



RESEARCH at Lata Mangeshkar Medical Foundation's Deenanath Mangeshkar Hospital and Research Centre Pune, Maharashtra, India



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DEENANATH MANGESHKAR HOSPITAL AND RESEARCH CENTRE, PUNE, M.S., INDIA

PATRON, SUPPORT and DIRECTOR

Dr. Dhananjay S. Kelkar

ANNUAL REPORT 2019-20 – CONTRIBUTIONS

Dr. Vaijayanti V. Pethe
 Report timelines
 Content strategy and design
 Developmental editing

Ms Aditi A. Deshpande
 Data compilation and initial drafts – IHR program
 DNB thesis data (requested from the Department of Academics)

- Mrs Anagha P. Tulpule
 List of Publications
- *Dr. Shweta A. Chitharanjan*Data compilation CTR program
- Dr. Gauri A. Oka
 Abstracts of published papers and projects presented at conferences and meetings
 Content check and developmental editing IHR program





SUMMARY OF CLINICAL RESEARCH AT DMHRC –



DMHRC is a NABH accredited (2019), super-specialty, consultative, 800-bed tertiary acute-care hospital located in a prime area in Pune. Research Department is part of the hospital with modus operandi to efficiently facilitate, regulate and promote human research coordinated by an agile and coherent team. Over the years since it's inception in 2002, the department is now positioned to uphold health research to high degree of merit and quality for the benefit of society at large.

The central mission of Research at Deenanath Mangeshkar Hospital is to do patient-oriented research for generating knowledge and new information that can lead to the prevention, better diagnosis alongside improved management or treatment of tractable and intractable human diseases. Research at the hospital is also aimed at improving the quality of life for those afflicted with debilitating or chronic conditions such as diabetes, cardiovascular, neurological, musculoskeletal, metabolic disorders and cancer to name a few. Research is primarily led and carried out by physicians, consultants, fellows and students from across various clinical departments in Phase I and Phase II areas of the hospital with intramural or extramural funding provisions.

The Department of Research publishes an Annual Report – highlighting people and programs that have contributed significantly to our central mission. I am pleased to release the 2019-20 report featuring our research accomplishments which augur well with our mission and vision as demonstrated through diverse thematic projects undertaken and publication record of our industrious clinicians as detailed in this report.

Our Clinical research programs are summarized below -

• SPONSORED RESEARCH PROGRAM -

In the clinical trial arena, consultants attempt to provide best opportunity for patient care today as well as going forward by undertaking national and globally-sponsored patient-oriented clinical trials on drugs, biologicals and devices. With facilitation and regulation from Research Department, Clinical trial research is undertaken by consultants of DMHRC,





specialized in diverse therapeutic areas, to test novel and potent therapies with a potential to likely change clinical practice towards better and more desirable patient outcomes. We currently have about 44 ongoing clinical trials with Oncology trials topping the list followed by trials in neurology and endocrinology. We have elaborated the clinical trial research program in sponsored research section of this report. We would like to mention that before the feasible trials are undertaken by consultants, it is mandatory that Project investigators pass them through review process by SAC and IEC of DMHRC. Only SAC and EC approved trial protocols are permitted to be implemented at specified trial sites at the hospital.

• IN-HOUSE RESEARCH PROGRAM –

Our investigator-initiated research program comprises basic, biomedical and translational research studies undertaken by our research consultants from various clinical departments. About 55 single center and collaborative projects were submitted for SAC/EC evaluation by ~ 25 clinicians during the past year that were supported by intramural and extramural funding. The research across the hospital spanned the full spectrum of diseases, to name a few — in the pediatric group — the consultants weighed on drug-resistant epilepsy, neuroblastoma, laryngomalacia, Autosomal spectrum disorders (ASD). Research in adults included conditions such as diabetic retinopathy, brachial plexus, shoulder, knee injuries and fractures, neuromyelitis optica spectrum disorder, sepsis prevalence in critically ill patients, autoimmune vesciculobullos skin disease. On the sidelines of above analytical observational and experimental studies, consultants from departments of Radiology, Pediatric neurology and Ob-gyn, via collaborations, ushered into AI/ML —based algorithm development and testing projects for conditions such as liver cancer, Superior mesenteric artery occlusion, Pulmonary Embolism [PE], Cerebral Venous Sinus Thrombosis [CVST], focal cortical dysplasia.

We believe the investigations usually have the basic objective of describing and quantifying disease problems and of examining correlation, if any, between serological, tissue biomarkers, underlying conditions with disease etiology, diagnosis, progression, prognosis and patient outcome. The single centre and collaborative projects with diverse and recurrent themes are listed in "In-house research program" section of this report indicated with status of each undertaken study.

• DNB THESIS PROGRAM -

The Department of Academics at DMHRC takes the responsibility of DNB thesis research. This includes projects undertaken by DNB (Diplomate of National Board) students under the supervision of investigators of DMHRC. 55-60 students enrolled in the DNB program annually in about 25 clinical departments accredited by NBE. After successful completion of the project(s), DNB degree is awarded by the National Board of Examinations (NBE) – an autonomous academic body under the Ministry of Health and Family Welfare, Government of India. With data requested from Department of Academics, we enlist the projects undertaken during the past year in "DNB thesis research" section of the annual report.





• OUR RESEARCH REVIEW COMMITTEES –

In line with our mission, we continue to operate with internal Scientific Advisory Committee (SAC) that delves into unmet need, novelty and scientific soundness of projects submitted by project investigators.

SAC approved projects are subjected to review by Ethics committees of DMHRC.

Hitherto we have had a single Ethics Committee that reviewed all clinical research at the hospital; however, with the advent of New Drugs and CT rules – released by Government of India – early 2019, we now have 2 Institutional Ethics Committees in place – one to review Clinical Trial Research and other to assess Biomedical and Health Research.

All research review committees at DMH are constituted by the Director – Dr Dhananjay S. Kelkar and function under the umbrella of the Research Department. Members follow definitive management guidelines, operate under defined institutional policies – and are selected based on appropriate credentials, merit, research acumen and prowess. Details of members are presented in our EC SOP documents, which are revised, as appropriate.

As well, as per the regulatory requirements, the Institutional Ethics Committee of DMHRC for Clinical trial research has been registered with DCGI, under the Central Drugs Standard Control Organization, (CDSCO), New Delhi – and accredited by NABH early 2018. The Ethics Committee for Biomedical and Health research is provisionally registered with Department of Health Research (DHR), New Delhi, early December (2019)

Additionally, we continue to maintain our SIRO recognition from DSIR, New Delhi, India for conduct of in-house research at DMHRC. The renewal beyond March 2020 is currently being sought.

We wish to earnestly thank and appreciate the efforts and time of many individuals who have contributed to this report including various clinical department heads, coordinators, clinical fellows, administrators, and of note, research consultants.

Dr Vaijavanti V. Pethe

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Department of Research,
Deenanath Mangeshkar Hospital and Research Center
Pune, Maharashtra, India
www.dmhospital.org

"Leading the way to the future of personalized medicine through meticulous health research - and best practices at DMHRC"



OUR MISSION –

Our mission is to promote scientifically sound and ethical health research in the best interest of patient care

Our vision –

Our vision is to advocate and deliver health research to high degree of merit and quality for the benefit of patients at large.

DEPARTMENTAL ORGANIZATION

Our leadership -

RESEARCH OPERATION AND PRIORITIES

Patron, support and Director [HOI] – Dr. Dhananjay S. Kelkar (2001)

Assistant Director, Research – Dr. Vaijayanti V. Pethe (2013)

In-charge, In-house research program [IHR, Promotion] – Dr. Gauri A. Oka (2014)

In-charge, Clinical trial research program (CTR) – Dr. Shweta A. Chitharanjan (2002)

In-charge, In-house research program [IHR, Regulation] – Dr Amrita P. Prayag (2018)

Our staff –

n-house research program –

Ms Aditi Deshpande, (Research Assistant, 2017)

Ms. Pooja Uchale (Research Assistant, 2019)

Dr. Sonu Hadke (Research Associate, 2019)

Ms. Devika Joshi (Research Assistant, 2019)

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Dr Amruta Shinde (ICD coder, 2020)

Sponsored research program –

Dr Deepali Patil, (Clinical Research Coordinator, 2015)

Dr Smita Sawant, (Clinical Research Coordinator, 2015)

Dr Asmita Shembekar, (Clinical Research Coordinator, 2017)

Mrs Snehal Jadhav, (Clinical Research Coordinator, 2017)

Dr Tejashree Patole, (Clinical Research Coordinator, 2017)

Ms Madhura Shirolkar, (Clinical Research Coordinator, 2018)

Dr. Kirti Jalkote, (Clinical Research Coordinator, 2019)

Mrs Manisha Ghumatkar, (Clinical Research Coordinator, 2019)

MPW -

Mr Sandeep Bhosale (Multipurpose worker, 2007)



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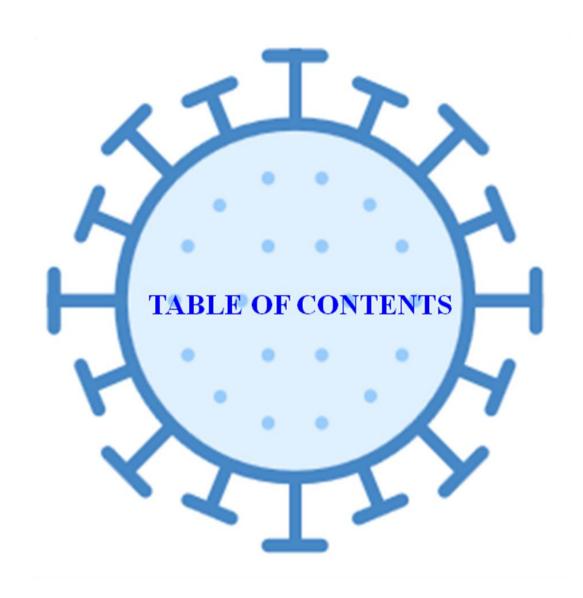






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Our registrations/accreditations for clinical research – inhouse program, clinical trial research program – and dnb degree program

IN-HOUSE RESEARCH PROGRAM – Biomedical and Health Research

A] We are granted SIRO registration from DSIR with renewal from April 2017 through March 2020.

The renewal is currently being sought beyond March 2020

B] Ethics Committee (BMHR) is provisionally registered with Department of Health Research, ICMR, New Delhi (December 2019)

CLINICAL TRIAL RESEARCH PROGRAM -

A] Our IEC registration validity from DCGI (CDSCO, New Delhi) runs from April 2019 through March 2022 [Re-Registration number – ECR/15/Inst/Maha/2013-RR19]

B] The Ethics Committee of DMHRC has been granted accreditation from NABH – The validity of accreditation runs from January 21th 2018 through January 20th 2021

DNB THESIS PROGRAM -

25 Clinical departments at DMH have been accredited by National Board of Examinations, New Delhi.

The list of departments is included in SOP – BMHR document.

(The data on thesis projects was requested from the Department of Academics)







SELECTED PUBLICATIONS



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SELECTED PUBLICATIONS –

1. Teoh AYB, **Bapaye A**, Lakhtakia S, Ratanachu T, Reknimitr R, Chan SM, Choi HJ, Gadhikar HP, Kongkam P, Korrapati SK, Lee YN, Medarapalem J, Ridtitid W, Moon JH. *Prospective multicenter international study on the outcomes of a newly developed self-approximating lumen-apposing metallic stent for drainage of pancreatic fluid collections and endoscopic necrosectomy.*

Dig Endosc. 2020 March 32(3): 391-98

2. Nikumbh T, Bhandarwar A, Sanap S, Wagholikar G.

Laparoscopic management of intra-hepatic gallbladder perforation. J Minim Access Surg. 2020 Jan-Mar; 16(1): 77-79.

3. Biswas G, Pandey A, Ghadyalpatil N, Lokeshwar N, Thomas B, Ramesh A, Arora Y, Dodagoudar C, Naik V, Joshi A, Ghosh I, Roy R, Kunjahari M, Singh T, Satya PD, **Hingmire S**, Parikh PM.

Role of Cresp [®] in the Management of Chemotherapy-Induced Anemia in Cancer Patients: A Real-World Clinical Practice Audit South Asian J Cancer. 2020 Jan-Mar; 9(1):59-61.

4. B. Vibhishab and M. G. Watve

Context-dependent Selection as the Keystone in the Somatic Evolution of Cancer Sci. Rep. 2020 Mar 10(1), 4223

5. Kuhikar R, Khan N, Philip J, **Melinkeri S**, Kale V, Limaye L.

Transforming growth factor $\beta 1$ accelerates and enhances in vitro red blood cell formation from hematopoietic stem cells by stimulating mitophagy.

Stem Cell Res Ther. 2020 Feb 19; 11(1):71

6. Bapaye A, Dharamsi S, Jain R, Basava G, Bapaye JA, Pujari R, Gadhikar H.

Concomitant endoscopic fundoplication - can it reduce the risk of gastroesophageal reflux following peroral endoscopic myotomy?

Endoscopy. 2020 Feb; 52(2): E73-E74

7. Bapaye A, Korrapati SK, Dharamsi S, Dubale N.

Third Space Endoscopy: Lessons Learnt from a Decade of Submucosal Endoscopy. J Clin Gastroenterol. 2020 Feb; 54(2): 114-129.

