BAREILLY INTERNATIONAL UNIVERSITY

(Established Under Govt. of U.P. Act 26 of 2016)
Rohilkhand Medical College Campus, Pilibhit Bypass Road, Bareilly-243006 (U.P.) INDIA
Phone: 0581-2526011-12, Fax: 0581 - 2303345
Email: info@rmchbareilly.com, info@biu.edu.in Website: www.biu.edu.in

List of Teachers receiving seed money and Details of seed money

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ACADEMIC YEAR 2022-23

Sr. No	Name of the project	Duration of the project	Name(s) of the teacher(s) working in the project receiving seed money	The amount of seed money provided (INR in lakhs)
1.	Exploring the integration of artificial intelligence in identifying early-stage cardiovascular conditions to improve patient outcomes.	1 Year	Dr. Deepti B. Sankal	1.8
2.	Investigating the effectiveness of telemedicine platforms in delivering healthcare services to underprivileged rural populations with chronic diseases	1 Year	Dr. Shikha Saxena	1.55
3.	A longitudinal study on the correlation between lifestyle changes and the incidence of hypertension in young adults, particularly medical students.	1 Year	Dr. Ghanshyam Dass Katiyar	1.9
4.	A study aimed at assessing the impact of structured neonatal resuscitation training programs on improving survival rates in critical cases	1 Year	Dr. Cheena Garg	1.65
5.	Investigating how mobile health apps can encourage healthy lifestyle choices and disease prevention in the adolescent population	1 Year	Dr. Sagar C. Mhetre	1.4

SUSHIL KUMAR THAKUR

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6.	A study examining the effects of prolonged sleep deprivation on decision-making, memory, and learning abilities among medical students	1 Year	Dr. Ved Prakash	1.7
7.	Investigating patient outcomes, compliance, and long-term health effects of insulin therapy compared to oral hypoglycemic medications	1 Year	Dr. Saurabh Kumar	1.7
8.	Research into how vitamin D deficiency contributes to an increased risk of respiratory tract infections in pediatric patients	1 Year	Dr. Shalini Chandra	1.2
9.	A study focused on the outcomes of implementing antimicrobial stewardship programs in hospitals to curb the rise of antibiotic-resistant infections	1 Year	Dr. Iram Shaifali	1.3
10.	Investigating the correlation between sedentary behavior and early markers of cardiovascular disease in individuals aged 18-30	1 Year	Dr. Anju Saxena	1.15

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11.	A study on the potential role of gut microbiota imbalances in the development and progression of irritable bowel syndrome (IBS)	1 Year	Dr. Arun Singh	1.6
12.	Research exploring the accuracy, speed, and diagnostic benefits of point-of-care ultrasound in emergency settings for acute abdominal issues	1 Year	Dr. Ajay Kumar Agarwal	1.2
13.	A cross-sectional study aimed at identifying the prevalence of hypertension and associated risk factors in urban adolescent populations in India	1 Year	Dr. Rashmi Katyal	1.4
14.	Research focusing on the identification of genetic markers that can guide personalized treatment plans for patients with breast cancer	1 Year	Dr. Deepak Upadhyay	2.8
15.	A comprehensive study evaluating the success rates, complications, and long-term outcomes of liver transplant surgeries	1 Year	Dr. Swati Khan	1.2

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16.	Focusing on creating affordable diagnostic kits for detecting common diseases in underserved areas.	1 Year	Dr. Kanika Paul	2.5
17.	Proposing the development of a telemedicine application that connects rural patients with healthcare professionals	1 Year	Dr. Vibhuti Goyal	1.8
18.	Investigating how diet, exercise, and mental health interventions can be utilized to manage conditions like diabetes and hypertension.	1 Year	Dr. Tripti Gupta	2.3
19.	Research on using artificial intelligence to enhance early-stage cancer detection using imaging technologies	1 Year	Dr. Tavleen Bedi	1.7
20.	Designing an app to educate the population about preventive healthcare measures in an easy-to-understand format	1 Year	Dr. Mahima Jaiswal	1.9
21.	Proposing research on the emergence of antibiotic-resistant bacteria in hospital settings and potential solutions	1 Year	Dr. Shweta Singh	2.3

