



ANNOOR DENTAL COLLEGE & HOSPITAL



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Affiliated to Kerala University of Health Sciences
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3.2.1 Institution has created an ecosystem for innovations including incubation Centre and other initiatives for creation and transfer of knowledge.

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CERTIFICATE OF THE HEAD OF INSTITUTION



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**Dr. GIJU GEORGE BABY, M.D.S.,
PRINCIPAL**

TO WHOMSOEVER IT MAY CONCERN

This is to certify that, the Institution has created an ecosystem for innovations including incubation Centre and other initiatives for creation and transfer of knowledge.

PRINCIPAL



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DETAILS OF THE FACILITIES AND INNOVATIONS MADE



Research Activity Report: Annoor Dental College

This report provides an overview of the research activity at Annoor Dental College, highlighting the institution's contributions to dental research and its commitment to advancing oral healthcare. Annoor Dental College, known for its academic excellence and state-of-the-art facilities, has been actively involved in various research endeavours to enhance dental knowledge and improve patient care.

The research is coordinated and directed by a research advisory council constituted as per the UGC recommendations.

The research thrust areas identified are Oral cancer prevention and precancer research, Pediatric oral health, Geriatric oral health, Dental material product research.

Research Infrastructure and Resources: Annoor Dental College boasts robust research infrastructure and resources that support scientific investigations.

The institution houses well-equipped laboratories, research facilities, and dedicated spaces for conducting experiments and data analysis. These resources enable faculty, researchers, and students to pursue innovative research projects and conduct studies across various dental specialties.

Dept of Oral and Maxillofacial Pathology, Dept of Conservative dentistry and Endodontics, Dept of Periodontics and Dept of Pedodontics are recognized centres of PhD under Kerala university of Health Sciences with approved PhD guides.

Faculty and Research Expertise: The college prides itself on its highly qualified and experienced faculty members who have made significant contributions to the field of dentistry through their research endeavours. The faculty members possess diverse areas of expertise, including Oral cancer prevention, Oral potentially malignant disorders, myofunctional therapy, dental materials, temporomandibular joint disorders, Oral implantology, Oral microbiology among others. Their expertise and guidance have played a crucial role in fostering a culture of research at Annoor Dental College.

Research Areas and Collaborations: Annoor Dental College has engaged in research activities across a wide range of areas within dentistry. Some of the prominent research areas include:

- a) **Dental Materials:** The college has undertaken research projects focused on evaluating the properties and performance of dental materials, such as ceramics, composites, and dental implants, to improve their longevity and biocompatibility.
- b) **Oral Health Epidemiology:** Researchers at Annoor Dental College have conducted studies to understand oral health patterns and trends, risk factors for oral diseases, and the impact of socioeconomic factors on oral health outcomes.
- c) **Oral Cancer:** Given the significance of oral cancer as a public health concern, the institution has conducted research on various aspects of oral cancer, including early detection techniques, risk factors, and treatment modalities.



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- d) Craniofacial Anomalies: Annoor Dental College has contributed to the understanding of craniofacial anomalies through research aimed at evaluating the etiology, diagnosis, and treatment options for conditions such as cleft lip and palate.

Research Clusters

The college has also fostered collaborations with other research institutions, both nationally and internationally, to promote knowledge exchange and collaborative research projects. These collaborations have enriched the research landscape at Annoor Dental College and facilitated interdisciplinary studies.

Annoor has been on the forefront in conducting research on oral cancer prevention and oral potentially malignant disorder. Annoor has research collaborations with Karkinose health care, a purpose driven oncology platform on oral cancer prevention and prognostication of precancers.

Annoor dental college has also formed international research collaborations with AIMST university, Malaysia in the fields of oral cancer prevention.

Research Publications and Grants: Annoor Dental College has been successful in disseminating research findings through publications in peer-reviewed journals. The faculty and students regularly publish their research outcomes, contributing to the scientific literature and advancing the field of dentistry.

Additionally, the institution actively encourages faculty and students to apply for research grants from funding agencies, enabling them to undertake cutting-edge research and innovation. Annoor Dental college has secured 13 ICMR and 9 KSCTC grants for undergraduate research.

In 2023 college received an ICMR grant in order to conduct a translational research workshop on **“Hands on workshop on chairside diagnostic techniques in the early oral cancer detection”** which was attended by more than 200 delegates from all over the state.