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8. Chaudhuri D, Granton D, Wang DX, Einav S, Helviz Y, Mauri T, Ricard JD, Mancebo J, Frat JP, **Jog S**, Hernandez G, Maggiore SM, Hodgson C, Jaber S, Brochard L, Burns KEA, Rochwerg B.

Moderate Certainty Evidence Suggests the Use of High-Flow Nasal Cannula Does Not Decrease Hypoxia When Compared with Conventional Oxygen Therapy in the Peri-Intubation Period: Results of a Systematic Review and Meta-Analysis.

Crit Care Med. 2020 Jan 9.

9. Neeharika Gunturu, S. Chaudri, M. Suryavanshi

Evaluation of the Efficacy of Turbinoplasty in Isolated Inferior Turbinate Hypertrophy and Allergic Rhinitis Patients with Inferior Turbinate Hypertrophy in Terms of Post Operative Outcomes.

Indian J Otolaryngol Head Neck Surg, 2019 November 71 (Suppl 3), 1900-1909

10. Bhatia SJ, Makharia GK, Abraham P, Bhat N, Kumar A, Reddy DN, Ghoshal UC, Ahuja V, Rao GV, Devadas K, Dutta AK, Jain A, Kedia S, Dama R, Kalapala R, Alvares JF, Dadhich S, Dixit VK, Goenka MK, Goswami BD, Issar SK, Leelakrishnan V, Mallath MK, Mathew P, Mathew P, Nandwani S, Pai CG, Peter L, Prasad AVS, Singh D, Sodhi JS, Sud R, Venkataraman J, Midha V, Bapaye A, Dutta U, Jain AK, Kochhar R, Puri AS, Singh SP, Shimpi L, Sood A, Wadhwa RT.

Indian consensus on gastroesophageal reflux disease in adults: A position statement of the Indian Society of Gastroenterology.

Indian J Gastroenterol. 2019 Oct;38(5):411-440

11. Ranade AS, Belthur MV, Oka GA, Malone JD

YouTube as an information source for clubfoot: a quality analysis of video content. J Pediatr Orthop B. 2019 Nov 12. [Epub ahead of print]

12. Bapaye J, Bharadwaj T, Bapaye A, Mahadik M, Pujari R, Date S, Korrapati SK, Jain R, Dubale N.

Simple mathematical equation to predict distance to gastroesophageal junction through the submucosal tunnel during peroral endoscopic myotomy.

Endosc Int Open. 2019 Nov;7(11): E1371-E1378.

13. Kulkarni MM, Dadheech AN, Wakankar HM, Ganjewar NV, Hedgire SS, Pandit HG.

Randomized Prospective Comparative Study of Adductor Canal Block vs Periarticular Infiltration on Early Functional Outcome After Unilateral Total Knee Arthroplasty. J Arthroplasty. 2019 Oct; 34(10):2360-2364.





14. Rosenthal VD, Bat-Erdene I, Gupta D, Belkebir S, **Rajhans P**, et al.

International Nosocomial Infection Control Consortium (INICC) report, data summary of 45 countries for 2012-2017: Device-associated module.

Am J Infect Control. 2019 Oct 29. [Epub ahead of print]

15. Baig U, Lokhande L, Lalwani P, Chawla S, Watve M.

Foraging theory and the propensity to be obese: an alternative to thrift.

Homo. 2019 Oct 8. [Epub ahead of print]

16. Naik S, Mahalle N, Greibe E, Ostenfeld MS, Heegaard CW, Nexo E, Fedosov SN.

Cyano-B12 or Whey Powder with Endogenous Hydroxo-B12 for Supplementation in B12 Deficient Lactovegetarians.

Nutrients. 2019 Oct 6; 11(10), 2382

17. Bajpai J, Chandrasekharan A, Simha V, Mandal T, Shah K, Hingmire S, et al.

Osteosarcoma journey over two decades in India: Small steps, big changes.

Pediatr Blood Cancer. 2019 Sep; 66(9): e27877

18. McNicholas BA, Rezoagli E, Pham T, Madotto F, Guiard E, Fanelli V, Bellani G, Griffin MD, Ranieri M, Laffey JG; ESICM Trials Group and the Large observational study to UNderstand the Global impact of Severe Acute respiratory FailurE (LUNG SAFE)

Investigators. Total collaborators are 888, including Jog SA

Impact of Early Acute Kidney Injury on Management and Outcome in Patients with Acute Respiratory Distress Syndrome: A Secondary Analysis of a Multicenter Observational Study. Crit Care Med. 2019 Sep;47(9):1216-1225.

19. Kalane S, Patankar S.

Idiopathic Isolated Gastric Pneumatosis in a Preterm Neonate.

J Indian Assoc Pediatr Surg. 2019 Jul-Sep; 24(3):225

20. Oka AA, Oka GA.

The Enigma of Early Progesterone Rise: Is It Associated with the Type of Gonadotropin Used?

J Hum Reprod Sci. 2019 Jul-Sep; 12(3):229-233

21. Kulkarni M, Mallesh M, Wakankar H, Prajapati R, Pandit H.

Effect of Methylprednisolone in Periarticular Infiltration for Primary Total Knee Arthroplasty on Pain and Rehabilitation.

J Arthroplasty. 2019 Aug; 34(8):1646-1649





22. Garg MK, Mahalle N.

Calcium Supplementation: Why, Which, and How? Indian J Endocrinol Metab. 2019 Jul-Aug;23(4):387-390

23. Teoh AY, Perez-Miranda M, Kunda R, Lee SS, Irani S, Yeaton P, Sun S, Baron TH, Moon JH, Holt B, Khor CJL, Rerknimitr R, **Bapaye A**, et al.

Outcomes of an international multicenter registry on EUS-guided gallbladder drainage in patients at high risk for cholecystectomy.

Endosc Int Open. 2019 Aug;7(8): E964-E973

24. Pairaiturkar PP, Sudame OS, Pophale CS.

Evaluation of Dimensions of Kambin's Triangle to Calculate Maximum Permissible Cannula Diameter for Percutaneous Endoscopic Lumbar Discectomy: A 3-Dimensional Magnetic Resonance Imaging Based Study.

J Korean Neurosurg Soc. 2019 Jul;62(4):414-421

25. Oka GA, Ranade AS, Kulkarni AA.

Back pain and school bag weight - a study on Indian children and review of literature. J Pediatr Orthop B. 2019 Jul;28(4):397-404

26. Khadilkar SV, Kadam ND, **Kulkarni RV**, Meshram CM, Meshram AR, Patel BA, Chheda AH.

Guidelines versus ground lines: Tuberculosis of the central nervous system. Neurol India. 2019 May-Jun;67(3):787-791

27. Ghadyalpatil NS, Pandey A, Krishnamani I, Srinivas C, Rafiq SJ, **Hingmire SS**, et al. *First-line management of metastatic non-small cell lung cancer: An Indian perspective*. South Asian J Cancer. 2019 Apr-Jun;8(2):73-79.

28. Shinde P, Melinkeri S, Santra MK, Kale V, Limaye L.

Autologous Hematopoietic Stem Cells Are a Preferred Source to Generate Dendritic Cells for Immunotherapy in Multiple Myeloma Patients.

Front Immunol. 2019 May 21; 10:1079

29. Maiskar V, Surve S.

Early Onset Intrahepatic Cholestasis of Pregnancy: Is Progesterone Supplementation to be Blamed for?

J Obstet Gynecol India. 2019 Apr;69(2):192-193.

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30. Jagtap SA, Kurwale N, Patil S, Joshi A, Nilegaonkar S.

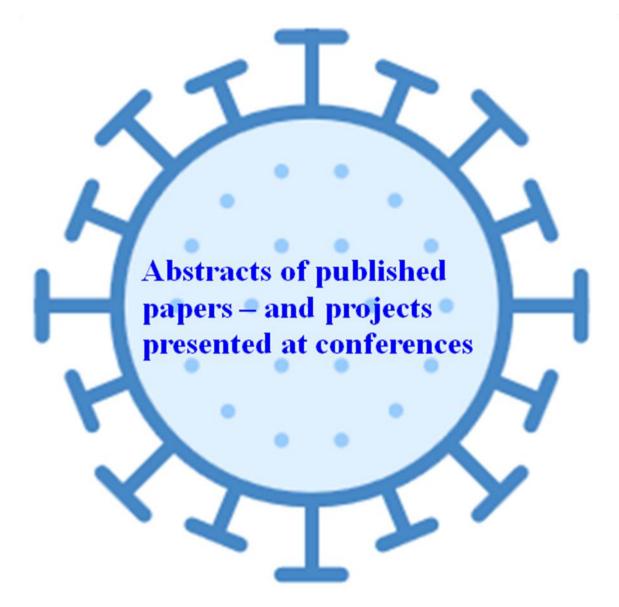
Gyratory seizures as a presentation of temporal encephalocele. Epilepsia Open. 2019 Apr 21; 4(2):355-358

31. Iyer S, Prajapati R, Ramesh A, Basavalingegowda M, Todur S, Kavishvar S, Vijaykumar R, Naik R, **Kulkarni P**, et al.

The future of lung cancer therapy: Striding beyond conventional EGFR and ALK treatments. Mol Clin Oncol. 2019 Apr; 10(4):469-475.











ABSTRACTS OF PUBLISHED PAPERS – SAC / EC Approved projects

1. Oka GA, Ranade AS, Kulkarni AA.

Back pain and school bag weight - A study on Indian children and review of literature. J Pediatr Orthop B. 2019;28(4):397-404.

Abstract -

Back pain in children is a complex phenomenon, which has been shown to be associated with physical and psychosocial factors. None of the studies on Indian children have investigated the possible association between back pain and psychosocial factors. We decided to determine the prevalence of back pain in students and association with both physical and psychosocial factors. A cross-sectional study was conducted on 163 students from two city schools. Physical factors were evaluated using a structured questionnaire. Strengths and difficulties questionnaire was used to assess psychosocial factors. The studied sample consisted of 49.7% boys and 50.3% girls. Mean school bag weight was 6.1±2.4 kg (range: 2.2-15.6 kg). Mean weight of school bag as a percentage of body weight was 13.5±6.2%. Approximately 76% students carried more than 10% of their body weight. The prevalence of back pain (over last 1 month) was 53.9%. No associations were found between back pain and weight of school bag, weight of school bag as a percentage of body weight and physical activities. Significant associations were found between back pain and number of hours spent watching television [odds ratio (OR): 3.3, 95% confidence interval (CI): 1.5-7.5; P=0.003], history of injury to the back (OR: 4.8, 95% CI: 1.47-15.8, P=0.003), presence of a family member complaining of back pain (OR: 1.98, 95% CI: 1.25-3.14, P=0.002), conduct (P=0.042) and hyperactivity problems (P=0.045). Thus, there appears a need to consider psychosocial factors along with physical factors when evaluating a young student with back pain.

2. Oka AA, Oka GA.

The Enigma of Early Progesterone Rise: Is It Associated with the Type of Gonadotropin Used?

J Hum Reprod Sci. 2019;12(3):229-233.

Abstract -

Background: It is debated whether the use of recombinant follicle-stimulating hormone (r-FSH) or human menopausal gonadotropin (HMG) is associated with progesterone (P) elevation in the late follicular phase. **Aims**: The aim is to determine whether the type of gonadotropin used for controlled ovarian stimulation (COS) in in vitro fertilization (IVF) is associated with P elevation in the late follicular phase using antagonist protocol. **Setting and design:** This was a retrospective data analysis in the IVF unit. **Methods**: Data of women who underwent COS between January 2005 and December 2017. **Statistical analysis:** Chi-square





and unpaired Student's t-test in SPSS 20. **Results**: Data of 439 women was analyzed. Mean age was 31.45 ± 4.6 years. HMG was used in 193 (44%), r-FSH in 232 (52.8%), and a combination of both in 14 (3.2%) women. Proportion of women with elevated P was significantly higher in r-FSH group as compared to HMG group (19/232 [8.2%] vs. 6/193 [3.1%]; P = 0.027). Mean P levels were significantly higher in r-FSH group (0.75 ng/ml vs. 0.59 ng/ml; P = 0.049). Mean estradiol (E2) levels at trigger were significantly higher in women with elevated P as compared to normal P (2893.4 \pm 2091.8 pg/ml vs. 1668.3 \pm 1508.6 pg/ml respectively; P < 0.000). Fresh embryo transfers performed in 18/27 women with elevated P resulted in pregnancy in three (16.7%) women. Two had biochemical pregnancies and one was lost to follow-up. **Conclusions**: Use of r-FSH and E2 levels at trigger are associated with elevated P levels in the late follicular phase. Fresh embryo transfers performed in spite of elevated P levels were associated with low pregnancy rates and unfavorable outcomes.

3. Pairaiturkar PP, Sudame OS, Pophale CS.

Evaluation of Dimensions of Kambin's Triangle to Calculate Maximum Permissible Cannula Diameter for Percutaneous Endoscopic Lumbar Discectomy: A 3-Dimensional Magnetic Resonance Imaging Based Study.

J Korean Neurosurg Soc. 2019;62(4):414-421.

