



ANNUAL REPORT

[01 APRIL 2017 TO 31 MARCH 2018]

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



Research Department, 14th Floor, Wing C, Super-speciality building, Deenanath Mangeshkar Hospital and Research Centre, Erandawane, Pune 411004, Maharashtra, India.



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



PATRON and SUPPORT

Dr. Dhananjay S. Kelkar

ANNUAL REPORT 2017-18 – PREPARED BY

- *Dr. Vaijayanti V. Pethe*
(Content and design)
- *Mrs. Aditi A. Kulkarni*
(Data compilation and initial drafts – IHR, Publications, Awards – and DNB data)
- *Dr. Shweta A. Chitharanjan*
(Data compilation and initial drafts – CTR data)
- *Dr Gauri A. Oka*
(IHR CME write-up)





RESEARCH DEPARTMENT REVISITED – AN OVERVIEW FROM DEPARTMENT HEAD



DMHRC is a super-specialty, consultative, tertiary acute-care hospital with its own Research Department to encourage, facilitate and initiate in-house basic and translational research projects as well as sponsored clinical trial protocols related to a battery of human conditions and diseases. Various health-related projects have been completed from DMHRC – and data has been published in peer reviewed national and international journals since its inception in 2001.

Each year, the Department of Research publishes an Annual Report – describing the clinical/biomedical research efforts, educational programs, highlighting events and activities of the past year, and recognizing awards/honors, conference presentations and research publications of DMHRC consultants and clinician researchers.

There are 3 main arms of the Research Department under which biomedical/health research is facilitated, coordinated, regulated and implemented.

● SPONSORED RESEARCH –

The goal under this arm is to provide best opportunity for patient care today as well as going forward by undertaking national and globally-sponsored patient-centric 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 ~ 25 ongoing clinical trials that include testing of drugs/NCEs/biologicals in a battery of conditions. Some of the departments which are into clinical trials include Oncology (Medical and surgical), Orthopedics, Ob-Gyn, Endocrinology, Surgery, Ophthalmology, Infectious diseases and multiple other specialties at DMH. We have elaborated on 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/ PROJECTS –

The second major arm of the Research Department is to encourage and invite in-house basic, clinical, biomedical and translational research projects in diverse therapeutic areas. Over 35 projects were submitted by clinician researchers during this year that were supported by intramural and extramural funding. 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. During the past year, consultants researched into some areas such as





– reproductive health and pregnancy outcomes, neurodevelopment in kids, repurposing of drugs, Ayurved regimens, cell markers for cancer process and outcomes, infectious diseases such as dengue, HIV, conjunctivitis, multiple orthopedic conditions – in an effort to seek answers on simple and complex issues on co-relation, association, prevalence, efficacy, psychosocial factors, economic impact and so on. The projects are at various stages of completion as listed in “In-house research” section of this report

● **RESEARCH PROJECTS UNDERTAKEN UNDER DNB PROGRAM –**

The Department of Academics at DMHRC takes the responsibility of DNB research. The third arm of research at DMH 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 21 departments accredited by NABH. 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. We enlist the projects undertaken in “DNB research” section of the annual report.

● **OUR RESEARCH REVIEW COMMITTEES –**

We have two review committees, namely SAC and IEC, which operate under the umbrella of the Research Department. Members of both committees follow definitive management guidelines, operate under defined institutional policies and are selected based on merit and contributions in academic, scientific and clinical areas. Details of members are presented in our EC SOP document, which is revised, as appropriate.

As per the regulatory requirements, the Institutional Ethics Committee of DMHRC has been registered with DCGI, under the Central Drugs Standard Control Organization, (CDSCO), New Delhi. We are also pleased to announce that – as per a new national mandatory regulation in 2016-17 for conduct of clinical trial research – the Ethics Committee of DMHRC received accreditation from NABH, New Delhi, India, early 2018.

As well, we continue to maintain our SIRO recognition from DSIR, New Delhi, India for conduct of in-house research at DMH.

We sincerely acknowledge timely, necessary and relevant content help received from staff and personnel of various departments and consultants at DMHRC towards the preparation of this report. We appreciate the cooperation we received during the preparation of this report.

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





DEPARTMENTAL LEADERSHIP AND STAFF

Patron, support and Medical Director – Dr Dhananjay S. Kelkar (2001)

Research Head – Dr Vaijayanti V. Pethe (2013)

In-charge, In-house research – Dr Gauri A. Oka (2014)

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

Research Staff -

Research administration and priorities –

Ms Jiteshri Raut (2017)

In-house research –

Mrs Aditi Kulkarni, (Research Associate) (2007)

Ms Sonal Kamble, (Research Assistant) (2016)

Ms Aditi Deshpande, (Research Assistant) (2017)

Sponsored research –

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)

EC Member Secretary –

Col Jayashinha C. Pendse (2002)

MPW -

Mr Sandeep Bhosale (Multi Purpose Worker) (2007)





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OUR REGISTRATIONS/ACCREDITATIONS FOR IN-HOUSE, CLINICAL TRIAL RESEARCH – AND DNB DEGREE RESEARCH PROGRAM

In-house research –

We are granted SIRO registration from DSIR with renewal from April 2017 to March 2020.

Clinical trial research –

A] Our IEC registration validity from DCGI (CDSCO, New Delhi) runs April 2016 through March 31, 2019 [Registration number – ECR/15/Inst/Maha/2013-RR16]

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 research –

We have 21 departments that have been accredited by National Board of Examinations, New Delhi.

The list of 18 NBE accredited departments is available in institutional EC SOP – Version 13, May 2017. The list of newly accredited departments will be included in the next revision of EC SOP.



SELECTED PUBLICATIONS –

1. **Hingmire SS, Sambhus MB, Kelkar DS**, Joshi S, Parikh PM, Bharath R.
Efficacy and safety of short course adjuvant trastuzumab combination chemotherapy in breast cancer. South Asian J cancer. 2017 Apr-Jun; 6(2):47-50.
2. Dhenge A, Limbkar K, **Melinkeri S**, Kale VP, Limaye L.
Arachidonic acid and Docosahexanoic acid enhance platelet formation from human apheresis-derived CD34+ cells. Cell Cycle. 2017 May; 16(10):979–90.
3. Ngamruengphong S, Inoue H, Chiu PW-Y, Yip HC, **Bapaye A**, Ujiki M, et al.
Long-term outcomes of per-oral endoscopic myotomy in patients with achalasia with a minimum follow-up of 2 years: an international multicenter study. Gastrointest Endosc. 2017 May; 85(5):927–33.e2.
4. **Mulay A**.
Renal failure deaths in India: Crying for attention. Natl Med J India. 2017 May-Jun; 30(3):148–49.
5. **Kadam G**, Narsinghpura K, **Deshmukh S**, **Desai S**.
Traumatic lumbar vertebral ring apophysis fracture with disk herniation in an adolescent. Radiol case reports. 2017 Jun; 12(2):427–30.
6. **Bhatia A**, Doshi P, Koul A, Shah V, Brown JM, Salama M.
Contralateral C-7 transfer: is direct repair really superior to grafting? Neurosurg Focus. 2017 Jul; 43(1):E3.
7. Ajari A, Kate D, Chandanwale A, **Babhulkar A**.
Morphometric analysis and surgical anatomy of proximal Humerus. International Journal of Anatomy and Research. 2017 Jul; 5(3.1):4056-4062
8. Patil V, Noronha V, Joshi A, Parikh P, Bhattacharjee A, Chakraborty S, **Hingmire S** et al.
Survey of Implementation of Antiemetic Prescription Standards in Indian Oncology Practices and Its Adherence to the American Society of Clinical Oncology Antiemetic Clinical Guideline. J Glob Oncol. 2017 Aug; 3(4):346–59.
9. **Deshmukh H**, **Date J**, **Shivde S**, **Patwardhan P**.
Community acquired UTI demographic and clinical profile: a new insight. Int J Sci Res. 2017 Aug; 6(8):414–6.



SELECTED PUBLICATIONS [CONTD.]

