



# Annual Report : April 2013 to March 2014

Research Department

Lata Mangeshkar Medical Foundation's

Deenanath Mangeshkar Hospital and Research Centre  
Pune, Maharashtra, India





# Our Achievements



- Phase II building of DMHRC was inaugurated on November 01, 2013  
Plan for initiation/expansion of super-speciality services, including R & D activities.
- Full accreditation by Maharashtra Medical Council (MMC) for conducting CME programs/ Workshops/Conferences ( Feb 2014 to Jan 2019)
- SIRO registration renewal has been granted for the next 3 years from DSIR, Delhi.  
(April 2014 to March 2017)
- Obtained CDSCO (DCGI, Delhi) registration for DMHRC Institutional Ethics Committee for 3 years [March 2013 to March 2016; Registration No : ECR/15/Inst/Maha/2013].  
*The DMHRC Ethics committee is **NOT** an independent EC.*



## **2013**

Quarterly  
Newsletters

*Volume 2 (1), January- April*

Clinical Trials: Testing Medical Products on Humans

*Volume 2 (2), May- August*

Does more toothpaste mean cleaner teeth?

*Volume 2 (3), September- December*

Caregiver's perception towards Dementia patients

## **2014**

*Volume 3 (1), January- April*

Genetic screening for hereditary cancers: Genetic counseling and genetic testing may prove beneficial for cancer patients - and clinically healthy individuals





Sr. No.	Title of the publication	Authors	Journal Name	Date of publication
1	Cytomegalovirus Infection as a Cause of Cytopenia After Chemotherapy for Hematological Malignancies	S Kanvinde, P Bhargava, S Patwardhan	Indian Pediatrics	2013 Feb
2	Perioperative management of tracheobronchial injury following blunt trauma	NM. Juvekar, SS. Deshpande, A Nadkarni, S Kanitkar	Annals of Cardiac Anaesthesia	2013 March
3	Prevalence and Causalities of Tobacco Consumption (TC) among Adolescents: A Cross Sectional Study at Pune	DS Kelkar, M Patwardhan, VD Joshi	Journal of the Association of Physicians of India	2013 March
4	Assessment of risk factors of Helicobacter pylori infection and peptic ulcer disease	RS Mhaskar, I Ricardo, A Azliyati, R Laxminarayan, A Bapaye, S Walujkar, and Boo K.	J Glob Infect Dis	2013 Apr-Jun
5	Conference on emerging issues in ethics and regulation of medical research.	Joshi V, Joshi AL	Indian Journal of Medical Ethics	2013 Apr-Jun
6	Vitamin B12 deficiency and hyperhomocysteinemia as correlates of cardiovascular risk factors in Indian subjects with coronary artery disease.	Mahalle N, Kulkarni MV, Garg MK, Naik SS.	Journal of Cardiology.	2013 Apr





Sr. No.	Title of the publication	Authors	Journal Name	Date of publication
7	Johanson-Blizzard Syndrome	Godbole K., Maja S., Leena H. and Martin Z.	Indian Pediatrics	2013 May
8	Validity and reliability of English and Marathi Oswestry Disability Index (version 2.1a) in Indian population.	Joshi VD, Raiturker PP, Kulkarni AA.	Spine	2013 May
9	Comparison of endosonography-guided vs.percutaneous biliary stenting when papilla is inaccessible for ERCP	A Bapaye, N Dubale and A Aher	United European Gastroenterology Journal	2013 May
10	Early application of high frequency oscillatory ventilation in "H1N1 influenza" related ARDS is associated with better outcome a: retrospective study.	S. Jog, D. Patel, T Dravid, P. Rajhans, P. Akole, B. Pawar, M. Kothari, B. Bhurke, A. Deshpande	Intensive Care Medicine	2013 June
11	A multicenter phase II randomized study of Cremophor-free polymeric nanoparticle formulation of paclitaxel in women with locally advanced and/or metastatic breast cancer after failure of anthracycline.	Ranade AA, Bapsy PP, Nag S, Raghunadharao D, Raina V, Advani SH, et al...	Asia-Pacific Journal of Clinical Oncology	2013 June
12	Public awareness and perception of clinical trials: Quantitative study in Pune	VD. Joshi, GA. Oka, AA. Kulkarni and VV. Bivalkar	Perspectives in Clinical Research	2013 Jul-Sep





Sr. No.	Title of the publication	Authors	Journal Name	Date of publication
13	Academic College of Emergency Experts in India's INDO-US Joint Working Group (JWG) White Paper on the Integrated Emergency Communication Response Service in India: Much more than just a number!	A Joshi, P Rajhans, S Galwankar, B Arquilla, M Swaroop, S Stawicki, B Das, P Aggarwal, S Bhoi, and OP Kalra	Journal Emerg Trauma Shock	2013 July
14	Calcium homeostasis, and clinical or subclinical vitamin D deficiency--can a hypothesis of "intestinal calcistat" explain it all?	Garg MK, Mahalle N.	Med Hypotheses.	2013 Aug
15	Clinical and economic implications of the use of nanoparticle paclitaxel (Nanoxel) in India	A. A. Ranade, D. A. Joshi, G. K. Phadke, P. P. Patil, R. B. Kasbekar, T. G. Apte, R. R. Dasare, S. D. Mengde, P. M. Parikh, G. S. Bhattacharyya & G. L. Lopes	Annals of Oncology	2013 October
16	Differences in traditional and non-traditional risk factors with special reference to nutritional factors in patients with coronary artery disease with or without diabetes mellitus	NP. Mahalle, MK. Garg, MV. Kulkarni and SS. Naik	Indian Journal of Endocrinology Metabolism	2013 October
17	H1N1 influenza pandemic: What we did and what we learnt?	Sameer Jog, Deelip Kadam	Indian J. Crit Care Medicine	2013 Sep-Oct
18	Defining vitamin D deficiency using surrogate markers.	Garg MK, Kalra S, Mahalle N.	Indian J Endocrinol Metab.	2013 September