Abstract -

Objective: To evaluate 3-dimensional magnetic resonance imaging (MRI) of Kambin's safe zone to calculate maximum cannula diameter permissible for safe percutaneous endoscopic lumbar discectomy. Methods: Fifty 3D MRIs of 19 males and 31 females (mean, 47 years) were analyzed. Oblique, axial and sagittal views were used for image analysis. Three authors calculated the inscribed circle (cannula diameter) individually, within the neural (original) and bony Kambin's triangle in oblique views, disc heights on sagittal views and root to facet distances at upper and lower end plate levels on axial views and their averages were taken. **Results**: The mean root to facet distances at upper end plate level measured on axial sections increased from 3.42±3.01 mm at L12 level to 4.57±2.49 mm at L5S1 level. The mean root to facet distances at lower end plate level measured on axial sections also increased from 6.07±1.13 mm at L12 level to 12.9±2.83 mm at L5S1 level. Mean maximum cannula diameter permissible through the neural Kambin's triangle increased from 5.67±1.38 mm at L12 level to 9.7±3.82 mm at L5S1 level. The mean maximum cannula diameter permissible through the bony Kambin's triangle also increased from 4.03±1.08 mm at L12 level to 6.11±1 mm at L5S1 level. Only 2% of the 427 bony Kambin's triangles could accommodate a cannula diameter of 8mm. The base of the bony Kambin's triangle taken in oblique view (3D MRI) was significantly higher than the root to facet distance at lower end plate level taken in axial view. Conclusion: The largest mean diameter of endoscopic cannula passable through





"bony" Kambin's triangle was distinctively smaller than the largest mean diameter of endoscopic cannula passable through "neural" Kambin's triangle at all levels. Although proximity of exiting root to the facet joint is always taken into consideration before PELD procedure, our 3D MRI based anatomical study is the first to provide actual maximum cannula dimensions permissible in this region.

4. Kulkarni M, Mallesh M, Wakankar H, Prajapati R, Pandit H.

Effect of Methylprednisolone in Periarticular Infiltration for Primary Total Knee Arthroplasty on Pain and Rehabilitation.

J Arthroplasty. 2019;34(8):1646-1649.

Abstract -

Background: Optimal pain management after total knee arthroplasty (TKA) is important to ensure timely rehabilitation and patient satisfaction. This study examines the efficacy of adding corticosteroid in periarticular infiltration cocktail with relation to postoperative pain management and rehabilitation in patients undergoing simultaneous bilateral TKA. Methods: Fifty patients with symptomatic end-stage bilateral knee osteoarthritis undergoing bilateral TKA under the same anesthetic were recruited. More painful knee was operated first, and the study solution containing ropivacaine, clonidine, epinephrine, and ketorolac with methylprednisolone was infiltrated in one knee and an identical mixture but without methylprednisolone was infiltrated in the second knee. Outcome measures included comparison of visual analogue scale on movement of each knee and range of motion achieved during the first three days after surgery. Results: Differences in visual analogue scale score and range of motion at day one and three between the two groups of knees were significant (P < .05). Postoperative inflammation and the ability to straight leg raise showed better trends in the knees receiving prednisolone although this did not reach statistical significance. **Conclusion**: Addition of methylprednisolone to periarticular infiltration cocktail for patients undergoing TKA has significant influence on reduction of pain in the early postoperative period and patients are able to regain knee flexion more quickly.

 Kulkarni MM, Dadheech AN, Wakankar HM, Ganjewar NV, Hedgire SS, Pandit HG. Randomized Prospective Comparative Study of Adductor Canal Block vs Periarticular Infiltration on Early Functional Outcome after Unilateral Total Knee Arthroplasty. J Arthroplasty. 2019;34(10):2360-2364.

Abstract -

Background: Total knee arthroplasty (TKA) is associated with significant postoperative pain. Effective pain relief is essential for early postoperative rehabilitation. Periarticular infiltration (PAI) and adductor canal block (ACB) have become popular modes of pain management after





TKA. Our aim is to compare their efficacy and impact on early functional outcome in patients undergoing TKA. Methods: A single-blinded randomized controlled trial, 100 patients undergoing unilateral primary TKA for symptomatic osteoarthritis were allocated to either of the 2 groups (50 in each arm): postoperative ultrasound-guided single shot of ACB (group A) or intraoperative PAI (group B). All patients underwent TKA without patella resurfacing under spinal anesthesia. Preoperative workup, surgical technique, and postoperative management were standardized for all the patients. Patients were assessed for pain using visual analogue scale at 6, 12, and 24 hours after surgery; hemoglobin level preoperatively and postoperatively on day 1 to calculate blood loss; hospital stay; tourniquet time; operative time; and postoperative complications by an independent observer blinded to the group allocation. Results: Patients were matched for age, gender, American Society of Anesthesiologists grade, and deformity. Visual analogue scale (scale 0-10) between PAI and ACB at 6, 12, and 24 hours were significantly different (P < .05) with higher scores seen in patients with ACB at all-time points. Tourniquet time and operative time were significantly longer in the PAI than ACB. No significant difference in hospital stay was observed. No complications occurred during the study. Conclusion: PAI achieves better pain control as compared to ACB in patients undergoing unilateral TKA.

6. A Babhulkar, Ravi Kumar, Prateek Patil, Vimal Kumar.

Functional and clinical outcome of arthroscopic rotator cuff repair in patients aged 70 years and older.

Int J of Orth. 2019;6(3):1113-1116.

Abstract -

Aim: The purpose of this study was to evaluate the outcome of arthroscopic rotator cuff repair in patients aged 70 years or older and report our results in terms of pain, range of motion, muscle strength, and functional outcome. Materials and Methods: We performed retrospective data review and identified 97 shoulders (94 patients) of our interest with minimum 24 months of follow-up. All patients were evaluated with Visual Analogue Scale (VAS), Range of motion (ROM), Manual Muscle Strength, and Oxford Shoulder Score (OSS) preoperatively and at final follow-up. Patient satisfaction was determined by asking patients whether they were satisfied (yes or no). Statistical analysis was performed using paired t test to compare pre and postoperative measures and Mann-Whitney U test to see the effect of age and gender on the final outcome. Results: Of 97 shoulders, 70 (67.9%) shoulders were available for final evaluation with a mean age of 73.56 years (70 to 81) and mean follow-up of 57.52 months (24 to 122). Mean VAS for pain was improved from 8.4 (6 to 10) to 1.04 (0 to 5) (p < 0.001) at final follow-up. Mean forward flexion, abduction, external rotation increased from 112.50° to 165.43° (p < 0.001), 114.36° to 166.86° (p < 0.001), 45.14° to 73.64° (p < (0.001) respectively, as well as, Internal rotation also improved in 55 patients (78.5%, n = 70) at final follow-up. Mean muscle strength of Supraspinatus (SSP) and Infraspinatus (ISP)





according to MRC scale was significantly improved (p < 0.05) from 2.84 (2 to 4) to 4.67 (4 to 5) and from 2.77 (2 to 4) to 4.64 (3 to 5) at the final follow-up respectively. Mean OSS was improved from 11.49 to 44.40 (p < 0.001) and only three patients (4.28%, n = 70) were subjectively less than satisfied at final follow-up. **Conclusions**: There was a significant improvement in shoulder function with a low complication rate. Hence, we have no hesitation to recommend repair in this age group. Provided the rotator cuff is not grossly wasted and patient is fit to undergo surgery, age should not be the criteria for determining reparability.

7. Ranade AS, Belthur MV, Oka GA, Malone JD

YouTube as an information source for clubfoot: a quality analysis of video content. J Pediatr Orthop B. 2019. Doi: 10.1097/BPB.000000000000694 [e-pub ahead of print].

Abstract -

Idiopathic clubfoot is the most common congenital anomaly of the lower extremity. YouTube has emerged as an important source of health-related information for patients and families. Parents seek information about clubfoot on YouTube. However, the quality of these videos remains unknown. Therefore, we decided to evaluate the quality of YouTube videos about clubfoot. We searched YouTube for clubfoot videos using appropriate keywords. English language videos with more than 10,000 views were included. Three fellowship trained pediatric orthopedic surgeons independently assessed the videos and classified them into corporate, hospital, education and private. The quality of information was assessed using the Modified DISCERN and JAMA benchmark scores. The search yielded 12,060 videos of which 42 were analyzed. There were 9(21%) videos from corporate organizations, 12(29%) from hospitals, 3(7%) from educational organizations and 18(43%) by private individuals. The mean Modified DISCERN score was 2.1 ± 1.07 (range 0.3-4) and mean JAMA benchmark score was 0.9 ± 0.65 (range 0-2). Educational videos had highest mean Modified DISCERN score (3.1 \pm 0.85) and private videos, the least (1.43 ± 1) . This difference was statistically significant (P=0.004). Hospital videos had highest mean JAMA benchmark score of 1.3 ± 0.6 as compared with private videos which had the least mean score of 0.5 ± 0.6 . This difference was also statistically significant (P=0.001). The results of our study indicate that the quality of information on idiopathic clubfoot on YouTube needs improvement. Videos from educational and hospital sources should be preferred over private sources.





Abstracts of projects presented at national and international conferences

1. Veena Rahatgaonkar, Veena Moktali, Sonal Kamble.

A comparative study of Smart Scope® aided VIA / VILI with Pap smear and naked eye VIA / VILI test for detection of pre-cancerous and cancer of cervix.

Podium presentation at the 14th Annual ISCCP Conference, 19th-21st April 2019, Visakhapatnam.

Abstract -

Background: Considering all the various requirements of a screening test in a low resource setting, a Smart Scope® aided digital cervical visual screening test namely, Smart Scope Test (SS-test) was developed. Aim: To study and compare results of naked eye visual screening test (VIA & VILI) and PAP test with Smart Scope® aided screening test for detection of precancerous and cancerous lesions of cervix. Methods: All participants underwent Pap test, naked eye VIA-VILI test and SS_test. Histopathology was considered as gold standard. Results: Out of 106 patients who were advised biopsy, 58 patients underwent biopsy. Out of 58 biopsies, 8 were normal, 30 were benign lesions and 20 were precancerous and cancerous lesion. SS_test identified all 20 CIN+ cases with 100 % sensitivity, but its specificity was low (38.8%). NE test failed to identify two confirmed positive cases. Sensitivity of NE test was 90% and specificity was 39.5%. Pap test did not identify 15 precancerous and cancerous cases out of 20 cases. Sensitivity of Pap test was 25% but specificity was high (84.2%). Conclusion: Smart Scope® test has great potential to be a primary screening test in low-resource settings. Though the specificity is low, that can be improved by introducing artificial intelligence in the device.

2. Belthur MV, Ranade AS, Oka GA, Malone JD.

YouTube as an information source for clubfoot: a quality analysis of video content.

Poster presentation at the Annual Research Day at Phoenix Children's Hospital, 23rd April 2019, Phoenix, USA.

Abstract -

Background: Idiopathic clubfoot is the most common congenital anomaly of the lower extremity. YouTube has emerged as an important source of health-related information for patients and families. Parents seek information about clubfoot on YouTube. However, the quality of these videos remains unknown. **Objective**: Evaluate the quality of YouTube videos about clubfoot. **Methods**: We searched YouTube for clubfoot videos. English language videos with more than 10,000 views were included. The quality of information





was assessed using the Modified DISCERN (MD) and JAMA benchmark scores. **Results**: The search yielded 12,060 videos of which 42 were analysed. The mean MD score was 2.1 \pm 1.07 (range 0.3-4) and mean JAMA benchmark score was 0.9 \pm 0.65 (range 0-2). Educational videos had highest mean MD score (3.1 \pm 0.85) and private videos, the least (1.43 \pm 1). This difference was statistically significant (p= 0.004). Hospital videos had highest mean JAMA benchmark score of 1.3 \pm 0.6 as compared to private videos which had the least mean score of 0.5 \pm 0.6. This difference was also statistically significant (p= 0.001). **Conclusions**: The results of our study indicate that the quality of information on idiopathic clubfoot on YouTube needs improvement. Videos from educational and hospital sources should be preferred over private sources.

3. Manisha Deshmukh, Amrita Prayag, Gauri Oka, Aditi Deshpande.

The prevalence of depression, anxiety and stress in patients with chronic wounds in a tertiary care hospital.

Poster presentation at the 8th International Symposium on the Diabetic Foot, May 2019, Hague, Netherlands.

Abstract -

Background: Depression, anxiety and stress are associated with widespread impairment of cellular and humoral immunity which causes delayed wound healing. These factors disrupt the activity of macrophages and lymphocytes in the healing process. Psychological stress can indirectly modulate the repair process by promoting the adoption of healthdamaging behaviors like self-neglect, poor sleep poor eating. All these factors are exaggerated if these patients are physically or financially dependent or lack family support. Objectives: To determine the prevalence of psychosocial factors in patients with chronic wounds in a tertiary care hospital. Methods: Medical history was collected such as patient's general health, their wound profile (such as duration, grade and improvement with treatment) and other risk factors associated with development of the wound. Social history was gathered, including financial and physical dependency, domestic help and family support. The participants were administered the DASS 42 (Depression, Anxiety and Stress scale) questionnaire. Results: 43 patients were enrolled with chronic wounds, 28 (65%) were males. A significant linear-by-linear association (p=0.006) was found between the duration of the wound and depression. Pearson chi-square test showed a significant association (p= 0.024) between the duration of the wound and anxiety. Conclusions: Our results demonstrate a high prevalence of depression, anxiety and stress in patients with chronic wounds. There is a significant association between duration of wound and development of depression and anxiety. Addressing these psychosocial factors may favor wound healing.

4. Shrikant Joshi, Devika Joshi, Gauri Oka.





Cataract surgery with systemic co-morbidity: is perioperative management necessary?