10. Patel D, **Babhulkar AS, Kurian NP**
Nice knot and surgical knot security in reverse shoulder arthroplasty with different high strength suture materials - an in vitro mechanical study. European Journal of Sports & Exercise Science, 2017; 5 (2): 16-22.
11. Agrawal A, Agarwal A, Mehta D, **Sikachi R**, Doantrang Du, and Wang J.
Nationwide trends of hospitalizations for cystic fibrosis in the United States from 2003 to 2013. Intractable Rare Disease Research, 2017 Aug; 6(3), 191-198
12. Junghare SW, **Desurkar V**.
Congenital heart diseases and anaesthesia. Indian J Anaesth. 2017 Sep; 61(9):744–52.
13. **Palsule AC, Jande V, Kulkarni AA, Beke NN.**
Pattern of uveitis in a tertiary eye care center in Western India. J Clin Ophthalmol Res. Sep-Dec 2017; 5:127-31.
14. Fierro E, **Sikachi RR**, Agrawal A, Verma I, Ojrzanowski M, Sahni S.
Aorto-Atrial Fistulas - A contemporary Review. Cardiol Rev. 2017 Oct. doi: 10.1097/CRD.000000000000182. [Epub ahead of print]
15. Raut MS, Maheshwari A, **Desurkar V**, Bhavsar R.
Rising Central venous pressure: Impending right-sided failure? Ann Card Anaesth. 2017 Oct-Dec; 20(4): 440–441.
16. Babu G, Bahl A, Bhattacharya G, Bhowmik K, Dattatraya P, Ghadyalpatil N, **Kulkarni P** et al. *Oncology gold standard® practical consensus recommendations for the use of monoclonal antibodies in the management of squamous cell carcinoma of head and neck.* South Asian J Cancer. 2017 Oct-Dec; 6(4):154.
17. Ngamruengphong S, Inoue H, Ujiki MB, Patel LY, **Bapaye A** et al.
Efficacy and safety of peroral endoscopic myotomy for treatment of achalasia after failed heller myotomy. Clin Gastroenterol Hepatol; 2017; Oct 15; 1531-37
18. **Gupta A, Kalane S, Vaidya U.**
Antenatal interventions to improve neurologic outcomes of preterm infants. Perinatology. 2017 Oct–Dec; 18(3): 95-102.



SELECTED PUBLICATIONS [CONTD.]

19. Dravid A, **Natarajan K**, Medisetty M, Thorat V, **Joshi S**, **Mandolkar M**, **Nilegaonkar S**, **and Kulkarni P**, et al.
Primary small cell carcinoma of liver in a HIV/Hepatitis b co-infected patient on virologically suppressive antiretroviral therapy: case report and literature review. Oncol Cancer Case Rep. 2017 Oct; 3(3): 137.
20. Kothadia S, Birole U, **Ranade A**.
Paediatric Salter-Harris type IV injury of distal tibia with talus fracture. BMJ Case Rep. 2017 Nov; doi: 10.1136/bcr-2017-222226. [Epub ahead of print]
21. Greibe E, **Mahalle N**, **Bhide V**, Heegaard CW, **Naik S**, Nexo E.
Increase in circulating holotranscobalamin after oral administration of cyanocobalamin or hydroxocobalamin in healthy adults with low and normal cobalamin status. Eur J Nutr. 2017 Oct. doi: 10.1007/s00394-017-1553-5. [Epub ahead of print]
22. Greibe E, **Mahalle N**, **Bhide V**, Heegaard CW, **Naik S**, Nexo E
Effect of 8-week oral supplementation with 3- μ g cyano-B12 or hydroxo-B12 in a vitamin B12-deficient population. Eur J. Nutrition, 2017 Dec [Epub ahead of print]
23. Marwaha RK, Garg MK, **Mahalle N**, Bhadra K, Tandon N.
Role of Parathyroid Hormone in Determination of Fat Mass in Patients with Vitamin D Deficiency. Indian Journal of Endocrinology and Metabolism. India; 2017 Nov-Dec; 21(6):848-853.
24. **Deshmukh R**, **Kulkarni A**.
Predicting the need for tenotomy in the management of idiopathic clubfoot by the Ponseti method. Paediatr Orthop Relat Sci. 2017; 10–3.
25. **Deshmukh V**, **Kulkarni A**.
Body Image and its Relation with Body Mass Index among Indian Adolescents. Indian Pediatr. 2017 Dec; 54(12):1025-1028.
26. Bawankar P, Shanbhag N, Smitha K S, Dhawan B, **Palsule A**, Kumar D, et al. *Sensitivity and specificity of automated analysis of single-field non-mydratic fundus photographs by Bosch DR Algorithm—Comparison with mydratic fundus photography (ETDRS) for screening in undiagnosed diabetic retinopathy.* PLoS One. 2017 Dec;12(12):e0189854



SELECTED PUBLICATIONS [CONTD.]

27. **Desurkar V**, Bhavsar R.
PAUSE: Perioperative Bedside Ultrasound. J Cardiothorac Vasc Anesth. 2017 Dec; 31(6):e81–2.
28. **Kalane S, Patil S, Joshi R**, Devaskar U.
Intra-cardiac Air Embolism in the Newborn: Presentation of Two Cases and Review of the Literature. Journal of Clinical and Diagnostic Research. 2018 Jan, Vol-12(1): SD05-SD06
29. Ramchandani M, Reddy ND, Nabi Z, Chouhan R, **Bapaye A et al**
Management of Achalasia cardia: Expert consensus statements. J Gastroenterol Hepatol, 2018 Jan.
30. **Panchwagh Y**, Joshi SK, Sancheti PK.
Benign Aggressive Lesions of Femoral Head and Neck: Is Salvage Possible? Indian J. Orthop. 2018 Jan-Feb; 52 (1): 51-57.
31. **Naik S, Mahalle N, Bhide V.**
Identification of vitamin B12 deficiency in vegetarian Indians. Br. J. Nutr. 2018 Mar; 119 (6) : 629-635
32. **Bapaye A**, Bharadwaj T, Mahadik M, Ware S, Nemade P, Pujari R, Bapay J.
Per-rectal endoscopic myotomy (PREM) for pediatric Hirschsprung's disease. Endoscopy - 2018 Mar [Epub ahead of print]
33. Fernandes S, Tembe S, Shinde P, **Melinkeri S**, Kale V, Limaye L.
Establishment of human iPSC line NCCSi003-A from CD34+ cells of peripheral blood collected during apheresis of healthy donor from Indian ethnicity. Stem Cell Res. 2018 Mar; 27:1–4.
34. Tamhankar AS and **Tamhankar TA**
A large cystic gastrointestinal stromal tumor within lesser sac: A diagnostic dilemma
S. Asian J. Cancer; 2018 Jan-Mar; 7(1):4-10



BOOK CHAPTERS –

1. *Dr. Pradyumna Pai Raiturkar*

Percutaneous Endoscopic Lumbar Discectomy in spondylo diskitis.

In: Minimally Invasive Spine Surgery. 1st ed. New Delhi: Jaypee Brothers; 2018 Feb.

2. *Dr. Amol Rege*

a. Neurologic Complications in Spinal Surgery.

b. Pedicle Screw Related Complications.

In: The ASSI Monographs, Complications in Spine Surgery. Volume I. Thieme; 2018; 65-94.



THEME-BASED QUARTERLY NEWSLETTER ARTICLES –

- **Medical Management of Epilepsy**

Vol. 6(2): May – August 2017

Dr. Sandeep Patil, Consultant Epileptologist and Pediatric Neurologist, Bajaj Allianz

- **Surgical Aspects in Epilepsy**

Vol. 6(3): September – December 2017

Dr Nilesh Kurwale, Epilepsy surgeon and Consultant Neurosurgeon

- **Theme 2018 - Integrating Research and Clinical Practice – Need and Means**

Part I – Motivators, enablers, barriers – Understanding the clinician’s perspective

Vol 7 (1): January – April 2018

Dr. Gauri A. Oka, In-charge, In-house Research, Department of Research, DMHRC

Our past newsletter articles –

Theme 2014 – Cancer biology, risk – and personalized medicine

(Dr. Vaijayanti V. Pethe, Dr. Aditi M. Dastane and Dr. Dhananjay S. Kelkar)

Theme 2015 – Patient safety

(Dr. Niranjan D. Khambete)

Theme 2016 – Healthcare-associated infections

(Dr. Sampada Patwardhan)





PODIUM PRESENTATIONS/ABSTRACTS/POSTER PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES/ RECIPIENTS OF RESEARCH AWARDS

1. Dr. Koumudi Godbole [Clinical Genetics]

- A.** Genetics in Medicine for undergraduates. Illuminati: undergraduate conference, AFMC, Pune: September 9th-10th 2017.
- B.** Prenatal diagnosis of IEMs. IEM program for metabolic dieticians: September 2017
- C.** Planning investigations for a suspected genetic disorder. Genetics chapter of Indian Academy of Pediatrics, Nagpur: Jan 3rd 2018.
- D.** Think Genetics, Next-Gen sequencing for clinicians, Low birth weight: beyond maternal nutrition and Hair & Color. PediGen 2018, Deenanath Mangeshkar Hospital, Pune: Feb 23-25th 2018.
- E.** Think Genetics and panel discussion on fetal medicine. Annual Research Society meeting, B.J. Government Medical College, Pune: Feb 22nd 2018.