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22.	Implementing a mobile health program for early screening and intervention in cardiovascular diseases.	1 Year	Dr. Sheetal Mishra	2.1
23.	Investigating affordable interventions to improve maternal health and reduce mortality in resource-poor settings	1 Year	Dr. Saumya Mishra	2.7
24.	Proposing the development of a portable device that healthcare workers can use to monitor patient vitals in emergencies	1 Year	Dr. Shilpi Singh	2.9
25.	Research on mental health challenges faced by medical students and proposing effective support mechanisms	1 Year	Dr. Neha Pathania	2.8

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ACADEMIC YEAR 2021-22

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1.	Investigating differences in patient recovery time, complications, and overall outcomes between laparoscopic and traditional open surgery for gallbladder conditions.	1 Year	Dr. Apoorva Mathur	1.2
2.	A clinical study aimed at assessing the potential of stem cell treatments for improving joint function and reducing pain in osteoarthritis patients.	1 Year	Dr. Meghna Yadav	2.1
3.	Research into the effectiveness of combining different pain management techniques (medications, physical therapy, etc.) for post-surgical recovery	1 Year	Dr. Neha Singh	2.25
4.	A study exploring the impact of diet, exercise, and other lifestyle modifications in preventing the progression from pre-diabetes to diabetes	1 Year	Dr. Rashi Tyagi	1.08

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5.	Research on the effectiveness of non-invasive ventilation techniques in managing acute exacerbations of COPD in hospitalized patients	1 Year	Dr. Shubham Solanki	2.2
6.	A cross-sectional study investigating the correlation between increased levels of air pollution and the rising incidence of asthma in urban areas	1 Year	Dr. Simona Ranjan	2.65
7.	Investigating the effects of pre-existing malnutrition on the recovery outcomes of pediatric patients undergoing major surgeries	1 Year	Dr. Anam Nayeem	2.91
8.	A study evaluating how targeted vitamin and mineral supplementation can reduce the incidence of anemia in expectant mothers, particularly in low-resource settings	1 Year	Dr. Anjali Yadav	1.25
9.	Investigating the benefits of probiotic supplementation in restoring gut microbiota and improving digestive health following antibiotic use	1 Year	Dr. Astha Chaudhary	1.15

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10.	A study analyzing the outcomes, recovery, and long-term benefits of surgical intervention versus conservative treatment for herniated disc patients	1 Year	Dr. Mayank Agrawal	1
11.	Research focused on evaluating the effectiveness of emerging immunotherapy treatments for patients with advanced-stage melanoma	1 Year	Dr. Neeti	1
12.	A study analyzing the impact of high-resolution endoscopic imaging technologies on the early detection and treatment of colorectal cancer	1 Year	Dr. Prachi Chaudhary	1.12
13.	Evaluating the success rates of radiofrequency ablation in managing chronic pain conditions, particularly in patients with refractory pain syndromes	1 Year	Dr. Prateek Sharma	1.05
14.	Investigating the incidence of mental health disorders, particularly depression and anxiety, in medical students and the factors contributing to stress	1 Year	Dr. Rachit Batra	1.07

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15.	A study evaluating the effectiveness of mobile health units in providing prenatal care and reducing maternal mortality rates in underserved areas	1 Year	Dr. Shashwat Verma	1
16.	Developing wearable devices that track recovery progress in patients after surgery, aiming to reduce complications and readmissions	1 Year	Dr. Naveen Chandra Goyal	2.08
17.	Exploring the use of virtual reality simulations to improve surgical skills training for medical students	1 Year	Dr. Bhaskar Gupta	2.01
18.	Investigating alternative pain management strategies such as acupuncture, meditation, and physical therapy for chronic pain patients	1 Year	Dr. Mohammad Jabed	2.02
19.	Proposing research into the application of CRISPR or other gene-editing technologies to treat hereditary diseases	1 Year	Dr. Dharnraj Nitharwal	2.01
20.	Creating a mobile medical unit equipped to provide immediate healthcare services in disaster-affected areas	1 Year	Dr. Malini Kulshresthra	2.01