Podium presentation at the 37th Congress of the European Society of Cataract and Refractive Surgeons, (ESCRS), 14th-18th September 2019, Paris.

Abstract -

Background: Cataract surgery is a commonly done surgery in the geriatric age group. These patients may have several systemic comorbidities like ischaemic heart disease, hypertension and neurological disorders to which adequate attention must be paid while planning for surgery, administering local anaesthesia and in the postoperative period. **Objectives**: To assess the perioperative management (monitoring and interventions) required for patients who have undergone cataract surgeries with respect to specific systemic co-morbidities. **Methods**: Hospital records of 2022 patients who had undergone cataract surgery over a period of two years were analyzed retrospectively. Of these, 519 were found to have one or more systemic co-morbidities and were included in this study. **Results**: The mean age was 68 years of which 320(61.7%) were males and 199 patients (38.3%) were females. Systemic comorbidities included cardiovascular disease in 166(28.6%), hypertension in 143(24.7%), neurological disorders in 56(9.1%), malignancies in 39(6.7%), renal disorders in 24(4.1%), and respiratory disorders in 37(6.4%) patients. Out of these 519 patients, only 30 patients (5.8%) required intraoperative interventions like intravenous injection metoprolol, midazolam, and atropine, while 2 patients (0.2%) required postoperative isosorbide dinitrate for chest pain. Sedation was administered to 17 patients (3.3%) during surgery. None of the patients required overnight hospitalization for monitoring or intervention for their systemic comorbidity. **Conclusions**: Most patients with systemic comorbidities who undergo cataract surgery do not require perioperative management after local anaesthesia and anaesthesiologist on standby. Such surgeries may be safely carried out at standalone or nuclear centres in a resource-limited setup with an anaesthesiologist on standby.

5. Ranade Ashish, Oka Gauri, Goyal Nishant.

Lower Limb Alignment in Indian Children: Are We Different? A study of radiographic parameters on full-length standing radiographs.

Podium presentation at the Annual National Conference of ASAMI (Association for the Study of Application and Methodology of Ilizarov) from 28th February to 1st March 2020, New Delhi.

Abstract -

Background: Very few studies have assessed various coronal plane and joint orientation angles in children. There is no study describing radiographic angles in coronal plane in Indian children. **Objective**: To evaluate coronal plane alignment in Indian children. **Methods**: Database of all radiographs between January 2011 and June 2018 was searched.





Patients younger than 18 years of age at the time of undergoing a standing full-length radiograph of the lower extremities were identified. Children with neuromuscular disorders, systemic disease, radiographs not showing entire lower extremity from hip to ankle and radiographs obtained in rotation were excluded. In children with unilateral congenital or post-traumatic or post-infective deformity, the unaffected extremity was included. Following radiographic angles were measured: mechanical Lateral Distal Femoral Angle (mLDFA), Medial Proximal Tibial Angle (MPTA), anatomic and modified tibiofemoral angle, Hip-Knee-Ankle (HKA) Angle, lateral distal tibial angle, mechanical axis deviation, and anatomic medial proximal femoral angle. Results: Analysis of 183 lower limbs of 132 children. There were 77 (58.3%) males and 55 (41.7%) females. Mean age was 7 years, 7 months (Range: 1 year, 4 months to 16 years, 11 months). Unilateral limbs of 81 children and bilateral limbs of 51 children were found to be eligible to be included in the study. The mean mLDFA for the age group 1 to 2 years was 99 degrees (95% confidence interval, 94-105) that changed to 87.6 (95% CI, 86.5-88.8) for the age group 3 to 4 years. The mean MPTA for the same age groups changed from 86.4 to 90.1. The mean HKA angle was 11 degrees varus in the age group 1 to 2 years of age that changed to 3.5 degrees valgus in the age group 3 to 4 years. Conclusions: The development of tibiofemoral angle in Indian children is slightly different than children of other ethnicities. Varus to valgus alignment change from 1 to 4 years was mainly due to change in varus orientation of distal femur. In general, the values are in concordance with the values of other published studies.

6. Gauri Oka, Sameer Jog, Dhananjay Kelkar, Ramesh Kulkarni, Pratibha Phadke, Asawari Kanade, Sujala Watve, Shreyas Bhor, Amrita Prayag.

A cross-sectional study to assess economic burden and psychosocial status of patients with dengue fever.

Podium presentation at the 64th Annual National conference of the Indian Public Health Association IPHACON 2020, at AIIMS from 29th February to 2nd March 2020, New Delhi. **Abstract** –

Background: Prevention and control strategies are personal protection (repellents, meshes), community strategies (extermination of mosquito breeding sites), biotechnological control and vaccines. The average medical cost per hospitalized case in India has been reported as USD 235.20 (approx. INR 14,120). Patients hospitalized with dengue experience depression, anxiety and stress and panic attacks and a drastic decrease in their quality of life, especially, social and emotional well-being. Objective: To evaluate the economic burden on patients hospitalized with dengue fever and to assess their psychosocial status. **Methodology**: Hospitalized patients with laboratory-confirmed dengue were interviewed after informed consent using a researcher-made questionnaire, DASS 21 and WHO QOL BREF questionnaire. **Results**: 393 patients. Median total





expenditure was Rs. 24,260. The main contributor to total expenditure was hospital admission expenses (median Rs. 12,191). According to DASS 21 score, mild to extremely severe scores for anxiety were found in 68%. As per WHO QOL BREF neither good nor poor to very poor scores were seen in 27.1% patients in the physical domain. The mean depression, anxiety and stress scores significantly worsened as the duration of hospitalization increased. The mean QOL scores worsened with longer duration of hospital stay. As the expenses increased, depression and stress scores worsened with significant linearity, as did the domain 1 scores. No association between psychosocial scores and ward type was found. **Conclusions**: Dengue fever lead to exorbitant expenditure in hospitalized patients. Major contributor to the expenditure was "hospital admission". Depression, anxiety and stress levels (DASS 21) worsened as both, hospital stay and expenses increased. Quality of life scores in WHOQoL BREF domains 1, 2 and 3 (physical health, psychological health and social relationships) worsened as hospital stay increased.

7. Aditi Deshpande, Veena Rahatgaonkar, Sonal Kamble, Gauri Oka.

Menstrual disorders and treatment seeking behavior of adolescents.

Poster presentation at the Annual Pune Public Health Conference held on 5th and 6th March 2020, Pune.

Abstract -

Background: Menstrual disorders are a major gynecological problem faced by adolescent girls leading to morbidity that may have an adverse effect on their academic performance. Abdominal pain, heavy menstrual bleeding and irregular menstrual cycles may lead to school absenteeism and could have an adverse effect on activities of their daily life. Often, there is a delay in seeking medical advice for menstrual problems by adolescent girls. **Objective**: To determine prevalence of menstrual disorders in girls aged 10-19 years and to study their treatment-seeking behavior. **Methods**: We conducted a cross-sectional study on 592 girls in the age group of 10 to 19 years attending schools and colleges in Pune city during January 2016 to December 2016. Permission was sought from school authorities. Girls 10-17 years were included after obtaining parental consent. For 18 and 19 year olds, informed consent was taken from the girls themselves. Demographic information of adolescent girls and their mother's education was sought, height and weight were measured and questions regarding characteristics of menstrual period and treatment seeking behavior were asked. Results: Out of 592 girls, 36% were in age group 12.1-14 years. Among 471 girls who had attained menarche, the most prevalent menstrual disorder was painful menses reported by 315 (67%) girls, followed by heavy menstrual bleeding in 218 (46%) and cycle irregularity in 103 (22%) girls. All menstrual disorders were most commonly prevalent in the age group of 14.1 to 16 years. Proportion of girls visiting a doctor for painful menses was 84 / 315, for heavy menstrual bleeding was 56/218 and for





cycle irregularity was 34 / 103. The odds of girls staying away from school due to painful menses were significantly higher than those who did not have painful menses (OR 14.3 with 95% CI 3.5 to 58; p<0.000). Similarly, girls with heavy menstrual bleeding had significantly higher odds of staying away from school as compared to girls who did not bleed heavily (OR 2.5 with 95% CI 1.5 to 4.1; p<0.000). Association between mothers' education and treatment seeking behavior for girl's menstrual problems was not found to be significant. **Conclusions**: In spite of high prevalence of menstrual disorders, only a minority of the adolescents sought expert advice. This underscores the need for creating awareness among girls, mothers and teachers and developing a screening tool to identify girls who could benefit by further investigation and follow-up.

8. Devika Joshi, Aartee Palsule, Vaijayanti Gadre, Gauri Oka.

A comparative analysis of knowledge, attitude and practice of diabetic retinopathy screening in diabetics in urban and rural Maharashtra: A cross-sectional study.

Poster presentation at the Annual Pune Public Health Conference held on 5th and 6th March 2020, Pune.

Abstract -

Background: Diabetic retinopathy (DR) is a serious complication of DM accounting for 4.8% of blindness globally. It is difficult to diagnose DR early as patients become symptomatic only in the advanced stages. Thus, eye screening is the only way of early detection and intervention to prevent blindness. The knowledge, attitude and practice of diabetic patients about DR and its screening has not been explored before. Materials and Methods: A cross-sectional study was conducted in a tertiary care hospital in Pune, and in a rural hospital in Bhor, Maharashtra. Patients who were diagnosed with type II DM, visiting the outpatient department and who consented to participate in the study were included (n=200; for urban and rural each). Patients were interviewed with the help of a validated K-A-P questionnaire. The questions comprised of socio-demographic data of patients (age, sex, education, economic status) and duration of diabetes along with KAP related questions. **Results**: Mean age of patients was 64 ± 10.8 years and 62 ± 10.2 years for urban and rural Maharashtra respectively (p=0.444). Education was significantly associated with knowledge for both urban and rural areas (p=0.000). DR-specific questions were considered for scoring for each section (nK = 8; nA = 4; nP = 1). Scores, K > 4, A > 42 and P = 1, were graded as good knowledge, positive attitude and good practice respectively. Knowledge and practice scores were significantly associated in the urban setting (p=0.000). A total of 68.5% and 96% of patients exhibited poor knowledge about DR in urban and rural Maharashtra respectively (p=0.000). No patient had undergone DR screening in the rural area as opposed to 25% in the urban scenario, which reflected poor practice patterns in both the regions. Attitude, majorly, was positive, 80.5% and 98% in urban and rural areas respectively (p=0.000). Urban patients preferred to learn about DR





through pamphlets whereas, their rural counterparts preferred a talk by an ophthalmologist. Of the patients who were unwilling to get their eyes screened, 83.8% (31/37) and 83.3% (5/6) were willing to get screened if recommended by their physician. **Conclusions**: Practice of patients was significantly associated with their knowledge scores. Physician's recommendation played a vital role in motivating patients for getting eye screening. Practice was poor in urban and rural residents, both. Urgent intervention strategies like free camps, pamphlet distribution, talks by ophthalmologists are needed.

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BOOK CHAPTERS -

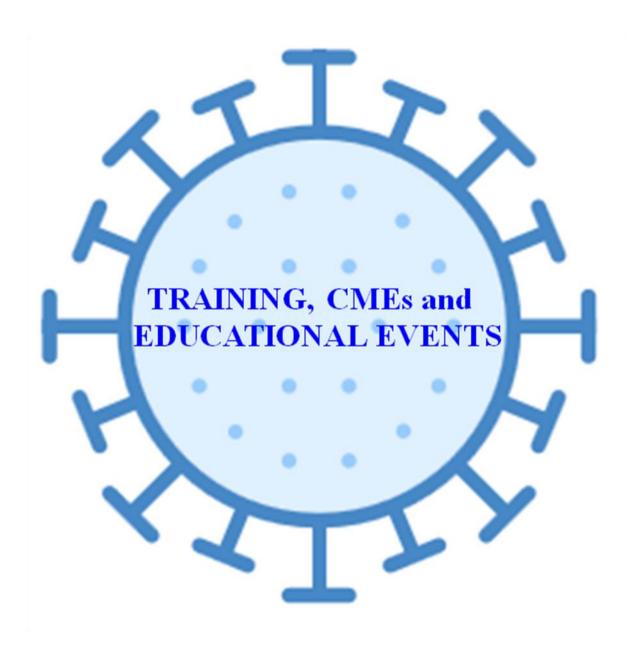
1. Dr Ranade Ashish (Consultant, Pediatric Orthopedics)

Supracondylar humerus fracture pinning

In – Hardikar SM, Shintre SS, Panchnadikar (Ed) Hardikar's Orthopaedic Operations: Text & Atlas, Jaypee Brothers 2019. Pages 18-22.