2. Dr. Anil Bhatia [Hand Surgery]

- A.** The Live Surgery Workshop and course on Brachial Plexus surgery. The Stanley Medical College, Chennai: May 26th-27th 2017.
- B.** Restoration of Hand Function in Total Brachial Plexus Lesions. The 9th Congress of the World Society for Reconstructive Microsurgery at Seoul, South Korea: June 14-17th 2017.
- C.** Faculty presentation at the 55th Annual Congress of the Italian Hand Society, Modena, Italy: October 12-14th 2017.
- D.** Faculty presentations at the 41st Annual Congress of the Indian Society for the surgery of the hand, Mumbai: 21-23 September 2017.
- E.** Faculty presentation at the 2nd Theoretical, Practical & Hands-on International Course in Peripheral Nerve and Brachial Plexus Surgery, Belgrade, Serbia: October 31st 2017
- F.** Faculty presentation at the 52nd Annual Western India Regional Orthopedic Conference (WIROC) 2017, Mumbai: December 1st-3rd 2017.
- G.** Faculty presentation at the Annual conference of the Indian Orthopedic Association (IOACON 2017), Indore: December 29-31st 2017.



PODIUM PRESENTATIONS/ABSTRACTS/POSTER PRESENTATIONS IN NATIONAL AND INTERNATIONAL CONFERENCES/ RECIPIENTS OF RESEARCH AWARDS

3. Dr. Vaishali Deshmukh [Pediatrics]

Body image and body weight perception among adolescents in western India. The 6th Global Congress for Consensus in Pediatrics and Child Health (CIP), Colombo, Sri Lanka, November 12th-15th 2017. (Authors – Dr. Vaishali Deshmukh and Mrs. Aditi Kulkarni)

4. Mrs. Aditi Kulkarni [Research]

Vision related Quality of life in patients with Age Related Macular Degeneration (ARMD). Presented at National seminar on Quality of Life Concept Measurement and Enhancement, Indian Medical Association (IMA), Pune. Organized by Jnana Prabodhini's Institute of Psychology (JPIP), Pune, November 17th-18th 2017. (Authors – Dr. Aratee palsule, Mrs. Aditi Kulkarni and Dr. Ketan Jathar)

5. Dr. Namita P. Mahalle [Clinical Biochemistry]

Oral presentation on “Effect of eight weeks oral supplementation with 3- μ g cyano-B12 or hydroxo-B12 in a vitamin B12 deficient population” at Association of Clinical Biochemists of India (ACBICON 2017), December 3rd to 6th 2017, King George’s Medical University, Lucknow, India

6. Dr. Archana Ranade [Neurology]

Rehabilitation following sensory impairment in strokes with different areas of involvement. Poster presentation – The world federation of neuro-rehabilitation conference, Mumbai, Feb 7th - 9th 2018.

7. Dr. Narendra Javadekar [Medicine]

Prevalence of irritable bowel syndrome in incident metabolic syndrome – a cross-sectional study. At 2nd International Diabetes Summit 2018, Hotel J W Marriott, Senapati Bapat Road, Pune. Organized by Chellaram Diabetes Hospital, Pune, March 9th-11th 2018. (Authors – Dr. Narendra Javadekar and Dr. Gauri Oka)





8. Dr. Gauri A. Oka (Research)

Back pain in school children: Looking beyond the school bag – selected for oral presentation in the award category (Dr. Bhalerao Prize) at the 45th National Indian Association of Preventive and Social Medicine (IAPSM) & 19th Maharashtra State Joint Conference IAPSM & Indian Public Health Association (IPHA) 2018, held in SKNMC, Pune, March 8th-11th 2018. (Authors – Dr. Gauri Oka and Dr. Ashish Ranade)

9. Dr Pramod Patil (BILD - Behavioral Intervention for Lifestyle Disorders Clinic)

A] Low multidimensional fitness score in type 2 diabetics: Which way is the causal arrow?

Poster presented at the 6th World Congress on Controversies to Consensus in Diabetes, Obesity and Hypertension (CODHy), Tel Aviv, Israel, February 21-22, 2018. (Authors – Harshada Vidwans, Pramod Patil, Milind Watve, Poortata Lalwani, Mayur Rasal, Nikhila Bhasme, Mrinmayee Naik)

B] Fitness over fatness: Multi-factorial fitness score is a better predictor of type 2 diabetes than BMI and WHR. Poster presented at CME organized by Geriatric Society of India, Pune Chapter. Theme- Musculoskeletal Disorders in Elderly, 13th January 2018. DMHRC, Pune. (Authors – Pramod Patil, Harshada Vidwans, Milind Watve, Poortata Lalwani, Mayur Rasal, Nikhila Bhasme, Mrinmayee Naik)



Training, CMEs and educational events

Topic	Date	Speaker
<p>Vital considerations and approaches to meaningful research – In-house Research CME</p> <p>[2 credit points awarded by MMC]</p> <p>Organizers – Dr Gauri A. Oka and Dr Vaijayanti V. Pethe</p>	04 Feb 2018	<p>Patron and Support – Dr Dhananjay S. Kelkar</p> <p>Program moderator & Organizing Secretary – Dr Gauri A. Oka</p> <p>Speakers – Dr. Vaijayanti V. Pethe Dr. Gauri A. Oka Dr. Anita Kar Dr. Sundeep Salvi Mrs Vasumathi Sriganesh Dr. Asawari Kanade Mrs Sheetal Deshpande Dr. Anuradha Sovani Dr. Ravindra Ghooi</p> <p>Co-ordination, registration and logistics Mrs Aditi A. Kulkarni Ms Jiteshri Raut Ms Sonal Kamble Ms Aditi Deshpande</p>
<p>ISCR-ERI meet: Capacity building of Ethics Committee members – training and updates on ICH-GCP (Revision 2), regulatory and NABH guidelines.</p> <p>Organizers – Dr Ghooi R (ERI) and Dr Pethe V (DMH)</p>	28 Oct 2017	<p>Program moderator – Dr Ravindra Ghooi (ERI)</p> <p>Speakers – Dr Dhananjay S. Kelkar - Welcome address (DMH) Dr Kedar Nayak - ISCR info (GlaxoSmithKline and ISCR) Dr Shweta Pradhan - ICH-GCP- R2 updates (Quintiles) Dr Sanish Davis - Regulatory updates and NABH accreditation process (Covance and ISCR) Dr Vaijayanti V. Pethe - Vote of thanks (DMH)</p> <p>Co-ordination, registration and logistics Dr Shweta Chitharanjan (DMH) Ms Jiteshree Raut (DMH)</p>



EC SOP - Version 15 training (Effective 05 September 2017)	31 Aug 2017	Dr Vaijayanti Pethe
NABH assessor site-visit opening meeting: Structure and functioning of Research Department at DMH	28 July 2017	Dr. Vaijayanti Pethe
Awareness talk on Biotechnology Ignition Grant (BIG -11) under DBT-BIRAC (Govt of India) grant schemes	25 July 2017	Dr. Shalini Singh, PhD (Senior Associate, Grants Program - operated by Venture Centre, NCL Innovation Park, Pune) Organized by – Dr. Gauri Oka
1. Sample size calculation, levels of evidence - and categories of recommendation (Lecture) 2. Choosing a topic for DNB thesis.	4 July 2017	Presenter: Dr. Muralikrishna (2nd year DNB trainee) Moderator – Dr. Gauri Oka, MBBS, MPH
Updates from "Training Program on Implementation of NABH Accreditation of Ethics Committees", April 28-29, Breach Candy Hospital, Mumbai – Part III – EC SOP revisions and updates_Version 13 (May 2017)	25 May 2017	Dr Vaijayanti V. Pethe – presentation and round-table discussion with EC members. All members participated in the discussion.
Updates from "Training Program on Implementation of NABH Accreditation of Ethics Committees", April 28-29, Breach Candy Hospital, Mumbai – Part II – Training on standards (10) and elements (49)	16-18 May 2017	Dr Vaijayanti V. Pethe – round-table exchange and discussion with Ethics Committee members. All members participated in the discussion.
Updates from "Training Program on Implementation of NABH Accreditation of Ethics Committees", April 28-29, Breach Candy Hospital, Mumbai – Part I – Introduction to accreditation process	10 May 2017	Dr Vaijayanti V. Pethe
Assessment of impact of capacity building of gynecologists in Pune City regarding knowledge, attitude and practice of no-scalpel vasectomy (NSV): Hands-on workshop and training in NSV	07 May 2017	Dr. Girish Godbole, MD Dr. Gauri Oka, MBBS, MPH and external faculty (Dr. RCM Kaza, Dr. Baljit Kaur, Dr. Chandan Bortamuly, Dr. Aruna Ojha)



RESEARCH CME WRITE-UP

[BY DR GAURI A. OKA]

A research CME was conceptualized and organized by Department of Research and held in Dr. Meena Choksi Auditorium at Deenanath Mangeshkar Hospital and Research Centre, Pune on Sunday, February 4th 2018.

The program entitled “Vital considerations and approaches to meaningful research” and themed “systematic research” was open for consultants from all specialties. It was a great opportunity for all to understand the nuances of research, especially in a clinical setting, from an eclectic mix of academics and clinician researchers. As well, the CME provided a platform for consultants to present their in-house research endeavours in the form of abstracts. The CME was accredited with 2 MMC credit points.