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21.	Conducting a study on malnutrition and micronutrient deficiencies among children living in underserved urban areas, and proposing interventions	1 Year	Dr. Manazir Iqbal	2.02
22.	Research on the long-term effects of air pollution on respiratory health, with a focus on developing mitigation strategies	1 Year	Dr. Arun Kumar Sah	2.04

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ACADEMIC YEAR 2020-21

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1.	Research focusing on how widespread CPR training among non-medical individuals can improve survival rates in out-of-hospital cardiac arrest cases.	1 Year	Dr. Anjali Yadav	3.58
2.	A clinical study analyzing the benefits of early detection and management protocols for patients with acute kidney injury in intensive care units	1 Year	Dr. Astha Chaudhary	2.55
3.	A study examining the impact of targeted nutritional interventions on the cognitive development of children suffering from malnutrition in resource-poor regions	1 Year	Dr. Mayank Agrawal	2.15
4.	Investigating the impact of patient-specific genetic, environmental, and lifestyle data on the personalized treatment of conditions like hypertension and diabetes	1 Year	Dr. Neeti	1.2

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5.	A study assessing how telemedicine can improve postoperative care and patient outcomes in underserved, rural communities	1 Year	Dr. Prachi Chaudhary	2.35
6.	Research focusing on the development of hospital policies and interventions to curb the rise of antimicrobial resistance in nosocomial infections	1 Year	Dr. Prateek Sharma	3.26
7.	Analyzing the effectiveness of AI-powered imaging tools in improving the early detection and treatment outcomes for lung cancer patients	1 Year	Dr. Rachit Batra	3.28
8.	A clinical study examining the use of specific cardiac biomarkers as predictors of prognosis and treatment efficacy in myocardial infarction patients	1 Year	Dr. Shashwat Verma	2.12
9.	Designing an app that helps CKD patients track their health parameters and medication adherence	1 Year	Dr. Himani Sharma	2.5

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10.	Proposing a community-based initiative aimed at reducing vaccine hesitancy through targeted education programs	1 Year	Dr. Pramod Kumar	1.8
11.	Investigating the development of rapid diagnostic tools to detect sepsis in its early stages, particularly in intensive care units	1 Year	Dr. Lalit Kumar	2.6
12.	Exploring the impact of mobile health services in providing prenatal and postnatal care in rural or underserved areas	1 Year	Dr. Atul Mehrotra	1.9
13.	Proposing a digital platform that encourages teenagers to manage and prevent lifestyle-related diseases such as obesity and type 2 diabetes	1 Year	Dr. Mohit Agarwal	1.5
14.	Researching the effects of specialized palliative care training for medical professionals on patient quality of life during end-of-life care	1 Year	Dr. Roshni Khan	2.1

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15.	Studying the application of machine learning algorithms to predict the outcomes of cardiac surgeries, helping improve patient management	1 Year	Dr. Adarsh A.D.	2.5

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ACADEMIC YEAR 2019-20

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1.	Research aimed at creating novel nanocarriers that enhance drug delivery directly to cancer cells, minimizing side effects and improving therapeutic outcomes	1 Year	Dr. Himanshu Pandey	2.9
2.	Investigating the role of genetic markers in adjusting drug dosages to improve treatment outcomes for patients suffering from hypertension	1 Year	Dr. Ranjan Agrawal	1.75
3.	A study focused on developing eco-friendly polymers for controlled drug release, improving patient adherence and reducing drug wastage	1 Year	Dr. Anjana Arya	2.15
4.	Research investigating the prevalence of polypharmacy in elderly patients and developing interventions to reduce the risk of adverse drug interactions	1 Year	Dr. Nitesh Mohan	1.56