Training, cmes and educational events

TOPIC	DATE OF EVENT	SPEAKER(S)
Hands-on workshop – Reference management using Mendeley reference manager for consultants in Radiology, Cardiology, Pathology, Neurology, Gastroenterology, Oncology	24 February 2020	Dr Gauri A. Oka (In-charge, IHR)
Training-cum-seminar program for consultants — Capacity building in Clinical research methodology and manuscript writing Organizers — Dr Gauri A. Oka and Dr Vaijayanti V. Pethe	09 February 2020	Patron, support and Director – Dr. Dhananjay S. Kelkar Program moderator – Ms Devika Joshi Speakers – (Topic) – 1. Dr. Vaijayanti V. Pethe – (Preamble) 2. Dr. Parikshit Gogate, MS, DNB, FRCS (Edin) (Ophthalm) (Formulating a research question and Study designs - Cross-sectional, case-control and cohort studies) 3. Mrs Vasumathi Sriganesh, BSc, MLib, CEO, QMed Knowledge Foundation, Mumbai (Literature search using PubMed) 4. Dr. Anita Kar, PhD, Former Professor and Director, School of Health Sciences, SPPU (IMRaD - what reviewers expect from each section of the manuscript) Program logistics, registrations and coordination – RD_IHR team





		Ms Aditi Deshpande
		Ms Pooja Uchale
		Ms Devika Joshi
Hands-on workshop – Reference management using Mendeley reference manager for consultants in ENT, Ophthalmology, Obstetrics and	04 February 2020	Dr Gauri A. Oka (In-charge, IHR)
Gynecology, Orthopedics,		
Surgery		
Hands-on workshop – Reference	28 January 2020	Dr Gauri A. Oka (In-charge, IHR)
management using Mendeley reference manager for consultants in Medicine, Anesthesia, Emergency Medicine, Pediatrics	20 January 2020	Di Gauri A. Oka (III-charge, IIIK)
Awareness on and training of EC	4 November 2019	Constitution of EC (BMHR) as per the
(BMHR) members as per		requirements of New Drugs and CT
requirements of New Drugs and		Rules, 2019 –
CT Rules (2019), ICH-GCP		Dr Dhananjay S. Kelkar
guidelines, ICMR guidelines and		
EC SOP (BMHR) document		Round table discussion format –
		Dr Vaijayanti V. Pethe
		Dr Shweta A Chitharanjan
		Dr Amrita A Prayag
		All EC (BMHR) members participated in the discussion
Contemporary and emerging rules	15 September 2019	Patron, support and Director – Dr.
and guidelines in Clinical research		Dhananjay S. Kelkar
Organizers –		Program moderator – Dr. Gauri A.
Dr. Pethe V. (DMHRC, Pune) and Dr Ghooi R. (ERI, Pune)		Oka
Di Ghoof R. (ERI, Tune)		Speakers (Topic) –
		1. Dr. Vaijayanti V. Pethe (Preamble)
		2. Dr. Ravindra Ghooi (New Drugs
		and CT Rules, 2019)
		3. Dr. Ramesh Paranjape (ICMR
		guidelines)
		4. Dr. Vaishali C. Deshmukh (ICH-
		GCP guidelines with clinical





		scenarios- R1 and R2)
		Program logistics and coordination –
		- Dr. Shweta A. Chitharanjan - RD_CRC team (Drs - Deepali,
		Tejashree, Snehal, Smita, Asmita, Madhura, Kirtee)
Topic – Training to EC members	4 July 2019	Dr Vaijayanti V. Pethe –
_		- Meeting agenda
1. New Drugs and Clinical Trial		- SOP - Version 18 updates
Rules, 2019		
2. EC SOP version 18		Dr Avinash L. Joshi, Chairman, EC, DMHRC -
		Training on New Drugs and CT rules, 2019
		All EC members participated in the exchange.
		Dr Shweta A. Chitharanjan -
		Preparation of training documents
In-house research at DMHRC -	23 June 2019	Patron, support and Director –
"Caring for every project and learning from every project"		Dr Dhananjay S. Kelkar
		Program moderator –
Organizers – Dr Gauri A Oka and		Dr. Gauri A. Oka
Dr Vaijayanti V Pethe		
		Speakers-
		Dr. Vaijayanti V. Pethe (Preamble)
		Dr. Swapna Naik (Awareness under
		GA study)
		Dr. Suneel Godbole (CARS study)
		Dr. Anup Tamhankar (GPER study)
		Dr. Sumant Patil (ETT length study)
		Dr. Archana Ranade (Gait study)
		Dr. Manisha Deshmukh (DASS in
		chronic wounds)
		Dr. Shilpa Kalane (Colostrum study)
		Dr. Ashish Ranade (YouTube study)
		Dr. Sonali Pingley (Ayurvedic Gargles
		study)

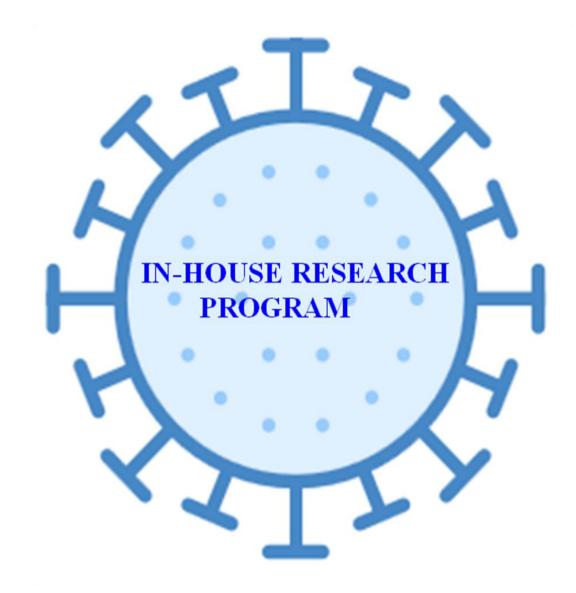




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		Dr. Pramod Patil (HRPF study)
		Dr. Malathi Panchawagh (POST
		study)
		Program Logistics and coordination—
		Aditi Deshpande
		Pooja Uchale
		Dr. Sonu Hadke
		Devika Joshi
NABH surveillance (follow-up)	7 and 8 June 2019	Patron, support and Director – Dr
site-visit for EC accreditation		Dhananjay S. Kelkar (DMHRC)
		J. J
		Opening meeting (7th of June)
		presentations by –
		-NABH assessors
		-Dr Vaijayanti V. Pethe (DMHRC)
		All members contributed to discussion
		and exchange.
		Closing meeting (8th of June)
		Presentation by NABH Principal
		assessor
		Q&A session for EC members
		Quantities 20 manifold
		Data compilation and preparation of
		documents
		Dr Shweta A. Chitharanjan (DMHRC)
Logistics and management policy	17 May 2019	Dr Dhananjay S. Kelkar
for facilitation and	1, 1,14, 201)	21 Zilailaijaj S. Isolitai
implementation of In-house		
research by RD staff and DMHRC		
consultants.		
Basics of research methods for	7 May 2019	Dr Gauri A. Oka
surgery residents and a review of	/ 1v1ay 201)	Di Gauii A. Oka
randomized controlled trials in		
surgery		











In-house research at-a-glance NUMBER OF PROJECTS REVIEWED IN DIFFERENT THERAPEUTIC AREAS [N = 55]

S. NO	. DEPARTMENT	NUMBER OF PROJECTS REVIEWED
		[N =55]
1.	ORTHOPEDICS	11
2.	PEDIATRIC NEUROLOGY	10
3.	ONCOLOGY	05
4.	ANESTHESIA	04
5.	ENT	04
6.	PEDIATRICS	03
6.	PEDIATRIC HEMAT/ONCO	02
7.	OB-GYN	02
8.	RADIOLOGY	01
9.	EMERGENCY MEDICINE	01
10.	NICU	01
11.	GAIT LAB	01
12.	CCM/ICU	01
13.	DERMATOLOGY	01
14.	OPHTHALMOLOGY	01
15.	INFECTIOUS DISEASES	01
16.	NEUROLOGY	01
17.	GI/ENDOSCOPY	01
18.	MEDICINE	01
19.	RHEUMATOLOGY	01
20.	BILD	01
21.	AYURVEDA	01





In-house research at DMHRC – projects submitted for review by SAC/IEC and their status – [N = 55; IHR 305 TO 359]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2020
1.	IHR_2019_AP R_SB_305	Dr. Samidha Bhagat	Pediatrics	A retrospective study to determine PICU course and outcomes of pediatric patients post-epilepsy surgery	Ongoing
2.	IHR_2019_AP R_SD_306	Dr. Sanjay Desai	Radiology	·	
3.	IHR_2019_AP R_PM_307	Dr. Priyanka Mahale	Emergency Department	A 30-day outcome of patients presenting to emergency department with raised lactate levels	Rejected
4.	IHR_2019_AP R_CD_308	Dr Chetan Deshmukh	Oncology	Assessment of microvessel density in young (<40 yrs) and old patients with Colorectal Cancer (CRC)	Rejected
5.	IHR_2019_JU N_SK_309	Dr. Shilpa Kalane	NICU	An Observational study to validate the accuracy of Biliscope's optimized bilirubin estimation algorithm on 100 neonates when compared to the corresponding TSB and TCB values	Rejected
6.	IHR_2019_JU N_SK_310	Dr. Shailesh Kanvinde	Pediatric Hematology and Oncology	Prospective study to identify genetic makeup of neuroblastoma (NB) in Indian children and generate pan-India data on epidemiology and staging of patients with NB (InPOG NB 18-01 Study)	Ongoing
7.	IHR_2019_JU N_SK_311	Dr. Shailesh Kanvinde	Pediatric Hematology and Oncology	A prospective study to risk-stratify patients with neuroblastoma and document 3-year overall survival outcome for patients with low and intermediate –risk neuroblastoma	Ongoing
8.	IHR_2019_JU N_AK_312	Dr. Aparna Kulkarni	Fetal Medicine	A retrospective data analysis to determine normal range of fetal nasal bone length between 16-22 weeks of gestation	Ongoing





In-house research at dmhrc – projects submitted for review **BY SAC/IEC AND THEIR STATUS [CONTD, N = 55]**

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2020
9.	IHR_2019_JU N_NK_313	Dr. Nilesh Kurwale	Pediatric Neurology	An experimental study to develop automated algorithms based on multimodality imaging to detect subtle features of Focal Cortical Dysplasia (FCD) and its extent – and to train the algorithm on MRIs of well demarcated FCDs and test it on positive and borderline cases	Ongoing
10.	IHR_2019_JU N_AS_314	Dr. Avijan Sinha	Gait Lab	To study the 2D gait analysis (temporospatial) and pedobarographic data of patients above the age of 50 displaying foot and ankle overpronation to develop a method of classification and define in the severity of disability.	Rejected
11.	IHR_2019_JU N_VR_315	Dr. Veena Rahatgaonk ar	Ob-Gyn	An observational study to determine the performance of Machine Learning model based on Inception V3 framework for auto assessment of cervical screening images obtained using Smart Scope®	Ongoing
12.	IHR_2019_JU N_PR_316	Dr. Prasad Rajhans	Intensive Care/CCM	Prevalence of sepsis in critically ill patients in India: A single -day prospective observational multicentre nation-wide point –prevalence study	Ongoing
13.	IHR_2019_Jul _PK_317	Dr. Padmaj Kulkarni	Oncology	Impact of chemotherapy-induced alopecia distress on the quality of life of female cancer patients: A cross-sectional study	Rejected
14.	IHR_2019_Jul _NK_318	Dr. Nilesh Kurwale	Pediatric Neurology	Comparison of Volumetric Analysis in detecting patients with Mesial temporal sclerosis with routine conventional MRI	Ongoing
15.	IHR_2019_ AUG_PK_319	Dr. Padmaj Kulkarni	Oncology	A cross- sectional survey of distress caused by Chemotherapy-induced alopecia (CIA) in women undergoing chemotherapy	Ongoing





In-house research at DMHRC – projects submitted for review by SAC/IEC and their status [contd, N = 55]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2020
16.	IHR_2019_A UG_VK_320	Dr. Vinay Kulkarni	Dermatology	A retrospective data analysis to study the various clinical patterns, treatment options and long-term outcomes of the treatment modalities used in patients with autoimmune vesiculobullous diseases (AVD) of the skin.	Ongoing
17.	IHR_2019_ AUG_AP_321	Dr. Aratee Palsule	Ophthalmolog y	To determine knowledge, attitude and practice (KAP) regarding diabetic retinopathy among diabetic patients in a rural area: A cross sectional study.	Ongoing
18.	IHR_2019_ Sep_SG_322	Dr. Sachin Gandhi	ENT	A retrospective analysis of associated anomalies in patients with laryngomalacia	Closed-out
19.	IHR_2019_ Sep_SG_323	Dr. Sachin Gandhi	ENT	A prospective follow-up study to determine post-management status of patients of laryngomalacia	Ongoing
20.	IHR_2019_ Sep_SG_324	Dr. Sachin Gandhi	ENT	A retrospective data analysis to determine the outcome of conservative and surgical management of patients with arytenoid granuloma	Ongoing
21.	IHR_2019_ Sep_SG_325	Dr. Sachin Gandhi	ENT	A retro-prospective observational study of surgical outcome of trans oral endoscopic CO2 laser assisted posterior cordectomy and partial arytenoidectomy for bilateral abductor paralysis in pediatric population	Ongoing
22.	IHR_2019_ Sep_AB_326	Dr. Ashish Babhulkar	Orthopedics	Study of effects of mini vs standard Humeral tray of the prosthetic humeral component on the ranges of motion and functional outcome in patients undergoing reverse shoulder arthroplasty (RSA) – a retro-prospective study.	Ongoing
23.	IHR_2019_ Sep_AB_327	Dr. Ashish Babhulkar	Orthopedics	Functional outcomes of proximal humerus fracture treated by proximal humerus plating – a prospective study	Ongoing