We list below the speakers at the CME –



Dr. Vaijayanti Pethe, Ph.D. (Assistant Director Research, Research Department, DMHRC) gave a brief preamble explaining to the audience the vital steps involved in research and how research can become meaningful if done practicing care and in a scientifically correct manner.



Dr. Gauri Oka (MBBS, MPH, In-charge, In-house Research, Research Department, DMHRC) brought to the fore the subject of “integrating research into medical practice”. She discussed the need and means for perpetual research by a clinician in a healthcare setting to advance existing knowledge in the best interest of patient outcome at large.



Dr. Anita Kar, Ph.D. (Professor and Director, School of Health Sciences, SPPU, Pune) described the various study designs and shed light selecting the most appropriate study design to best suit one’s research question.





Dr. Sundeep Salvi MD, PhD (Director, Chest Research Foundation, Pune) – Some aspects into “Community research and the clinician” were discussed.



Ms. Vasumathi Sriganesh, BSc, MLib (CEO, QMed Knowledge Foundation, Mumbai) described how navigating through PubMed for literature search can be fun, easy and research productive once the technique is understood.



The basics of biostatistics that a clinician must know were highlighted by **Dr. Asawari Kanade, PhD** (Statistics Consultant). She stressed upon the importance of a dialogue between the researcher and statistician right from before the project is finalized to final analysis and interpretation.



The role of a medical librarian in today’s digital world was convincingly put forth by **Mrs. Sheetal Deshpande, MSc, MLib** (Medical librarian, DMHRC, Pune).



Dr. Anuradha Sovani, MPhil, PhD (Professor and Head, Department of Psychology, SNDT University, Mumbai) was extremely well appreciated for her talk on qualitative research methods, a lesser explored technique in clinical research.





Dr. Ravindra Ghooi, PhD (Research ethics expert) threw light upon the nuances of ethics in research, as well as ethics, in publications.

Co-ordination, registration and logistics –



Mrs. Aditi Kulkarni



Ms. Sonal Kamble



Ms. Aditi Deshpande



Ms Jiteshree Raut

The session ended with abstract presentations of in-house projects by consultants –

We list below the abstract presenters –

1. **Dr. Aratee Palsule** –
Vision related Quality of life in patients with age related macular degeneration (ARMD)
2. **Dr. Sushma Kunjir** (Dr. Asha Gokhale) –
A retrospective study to assess the role of saline infusion sonohysterography (SIS) in the evaluation of etiology of postmenopausal bleeding
3. **Dr. Jitendra Kshirsagar** –
Correlation of observed in-hospital mortality with predicted in-hospital mortality by the POSPOM score
4. **Dr. Narendra Javadekar** –
Prevalence of irritable bowel syndrome in newly diagnosed metabolic syndrome-A cross sectional study
5. **Dr. Pramod Patil** –
Age trends in physical fitness and type 2 diabetes
6. **Dr. Prateek Patil** –
Comparison of ranges of motion in post-operative patients of reverse shoulder arthroplasty between those with prosthetic humeral component version from +10 to -10 degrees and





those with prosthetic humeral component in the native anatomical version of their proximal humerus

7. Dr. Shilpa Kalane –

Early minimum oral feedings with donor breast milk (DBM) or expressed breast milk (EBM) enhances feeding tolerance and may shorten NICU stay: Single center RCT in the preterm

8. Dr. Suneel Godbole –

Pilot study of effect of appropriate toys in sensory integration in ASD children between 2-6 years of age

9. Dr. Vaishali Deshmukh –

Body image and its relation with body mass index among Indian adolescents

10. Dr. Vishnu Unnithan –

A randomized study comparing ultrasound guided targeted hydrodilatation of the rotator cuff interval and supervised physical therapy for primary adhesive capsulitis of shoulder at a tertiary care centre (Was shortlisted, however, not presented due to paucity of time)



IN-HOUSE RESEARCH AT DMHRC – PROJECTS SUBMITTED FOR REVIEW BY SAC/IEC AND THEIR STATUS [217 TO 264; N = 48]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2018
1.	2017_APR_A W_217	Dr Anuradha Wakankar	Ob-Gyn	Effect of psycho-educational intervention on psychological general wellbeing and valence of pregnant primies – (JPSS)	Ongoing
2.	2017_APR_D K_218	Dr. Dhananjay Kelkar	Surgery	Prevalence study of Betel nut preparations and tobacco chewing – and awareness campaign for oral cancer in India – A survey (Collaborative – UCL,UK)	Ongoing
3.	2017_APR_A B_219	Dr. Anil Bhatia	Plastic Surgery	Contra lateral C-7 transfer: Is Direct Repair Superior to Nerve Grafting?	Rejected
4.	2017_APR_D K_220	Dr. Dhananjay Kelkar	Surgery	A prospective, double blind, randomized, placebo controlled study to assess efficacy of pre-operative single dose Ketorolac intravenous injection in preventing recurrences in patients with operable Stage II, III and IVa anterior oral cavity squamous cell carcinoma who are fit for surgery.	Ongoing
5.	2017_June_VH_221	Dr. Vishakha Haridas	Ob-Gyn	A prospective study to assess outcomes of lactational breast abscesses treated with needle aspiration	Ongoing
6.	2017_June_AP_222	Dr. Artee Palsule	Ophthalm	A prospective observational comparative study of clinical outcomes of patients with conjunctivitis treated with different treatment methods	Currently on hold
7.	2017_June_SG_223	Dr. Suneel Godbole	Pediatrics	A pilot study of neurodevelopmental outcomes in NICU graduate babies after play intervention with age-appropriate toys in resource limited settings	Ongoing
8.	2017_June_SG_224	Dr. Suneel Godbole	Pediatrics	A pilot study of effect of age-appropriate toys in sensory integration in ASD children between 2-6 years of age	Ongoing
9.	2017_June_MP_225	Dr. Malathi Panchawagh	Anesthesia	End tidal Oxygraphy as a tool to detect end point of pre-oxygenation in supine and 30 degree propped up positions –A randomized comparative study	Ongoing
10.	2017_June_GG_226	Dr. Girish Godbole	Ob-Gyn	A comparative study to determine reliability and accuracy of the Fetal Lite electronic fetal monitor when compared with conventional cardiotocography	Closed-out
11.	2017_June_SM_227	Dr. Sanjeev Mangrulkar	Medicine	Challenges Faced by health Professionals in Supporting Patient self- management of diabetes in India.	Data collection complete. Analysis and report writing underway



IN-HOUSE RESEARCH AT DMHRC – PROJECTS SUBMITTED FOR REVIEW BY SAC/IEC AND THEIR STATUS [CONTD, N =48]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2018
12.	2017_July_SJ_228	Dr. Sameer Jog	ICU	A Prospective, observational, cohort study to evaluate economic burden and psycho-social impact of dengue infection on patients treated at tertiary care hospital in Pune	Data analysis underway
13.	2017_AUG_PW_229	Dr. Pankaj Wanjarkhedkar	Ayurveda	To study adjuvant Ayurvedic regimen in radiation induced mucositis (RIM) in oral cancers	Ongoing
14.	2017_AUG_SN_230	Dr. Sadanand Naik	Clinical Biochem	Daily intake of milk extracted vitamin B12 (LR 82) improves Vitamin B12 status of vegetarian Indians (IMPROVIT – Part IV)	Ongoing
15.	2017_AUG_AT_231	Dr. Anup Tamankar	Oncology	An experimental study to determine expression of G protein coupled Receptor (GPCR) on cell membrane of Breast Cancer cells	Ongoing
16.	2017_AUG_CD_232	Dr Chetan Deshmukh	Oncology	CANScript™ - Clinical outcomes on a real world setting (ANCERS1) – A non randomized investigator-initiated prospective multicentre observational study examining the clinical utility of CANScript™ in routine clinical practice	Pending
17.	2017_AUG_AB_233	Dr Ashish Bhabhulkar	Orthopedics	A Prospective Randomized study comparing Ultrasound guided Targeted Hydrodilatation of the Rotator Cuff Interval and Supervised Physical therapy for the primary Adhesive Capsulitis of Shoulder at a tertiary care Centre	Ongoing
18.	IHR_2017_SEP_AB_234	Dr. Anil Bhatia	Surgery	A retrospective study to determine extent of restoration of biceps strength at 12 months after primary nerve reconstruction in brachial plexus injuries	Ongoing
19.	IHR_2017_SEP_MK_235	Dr. Mahesh Kulkarni	Orthopedics	A prospective non-randomized comparative study to determine the effect of Tourniquet on functional outcome of Total Knee Arthroplasty (TKA)	Ongoing
20.	IHR_2017_SEP_MK_236	Dr. Mahesh Kulkarni	Orthopedics	A prospective comparative study of effect of adding methyl prednisolone in peri-articular infiltration during primary TKR on post-operative pain and rehabilitation	Ongoing
21.	IHR_2017_SEP_MK_237	Dr. Mahesh Kulkarni	Orthopedics	A randomized prospective comparative study of adductor canal block vs periarticular infiltration on functional outcome after TKR	Ongoing