Sr. No.	Title of the publication	Authors	Journal Name	Date of publication
19	The intestinal calcitriol: Determinant of clinical vitamin D deficiency.	Garg MK, Kalra S, Mahalle N.	Indian J Endocrinol Metab.	2013 September
20	Transparency in recruiting patients for clinical trials	Veena Joshi	Perspectives in Clinical Research	2013 Oct-Dec
21	Daily milk intake improves vitamin B-12 status in young vegetarian Indians: an intervention trial	S Naik, V Bhide, A Babhulkar, N Mahalle, S Parab, R Thakre and M Kulkarni	Nutrition Journal	2013 October
22	Peroral Endoscopic Myotomy (POEM) in a Patient with Complete Heart Block-a Case Report.	Dubale N, Date S, Pujari R, Bapaye A.	Indian J Surg.	2013 December
23	Effectiveness of an Indian-made Attenuated influenza A(H1N1)pdm 2009 vaccine: A case-control study	P S Kulkarni, S Agarkhedkar, S Lalwani, A R Bavdekar, S Jog, et al.	Hum Vaccin Immunother.	2014 January
24	Study of pattern of dyslipidemia and its correlation with cardiovascular risk factors in patients with proven coronary artery disease.	Mahalle N, Garg MK, Naik SS, Kulkarni MV.	Indian J Endocrinol Metab.	2014 January

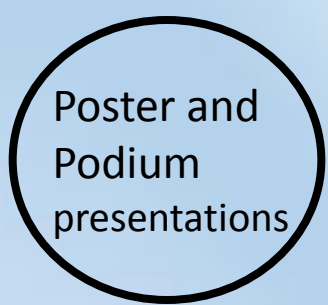




Sr. No.	Title of the publication	Authors	Journal Name	Date of Publication
25	The relationship between serum 25-hydroxy vitamin D, parathormone and bone mineral density in Indian population.	Garg MK, Tandon N, Marwaha RK, Menon AS, Mahalle N.	Clin Endocrinol (Oxf).	2014 January
26	Role of fetal autopsy as a complementary tool to prenatal ultrasound	Godbole K, Bhide V, Nerune S, Kulkarni A, Moghe M, Kanade A.	J Matern Fetal Neonatal Med.	2014 January
27	Acromioclavicular joint dislocations	A Babhulkar, A Pawaskar	Current Reviews in Musculoskeletal Medicine	2014 March
28	Intensive care research and publication in India: quo vadis?	Divatia JV., Jog S.	Intensive Care Med.	2014 March
29	Redefining vitamin D deficiency: Reply to comments.	Garg M, Mahalle N, Kalra S.	Indian J Endocrinol Metab.	2014 March
30	Reliability and Validity of Marathi translated Kidney Disease Quality of Life Short Form (KDQOLSF) <sup>TM</sup>	V Joshi and A Mulay	Submitted to The National Medical Journal of India	2014 April

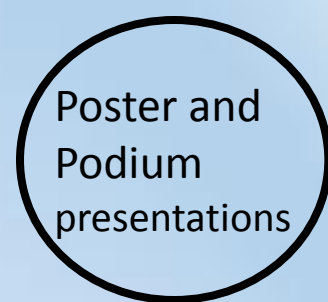






SR NO	PRESENTATION TITLE	AUTHORS AND CONTRIBUTORS	EVENT INFO
1	Vitamin D status among apparently healthy young software professionals.	P Raiturker, Y Panchwagh and A. Kulkarni.	CME on "Contribution of newer biomarkers in diagnosis and clinical management of metabolic disorders.
2	Saving life of an elderly male with severe leptospirosis: A rewarding experience!	S. Tamane; B. Purandare; A. Muley	European Geriatric Medicine
3	Gradenigo's syndrome: A rare but potentially fatal complication of mastoiditis in an elderly diabetic male– A case report	S. Tamane, S. Pujari, S. Chaudri, K. Narsingpura, et al.	European Geriatric Medicine
4	Unusual cause of severe pulmonary arterial hypertension in an elderly male: A case report	S. Tamane, N. Abhayankar, K. Narsingpura	European Geriatric Medicine
5	How laboratory results can occasionally confuse clinicians? – A case report	S. Tamane, A. Wakankar, U. Kurlekar	European Geriatric Medicine
6	Dementia-Causes & Management	S. Tamane	Annual Conference Of Geriatric Society Of India.