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5.	Evaluating the effectiveness and safety of herbal anti-inflammatory agents compared to conventional pharmaceuticals in treating chronic inflammatory conditions	1 Year	Dr. Ved Prakash	2.1
6.	Research aimed at assessing the accuracy of point-of-care ultrasound (POCUS) in diagnosing conditions in emergency settings, and its impact on patient outcomes	1 Year	Dr. Deepika Verma	2.15
7.	Investigating the potential of blood-based biomarkers for the early detection of Alzheimer's disease, aimed at improving diagnosis and treatment initiation	1 Year	Dr. Shalini Chandra	1.2
8.	A longitudinal study tracking the outcomes of bariatric surgery in obese patients, with a focus on weight loss, metabolic changes, and quality of life	1 Year	Dr. P.C. Shrivastava	1.03
9.	Investigating the connection between gut microbiota and autoimmune disorders,	1 Year	Dr. Arun Singh	1.02

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(Established Under Govt. of U.P. Act 26 of 2016)
Rohilkhand Medical College Campus, Pilibhit Bypass Road, Bareilly-243006 (U.P.) INDIA
Phone: 0581-2526011-12, Fax: 0581 - 2303345
Email: info@rmchbareilly.com, info@biu.edu.in Website: www.biu.edu.in

	exploring therapeutic interventions aimed at modulating gut flora to manage diseases like rheumatoid arthritis and lupus			
10.	A study focusing on the effectiveness of non-invasive ventilation methods compared to traditional mechanical ventilation in patients with acute respiratory failure	1 Year	Dr. Rashmi Katyal	1.04
11.	Research focused on the development of effective oral vaccine delivery systems that could replace traditional injectable vaccines for diseases like hepatitis and polio	1 Year	Dr. Bhushan Kumar	1.73
12.	An exploration of the neuroprotective properties of plant-derived alkaloids, such as those from curcumin, for the treatment of Parkinson's and Alzheimer's diseases	1 Year	Dr. Swati Khan	2.06
13.	Designing a mobile screening tool to identify prediabetes and diabetes in high-risk	1 Year	Dr. Kishan Chand Gupta	1.8

SUSHIL KUMAR THAKUR

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	populations, with a focus on early intervention.			
14.	Researching the use of immunotherapy for treating conditions like rheumatoid arthritis or lupus, exploring its effectiveness and long-term outcomes.	1 Year	Dr. Jitin Kumar Pasricha	1.2
15.	Investigating barriers to antenatal care adherence and proposing innovative solutions to increase attendance in rural settings	1 Year	Dr. Shashank Mishra	2.1
16.	Proposing a virtual assistant app that helps patients manage chronic conditions such as asthma, hypertension, or diabetes by tracking symptoms, medications, and lifestyle changes	1 Year	Dr. Sudhir Kumar	2.5
17.	Researching how nanotechnology can be utilized to develop more effective and targeted chemotherapy treatments, reducing side effects	1 Year	Dr. Hemender Kumar	2.8

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18.	Developing a mobile application that provides mental health screening and counseling services for teenagers, focusing on early intervention for anxiety, depression, and stress	1 Year	Dr. Manish Goel	2.9
19.	Exploring how plant-based diets can be used as a preventive measure against cardiovascular diseases, backed by clinical trials	1 Year	Dr. Manali Agarwal	2.1
20.	Developing a community-led sanitation project that focuses on reducing the incidence of waterborne diseases such as cholera and dysentery	1 Year	Dr. Manish Kumar	2.2