IN-HOUSE RESEARCH AT DMHRC – PROJECTS SUBMITTED FOR REVIEW BY SAC/IEC AND THEIR STATUS [CONTD, N =48]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2018
22.	IHR_2017_S EP_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	Ongoing
23.	IHR_2017_S EP_AB_239	Dr. Ashish Babhulkar	Orthopedics	Study of effects of version of the prosthetic humeral component on the ranges of motion and in patients undergoing reverse shoulder arthroplasty	Ongoing
24.	IHR_2017_S EP_AO_240	Dr. Abhijeet Oka	IVF	A retrospective study to determine whether the type of gonadotropin used for controlled ovarian stimulation is associated with progesterone elevation in the late follicular phase	MS writing underway
25.	IHR_2017_S EP_AB_241	Dr. Ashish Babhulkar	Orthopedics	Arthroscopic anatomic coraco-clavicular joint reconstruction with semitendinosus auto graft- Clinical, radiological and sonographic outcomes	Ongoing
26.	IHR_2017_D EC_AR_242	Dr. Ashish Ranade	Orthopedics	An observational study to assess the Quality of information on YouTube regarding clubfoot and it's treatment	Ongoing
27.	IHR_2017_D EC_AR_243	Dr. Ashish Ranade	Orthopedics	An observational study of Lower Limb alignment in children measured on radiographs using coronal plane parameters.	Ongoing
28.	IHR_2017_D EC_AG_244	Dr. Asha Gokhale	Ob-Gyn	A cross-sectional observational study to evaluate causes of failure of medical method of abortion in first trimester	Rejected
29.	IHR_2017_D EC_RK_245	Dr. Rijuta Kashyapi	Anesthesia	Predictors of peri-operative Cardiac risks in Chronic Kidney Disease (CKD) patients undergoing non-cardiac surgeries: A prospective multicenter observational study.	Ongoing
30.	IHR_2017_D EC_AB_246	Dr Ashish Bhabhulkar	Orthopedics	Evaluation of Accuracy & precision of intra-medullary humeral shaft jig in achieving the desired version of the prosthetic humeral component and accuracy of guide- wire eyeballing method in achieving the desired version of the prosthetic glenoid component in patients undergoing shoulder arthroplasty.	Ongoing
31.	IHR_2017_D EC_AB_247	Dr. Ashish Bhabhulkar	Orthopedics	Efficacy of Bone Marrow-Stimulating Technique in Arthroscopic Rotator Cuff Repair Assessed By Clinical Function & Vascularity of The Repaired Cuff : A Double Blind Randomized Control Study	Ongoing



IN-HOUSE RESEARCH AT DMHRC – PROJECTS SUBMITTED FOR REVIEW BY SAC/IEC AND THEIR STATUS [CONTD, N =48]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2018
32.	IHR_2017_D EC_VK_248	Dr. Vinay Kulkarni	Dermatology	A retrospective observational single center study to see the Neurological Manifestations in HIV positive patients post- 2011. Is it really changing post-HAART (Highly active anti-retroviral therapy)	Ongoing
33.	IHR_2018_J AN_BP_249	Dr. Balasaheb Pawar	Chest Medicine	A Study to assess the direct and indirect costs of Chronic Obstructive Pulmonary Disease (COPD) among patients from different socioeconomic strata from. Pune City, India – A one-year prospective study	Ongoing
34.	IHR_2018_J AN_AJ_250	Dr. Aniruddha Joshi	Radiology	Volumetric Analysis of Brain and it's Structures - A pilot Study of Neurosheild™	Recent approval
35.	IHR_2018_J AN_AB_251	Dr. Ashish Babhulkar	Orthopedics	Hyper Extension – Internal Rotation (HEIR) Test for Anterior Gleno-Humeral Instability: A Prospective Observational study.	Ongoing
36.	IHR_2018_J AN_AB_252	Dr. Ashish Babhulkar	Orthopedics	Study of High (90 degrees of shoulder abduction with 90 degrees of internal rotation) internal rotation test/strength as a clinical predictor for subscapularis tendon tears.	Ongoing
37.	IHR_2018_J AN_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.	Ongoing
38.	IHR_2018_F EB_SM_254	Dr. Sameer Melinkeri	Oncology	A cross-sectional study to determine blood transfusion awareness among nurses in a tertiary care hospital	Ongoing
39.	IHR_2018_F EB_RK_255	Dr. Rahul Kulkarni	Neurology	Survey to collect voice samples of patients and age- matched healthy individuals	Pending
40.	IHR_2018_F EB_SM_256	Dr. Sameer Melinkeri	Oncology	Protocol for a research database for hematopoietic cell transplantation, other cellular therapies and marrow toxic injuries.	Pending – ICF Marathi
41.	IHR_2018_M AR_AJ_257	Dr. Aniruddha Joshi	Radiology	Software PAT &Imaxi Flow : Protocol Assistance Tool & Simultaneous Injection – To help in standardization of Protocols for Cardiac CT & Oncology procedures and evaluation the image quality	Project withdrawn by PI
42.	IHR_2018_M AR_PP_258	Dr. Pramod Patil	BILD Clinic	Evaluation of health benefits achieved through participation in exercise program at BILD Clinic in participants previously involved with walking as the only mode of exercise	Recent approval



IN-HOUSE RESEARCH AT DMHRC – PROJECTS SUBMITTED FOR REVIEW BY SAC/IEC AND THEIR STATUS [CONTD, N =48]

S. No.	DMHRC protocol code	Project investigator	Department (s)	Project title	Status as of March 31, 2018
43.	IHR_2018_M AR_AP_259	Dr. Aratee Palsule	Ophthalm	To determine findings of Spectral Domain Optical coherence tomography (SD OCT) and perimetry when used for screening for HCQS toxicity in patients on HCQS therapy: Retrospective Pilot Study.	Recent approval
44.	IHR_2018_M AR_SJ_260	Dr. Shraddha Joshi	Pediatrics	Point of care (POC) Serum Ketone Testing in newborns with hypoglycemia in newborn nursery – The POCK Study	Recent approval
45.	IHR_2018_M AR_AR_261	Dr. Ashish Ranade	Orthopedics	A cross-sectional study exploring knowledge, attitudes and practices of orthopedic residents regarding radiation safety.	Recent approval
46.	IHR_2018_M AR_SK_262	Dr. Shilpa Kalane	Pediatrics	An interventional study to determine effect of early oral administration of own mothers colostrum in preterm very low birth weight neonates on duration of NICU stay when compared with neonates who have not received such intervention.	Recent approval
47.	IHR_2018_M AR_SD_263	Dr. Sanjay Desai	Radiology	Technology feasibility study using AI (Artificial Intelligence)-based algorithms for radiology images from modality- CT (Chest)	Recent approval
48.	IHR_2018_M AR_SD_264	Dr. Sanjay Desai	Radiology	Technology feasibility study using AI(Artificial Intelligence)-based algorithms for radiology images from modality- X ray (Chest)	Recent approval

Top 3 departments contributing to IHR efforts – 2017-18

Department	No. of IHR studies submitted	Consultants	No. of IHR studies submitted for SAC/EC review
Orthopedics	14	Dr. Ashish Babhulkar	7
		Dr. Ashish Ranade	3
		Dr. Mahesh Kulkarni	3
		Dr. Anil Bhatia	1
Ob-Gyn	5	Dr. Abhijit Oka	1
		Dr. Anuradha Wakankar	1
		Dr. Asha Gokhale	1
		Dr. Girish Godbole	1
		Dr. Vishakha Haridas	1
Pediatrics	4	Dr. Suneel Godbole	2
		Dr. Shilpa Kalane	1
		Dr. Shraddha Joshi	1



IN-HOUSE RESEARCH AT DMHRC: CLOSED-OUT PROJECTS – [N =11]