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7	An intervention study of knowledge about growing up changes in Indian urban adolescents.	VR Deshmukh, A Kulkarni and S Apte	Annual National Conference of “Adolescent Health Academy”
8	Study of attitude towards growing up changes in urban Indian Adolescents.	VR Deshmukh, A Kulkarni and S Apte	Annual National Conference of “Adolescent Health Academy”
9	Prevalence and association of dry eye with Rheumatoid Arthritis: A cohort study.	V Lagu-Joshi, A Palsule, A Kulkarni	Indian Rheumatology Association Annual Conference
10	Aging & Memory	S. Tamane	ICAW 2014: International Conference On Aging Well
11	Geriatric Medicine: An Overview.	S. Tamane	Annual Refresher Course In Geriatrics
12	Home-Based Care In Geriatrics: Annual Conference Of The Association Of Physicians Of India.	S. Tamane	A chapter in the "Medicine Update" : 2014, Vol (24.1)
13	Day Care Laparoscopic Tubectomy: Innovative Facilitated Sterilization Program	P. Kulkarni and V. Haridas	Royal College of Obstetricians and Gynecologists (RCOG) World Congress; Hyderabad





## National and International Research Grants

**Dr. Mrinalini Moghe** received DBT Grant for study entitled “ Analysis of human developmental EMT *in vitro* - and establishment of *ex vivo* models of embryogenesis.





National and International

## Awards, Fellowships and Scholarships



Dr. Amol Bapaye received “Pioneer in Gastroenterology and Endoscopy” award from the Asian Institute of Gastroenterology (AIG) and World Endoscopy Organization (WEO) for original work in education, training and research in the field of gastroenterology and endoscopy.

Dr. Namita Mahalle received IFCC Roche Travel Scholarship to attend the APFCB (Asian & Pacific Federation of Clinical Biochemistry) 2013 Congress, Oct 27-30. Presented a poster on “A study of nutritional factors - and it’s relation with insulin resistance and inflammatory markers in patients with CAD in Indian population”

Dr. Koumudi Godbole received international Scholarship from Clinical Genetics Society (UK) to attend a meeting in Liverpool - and visit the Genetics Unit at Southampton.





# DNB thesis accepted by NEB [January 2013 to March 2014]

DNB thesis

Sr No.	Name of the Candidate	Name of guide	Thesis Title
1	Dr. Hitesh Patil	Dr. D. S. Kelkar	“Retrospective study of comparison between Thoracoscopic assisted oesophagectomy versus open oesophagectomy.”
2	Dr.Madhavi Yash Bahulikar	Dr. Girish Godbole	“Vaginal Sonosalpingography in evaluation of infertility and its correlation with Laparohysteroscopy”
3	Dr. Viraj Nandkishor Godbole	Dr. Asha Gokhale	“Classification of Caesarean sections Based on Robson’s ten group Classification system”
4	Dr. Radhika Sanjay Purandare	Dr. Rakesh Jamkhandikar	“Correlation of carotid intima – Media thickness with coronary Atherosclerosis”
5	Dr. Anuprita Arun Gandhi	Dr. Aarti Palsule	“Retrospective study of the role of OCT (Optical Coherence Tomography) in the management of uveitis”
6	Dr. Ruta Harshal Kulkarni	Dr. Bhagyashri Shivde	“A comparative study of intubating conditions achieved with Suxamethonium and Rocuronium”
7	Dr. Dushyant Wamanrao Khedikar	Dr. Vikram Oak	“Prospective study of Clinical outcome of Septorhinoplasty by open technique in Indian population- assessment of Columellar scar, Nasal Tip Projection, Nasolabial angle and overall patient satisfaction.”
8	Dr. Preeti Ashok Padwal	Dr. Jitendra Kshirsagar	“Comparative evaluation of Dexmedetomidine and Lignocaine to attenuate haemodynamic response to laryngoscopy and endotracheal intubation”
9	Dr. Swati Jayant Shelgikar	Dr. Amit Walimbe	“Clinical Profile and Laboratory trends in common tropical infections”
10	Dr. Preeti Suresh Agarwal	Dr. Sumit Pitkar	“Incidence of Abnormalities on Imaging among Children with Probable Urinary Tract Infection”

*All projects must be approved by DMHRC IEC - and are carried out under strict regulation and Ethical guidelines*

Annual Report (April 2013 to March 2014): DMHRC, Pune, MS, India.

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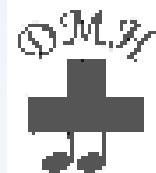