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ACADEMIC YEAR 2018-19

Sr. No	Name of the project	Duration of the project	Name(s) of the teacher(s) working in the project receiving seed money	The amount of seed money provided (INR in lakhs)
1.	A study examining the pharmacokinetics and clinical effectiveness of novel antiviral drugs in combating viral infections resistant to current therapies	1 Year	Dr. Rajib Ratna Chaudhary	2.07
2.	Investigating the impact of pharmacist-led interventions in reducing medication errors and improving patient safety in hospital environments	1 Year	Dr. Rajesh Agrawal	2.1
3.	Research focused on developing and evaluating nanoparticles as a targeted delivery system for chemotherapeutic drugs in treating liver cancer, aimed at enhancing drug efficacy and reducing systemic toxicity	1 Year	Dr. Chandra Shekhar Sharma	2.05

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4.	Research on developing and refining minimally invasive surgical techniques for the treatment of complex gastrointestinal diseases	1 Year	Dr. Roshan Lal Sharma	1.06
5.	A clinical study focusing on the effectiveness of immunotherapy protocols in patients with late-stage lung cancer	1 Year	Dr. Rajesh Bansal	2.1
6.	Investigating patient recovery, cost efficiency, and long-term outcomes in robotic-assisted urological surgeries compared to conventional approaches	1 Year	Dr. Alka Bhambri	1.05
7.	A study focused on the development and testing of bioactive dental materials to improve the durability and success rates of dental restorations	1 Year	Dr. Neeharika Arora	1.1

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8.	Researching the link between oral microbial health and the onset of systemic diseases such as diabetes and cardiovascular conditions	1 Year	Dr. Uma Rani Purohit	1.12
9.	Exploring the effectiveness of laser therapy in managing periodontal diseases and improving patient recovery rates	1 Year	Dr. Ram Pal Singh	1.1
10.	A study on the application of 3D printing technology for reconstructive surgery in complex maxillofacial injuries and defects	1 Year	Dr. Ananda Prakash Verma	1.05
11.	Investigating the potential of stem cell-based therapies in promoting tooth regeneration and tissue repair in dental patients	1 Year	Dr. Malti Devi Agarwal	1.05
12.	Evaluating the accuracy, radiation exposure, and clinical advantages of cone-beam computed tomography (CBCT) over	1 Year	Dr. Praveen Kumar Rathore	1.1

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	traditional imaging methods in orthodontic treatment planning			
13.	A study on how nurse practitioners contribute to addressing the shortage of healthcare professionals in underserved areas	1 Year	Ms. Anitha P.	1.08
14.	Research on the implementation and effectiveness of infection control protocols in preventing hospital-acquired infections in intensive care units	1 Year	Dr. Priyanka A. Masih	1.07
15.	Investigating the influence of stress management interventions on job satisfaction and retention rates among nursing staff in high-stress healthcare environments.	1 Year	Dr. Anitha P.	1.1

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16.	Researching the effectiveness of mindfulness and meditation programs in reducing stress and burnout in healthcare professionals	1 Year	Dr. Darshan Mehra	1.2
17.	Proposing the development and implementation of a smart wearable that allows continuous monitoring of blood glucose levels for better management of diabetes	1 Year	Dr. Arvind Agarwal	1.6
18.	Investigating how mobile health education tools can be used to inform and prevent teenage pregnancies, particularly in rural and low-income communities	1 Year	Dr. Ghayasul Rehman	1.4
19.	Researching the feasibility and accuracy of point-of-care diagnostic tools for detecting diseases like tuberculosis, malaria, and HIV in low-resource settings	1 Year	Dr. Saurabh Goel	2.5

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20.	Studying the impact of genetic counseling in helping patients with a family history of cancer make informed decisions about screening and preventive measures	1 Year	Dr. Rajib Ratna Chaudhary	2.9
21.	Proposing a community-based health initiative aimed at raising awareness and providing early detection services for dementia and Alzheimer's disease	1 Year	Dr. Mohd. Javed Khan	2.4
22.	Creating a mobile app that assists elderly patients in monitoring blood pressure, medication adherence, and lifestyle changes to manage hypertension effectively	1 Year	Dr. Amit Kumar	2.1
23.	Researching the potential of AI-driven systems to assist radiologists in diagnosing diseases, improving accuracy, and reducing human error	1 Year	Dr. Rajat Kumar	1.8

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