S. No.	DMHRC Project Code	Project Investigator	Department	Title
1.	NA	Dr. Aratee Palsule	Ophthalm	Quality of life in patients with Age Related Macular Degeneration (ARMD)
2.	2016_Jun_VH_191	Dr Vishakha Haridas	Ob-Gyn	A retrospective study to assess Characteristics and outcomes of lactational breast abscesses treated with needle aspiration.
3.	2015_AUG_N J_174	Dr. Narendra Javadekar	Medicine	A cross sectional study to determine the prevalence of irritable bowel syndrome (IBS) in patients of Metabolic syndrome (MetS)
4.	2017_JAN_S G_206	Dr Sachin Gandhi	ENT	A retrospective study of serotyping of human papilloma virus (HPV) in patients with laryngeal papillomatosis
5.	2015_Oct_VR_180	Dr. Veena Rahatgaonkar	Ob-Gyn	A cross-sectional study to determine the prevalence of menstrual disorders in adolescent girls aged 10-19 years in Pune city
6.	2016_DEC_A G_204	Dr. Asha Gokhale	Ob-Gyn	A retrospective study to assess role of Saline Infusion Sonohysterography (SIS) in the evaluation of etiology of post-menopausal bleeding
7.	2017_JAN_S G_210	Dr Sachin Gandhi	ENT	A Retrospective study to determine phonatory outcomes after endoscopic thyroarytenoid myoneurectomy in patients with adductor spasmodic dysphonia(ASD)
8.	2016_Jun_H W_192	Dr. Hemant Wakankar	Orthopedics	Assessment of functional recovery and satisfaction in patients post- unilateral total knee replacement: A 6 month follow-up
9.	NA	Dr. Mrinalini Moghe	Genetics	Analysis of human developmental EMT <i>in vitro</i> and establishment of <i>in vivo</i> models of embryogenesis.
10.	2017_June _GG_226	Dr. Girish Godbole	Ob-Gyn	A comparative study to determine reliability and accuracy of the Fetal Lite electronic fetal monitor when compared with conventional cardiotocography (CTG)
11.	2017_FEB_S G_215	Dr. Sachin Gandhi	ENT	A Retrospective study to compare vocal outcomes after endoscopic CO2 laser cordectomy and radiotherapy in T1a and T1b glottic cancer.





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

A] TOTAL NUMBER OF PROJECTS REVIEWED [N= 20]

Ongoing	05
Pending	12
Rejected	03

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 – Satisfactory resolution of SAC and IEC queries, Final CTA, EC review fees, final ICFs, CTRI notification, DCGI submission/ approval notification.

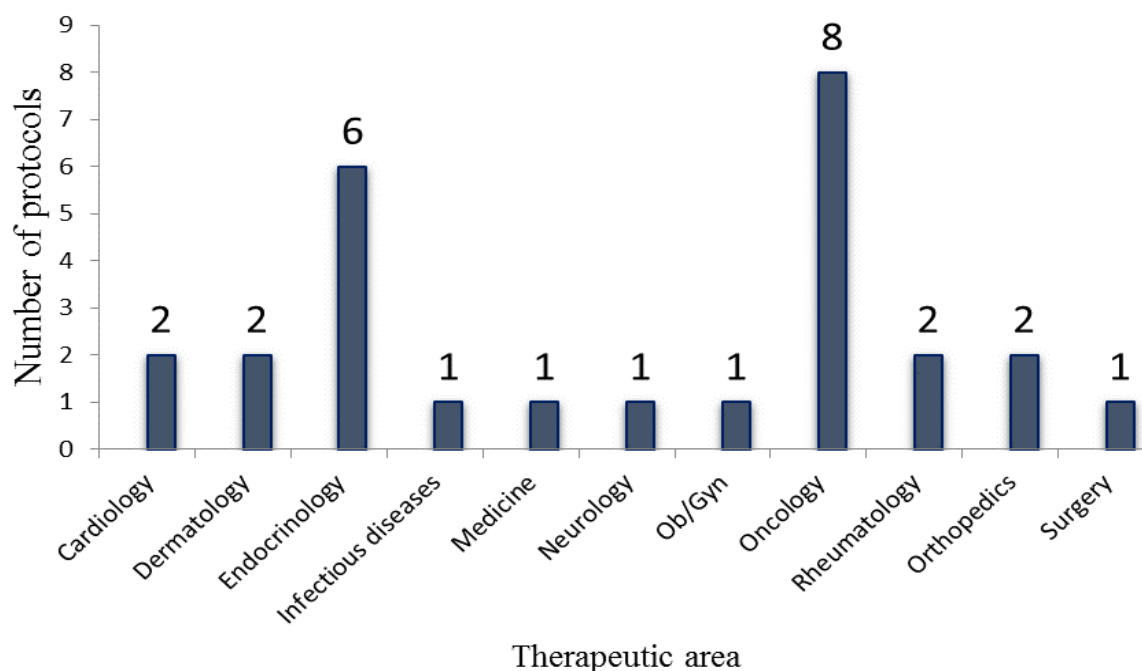
B] CLINICAL TRIAL RESEARCH AT DMHRC – STATUS OF CLINICAL TRIAL STUDIES – AND THEIR THERAPEUTIC AREAS: UPDATED AS OF MARCH 2018

Ongoing and inactive projects –

Total number of studies	N=	35
Studies having ongoing patient activities	N=	27
Inactive studies – formal close-out from sponsor awaited	N=	08



C] Therapeutic areas of ongoing projects – [N= 27]



D] CLINICAL TRIAL RESEARCH AT DMHRC – CLOSED-OUT PROJECTS AND THEIR THERAPEUTIC AREAS [N=8]

Therapeutic areas of closed-out projects –

- Oncology – 2
- Gastroenterology – 1
- Orthopedics – 1
- Endocrinology – 1
- Neurology-1
- Infectious disease-1
- Rheumatology-1



D **NB RESEARCH PROGRAM AT DMHRC – ONGOING PROJECTS [N =56]**

Sr. No	Name of the Student [Department]	Name of the Guide	Title of Thesis Protocol
1.	Dr. Kriplani Pinky [Anesthesiology]	Dr. Rijuta Kashyapi	Comparison of High Frequency Jet Ventilation and Apnoeic Oxygen Insufflation in Micro-laryngeal Surgery
2.	Dr. Kale Radhika [Anesthesiology]	Dr. Bhagyashri Shivde	A Randomized Study to compare operative field conditions in Functional Endoscopic Sinus Surgery(FESS) using Propofol Total Intravenous Anaesthesia (TIVA) and Inhalational anesthesia using Isoflurane
3.	Dr. Limbad Dhruvin [Anesthesiology]	Dr. Jitendra Kshirsagar	A Prospective Study of Effect of CO ₂ Insufflation on EtCO ₂ , Ventilatory Requirements and Hemodynamics during Peroral Endoscopic Myotomy
4.	Dr. Gharat Shweta [Anesthesiology]	Dr. Naik Swapna	A comparative study to evaluate the duration of postoperative analgesia with low dose ropivacaine and high dose ropivacaine in ultrasound guided interscalene brachial plexus block for arthroscopic shoulder surgery.
5.	Dr. Rajadhyaksha Nishant [Anesthesiology]	Dr. Manjiri Ranade	A prospective randomised control study to compare the efficacy of adductor canal block and local infiltration analgesia in patients undergoing unilateral total knee replacement
6.	Dr. Khandelwal Sayli [Anesthesiology]	Dr. Prasanna Khare	Assessment of Infant and Young Child Feeding Practices (IYCF) in 18-21 months old healthy children with respect to nutritional status.
7.	Dr. Kshirsagar Reshma Ajinath [Cardiology]	Dr. Satej Janorkar	To Study Prevalence of Iron Deficiency in Heart Failure Patients with or without Anemia.
8.	Dr. Pande Avinash [Emergency Medicine]	Dr. Prasad Rajhans	Prospective observational study to compare analgesia in patients with fracture femur using femoral nerve block versus IV analgesia
9.	Dr. Vishla Kohsta [Emergency Medicine]	Dr. Bhagyashri Bhurke	A prospective observational study to identify Association of Shock Index with outcome of patients presenting with Sepsis in Emergency Department.
10.	Dr. Agrawal Shreya [Emergency Medicine]	Dr. Sonal Utpat	Prospective observational study – To evaluate stress and factors affecting stress in ER staff after unsuccessful resuscitation in a cardio - pulmonary arrest patient.
11.	Dr. Abdul Rahup [Emergency Medicine]	Dr. Prasad Rajhans	A Prospective Observational study on comparison of the Glasgow Coma Scale score & Full Outline of Unresponsiveness score in patients with Traumatic Brain Injury outcomes
12.	Dr. Kothari Amit [Emergency Medicine]	Dr. Sonal Utpat	Assessment of qSOFA score as a tool to identify sepsis in patients presenting to the Emergency Department with suspected infection.
13.	Dr. D Raghavender Reddy [Emergency Medicine]	Dr. Prasad Rajhans	A Prospective observational study of Outcome of Out of hospital cardiac arrest (OHCA) in the patients presenting to the Emergency department
14.	Dr. Jagadeesh K S [Emergency Medicine]	Dr. Bhagyashri Bhurke	A study of 6 weeks outcome of patients presenting to the Emergency Department with chest pain using HEART score.
15.	Dr. Arya S P [ENT]	Dr. Sachin Gandhi	A prospective study to evaluate voice outcomes after laser CO ₂ endoscopic thyroarytenoid myoneurectomy in adductor spasmodic dysphonia
16.	Dr. Parijat Joshi [ENT]	Dr. Sachin Gandhi	An observational study to analyse outcome of Transoral Laser surgery followed by Endoscopic dilatation for Grade I & II Tracheal stenosis