# DNB thesis accepted by NEB [January 2013 to March 2014]

DNB thesis

Sr No.	Name of the Candidate	Name of guide	Thesis Title
11	Dr.Madhura Deepak Deo	Dr. Sunil Godbole	"Assessment of Neurodevelopmental Outcome of preterm babies graduating from a tertiary care NICU over a period of one year."
12	Dr. Chavan Suraj	Dr. R. B. Kulkarni	"To Study clinical profile and outcome analysis of CT pulmonary angiography proven pulmonary Embolism"
13	Dr. Varun Shelke	Dr. Milind Modak	"To study the Functional outcome of Proximal Humerus Fractures Treated with Locked plates."
14	Dr. Ketan Badhe	Dr. S. V. Kanitkar	"Retrospective Study of Management of Fistula in Ano"
15	Dr. Sukrut Vilas Purandare	Dr. N. N. Bapat	"Study of role of ADA in the diagnostic Algorithm of Tubercular serositis and Meningitis"
16	Dr. Pravinkumar Bala Ram Yadav	Dr. D. S. Kelkar	"Evaluation of Laparoscopic Sleeve Gastrectomy for Morbid Obesity"
17	Dr. Darawade Abhinay Bhaskar	Dr. Rajan Joshi	To study the incidence of Perinatal complications in infants of diabetic mothers and effect of maternal glycemic control on neonatal course.
18	Dr. Ravi Shankar Singh	Dr. Surekha Rajadhyksha	"Neurodevelopmental outcome in children with Neonatal hypoglycemia "
19	Dr. Jaybhay Shivprasad Dhondiba	Dr. Rakesh Jamkhandikar	"Role of 3D CT Scan in Quantifying Glenoid Bone Loss in Recurrent Unilateral Shoulder Dislocation"
20	Dr. Pankaj Anandrao Sonone	Dr. Vijayshri Bhide	Clinicopathologic Study of Lesions of Ampulla of Vater"

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# DNB thesis accepted by NEB [January 2013 to March 2014]

DNB thesis

Sr No.	Name of the Candidate	Name of guide	Thesis Title
21	Dr. Ameya Sameer Kanakiya	Dr. Asha Gokhale	“Efficacy and success rate of balloon thermal ablation for symptomatic relief in patients with dysfunctional uterine bleeding.”
22	Dr. Shahsuno Zalam Ravindra	Dr. Anuradha Wakankar	“Prevalence of abnormal Nuchal translucency and foetal outcome”
23	Dr. Pradeep B G	Dr. S. D. Joshi	“Comparative study of macular thickness after Phacoemulsification in Non-diabetic and Diabetic subjects”
24	Dr. Snehal Shenvi	Dr. Manjiri Ranade	Comparison of 0.15% Ropivacaine with 0.1% Bupivacaine for Epidural Analgesia during Labour”
25	Dr. Pendhari Saurabh	Dr. Bhagyashri Shivde	“Comparison of different concentrations of intrathecal Clonidine in Bupivacaine spinal anaesthesia for lower limb orthopaedic surgeries”
26	Dr. Shilpa Shivkumar Dhakorkar	Dr. Aruna Chandorkar	“Study of Ovarian Tumours”
27	Dr. Nidhi Nikhil Bandiwade	Dr. Aruna Chandorkar	“Molecular Profiling of Breast Cancer and its Clinical Relevance”
28	Dr. Sapna Nana Patil	Dr. Parimal Kulkarni	Retrospective analysis of cases of surgically created arteriovenous fistulas as vascular access for haemodialysis during Jan. 2004 to Dec. 2009
29	Dr. Khairnar Prashant Laxman	Dr. Subodh Shivde	Study of patients undergoing Percutaneous Nephrolithotomy: Outcome Measurements
30	Dr. Italiya Sumit Raghavjibhai	Dr. Sumit Pitkar	“Profile of neonates with myocardial Dysfunction”

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# DNB thesis accepted by NEB [January 2013 to March 2014]

DNB thesis

Sr No.	Name of the Candidate	Name of guide	Thesis Title
31	Dr. Dhanawade Pravin Balasaheb	Dr. Ashwini Kulkarni	“Role of ultrasound soft markers detected in Second trimester anomaly scan and its significance in predicting chromosomal abnormalities”
32	Dr. Priyanka Garg	Dr. Pratibha Kulkarni	“Cervicographic progress in active phase and Obstetric outcome in patients undergoing labour under Epidural Analgesia”
33	Dr. Inamdar Neha Ravindra	Dr. Suneel Godbole	Correlation of National Neonatal Forum (NNF) risk factors for neuro-developmental delay in Neonates with their Neuro-developmental outcome at discharge from NICU and at 3 months of corrected age and to be followed up till 9 months of age.
34	Dr. Shah Karan Hetal	Dr. Roopali Nerlikar	“Correlation between clinical finding and structural test (OCT-optical coherence tomography) and functional test (Automated perimetry) findings in patients with optic disc findings suggestive of glaucoma”
35	Dr. Chawla Latika Jagdish	Dr. Girish Godbole	“Diagnostic Efficacy of Visual Inspection with Acetic acid (VIA) in Comparison with Conventional Pap Smear in Pre-invasive Cervical Cancer Screening”
36	Dr. Joshi Sonam Chandrashekhar	Dr. Sujit Joshi	“To evaluate diagnostic utility of frozen section in management of vocal cord lesions with special reference to malignancies”
37	Dr. Meenal Chauhan	Dr. Jitendra Kshirsagar	Evaluation of oral Gabapentine as pre-emptive analgesic for post operative analgesia after bilateral total knee arthroplasty.
38	Dr. Sethi Vrunda Kishanchandra	Dr. Mahesh Mandorkar	“Utility of MIB-1 (ki-67) labelling Index in Grading of Astrocytic Tumours”
39	Dr. Nityakalyani	Dr. Rijuta Kashyapi	“Evaluation of intubating conditions without Muscle relaxants using varying doses of Fentanyl and fixed dose of Propofol”
40	Dr. Sneha Khawase (Bande buche)	Dr. Amit Walimbe	A study of clinical profile and outcome analysis of patients with Diabetic Ketoacidosis in a tertiary care hospital.