In-house research at DMHRC – projects submitted for review by SAC/IEC and their status [contd, N = 55]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2020
24.	IHR_2019_ Sep_MP_328	Dr. Malathi Panchwagh	Anesthesia	A randomized controlled trial to compare high Frequency Jet Ventilation (HFJV) and Periodic Apnea (PA) as methods of ventilation in upper ureteric Uretero-renoscopy (URS) and Retrograde Intrarenal Renoscopy (RIRS) through ProSeal Laryngeal Mask Airway (PLMA)	Ongoing
25.	IHR_2019_ Sep_MP_329	Dr. Malathi Panchwagh	Anesthesia	A randomized controlled trial to compare High Frequency Jet Ventilation (HFJV) and Periodic Apnea (PA) as methods of ventilation in Percutaneous Nephrolithotomy (PCNL) / mini PCNL/ ultra mini PCNL through Endo Tracheal Tube (ETT)	Ongoing
26.	IHR_2019_ Sep_SG_330	Dr. Sunil Godbole	Pediatrics	A randomized controlled study to determine the effect of appropriate toys on sensory integration in ASD children between 3-6 years of age.	Ongoing
27.	IHR_2019_ Sep_SP_331	Dr. Sandeep Patil	Pediatric Neurology	A retrospective data analysis to study the clinical profile of children with drug-resistant epilepsy (DRE) and their surgical outcomes at 1 year follow-up.	Ongoing
28.	IHR_2019_ Sep_NK_332	Dr. Nilesh Kurwale	Pediatric Neurology	A retrospective study to explore differential function connectivity in drug resistant temporal lobe epilepsy	Ongoing
29.	IHR_2019_ Sep_NK_333	Dr. Nilesh Kurwale	Pediatric Neurology	A retrospective study to assess the seizure outcomes in functional hemispherotomy and evaluating the factors affecting seizure recurrence and plausible solutions	Ongoing
30.	IHR_2019_ Sep_NK_334	Dr. Nilesh Kurwale	Pediatric Neurology	A retrospective data analysis to study outcomes of epilepsy surgery in patients with ulegyria associated with neonatal hypoglycemia and perinatal hypoxia at a high volume tertiary epilepsy surgery program	Ongoing





IN-HOUSE RESEARCH AT DMHRC – PROJECTS SUBMITTED FOR REVIEW BY SAC/IEC AND THEIR STATUS [CONTD, N = 55]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2020
31.	IHR_2019_ Sep_PP_335	Dr. Parikshit Prayag	Infectious Diseases	A prospective single tertiary care centre experience of carbapenem resistant (CR) gram negative bacteremia	Ongoing
32.	IHR_2019_ Sep_VD_336	Dr. Vaishali Deshmukh	Pediatrics	A cross-sectional study to determine body image perception of adolescents and its association with their actual body weight in school in a non- urban region in India	Ongoing
33.	IHR_2019_ Oct_SP_337	Dr. Shripad Pujari	Neurology	An observational study to assess the clinico-radiological profile and treatment responses of neuromyelitis optica spectrum disorder (NMOSD) patients.	Ongoing
34.	IHR_2019_O ct_AB_338	Dr Amol Bapaye	Endoscopy	Efficacy of peroral endoscopic myotomy with endoscopic fundoplication (POEM+F) to reduce post-POEM gastroesophageal reflux (GER) – A retrospective case controlled comparative study.	Rejected
35.	IHR_2019_ Nov_AB_339	Dr. Anil Bhatia	Brachial Plexus Surgery	A Retrospective observation of outcomes of late presentation of brachial plexus injury treated with ipsilateral gracilis muscle transfer to the neck and arm with anastomoses to the facial artery and vein (and/or the external jugular Vein) and to the spinal accessory nerve.	Ongoing
36.	IHR_2019_ Nov_MP_340	Dr. Malathi Panchawagh	Anesthesia	A cross-sectional survey to assess the safety and potential risk associated with anesthesia in the MRI environment	Ongoing
37.	IHR_2019_ Nov_MK_341	Dr. Mahesh Kulkarni	Joint replacement	Functional and radiological outcomes following Extended Trochanteric Osteotomy (ETO) in revision hip replacement	Ongoing
38.	IHR_2019_ Nov_PK_342	Dr. Padmaj Kulkarni	Oncology	Standardization & validation of EGFR mutation testing on circulating tumourderived DNA (ctDNA) by PCR-based reverse hybridization assay in treatment-naïve locally advanced/ metastatic and recurrent adenocarcinoma of lung	Ongoing





In-house research at DMHRC – projects submitted for review by SAC/IEC and their status [contd, N = 55]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2020
39.	IHR_2019_ Nov_AB_343	Dr. Ashish Babhulkar	Shoulder and Sports Medicine	Evaluation of outcomes of revision reverse shoulder arthroplasty (RRSA) in previous failed shoulder surgeries with a minimum of 3-year follow-up	Ongoing
40.	IHR_2019_ Nov_AB_344	Dr. Ashish Babhulkar	Shoulder and Sports Medicine	Long term outcome of reverse shoulder arthroplasty in acute proximal humerus fractures: A minimum of 3-year follow-up	Ongoing
41.	IHR_2019_ Nov_AB_345	Dr. Ashish Babhulkar and Dr Sadanand Naik	Shoulder and Sports Medicine	Vitamin B12 and Vitamin D deficiency, gender-wise categorization of clinical symptoms and reversal of symptoms with appropriate supplementation – A RCT.	Ongoing
42.	IHR_2019_ Nov_AB_346	Dr. Ashish Babhulkar and Dr Mrinalini Moghe	Shoulder and Sports Medicine	In vitro study for standardization of procedure for isolation of cartilage cultured cell (chondrocytes) in our DMHRC lab and assess its maintenance of protein characteristics, growth rate, viability by macroscopic and histological evaluation – A prospective Study	Ongoing
43.	IHR_2019_ Nov_SJ_347	Dr. Sujit Jagtap	Pediatric Neurology	Study of clinical characteristics, imaging and long-term outcome of epilepsy patients secondary to neonatal hypoglycemia – an Indian Syndrome	Ongoing
44.	IHR_2019_ Nov_SJ_348	Dr. Sujit Jagtap	Pediatric Neurology	Temporal encephalocele: rare but treatable substrate for medically refractory epilepsy [MRE]	Ongoing
45.	IHR_2019_ Nov_SJ_349	Dr. Sujit Jagtap	Pediatric Neurology	Role of surgery in Focal Epilepsy with co-existence of Idiopathic Generalized Epilepsy (IGE)	Ongoing
46.	IHR_2019_ DEC_MD_350	Dr. Manisha Deshmukh	Wound Clinic	A retro-prospective observational study of microbiological pattern, antibiotic sensitivity and associated risk factors in patients with diabetic foot infections	Rejected





In-house research at DMHRC – projects submitted for review BY SAC/IEC AND THEIR STATUS (CONTD. N = 551)

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2020
47.	IHR_2019_ DEC_MK_351	Dr. Mahesh Kulkarni	Joint replacement	Observational study of neutral mechanical alignment in young Indian Population	Ongoing
48.	IHR_2019_ DEC_MK_352	Dr. Mahesh Kulkarni	Joint replacement	Incidence of residual symptoms in patients with conventional TKR	Ongoing
49.	IHR_2020_ JAN_AT_353	Dr. Anup Tamhankar	Oncology	Prospective experimental study to determine the Metabolic Fingerprinting and Proteomics of Locally Advanced and Metastatic Triple-Negative Breast Cancer using LC-MS	Ongoing
50.	IHR_2020_ JAN_PP_354	Dr. Pravin Patil	Rheumatology	A cross-sectional study to determine the journey of patients of ankylosing spondylitis with respect to symptom onset treatment practices and psychosocial aspects.	Pending
51.	IHR_2020_ JAN_MW_355	Dr. Milind Watve	BILD Clinic	A meta-analysis comparing benefits and adverse effects of blood glucose control and fitness maintenance	Ongoing
52.	IHR_2020_ JAN_PW_356	Dr. Pankaj Wanjarkhedk ar	Ayurveda	Role of a Herbal Gargle Regimen in radiation-induced oral mucositis in HNSCC	Ongoing
53.	IHR_2020_ JAN_PP_357	Dr. Prerana Parikh	Anesthesia	Retrospective analysis of anesthetic management and outcomes of congenital laryngomalacia	Ongoing
54.	IHR_2020_ JAN_HW_358	Dr. Hemant Wakankar	Joint replacement	Bilateral Single Stage Total Knee Arthroplasty in Indian Population: Clinical outcomes and complications from a consecutive series of 1079 patients with a minimum 3- year follow-up	Ongoing
55	IHR_2020_ JAN_NK_359	Dr. Nilesh Kurwale	Pediatric Neurology	An experimental study to process the data obtained from electrical stimulation of brain for mapping the functional connectivity of brain (F-Tract)	Ongoing





IN-HOUSE RESEARCH AT DMHRC: CLOSED-OUT PROJECTS – [N = 20]

S. NO.	IHR DMH CODE	PROJECT INVESTIGATOR	DEPARTMENT	PROJECT TITLE
1	2017_JUN_SG_ 223	Dr. Suneel Godbole	Pediatrics	Pilot study of neurodevelopmental outcome in NICU graduate babies after play intervention with age appropriate toys in resource limited settings
2	2017_AUG_SN _230	Dr. Sadanand Naik	Pathology	Daily intake of milk extracted vit B12 (LR 82) improves Vit B12 status of vegetarian Indian (IMPROVIT - Part IV)
3	IHR_2017_SEP _SH _ 238	Dr. Sachin Hingmire	Oncology	A cross-sectional study to assess the status of psychosocial well-being and factors associated with it in cancer patients after completion of curative treatment
4	IHR_2017_DE C_RK_ 245	Dr. Rijuta Kashyapi	Anesthesia	Predictors of peri-operative cardiac risks in Chronic Kidney Disease patients undergoing non-cardiac surgeries – A prospective multicenter observational study.
5	IHR_2018_JAN _PP_ 253	Dr. Pramod Patil	BILD Clinic	To evaluate different measures of fitness as reliable cross-sectional predictors of Type 2 Diabetes Mellitus in comparison with obesity markers.
6	IHR_2018_FEB _SM_ 254	Dr. Sameer Melinkeri	Oncology	A cross-sectional study to determine blood transfusion awareness among nurses in a tertiary care hospital
7	IHR_2018_MA R_SJ_ 260	Dr. Shraddha Joshi	Pediatrics	Point of care (POC) Serum Ketone Testing in newborns undergoing blood sugar monitoring in newborn nursery – The POCK Study
8	IHR_2018_MA R_AR_261	Dr. Ashish Ranade	Orthopedics	A cross-sectional study exploring knowledge, attitudes and practices of orthopedic residents regarding radiation safety.
9	IHR_2018_APR _VR_ 265	Dr. Veena Rahatgaonkar	Ob-Gyn	A Comparative study of the efficacies of VIA /VILI aided by the Smart Scope TM and Papsmear test for screening for pre-cancerous and cancerous lesions.
10	IHR_2018_APR _MP_266	Dr. Malathi Panchawagh	Anesthesia	A Comparative study to determine the efficacy of Pre- operative use of Benzydomine gargles with intra -Cuff alkalinised lignocaine in decreasing severity of post operative sore throat (POST) – a randomized, controlled observerblinded study





In-house research at DMHRC: CLOSED-OUT PROJECTS – [CONTD, N = 20]

11	IHR_2018_APR _SK_268	Dr. Shilpa Kalane	Ob-Gyn	Study to compare bacteriological screening of donor human milk (DMH) before and after pasteurisation between Kimie pasteurizer and HSC pasteurizer.
12	IHR_2018_JUL _HG_ 270	Dr. Harshal Gadhikar	Nephrology	Correlation between Fibroscan and non- invasive serological indices for assessment of fibrosis in Non Alcoholic fatty liver disease. (NAFLD)
13	IHR_2018_JUL _AK_ 271	Dr. Arundhati Kanade	Ob-Gyn	To study foetal growth and pregnancy outcome with special reference to maternal diet and stress.
14	IHR_2018_ SEP_DK_282	Dr. Dhananjay Kelkar	Oncology	Physiological and Psychological Effects of Chanting Gayatri Mantra on Healthy Population.
15	IHR_2018_ OCT_SJ_283	Dr. Sameer Jog	Intensive Care/CCM	Immuno-genetics of severe pandemic H1N1pdm09 infection
16	IHR_2018_ OCT_VJ_284	Dr. Varsha Jagtap	Pediatric Endocrinology	A Study to validate new Thyroid Stimulating Hormone (TSH) Screening device(μ-sure) against standard laboratory TSH values
17	IHR_2019_ JAN_YK_293	Dr. Yogesh Karale	PICU	To determine prevalent practice of blood transfusion in children admitted in PICU at tertiary care hospital
18	IHR_2019_ FEB_SJ_297	Dr. Sujit Joshi	Pathology	An experimental study to develop a digital image processing technique for breast cancer detection
19	IHR_2019_MA R_AP_301	Dr. Artee Palsule	Ophthalmology	To determine knowledge, attitude and practice (KAP) regarding diabetic retinopathy among diabetic patients in a multispecialty hospital: A cross sectional study.
20	IHR_2019_ Sep_SG_322	Dr. Sachin Gandhi	ENT	A retrospective analysis of associated anomalies in patients with laryngomalacia











CLINICAL TRIAL RESEARCH PROGRM AT DMHRC – PROJECTS REVIEWED BY IEC AND THEIR STATUS

A] TOTAL NUMBER OF PROJECTS REVIEWED – [N =28] [CT_2019_APR_VD_588 to CT_2020_Feb_CD_615]

Project status	Number of projects [N =28]
Ongoing	14
Pending	12
Rejected/ Terminated	02

Pending status – The projects have not been given final approval in view of lack of either administrative and/or regulatory documents in the context of clinical trials. Some of the documents and items include – Final CTA, EC review fees, final ICFs, CTRI notification, DCGI submission/approval notification.