DNB RESEARCH PROGRAM AT DMHRC – ONGOING PROJECTS [CONTD.; N =56]

Sr. No	Name of the Student [Department]	Name of the Guide	Title of Thesis Protocol
17.	Dr. Nisarg Patel [Gastroenterology]	Dr. Harshal Gadhikar	Clinical Profile of Bacterial Infections in Cirrhosis Patients
18.	Dr. Tiwari Anuj [General Medicine]	Dr. Pratibha Phadke	A study to assess the association of Non-HDL-C level with Myocardial Infarction and Ischemic Stroke as compared to LDL-C level
19.	Dr. Ugale Nitin [General Medicine]	Dr. Sanjeev Mangrulkar	A retrospective observational study to assess the association between duration of use of vasopressor and clinical outcome
20.	Dr. Upadhyay Nilesh [General Medicine]	Dr. Ramesh Kulkarni	Prospective, observational study on association between Serum Vitamin D level and severity of organ dysfunction in patients of septic shock
21.	Dr. Veeraganti Navaneeth Kumar [General Medicine]	Dr. Vijay Amritkar	An Observational study to assess the association, if any, between Waist/Hip ratio, Waist circumference and Body Mass Index with the levels of HbA1c
22.	Dr. Madabhushana Shashank [General Medicine]	Dr. Ramesh Kulkarni	A prospective comparative study to determine association between glycemic control at admission and severity and functional outcome of patients with acute ischemic stroke at the end of one month.
23.	Dr. Bhalani Yash [General Medicine]	Dr. Parag Vaste	To study the correlation between the trend of Immature Platelet Fraction and recovery of platelets in patients of dengue with thrombocytopenia.
24.	Dr. Amratansh Varshney [General Medicine]	Dr. Pratibha Phadke	A Retro-prospective study of prognostic factors of Patients With Hemophagocytic Lymphohistiocytosis Syndrome
25.	Dr. Kheni Sandipkumar [General Medicine]	Dr. S. V Mangrulkar	A study to evaluate the clinical efficacy of EPO (erythropoietin) or its analogue to maintain the target hemoglobin (Hb) level in patient population with CKD (Chronic kidney disease) on regular maintenance hemodialysis.
26.	Dr. Ankita Dubey [General Surgery]	Dr. Jitendra Deuskar	A retrospective observational study to compare surgical outcome following hand-sewn anastomosis against stapled intestinal anastomosis.
27.	Dr. Paranjpe Malvika [General Surgery]	Dr. Utkrant Kurlekar	A retrospective observational study to compare incidence of post operative complications with the type of thyroid surgery.
28.	Dr. Kulkarni Sayli [General Surgery]	Dr. Shridhar Kanitkar	A retro-prospective comparative outcome analysis between primary closure methods including flaps with healing by secondary intention in pilonidal sinus surgery.
29.	Dr. Jadhav Sujit [General Surgery]	Dr. Utkrant Kurlekar	A retrospective study of types of axillary lymph node dissection for operable breast cancer and its correlation with morbidity and oncological safety in clinically lymph node negative axilla
30.	Dr. Kaddu Deepanjali [Neurology]	Dr. Rahul Kulkarni	To study the prevalence of Non Motor Symptoms in Parkinson's disease in an Indian Population
31.	Dr. Shinde Shraddha [Ob-Gyn]	Dr. Arundhati Kanade	A prospective observational study to determine sensitivity of a new comprehensive score for diagnosis of IUGR (Intrauterine growth restriction) in women between 28 to 34 weeks of gestation.
32.	Dr. Khanorkar Nikeeta [Ob-Gyn]	Dr. Pratibha Kulkarni	A Prospective Observational study to determine proportion of different phenotypes of polycystic ovarian syndrome using Rotterdam criteria
33.	Dr. Anshul Pahwa [Ob-Gyn]	Dr. Anuradha Wakankar	Comparison of efficacy of vaginal misoprostol and combination of vaginal misoprostol with Foley's catheter for cervical ripening and induction of labor in term patients with unfavorable cervix (Bishop's score<4).



DNB RESEARCH PROGRAM AT DMHRC – ONGOING PROJECTS [CONTD.; N =56]

Sr. No	Name of the Student Department	Name of the Guide	Title of Thesis Protocol
34.	Dr. Sneha Gupta [Ob-Gyn]	Dr. Girish Godbole	A prospective observational study of role of admission Cardiotocography (CTG) in prognostication of perinatal outcome in low risk mothers in established labor.
35.	Dr. Ashvina Singh [Ob-Gyn]	Dr. Asha Gokhale	A prospective observational study of the factors associated with failed and successful medical method of MTP (Medical Termination of Pregnancy) in first trimester.
36.	Dr. Pooja Singh [Ob-Gyn]	Dr. Girish Godbole	A cross-sectional study to determine association between age, BMI, lifestyle & semen characteristics of male partners of infertile couples.
37.	Dr. Nazneen Ara [Ob-Gyn]	Dr. Anuradha Wakankar	Cross-sectional observational study to assess the incidence of endometriosis diagnosed during laparoscopy and association with clinical characteristics.
38.	Dr. Jain Bhavik Vijaykumar [Ophthalmology]	Dr. Shrikant Joshi.	A prospective observational study of visual patients with vascular retinopathy undergoing treatment with anti- Vascular Endothelial Growth Factor (anti-VEGF).
39.	Dr. Tejashree Chavan [Ophthalmology]	Dr. Madhav Bhat	Comparative Assessment of Retinal nerve fibre layer thickness and Macular thickness between amblyopic eye and fellow eye using spectral domain Optical Coherence Tomography in unilateral amblyopia
40.	Dr. Ramya Karjol [Ophthalmology]	Dr. Shrikant Joshi	A prospective observational comparative study of correlation of Retinal Vein Occlusion with serum lipid levels
41.	Dr. Prajakta Joshi [Ophthalmology]	Dr. Roopali Nerlikar	Observational cross sectional study of association between systemic risk factors and severity of diabetic retinopathy
42.	Dr. Paras Kumar [Ophthalmology]	Dr Shrikant Joshi	To evaluate visual outcome and residual refractive astigmatism following implantation of Toric Iols in immature senile cataract patient with low, mid and high astigmatism
43.	Dr. Drashti Purohit [Ophthalmology]	Dr. Roopali Nerlikar	A prospective study of changes in parameters of ocular surface homogeneity following cataract surgery
44.	Dr. Goyal Devichand [Orthopedics]	Dr. Milind Modak	A retro-prospective study to assess and to compare the radiological outcome in patients of distal end radius fractures with intra-articular extension treated with external fixator or plating
45.	Dr. Dantkale Snehal [Orthopedics]	Dr. Ranjeet Deshmukh	A retro-prospective study comparing in-hospital morbidity and mortality in post traumatic proximal femoral fractures operated within and after 48hrs
46.	Dr. Daxini Anurag [Orthopedics]	Dr. Milind Modak	To Compare the Intraoperative Radiation dose for adults with Unstable Intertrochanteric fractures treated by Locked Nailing versus Plating.
47.	Dr. Suraj Sahu [Pediatrics]	Dr. Rajan Joshi	A retro-prospective observational study on Utility of amplitude integrated Electroencephalogram (aEEG) in asphyxiated newborns greater than or equal to 35 weeks of gestational age for the early recognition of Hypoxic Ischemic Encephalopathy (HIE)
48.	Dr. Gupta Shantanu [Pediatrics]	Dr. Suneel Godbole	Assessment of Infant and Young Child Feeding Practices (IYCF) in 18-21 months old healthy children with respect to nutritional status
49.	Dr. Pooja G N [Pediatrics]	Dr. Sumit Pitkar	Study on the role of Immature Platelet Fraction in differentiating peripheral platelet destruction and marrow failure as a cause of thrombocytopenia in children
50.	Dr. Pooja Laharia [Pediatrics]	Dr. Rajan Joshi	Heparin for prolonging peripheral intravenous catheter use in preterm low birth weight neonates- A Prospective comparative study





DNB RESEARCH PROGRAM AT DMHRC – ONGOING PROJECTS [CONTD. ; N =56]

Sr. No	Name of the Student Department	Name of the Guide	Title of Thesis Protocol
51.	Dr. Uttamchand B Pediatrics	Dr. Arti Rajhans	Validation of Lactate clearance as a tool for Prediction of Mortality in Critically Ill Children.
52.	Dr. Jain Garima [Pathology]	Dr. Mahesh Mandolkar	Androgen Receptor expression in Breast Carcinoma: A prospective observational study
53.	Dr. Rashmi Agrawal [Pathology]	Dr. Sujit Joshi	To study diagnostic utility of Endobronchial ultrasound (EBUS) guided Transbronchial Needle Aspiration (TBNA) in evaluation of mediastinal lesions
54.	Dr. Mane Akhil [Urology]	Dr. Subodh Shivde	A prospective observational study to determine the incidence of and risk factors for stricture urethra following endoscopic prostate surgery
55.	Dr. Gopal Omprakash [Urology]	Dr. Subodh Shivde	Prospective comparative observational study of two miniaturized percutaneous nephrolithotomy techniques viz.miniperc vs ultraminiperc in patients with renal stone upto 2 cm.
56.	Dr. Nathani Akshay [Urology]	Dr. Prakash Patwardhan	Prospective comparative study of Laser Lithotripsy and Pneumatic Lithotripsy in Miniperc for Renal Calculi



