar M

The difficulty encountered by all scholars was to separate the extract of the Langerhans islands from the rest of the pancreatic exocrine tissue.

Banting at the University of Toronto succeeded in this. Since November 1920, Banting began working in a laboratory led by John James Richard MacLeod. Banting's goal was to isolate the hormone secreted by the pancreatic islands.

Before leaving for a planned holiday in Scotland, MacLeod allowed Banting to be assisted by two young assistants, Best and Noble. The researchers closed the pancreatic ducts with a technique designed by Banting to get the degeneration of the pancreatic exocrine tissue and to obtain a pancreatic islet from the pure state. With this liquid extract, for the first time, in the history of medicine, Banting and Best found the way to control glucose in a diabetic animal.

On the basis of these successes, on 12th December 1921, Banting and Best reported the results of the discovery of insulin to the American Society of Physiology.

MacLeod, returning from Scotland, guessed the historical importance of the results and, on 11th January 1922, he authorized to conduct experimentation in humans.

Leonard Thompson, a 14-year-old, serious diabetic patient at the Toronto General Hospital, was the first patient to be treated. However, the initial clinical experimentation was a failure: the administration of 15 ml of pancreatic extract had no impact on ketoacidosis, only slightly reducing glycemia and glycosuria, and resulted in the formation of a sterile abscess.

On January 23rd Leonard underwent another series of injections and this time he experienced a normalization of glycaemia, glycosuria, and ketonuria. More in details, glycaemia decreased from 520 mg/dl to 120 mg/dl. Glycosuria dropped from 71 to 9 g; ketonuria disappeared.

The merit was also of the clinical biochemist James Bertram Collip (1892–1965), who developed a new extraction and concentration protocol. Collip, from the alcoholic acid extract of oxen and pork pancreas, showed that these preparations were more effective than those obtained by the binding of the ducts and subsequent degeneration of the exocrine pancreas.

In 1923, a German pharmaceutical laboratory began producing insulin, following the manufacturing license issued by the Toronto Insulin Committee. In 1923, insulin production began in Denmark and Austria, and, in 1924, in Hungary, Australia and Argentina.

In 1923, Banting and Macleod received the Nobel Prize in Medicine, which they shared with Best and Collip.

Dr. Vinaya M

1. Attended the workshop on 'Basics of research methodology and statistical analysis using SPSS' on 30th November & 1st December 2021 at AIMS, BG Nagara
2. Organized Webinar on 'Strong student support – Key to dynamic student progression' on 30th December 2021 at AIMS, BG Nagara as a part of hosting team (NAAC and IQAC team), AIMS.

Dr Padmanabha T S

Webinars, CMEs, Guest Lectures participated/ conducted:

1. Actively participated in webinar on "Intellectual Property Rights" 17th November 2021 on the occasion of National Library Week organized by AIMS-IQAC & NAAC.
2. Participated in two-day National Webinar on "attainment of quality benchmark in medical education: Responsibilities of a Health Institution" organized by IQAC, KGMU in collaboration with ECHO India on December 3rd - 4th.
3. Participated as delegate in the webinar on "Implementation of National Education Policy 2020" organised by Faculty of Allied Health and Basic Sciences (FAH&BS) in association with Internal Quality Assurance Cell (IQAC) on 27-10-2021. (SDUAHER)
4. Participated in 7th Meeting of the Academic Council held on 22-09-2021 at the Medical Education Unit Hall, AIMS, ACU.
5. Part of conducting team for organizing "EBSCO" database presentation (DynaMed and Micromedex with Watson) on the occasion of "National Library Week" (November 14th-20th, 2021) at AIMS by AIMS Learning Resource Centre, in association with AIMS-IQAC and NAAC, on 17th November 2021.
6. Part of ACU First convocation day as volunteer on 15th September 2021

As a Speaker:

1. As a speaker for "Workshop on Basic Skills in Medical Education" for AIMS faculty held on 28th and 29th July 2021 (Topic: Providing Effective Feedback)

Faculty Development Program (FDP) attended:

1. Participated in certificate course on Curriculum Design, Development and Implementation organized by Adichunchangiri University in association with HESDARC from 1st to 4th September 2021 at Medical Education Unit, Adichunchangiri Institute of Medical Sciences, Adichunchangiri University.
2. Successfully completed the "Karnataka State Level Training in Guidelines for PMDT in India-2021" from 22-07-2021 till 23-07-2021 conducted by STDC, Karnataka.

As an examiner for conducting UG practical examination:

1. Conducted UG practical examination as an examiner at various institutions, namely Bidar Institute of Medical Sciences, BGS Global Institute of Medical Sciences and Hassan Institute of Medical Sciences, SSAHE and at MGR University during September -October 2021.

Departmental Activities:

1. Actively engaged in CBME implementation MBBS 2019 batch)
2. Involved in planning and implementation of third practical internal assessment as similar to university examination for MBBS 2019 batch
3. Actively involved in Certification of practical competencies for UG MBBS 2019 batch
4. Actively involved in preparing of Standard Operating Procedure for Institutional Ethics Committee.
5. Actively involved in preparation of First Triannual Report March to June 2021_CBME_Pharmacology

Achievements:

1. Promoted as Associate Professor of Pharmacology on 2nd August 2021
2. Provisionally registered Ph.D. program(Pharmacology) in Medical under the guide ship of Dr RaviShankar M, Prof & Head of Pharmacology, effect from 23/07/2021.
3. Presented PhD synopsis in front of Doctoral Advisory Committee Meeting on 23/07/2021
4. Submitted modified PhD synopsis as per suggestions from Doctoral Advisory Committee (August 2021)



Dr. Sareetha A V

- Actively participated in screening of research proposals of AIMS, B G Nagara as member of AIMS Institutional Ethics Committee.
- Actively involved in B.Sc Allied Health Sciences internal assessment and related activities for the batch 2020.
- Participated in workshop on **Revised Basic Medical Education Technologies** conducted by St.Johns Medical College from 24.08.2021 to 26.08.2021 at AIMS B G Nagara.
- Attended workshop on Basics of stastical analysis using SPSS on 30.11.2021 and 01.10.2021 at AIMS B G Nagara.

The department wholeheartedly welcomes Dr Vinayak A, Assistant Professor, who joined as a faculty member. We wish him a very fruitful and a satisfying career.