B] STATUS OF CLINICAL TRIAL STUDIES – AND THEIR THERAPEUTIC AREAS – UPDATED AS OF MARCH 2020

Ongoing and inactive projects -

Total number of studies	N= 56
Studies having ongoing patient activities	N= 44
Inactive studies – formal close-out from sponsor awaited	N= 12





C] THERAPEUTIC AREAS OF ONGOING PROJECTS – [N= 44]

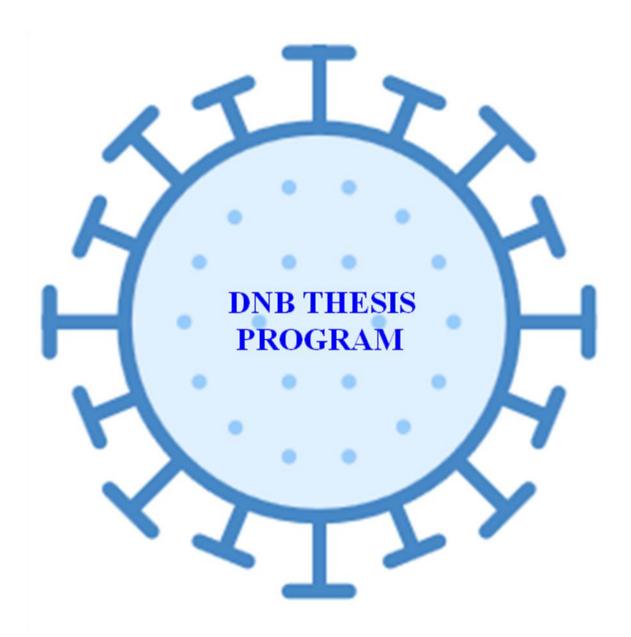
THERAPEUTIC AREA	NUMBER OF ONGOING TRIALS [N = 44]
Oncology	18
Endocrinology	05
Neurology	05
Intensive Care	02
Medicine	02
Ophthalmology	02
Rheumatology	02
Surgery	02
Dermatology	02
Cardiology	01
Epilepsy Surgery	01
Ob-Gyn	01
Psychiatry	01

D] CLOSED-OUT PROJECTS AND THEIR THERAPEUTIC AREAS [N=19]

THERAPEUTIC AREA	NUMBER OF TRIALS
Oncology	09
Endocrinology	02
Rheumatology	02
Dermatology	02
Medicine	01
Ophthalmology	01
Pediatric Endocrinology	01
Urology	01











DNB THESIS PROGRAM AT DMHRC

[Data Was Requested from The Department of Academics]

S.	Guide	Department	Title Of Thesis Protocol	Protocol
No	Name			status
1	Dr. Jitendra	Anesthesiology	Prospective Study Of Comparison Between Gum Elastic	Accepted
	Kshirsagar		Bougie-Guided Insertion And Digital Insertion Technique	
			Of Proseal Laryngeal Mask Airway.	
2	Dr. Manjiri	Anesthesiology	A Prospective Randomized Controlled Study To Compare	Accepted
	Ranade		The Efficacy Of Adductor Canal Block And Femoral Nerve	
			Block In Patients Undergoing Unilateral Anterior Cruciate	
			Ligament Reconstruction.	
3	Dr. Sunil	Anesthesiology	A Comparative Study Of The Efficacy Of Intravenous	Accepted
	Bapat		Dexmedetomidine Versus Intravenous Lignocaine On	
			Postoperative Analgesia In Patients Undergoing	
			Laparoscopic Surgeries: A Randomised Control Trial.	
4	Dr. Vinayak	Anesthesiology	A Prospective Observational Study Of Comparison	Accepted
	Desurkar		Between Of 0.1% Levobupivacaine And 0.15%	1
			Ropivacaine For Labour Analgesia	
5	Dr. Malathi	Anesthesiology	Opioid Free Anaesthesia For Open Lumbar Spine Surgery -	Accepted
	Panchawag		A Prospective Observational Comparative Study	1 1 1
	h		The state of the s	
6	Dr. Naik	Anesthesiology	Prospective Study To Compare Opioid Free General	Accepted
	Swapna		Anesthesia With Fentanyl Based Opioid Anesthesia In	
	Swapiia		Patients Undergoing Laparoscopic Cholecystectomy	
7	Dr Manjiri	Anesthesiology	A Prospective Observational Study To Compare The	Accepted
•	Ranade	i mesuresiologj	Efficacy Of Low Dose Bupivacaine With Conventional	riccopica
	Ranac		Dose Bupivacaine Spinal Anaesthesia For Tka Patients.	
8	Dr. Aarti	Anesthesiology	Prospective Observational Study To Compare Effectiveness	Accepted
O	Prabhune	7 mesuresiology	Of Magnesium Sulphate And Dexmedetomidine In	recepted
	Trabilanc		Attenuation Of Haemodynamic Response In Laparoscopic	
			Gynaecological Surgeries.	
9	Dr.	Anesthesiology	A Prospective Observational Comparative Study Between	Accepted
,	Prasanna	Allestifesiology	The Direct Laryngoscopy And The Video Laryngoscopy	Accepted
	Khare		For Adult Patients Requiring Tracheal Intubation.	
10	Dr. Shireesh	Cardiology	Role Of Pre Discharge Sst2 And Nt-Pro Bnp Levels To	Ongoing
10	Sathe	Cardiology	_	Oligonig
	Saule		Assertain The Risk Of Adverse Outcomes During A	
			Follow-Up Period Of 6 Months In Patients Admitted To	
			Tertiary Care Centre With Acute Decompensated Heart	
1.1	D. G	C 1' 1	Failure (ADHF) With Left Ventricular Dysfunction	
11	Dr. Satej	Cardiology	To Compare The Role Of Global Longitudinal Strain (GLS)	Ongoing
	Janorkar		And LVEF (Left Ventricular Ejection Fraction) In	
			Anthracycline Based Chemotherapeutic Patients, For Early	
			Detection Of Cardiotoxicity.	





S. No	Guide Name	Department	Title Of Thesis Protocol	Protocol status
12	Dr. Rajesh Dhopeshwa rkar	Cardiology	To Study The Incidence And Predictors Of Left Ventricular Thrombus In Anterior Stemi With Lv Dysfunction (LVEF < 40%)By Using Trans Thoracic Echocardiography (TTE) & Contrast 2d Echocardiography Within 2 Weeks Of An Event & Examine The Efficacy Of Both Techniques Considering De-Cmr As Gold Standard	Ongoing
13	Dr. Sameer Jog	Critical Care Medicine (CCM)	Incidence Of Mottling In Patients With Septic Shock And Its Correlation With Other Severity Predictors	Ongoing
14	Dr. Balasaheb Pawar	Critical Care Medicine (CCM)	A Prospective Observational Study Of Carbapenem Resistant Gram Negative Bacteraemia	Ongoing
15	Dr. Akole Prasad Vasant	Critical Care Medicine (CCM)	Mortality Predictors In Critically III Septic Patients Aged 70 Years Or More, Acutely Admitted To A Tertiary Indian Icu: A Single Centre Prospective Observational Study	Ongoing
16	Dr. Bhagyashre e Bhurke.	Emergency Medicine	Comparison Of Electrolytes Values Obtained By Using Point Of Care Blood Gas Analyzer And That By Laboratory Auto Analyzer In Patient Presenting With Shock At Emergency Department.	Accepted
17	Dr. Prasad Rajhans	Emergency Medicine	Cross Sectional Study Of Workplace Violence Against Emergency Room Doctors And Nursing Staff In Tertiary Care	Accepted
18	Dr.Bhagyas hree Bhurke	Emergency Medicine	A Prospective Observational Study To Compare The Incidence Of Early Onset Ventilator Associated Pneumonia In Patients Intubated In Emergency Department With Those Intubated In Intensive Care Unit	Accepted
19	Dr Bhagyashre e Bhurke	Emergency Medicine	Contrast Induced Nephropathy And Its Correlation With Grace Score In Patients With St Segment Elevation Myocardial Infarction And Normal Renal Function, Undergoing Primary Coronary Intervention.	Accepted
20	Dr. Prasad Rajhans	Emergency Medicine	A Prospective Observational Study To Assess Ability Of CISNE (Clinical Index Of Stable Febrile Neutropenia) Score In Predicting Occurrence Of Serious Complications In Apparently Stable Patients Presenting With Chemotherapy Induced Febrile Neutropenia.	Accepted
21	Dr. Prasad Rajhans	Emergency Medicine	A Prospective Observational Study On Comparision Of Diagnostic Accuracy Of Point-Of Care B-Line Lung Ultrasound And Nt-Probnp For Screening Acute Heart Failure	Ongoing





S. No	Guide Name	Department	Title Of Thesis Protocol	Protocol status
22	Dr. Sachin Gandhi	ENT (Otorhinolaryng	An Observational Study To Find The Sensitivity Of I-Scan In Early Detection Of Glottic Cancer And Precancerous	Accepted
		ology)	Lesions	
23	Dr. Sachin	ENT	A Prospective Observational Study To Identify The	Accepted
	Sharad	(Otorhinolaryng	Correlation Between Modified Mini Laryngoscore And	
	Gandhi	ology)	Laryngeal Exposure During Microlaryngoscopy	
24	Dr Sachin	ENT	A Prospective Observational Study To Determine The	Accepted
	Sharad	(Otorhinolaryng	Added Clinical Value Of Videokymography In Patients	
	Gandhi	ology)	With Change In Voice	
25	Dr. Harshal	Gastroenterology	Outcome Of Extracorporeal Shock Wave Lithotripsy	Accepted
	Gadhikar		(ESWL) In Chronic Pancreatitis With Pancreatic Duct	
26	Dr. Parag	General	Calculi. To Study The Correlation Between The Trend Of Immature	Accepted
20	Vaste	Medicine	Platelet Fraction And Recovery Of Platelets In Patients Of	Accepted
	vasic	Wiedienie	Dengue With Thrombocytopenia.	
27	Dr. Parag	General	Prospective Study Of Outcome Predictors Of Acute	Accepted
21	Vaste	Medicine	Profound Hyponatremia	riccepted
28	Dr. Sanjeev	General	A Study To Assess The Differential Management Pattern	Accepted
	Mangrulkar	Medicine	Of Stroke In Young Versus Stroke In Elderly	i i i i i i i i i i i i i i i i i i i
29	Dr.	General	An Observational Study to Know the Incidence of	Accepted
	Mangrulkar	Medicine	Asymptomatic Hyperkalemia in Patients Taking	1
	Sanjeev		Angiotensin Converting Enzyme Inhibitors or Angiotensin	
	J		Receptor Blockers	
30	Dr. Amit	General	Prospective Observational Study for Evaluating the Validity	Accepted
	Walimbe	Medicine	of Dragon Score in Acute Ischemic Stroke Patients Who	
			Have Received Intravenous Thrombolysis with Tissue	
			Plasminogen Activator (IV TPA).	
31	Dr. Ramesh	General	Retroprospective Study To Observe And Analyse The	Accepted
	B Kulkarni	Medicine	Change In Culture Sensitivity Pattern Of Salmonella	
		~ .	Species In A Tertiary Care Center.	
32	Dr. Pratibha	General	A Cross-Sectional Observational Study Of Cognitive	Accepted
	Phadke	Medicine	Impairment In Type 2 Diabetes Mellitus In Age Group Of	
22	Dr. Damach	Cananal	50-70 Yrs In Tertiary Care Centre.	Aggentad
33	Dr. Ramesh Kulkarni	General Medicine	Retroprospective Observational Study To Compare Cha2ds2vasc Score With Chads2 Score In Assessing Need	Accepted
	Kuikalili	Medicine	Of Oral Anticoagulation For Stroke Prevention In Non	
			Valvular Atrial Fibrillation.	
34	Dr. Utkrant	General	Prospective Observational Study to Determine the	Accepted
Jr	Kurlekar	Surgery	Association Between Pre–Operative Sonographic Findings	recepted
	11011011011	~ 31801	and Intra–Operative Findings in Laparoscopic	
			Cholecystectomy.	