D N B RESEARCH PROGRAM AT DMHRC – PROJECTS ACCEPTED BY NATIONAL BOARD OF EXAMINATIONS [N= 33]

Sr. No	Name of the Student [Department]	Name of the Guide	Title of Thesis Protocol
1.	Dr. More Sagar Nana [Anesthesiology]	Dr. Malathi Panchawagh	Comparison of neonatal and maternal effects Of labor Epidural with 0.2% Ropivacaine alone and 0.2% Ropivacaine, with Single dose 25 µg Fentanyl as an adjuvant for labor analgesia
2.	Dr. Ananta Hazarika [Anesthesiology]	Dr. Bhagyashri Shivde	A randomized controlled study to evaluate efficacy of Nebulized ketamine in reducing the incidence and severity of postoperative sore throat
3.	Dr. Geetha B [Anesthesiology]	Dr. Vinayak Desurkar	Randomised comparative study of two Different doses of intraarticular injection of Morphine with Bupivacaine for postoperative analgesia after knee arthroscopic surgery
4.	Dr. Parimal Pimpalkuthe [Anesthesiology]	Dr. Swapna Naik	Randomized study to compare efficacy of propofol and dexmedetomidine with propofol alone in attenuation of hemodynamic pressor response to suspension laryngoscopy for microlaryngeal surgery
5.	Dr. Priyanka Bakshi [Anesthesiology]	Dr. Malathi Panchawagh	A randomized study to evaluate effects of low dose Dexmedetomidine infusion on intra-operative haemodynamic parameters and post-operative analgesic requirements and sedation levels in patients undergoing laparoscopic cholecystectomy
6.	Dr. Pooja Zatale [Anesthesiology]	Dr. Prasanna Khare	Prospective randomised study to evaluate the effect of pre-warming in prevention of perioperative hypothermia in patients undergoing laparotomy under general anesthesia
7.	Dr. Korade Milind [Cardiology]	Dr. Shireesh Sathe	A retro-prospective study of echocardiographic assessment of patients with surgical repair of Tetralogy
8.	Dr. Bora Nikhil Madan [Emergency Medicine]	Dr. Prasad Rajhans	A prospective study to determine correlation between initial Glasgow Coma Scale score, Computed Tomography findings and outcome of patients with traumatic brain injury
9.	Dr. Dehadray Gaurav [Emergency Medicine]	Dr. Sonal Utpat	Prospective observational study of troponin i results, in patients having non specific ecg changes
10.	Dr. Shaikh Ejaj A. [Emergency Medicine]	Dr. Prasad Rajhans	The prospective observational study to measure door to Needle time and outcome in patients of stroke presenting within window period .
11.	Dr. Sakthikirubananth M [Emergency Medicine]	Dr. Sonal Utpat	A cross sectional study to determine Prevalence of causative micro-organisms in blood cultures from patients presenting to Emergency department with sepsis
12.	Dr. P. Jagadeesh Neurology	Dr. Ramesh B. Kulkarni	An observational study of serial lactate trend in patients with shock admitted in intensive care units at tertiary care hospital
13.	Dr. Haran Kamlakar [General Surgery]	Dr. Dhananjay Kelkar	An observational study to determine the utility of FDG-PET/CT in the staging of breast cancer
14.	Dr. Sampat Divya [General Surgery]	Dr. Shreedhar Kanitkar	A Retrospective Observational Study of Abdominal Wall Closure Techniques and their related Complications following Laparotomy
15.	Dr. Patel Chetankumar [Ob-Gyn]	Dr. Anuradha Wakankar	To determine correlation between calculated fetal birth weight by Johnson's formula and baby's actual birth weight in women delivering at term. : An observational study
16.	Dr. Nikita Brajkishore Singh [Ob-Gyn]	Dr. Girish Godbole	A Prospective Observational study to determine sensitivity of a new comprehensive score for diagnosis of IUGR (Intrauterine growth restriction) in women between 28 to 34 weeks of gestation



D N B RESEARCH PROGRAM AT DMHRC – PROJECTS ACCEPTED BY NATIONAL BOARD OF EXAMINATIONS [CONTD. ; N= 33]

Sr. No	Name of the Student [Department]	Name of the Guide	Title of Thesis Protocol
17.	Dr. Sureka Pawankumar [Ob-Gyn]	Dr. Asha Gokhale	A Retro-prospective Observational Study to assess and compare preoperative diagnostic value of four RMI in patients with Adnexal masses
18.	Dr. Kakadiya Kishan Ashokbhai [Ob-Gyn]	Dr. Anuradha Wakankar	An observational study to determine the correlation between episiotomy characteristics (length, angle and distance from posterior fourchette to starting point of episiotomy) and episiotomy extensions particularly OASIS (obstetric anal sphincter injuries)
19.	Dr. Megha Gupta [Ob-Gyn]	Dr. Pratibha Kulkarni	An observational study of etiological classification of patients with abnormal uterine bleeding according to PALM-COEIN system
20.	Dr. Archana Bhadikar [Ophthalmology]	Dr. Shrikant Joshi	Prospective comparative study to determine the incidence or progression of cystoid macular oedema after uneventful phacoemulsification cataract surgery in diabetic and non-diabetic patients
21.	Dr. Soniya Gaikwad [Ophthalmology]	Dr. Madhav Bhat	Prospective study to compare central macular thickness and visual outcome in patients with and without uveitis undergoing phacoemulsification
22.	Dr. Salvi Rajashree [Ophthalmology]	Dr. Aratee Palsule	A prospective comparative study of visual outcome and macular thickness changes in patients with diabetic macular edema undergoing treatment with either anti vascular endothelial growth factors or laser photocoagulation
23.	Dr. Chaitrali Somani [Ophthalmology]	Dr. Roopali Nerlikar	Prospective comparative study of Refractive outcomes of phacoemulsification cataract surgery with placement of incision along the steep axis and standard superior incision irrespective of location of steep axis in patients with preoperative astigmatism >0.5 diopters
24.	Dr. Vinay Kumar [Orthopedics]	Dr. Ranjit Deshmukh	A prospective study to compare early postoperative outcomes in patients undergoing total knee replacement with or without drain''
25.	Dr. Ranjeet Yadavrao [Orthopedics]	Dr. Vijay Panchanadikar	Observational study of Functional outcomes of all patients having Subtrochanteric femur fractures treated with surgery in all adults patients
26.	Dr. Amit Kumar [Pediatrics]	Dr. Rajan Joshi	A comparative study to compare the effect of volume guarantee ventilation and pressure limited ventilation on required duration of ventilation in preterm infants
27.	Dr. Lingayat Nitin [Pediatrics]	Dr. Arati Rajhans	Prospective Comparative Study of effect of oil massage on Growth of preterm babies
28.	Dr. Dimpy Waghela [Pediatrics]	Dr. Suneel Godbole	Cross-sectional Study of Neurodevelopment Outcome on Bayley Scale of Infant Development (BSID), at 24 months of Corrected Age of High Risk Neonates
29.	Dr. Naveen Sangurmth [Pediatrics]	Dr. Sumit Pitkar	Observational study showing Role of Ketogenic diet in controlling the seizure frequency in childhood refractory epilepsy
30.	Dr. Jadhav Rashmi [Pathology]	Dr. Mahesh Mandolkar	A retro prospective study to compare the HER2/neu status by 2013 and 2007 ASCO/CAP guidelines by using IHC and FISH in breast cancer patients
31.	Dr. Pratiksha Nawal [Pathology]	Dr. Sujit Joshi	A retrospective study to determine the prognostic significance of tumor infiltrating lymphocytes (TILs) in oral cavity squamous cell carcinomas.





DNB RESEARCH PROGRAM AT DMHRC – PROJECTS ACCEPTED BY NATIONAL BOARD OF EXAMINATIONS [CONTD.; N= 33]

Sr. No	Name of the Student [Department]	Name of the Guide	Title of Thesis Protocol
32.	Dr. Rakhee T Menon [Pathology]	Dr. Sujit Joshi	Comparison between newer parameter – Reticulocyte hemoglobin equivalent (Ret-He) and other conventional biomarkers, in assessing iron deficiency in patients with chronic kidney disease: A prospective observational study
33.	Dr. Mane Akhil Sarjerao [Urology]	Dr. Subodh Shivde	A prospective observational study to determine the incidence of and risk factors for stricture urethra following endoscopic prostate surgery





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