Student Research Involvement: Annoor Dental College places significant emphasis on involving students in research activities. The institution offers research opportunities to undergraduate and postgraduate students, allowing them to develop research skills and gain hands-on experience in dental research. The college organizes research conferences, seminars, and workshops to promote research awareness among students and provide a platform for sharing their research findings.

Young innovators programme by K-DISC and Annoor Dental College

The Kerala Development and Innovation Strategy Council (K-DISC) is a strategic think-tank and advisory body established by the Government of Kerala in March 2018. K-DISC's primary objective is to develop ground-breaking strategic plans that embody new directions in technology, product and process innovations, social shaping of technology, and the creation of a thriving ecosystem for fostering innovations within the state.

One of K-DISC's initiatives, the Young Innovators Programme (YIP), aims to introduce young students to the innovation cycle and foster a culture of innovation in Kerala. YIP 2019 seeks to have a significant impact on the state's academic system. The program is designed based on the principles of situated cognition and design-based learning. It is envisioned as a large-scale, inclusive, collaborative, institution-based program that aims to identify and nurture young innovators.



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K-DISC will utilize a multi-stage process to select and shortlist the most promising young innovators with novel and innovative ideas for addressing critical problems and issues. They will be selected from educational institutions, including your own, across Kerala. These selected young innovators will receive comprehensive support, including guidance, training, skill development, mentorship, and resources, to help them develop products, services, or solutions related to their chosen problems or issues.

Students of Annoor dental college is actively participating in the YIP programme and has more than 50 students have registered to YIP programme and has submitted 25 innovative projects for YIP's consideration.

Research and publication ethics: Annoor Dental college has a robust policy on research ethics. Researchers are expected to adhere to ethical standards, including obtaining necessary approvals for human and animal research. The research activities are scrutinized for its scientific contents and ethical concerns initially by an institutional review committee. The scrutinized projects are submitted to Ministry of health registered institutional ethical committee for final approval. All research projects conducted in the institution are based on the final approval and recommendations of the institutional ethical committee.

The publication policy is designed to facilitate and encourage faculty and students to engage in research, publish their findings, and contribute to the advancement of dental knowledge. The policy outlines criteria for authorship, emphasizing contributions to the research project.

It encourages transparency and fairness in determining authorship.

Plagiarism and data fabrication are strictly prohibited. The institution has a subscription for antiplagiarism software "Viper" to enhance the quality of publications from faculty and students.

Community Outreach and Translational Research: Recognizing the importance of community engagement, Annoor Dental College conducts research that has a direct impact on oral health promotion and disease prevention. The institution actively collaborates with community organizations, public health agencies, and dental clinics to conduct translational research projects aimed at improving oral health outcomes and addressing community needs.

The college through public health dentistry department in collaboration with other departments have conducted numerous dental camps which involves oral health education, surveys, and data collections on various oral diseases.

Future Directions: Annoor Dental College is committed to fostering a culture of research excellence and aims to expand its research activities further. The institution plans to invest in advanced research equipment, strengthen collaborations with national and international research institutions, and encourage interdisciplinary research to address complex oral health challenges. Furthermore, the college seeks to enhance research mentorship programs and provide more funding opportunities to support faculty and student research initiatives.



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Research advisory council

Chaired by Dr Giju George Baby MDS (Principal Annoor Dental College)

Convener- Dr Deepu George Mathew MDS (Prof and Head Dept of Oral Pathology)

Committee 1- Finance and Infrastructure

Head: Dr Krishan Kumar MDS (Prof Dept of Pedodontics)

Mr Biju K Joseph (Chief operating officer)

Mr. Nidhin C Sasidharan(Chief accountant, Annoor Dental College)

Mr. KC Murali (Purchase manger)

Committee 2- Research program policy development

Head: Dr Liza George MDS (Vice principal, PhD Guide, Academic monitoring cell in charge)

Dr C K K Nair PhD (Retd Scientific officer H; Baba Atomic research center)

Dr Jose Paul MDS (Students dean, PhD Guide, Head of Dept of Periodontics)

Dr Saliha C.K PhD (Assoc Professor, Dept of Physiology)

Committee 3- Collaboration and community outreach

Head: Dr. Joby Peter MDS(Prof and Head Dept of Pedodontics)

Dr Priya Thomas MDS(ProfDept of Oral Pathology)

Dr Pooja Latti MDS (Prof and Head Dept of Public health dentistry)