S. No	Guide Name	Department	Title Of Thesis Protocol	Protocol status
35	Dr. Shridhar Kanitkar	General Surgery	A Retrospective Observational Study Comparing Roux-En- Y Gastrojejunostomy With Loop Gastrojejunostomy Following Distal Gastrectomy.	Accepted
36	Dr. Deuskar Jitendra	General Surgery	A Retroprospective Study To Evaluate The Impact Of Trastuzumab Therapy On Outcomes Of Her 2 Positive Breast Cancer	Ongoing
37	Dr Padmaj Kulkarni	Medical Oncology	To Study Impact Of Nutrition On Acute Toxicities And Long Term Outcome (1 Year) In Patients With Head And Neck Cancer Patients On Chemoradiation	Accepted
38	Dr. Atul Mulay	Nephrology	Incidence And Risk Factors Of Catheter Related Blood Stream Infections In Patients With Tunnelled Cuffed Catheters As Vascular Access For Hemodialysis	Accepted
39	Dr. Rahul Kulkarni	Neurology	A Prospective Study Of Pattern Of Immune-Mediated Demyelinating Central Nervous System Disorders In A Tertiary Care Setup In Western India	Accepted
40	Dr. Jayadev Panchawag h	Neurosurgery	Retroprospective Analysis To Determine Efficacy Of Micro Vascular Decompression Surgery For Trigeminal Neuralgia.	Accepted
41	Dr. Kaustubh Dindorkar	Neurosurgery	A Retroprospective Study Of The Operated Spinal Tumours At A Tertiary Care Hospital Of India From 2005 To 2019.	Ongoing
42	Dr. Pratibha Kulkarni	Ob-Gyn	A Retro-Prospective Study To Evaluation Of Maternal And Neonatal Outcomes In Vaginal Births After Previous Cesarean Section.	Accepted
43	Dr. Girish Godbole	Ob-Gyn	A Prospective Study To Compare The Effect Of Zero Separation After Vaginal Birth And Early Skin To Skin Contact To Routine Neonatal Care On Immediate Neonatal And Maternal Outcomes In A Tertiary Care Centre	Accepted
44	Dr. Girish Godbole	Ob-Gyn	A Retro Prospective Study Of Comparison Of Induction Abortion Interval Using High Dose Mifepristone-Low Dose Misoprostol And Routine Protocol For Induction Of 2nd Trimester Medical Termination Of Pregnancy	Accepted
45	Dr. Arundhati Kanade	Ob-Gyn	A Retrospective Observational Study To Analyse The Relative Contribution Of Each Group Of Robson's Criteria To Overall Caesarean Section Rate In A Tertiary Referral Hospital.	Accepted
46	Dr. Anuradha Wakankar	Ob-Gyn	Observational Comparative Study Of Maternal And Perinatal Outcomes Of Pregnancies With Gdm Before And After Introduction Of Mutlidisciplinary Approach	Accepted





S. No	Guide Name	Department	Title Of Thesis Protocol	Protocol status
47	Dr. Godbole Girish	Ob-Gyn	Prospective Observational Study To Compare Efficacy Of Oral Misoprostol And Vaginal Misoprostol For Preinduction Cervical Ripening In Term Primigravida Undergoing Induction Of Labor	Accepted
48	Dr. Anand Shinde	Ob-Gyn	Retrospective Observational Study To Evaluate The Relationship Of Serum Amh, Afc, Age And Other Predictive Factors With Ovarian Response In Women Undergoing IVF(In Vitro Fertilization).	Accepted
49	Dr. Pratibha Kulkarni	Ob-Gyn	A Retroprospective Observational Study On Symptomatic Relief And Reproductive Performance After Laparoscopic Myomectomy In A Tertiary Care Hospital	Accepted
50	Dr. Anuradha Wakankar	Ob-Gyn	A Retro-Prospective Observational Study To Evaluate The Outcomes Of All Rh Isoimmunized Pregnancies Managed At A Tertiary Care Hospital In Pune.	Accepted
51	Dr. Arundhati Kanade	Ob-Gyn	A Prospective Observational Study Of Ovarian Reserve Before And After Laparoscopic Endometrioma Surgery	Ongoing
52	Dr. Vidyadhar Patwardhan	Ophthalmology	To Study Effect Of Myopia On Thickness Of Retinal Nerve Fiber Layer Measured By Spectral Domain Ocular Coherent Tomography.	Accepted
53	Dr. Prasad Walimbe	Ophthalmology	To Compare The Prevalence Of Dry Eye In Patients With And Without Rheumatoid Arthritis	Accepted
54	Dr. Madhav Bhat	Ophthalmology	Prospective Observational Study Of Outcome Of Amblyopia Treatment In 7 To 12 Year Age Group.	Accepted
55	Dr. Shrikant Joshi	Ophthalmology	Prospective Comparative Case Control Study Of Vegf-A Levels In Aqueous Humor Of Elderly Without Armd And Patients With ARMD (Age-Related Macular Degeneration) Undergoing Ophthalmic Surgical Interventions.	Accepted
56	Dr. Madhav Bhat	Ophthalmology	A Cross-Sectional Observational Study To Compare Macular Vascular Perfusion Characteristics In Patients Suffering From Diabetes Mellitus With And Without Diabetic Nephropathy And Healthy Adults	Accepted
57	Dr. Shrikant Joshi	Ophthalmology	A Prospective Observational Study To Analyse The Types Of Ocular Emergencies And Their Visual Outcome In Tertiary Care Hospital.	Accepted
58	Dr. Prasad B.Walimbe	Ophthalmology	Prospective Comparative Study Of Correlation Between Foveal Avascular Zone And Visual Acuity Pre And Post Treatment Of Patients With Macular Edema Secondary To Diabetic Retinopathy And Venous Occlusions.	Accepted





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59	Dr. Roopali. R. Nerlikar	Ophthalmology	A Prospective Observational Study Of Changes In Anterior Chamber Morphometry And Its Effect On Accuracy Of Post- Operative Refractive Outcome Following Phacoemulsification Surgery.	Accepted
60	Dr. Madhav J Bhat	Ophthalmology	A Prospective, Observational Study Of Visual And Structural Outcomes Of Intravitreal Anti-Vegf Therapy In Patients Of Diabetic Macular Edema (DME) In Clinical Practice	Accepted
61	Dr. Ranjit Deshmukh	Orthopedic Surgery	Measurement Of Discrepancy In Foot Size In Idiopathic- Unilateral Clubfoot Treated By Ponseti Method	Accepted
62	Dr. Mahesh Mone	Orthopedic Surgery	Prospective Observational Study Of Functional And Radiological Outcomes Of Distal End Tibia Fracture Treated With Minimal Invasive Percutaneous Plate Osteosynthesis (MIPPO) Technique	Accepted
63	Dr. Vijay Panchanadikar	Orthopedic Surgery	A Prospective Comparative Study Of Outcomes Of Extra- Articular Distal End Radius Fractures Treated Using 4 Mm Canulated Cancellous Screws And K- Wire Fixation	Accepted
64	Dr. Milind Modak	Orthopedic Surgery	To Study The Functional And Radiological Outcomes Of Proximal Humerus Fractures Neer's Type Three And Four Treated With Hemiarthroplasty Vs Philos Plating Retro-Prospective Study.	Accepted
65	Dr. Ashish Ranade	Orthopedics	Retrospective Study To Determine Normal Radiographic Parameters In Pediatric Pelvic Radiographs In 0-8 Year's Age Group In Indian Population.	Accepted
66	Dr. Sumit Pitkar	Pediatrics	Study On The Role Of Immature Platelet Fraction In Differentiating Peripheral Platelet Destruction And Marrow Failure As A Cause Of Thrombocytopenia In Children	Accepted
67	Dr. Arti Rajhans	Pediatrics	Effect Of Kangaroo Father Care Versus No Kangaroo Father Care In Preterm Low Birth Weight Neonates On The Duration Of Nicu Stay -A Comparative Study	Accepted
68	Dr. Sumit Pitkar	Pediatrics	Prediction Of Early Tolerance Of Enteral Feeding In Preterm Low Birth Weight Infants By Measurements Of Superior Mesenteric Artery Resistive Index- The Prospective Observational Study	Accepted
69	Dr. Rajan Joshi	Pediatrics	Prospective Observational Study To Analyse Changes In Breast Milk Composition Of Mothers With Preterm Infants.	Accepted
70	Dr. Suneel Godbole	Pediatrics	Assessment of Burden Among Parents of Children with Autistic Spectrum Disorder - A Cross Sectional Study.	Accepted
71	Dr. Arti Rajhans	Pediatrics	Effectiveness Of Short Bi-Nasal Prongs Versus Face Mask For Initiation Of Cpap In Delivery Room On The Need For Mechanical Ventilation In Preterm Neonates – A Prospective Comparative Study	Accepted





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72	Dr. Sumeet	Pediatrics	Role Of The Immature Platelet Fraction In Predicting Severity	Accepted
, _	Pitkar	1 calactics	Of Thrombocytopenia And Occurrence Of Bleeding	riccepted
	1111111		Manifestation In Patient Of Dengue Infection.	
73	Dr. Arti	Pediatrics	A Retrospective And Prospective Study Of Clinical Utility Of	Accepted
, -	Rajhans		An Early Amplitude Integrated Electroencephalography And	l
	3		Conventional Electroencephalography In Neonates At Risk Of	
			Neurological Injury.	
74	Dr. Suneel	Pediatrics	A Cross-Sectional Study Of Prevalence Of Screen Media Use	Accepted
	Godbole		In Children Aged 1 To 5 Years Coming To Paediatric Out	
			Patient Department (OPD) Of An Urban Hospital.	
75	Dr Suneel	Pediatrics	A Cross Sectional Study Of Prevalence Of Feeding Disorders	Accepted
	Godbole		In Children Aged 2-6 Years Diagnosed With Autism	_
			Spectrum Disorder Coming To Child Developmental Centre	
			In A Tertiary Care Hospital.	
76	Dr. Arti	Pediatrics	A Prospective Study To Compare Complications Of Upper	Accepted
	Rajhans		Extremity Verses Lower Extremity Peripherally Inserted	
			Central Venous Catheters In Neonatal Intensive Care Unit.	
77	Dr. Arti	Pediatrics	Prospective Comparative Study Of Post- Extubation Non	Accepted
	Rajhans		Invasive Intermittent Positive Pressure Ventilation (NIPPV)	
			And Continuous Positive Airway Pressure (CPAP) In Preterm	
			Neonates.	
78	Dr. Rajan	Pediatrics	A Cross-Sectional Study To Evaluate The Relationship Of	Accepted
	Joshi		Bone Mineral Density And Serum Vitamin D Level With	
			Steroid Use And Ambulation In Patients With Duchenne	
			Muscular Dystrophy (DMD).	
79	Dr. Rajan	Pediatrics	Comparative Observational Study To See Effect Of Early	Accepted
	Joshi		Fortification (80ml/Kg/Day) And Late Fortification (150	
			Ml/Kg/Day) On Growth Parameters In Preterm Newborns.	
80	Dr. Mahesh	Pathology	Androgen Receptor Expression In Triple Negative Breast	Accepted
	Mandolkar		Carcinoma – A Prospective Observational Study	
81	Dr. Mahesh	Pathology	Prospective Study To Evaluate Microsatellite Instability	Accepted
	Mandolkar		(MSI) In Specimens Of Endometrial Carcinoma	
82	Dr Kaustabh	Plastic	Retroprospective Observational Study To Assess The	Ongoing
	Prabhune	Surgery	Outcome Of Free Gracilis Muscle Transfer To Restore Elbow	
			Flexion In Brachial Plexus Injuries	
83	Dr. Ashwini	Radio	A Prospective Study To Assess Role Of Resolve DWI In	Accepted
	Kulkarni	Diagnosis	Diagnosing Uterocervical Lesions With Histopathological	
0.4	D 4 1	D 1'	Correlation	A
84	Dr. Ashwini	Radio	A Prospective Observational Study To Evaluate Role Of 3T	Accepted
	Kulkarni	Diagnosis	MRI In Evaluation Of Chondromalacia Of Knee Joint With	
			Arthroscopic Co-Relation.	





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85	Dr. Sanjay Desai	Radio Diagnosis	A Prospective Observational Study To Evaluate Patello Femoral Instability Related Parameters On Magnetic Resonance Imaging Of Knee In Clinically Suspected / Radiologically Diagnosed Cases Of Patello Femoral Instability.	Accepted
86	Dr. Ashwini Kulkarni	Radio Diagnosis	A Retrospective Observational Study To Evaluate The Efficacy Of MRCP As A Diagnostic Tool As Compared To ERCP/EUS In Diagnosing Biliary Strictures.	Accepted
87	Dr. Dhananjay Kelkar	Surgical Oncology	"Retrospective Observational Study To Analyse Patterns Of Treatment Failure In Carcinoma Of Anterior Two Third Of Tongue".	Accepted
88	Dr. Dhananjay Kelkar	Surgical Oncology	Surgical Outcome And Oncological Safety In Thoracoscopic Esophagectomy For Carcinoma Esophagus	Ongoing
89	Dr. Prakash Patwardhan	Urology (Genito- Urinary Surgery)	Prospective Comparative Study Of Laser Lithotripsy And Pneumatic Lithotripsy In Miniperc For Renal Calculi	Accepted
90	Dr. Prakash Patwardhan	Urology (Genito- Urinary Surgery)	Comparative Observational Study Between Antegrade Percutaneous Nephrolithotomy (PCNL) And Retrograde Rigid Ureteroscopic Lithotripsy (URSL) In Proximal Ureteric Calculi.	Accepted
91	Dr. Subodh Shivde	Urology (Genito- Urinary Surgery)	Correlation Between Perioperative Urine And Stone Cultures And Their Association With Postoperative Infectious Complications - A Prospective Analysis.	Accepted
92	Dr. Patwardhan Prakash	Urology (Genito- Urinary Surgery)	Prospective Observational Study Comparing Outcomes And Complications Of Open Vs Laparoscopic Nephrectomy	Accepted
93	Dr. Shivde Subodh	Urology (Genito- Urinary Surgery)	Prospective Comparative Study Of 3d Laparoscopic Radical Prostatectomy And Open Radical Prostatectomy For Carcinoma Prostate	Ongoing





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