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# DNB thesis accepted by NEB [January 2013 to March 2014]

DNB thesis

Sr No.	Name of the Candidate	Name of guide	Thesis Title
41	Dr. Kanak Raju Gangaram	Dr. Atul Deshpande	Aetiological spectrum and clinical profile of pancytopenia in a tertiary care hospital.
42	Dr. Nidhi Kaushal	Dr. Madhav Bhat	“Comparative study between immersion ultrasound biometry and partial coherence interferometry for intraocular lens power calculation”
43	Dr. Khalane Vishal Onkar	Dr. Girish Godbole	“Predictors of Obstetrics and neonatal outcome in meconium stained Liquor”
44	Dr. Uttarwar Akshay Jayant	Dr. Vinayak Desurkar	“Comparative study of Clonidine and Magnesium Sulphate on Hemodynamic responses and Recovery in elective Laparoscopic Cholecystectomy”
45	Dr. Kamal Patidar	Dr. Arti Rajhans	Correlation of Perinatal asphyxia with renal dysfunction in a tertiary care centre during NICU stay
46	Dr. Shailender Parashar	Dr. Rajan Joshi	“To study the prevalence of Fungemia in paediatric patients in terms of epidemiology and treatment outcome”

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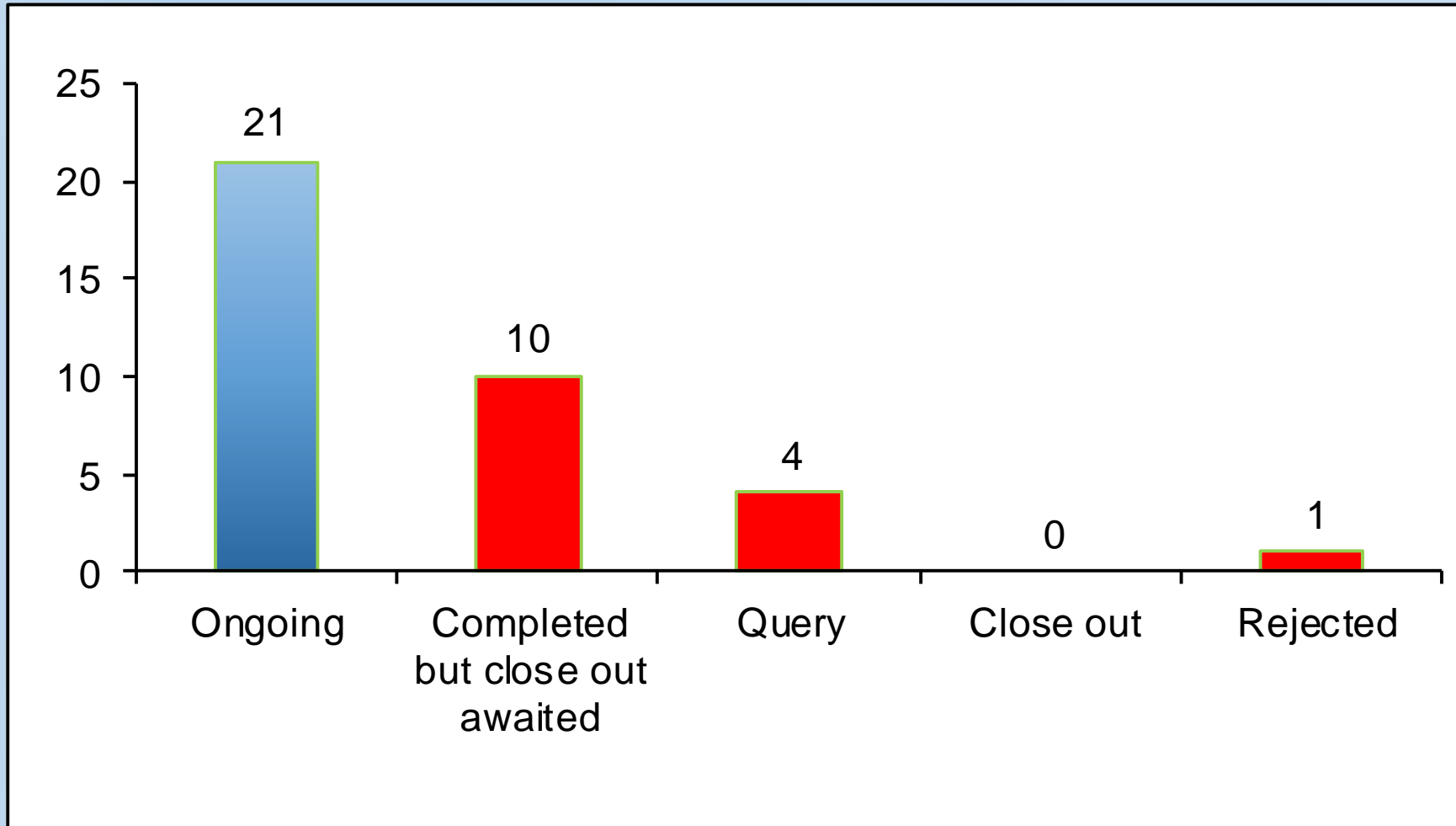
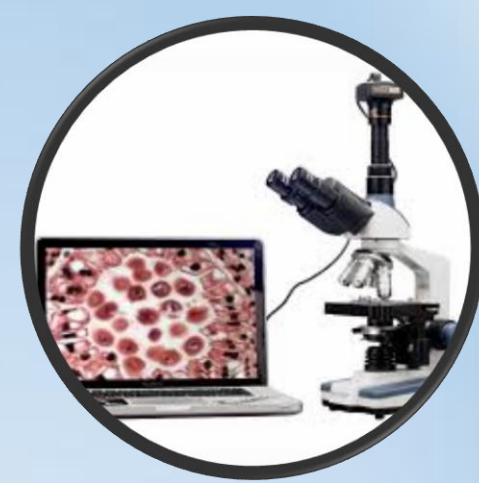
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## In- house Research project(s): Status of all CCPR projects as updated in April 2014