Committee 4- Product development, monitoring and commercialization

Head: Dr. Josey Mathew MDS(Prof and Head Dept of Conservative dentistry)

Dr. Annie Susan Thomas MDS(Prof and Head Dept of Prosthodontics)

Dr. Joby Peter MDS(Prof and Head Dept of Pedodontics)

Dr. Gopikrishnan S MDS (Prof and Head Dept of Orthodontics)

Dr. Veena Paul MDS(Asst Professor Dept of Prosthodontics)

Committee 5- IPR, Legal, ethical concerns and project monitoring

Head: Dr Priya Thomas MDS (ProfDept of Oral Pathology)

Dr. Pooja Latti MDS (Prof and Head Dept of Public health dentistry)

Dr. Gejo Johns MDS (Asst Professor Dept of Orthodontics)

Committee 6: Innovation and entrepreneurship development cell

Head: Dr Deepu George Mathew (Nodal officer)

Dr. Annie Susan Thomas MDS (Nodal officer)

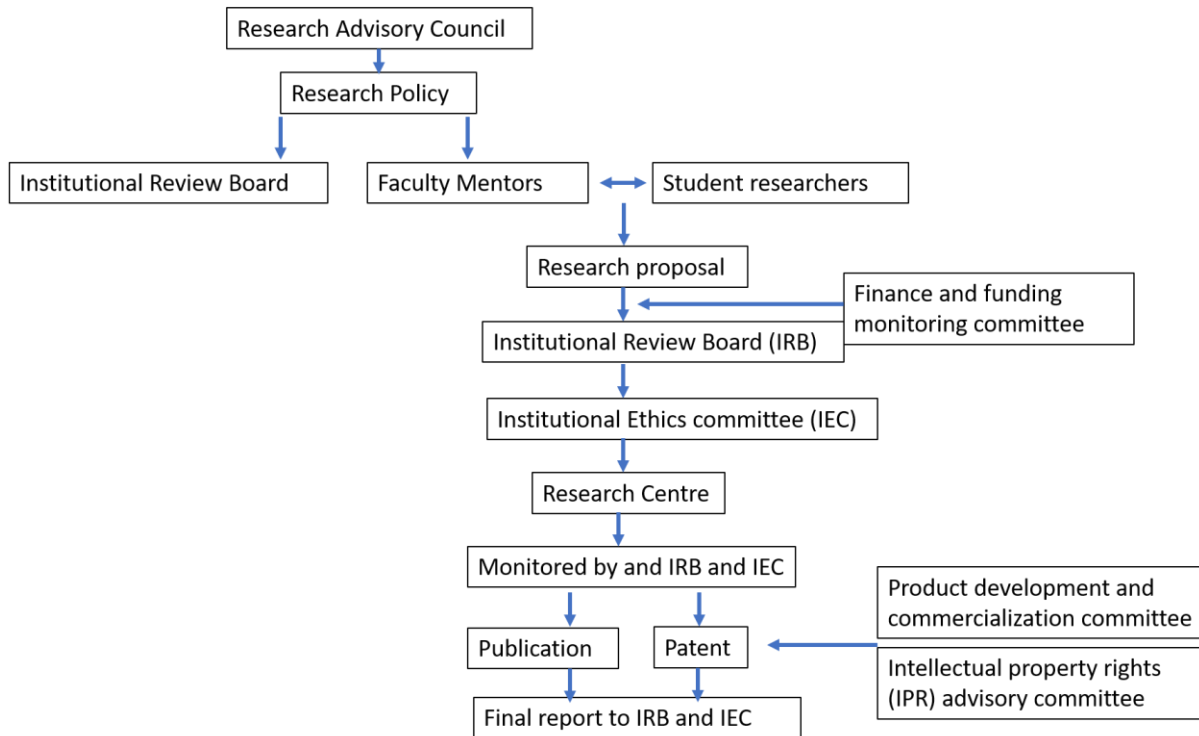
Dr Bharath (YIP mentor)



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Research and Development workflow- Annoor Dental College and Hospital





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Young Innovators Programme (YIP) in Annoor Dental College and Hospital - Report

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Annoor Dental college has been a part of Young innovators programme since 2022. Dr Deepu George Mathew MDS is the coordinator for the YIP scheme in Annoor Dental College. Various faculty members are acting as mentors for this programme. Students of Annoor dental college is actively participating in the YIP programme and in 2023 more than 100 students have registered to YIP programme and 25 teams have submitted innovative projects for YIP's consideration.