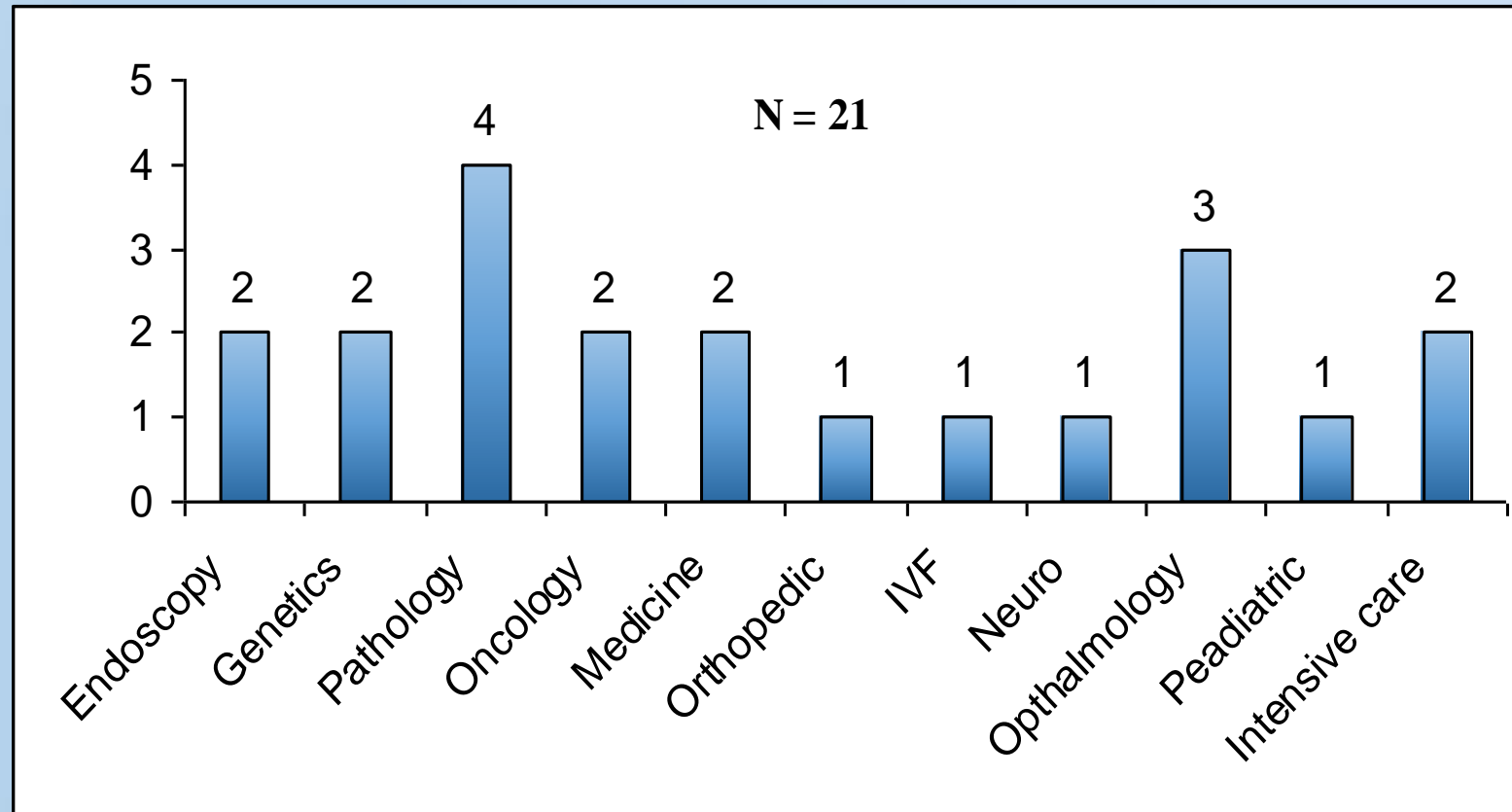


*All projects must be approved by DMHRC IEC - and are carried out under strict regulation and Ethical guidelines*





## In- house research project(s): Status of all CCPR projects as updated in April 2014 (Contd.): Distribution by discipline

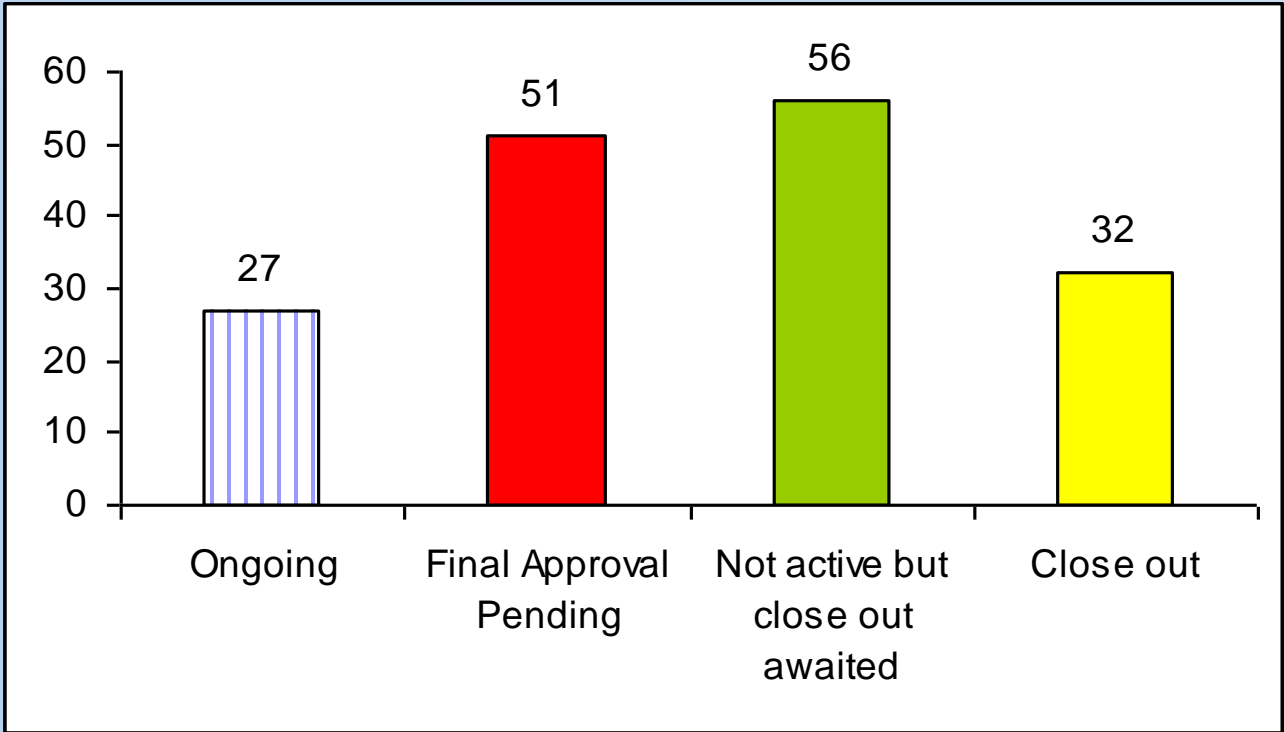


*All projects must be approved by DMHRC IEC - and are carried out under strict regulation and Ethical guidelines*





# Status of all Sponsored Clinical trials as updated in April 2014



- Pending- Approved in principle by IEC- but final approval not issued due to insufficient and incomplete documents
- Not active but close out awaited- No patient activity - but close-out is awaited for data base lock and safety updates

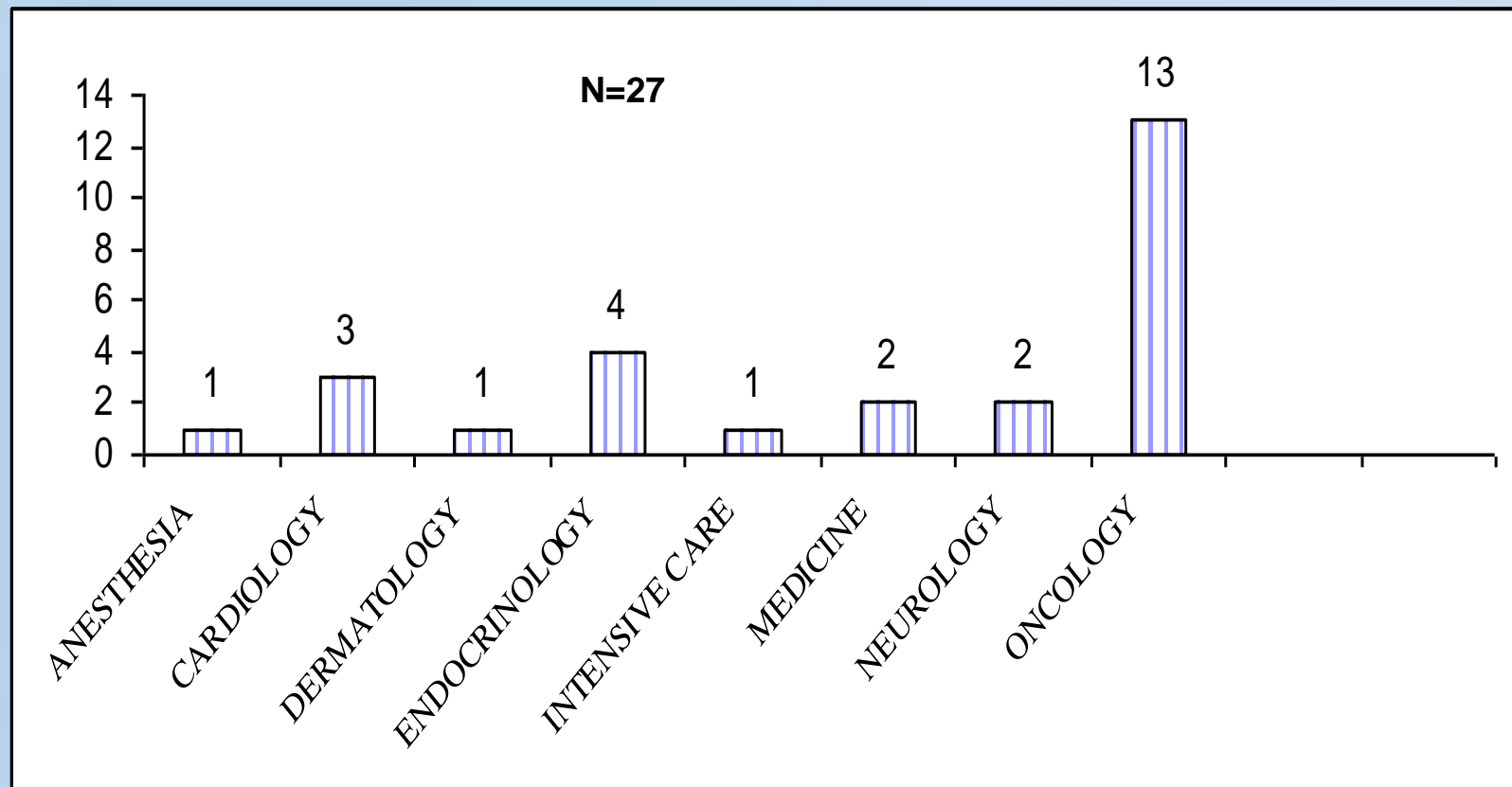






# Sponsored Global Clinical Trials at DMHRC

Distribution by discipline



*All projects must be approved by DMHRC IEC - and are carried out under strict regulation and Ethical guidelines*





# Additional Services @ DMHRC



Cancer Genetic Counseling service is being provided from January 2014 *[NEW!]*

- Statistical analysis service for individual PI projects - and DNB students is available from the Research Department on an appointment basis.
- Research project related advice - and hiring project-specific personnel from Research Department





## Research Department revisited-- An overview from the Department Head



DMHRC is a super-specialty consultative tertiary-care hospital with its own Research Department to encourage and initiate in-house basic and translational research projects as well as sponsored clinical trial protocols related to a battery of human anomalies and diseases. Various health-related projects have been completed from DMHRC - and data has been published in peer reviewed journals since its inception in 2001. We are (now) pleased to announce that the Phase II of DMHRC was inaugurated on November 1<sup>st</sup> of 2013 and - we are planning to expand our research efforts and endeavors beyond the Phase I plan.

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

### ● **SPONSORED CLINICAL TRIALS:**

The first arm focuses on conducting national and sponsored/global Clinical Trials, which include studies related to a battery of human metabolic, physiological and chronic conditions including cancer. The sponsor invited trials are first assessed for feasibility by the Physicians/Clinicians at DMHRC. The relevant protocols are then reviewed by Scientific Advisory Committee (SAC) of DMHRC - and are allowed to be implemented only after the approval of Institutional Ethics Committee of DMHRC.





As per the regulatory requirements, the Institutional Ethics Committee of DMHRC has been registered with DCGI, under the Central Drugs Standard Control Organization (CDSCO).

*(DCGI Registration No.: ECR/15/Inst/Maha/2013)*

### ● IN-HOUSE PROJECTS:

The second major arm of the Research Department is to encourage and invite in-house basic and translational research projects in diverse fields. The investigator- initiated projects are first reviewed by biomedical and scientific experts of CCPR committee (Core Committee for Promotion of Research) and are implemented only after the approval of IRB of DMHRC. These 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. We mention herein some of the broad areas of research covered by investigators at DMHRC:

Cataract and Uveitis, Respiratory infections, Gastro-intestinal conditions, management of patients in ICU, Cytogenetic studies for assessing pre-natal conditions and anomalies, Maternal and Child health related issues, Renal, Musculo-skeletal disorders. Epidemiological studies/surveys are also undertaken, when appropriate.





## ● RESEARCH PROJECTS UNDERTAKEN UNDER DNB PROGRAM:

The third arm of the institute includes investigator-initiated projects undertaken by DNB (Diplomate of National Board) students under the supervision of investigators of DMHRC. We have ~ 25-30 students enrolled in the DNB program annually. 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.

*Biomedical or health research projects carried out under all the above three arms is subject to approval by DMHRC Ethics Committee. For questions or concerns, please contact – [research@dmhospital.org](mailto:research@dmhospital.org)*

Sd/ -----

Dr Vaijayanti V. Pethe

Assistant Director

Department of Research

Deenanath Mangeshkar Hospital and Research Center

Pune, Maharashtra, India

[www.dmhospital.org](http://www.dmhospital.org)

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





# Annual Report

Prepared by:

- Dr. Vaijayanti V. Pethe
- Dr. Shweta A. Chittarangan
- Mrs Aditi A. Kulkarni
- Mrs Varada V. Bivalkar
- Mr. Sandeep Bhosale

***Thank you.....***  
***[research@dmhospital.org](mailto:research@dmhospital.org)***

# Annual Report

