

DEPARTMENT OF RESPIRATORY MEDICINE

1. List of publications in Vancouver style year wise(calendar year)(Period 2014 to 2019)

Year : 2014

1. Barthwal M S , Singh S. Early detection of Chronic Obstructive Pulmonary Disease in Asymptomatic Smokers using Spirometry. J Assoc Physicians India. 2014; 62(3): 238-42.
2. Khandagale S, Agarawal R, Barthwal M S, Salvi D. A randomized Control Trial of Treatment of Bronchial Asthma with Inhaled Salbutamol Combined with Pursed Lip Breathing. Indian J of Physiotherapy & occupational Therapy- An International Journal. 2014;8(1):215-20.
3. Hingorani M, Dharmadhikari V, Gupta A, Sahasrabudhe T. Respiratory Health of Auto Rickshaw Drivers. Research Journal of Pharmaceutical, Biological and Chemical Sciences. May – June 2014; 5(3):1799-1805.
4. Sahasrabudhe T, Salvi S. Should treatment for MDR Tuberculosis be individualized? JAPI. July 2014;62:564-5.
5. Christopher D J Shankar A, Datey A, Zwerling A, Pai M. Safety of the two-step tuberculin skin test in Indian health care workers. International Journal of Mycobacteriology, 2014: 3(4)
6. Udawadia Z F, Amale R A, Mullerpattan J B, Initial experience of bedaquiline use in a series of drug-resistant tuberculosis patients from India. International journal of tuberculosis and lung disease. 2014;18(11).
7. Kapse V , Bagrecha M, Totewad D, Gosavi M. A Study Of Association Of Body Mass Index With Severity Of Bronchial Asthma In 132 Patients. Journal of evolution of medicine and dentists science. 2014 ; 3(2);7058-7066.

Year : 2015

1. Kumar S, Sahasrabudhe T, Pathak A, Gupta A, Wilson V. Awareness of use of Montoux test for the diagnosis of tuberculosis in medical practitioners of PCMC area of Pune. IJSAR. 2015;2(11):20-29.
2. Sahasrabudhe T. MDR-TB: What has made the battle tough? RespiMirror. May- June 2015;V(II):1-2.
3. Mhase A, Sahasrabudhe T, Meshram S. Study of adherence of patients of OAD (obstructive airway diseases) to inhalational devices. RJPBCS. May-June 2015; 6(3): 511-5.
4. Singh P, Dharmadhikari V, Sahasrabudhe T. Knowledge of bronchial asthma in parents/caregivers of adolescent asthma patients. RJPBCS. May-June 2015; 6(3): 516-20.

5. Mehta K, Sahasrabudhe T. Spirometry assessment of persons doing regular aerobic exercises. RJPBCS. May-June 2015; 6(3): 521-3.
6. Karade S, Pandey S, Gianchandani S, Kurale S. N., Gaikwad N. S., Rewari B.B. Near full length genomic characterization of a novel CRF01_AE/Cr recombinant from western India. AIDS Resarch And Human Retrovirus: Dec 2015.
7. Ghate M, Kadam D, Gaikwad N. HIV drug resistance, early warning indicators and quality care in India. WHO Journal of Public Health SERO article July Dec 15.
8. Yannawar A, Duggal D. Uncommon cause of Asthma Like Presentation. RJPBCS. May-June 2015; 6(3):661-4
9. Datey A S, Datey A. Endobronchial Tuberculosis: An unusual presentation of a common disease. International journal of medicine and public health. 2015: 5(1)
10. Ghate M, Narkhe H, Rahane G, Nirmalkar A, Gaikwad, Kadam D,. Cognitive Function among HIV Infected Children in Pune. The Indian journal of paediatric. 2015:82(6)
11. Gabhale S D, Taparia P, Yadav D, Agnihotri S P. Usefulness of pleural fluid CRP level in differential diagnosis of exudative pleural effusion – a pilot study. International journal of clinical biochemistry & research. 2015;2(2)

Year : 2015

1. Rahul T, Barthwal M S, Bhattacharya D, Katoch CDS. Pyopneumothorax of Rare Case. Lung India. 2016; 33: 79-81.
2. Barthwal MS, Bagrecha A, Dhoka A. Bronchoalveolar lavage and high-resolution computed tomography in interstitial lung disease. Lung India. Sep-Oct 2016; 33(5):580-81.
3. Barthwal MS, Tyagi R, Kishore K. Fibrinolytics in loculated abscess cavities- A report of two cases. Lung India. Jul-Aug 2016; 33(4):417-19.
4. Barthwal MS et al. A Five –year study of Interpleural Fibrinolytic therapy in loculated pleural collections. The Indian Journal of Chest Diseases & Allied Sciences. 2016; 58: 17-20.
5. Chamberlain D, Kodgule R, Thorat Y, Das V, Miglani V, Ganelin D, Dalal A, Sahasrabudhe T, Lanjewar A, Fletcher R. Smart phone-based auscultation platform. European Respiratory Journal 2016 48: OA2000; DOI: 10.1183/13993003.congress-2016.OA2000.
6. Gaikwad N. Cross-sectional study of virological failure and multinucleoside reverse transcriptase inhibitor resistance at 12 months of antiretroviral therapy in Western India. Medicine: 95(37):2016.
7. Dole SK, Gauri P, Godbole, Himanshu S, Pophale. To study efficacy of medical thoracoscopy in undiagnosed pleural effusion: Journal of the association of physicians of India : 64(37-40):2016.
8. Kattakkayam A. J, Mehta K, Deshpande P. Saber sheath Trachea as a marker of severe airflow obstruction. IJSAR. 2016; 3(3): 32-4.

9. Takhar R P, Bunkar M , Jain S , Gabhale S. Tacheal Diverticulum: an unusual cause of chronic cough and recurrent respiratory infection. *TuberkToraks*; 2016;64(1)
10. Atre S . Tuberculosis burden in India's private sector. *The Lancet Infectious Diseases*.2016;16(12)

Year : 2017

1. Barthwal M S, Meshram S. A randomized, double-blind study comparing the efficacy and safety of a combination of formoterol and ciclesonide with ciclesonide alone in asthma subjects with moderate-to-severe airflow limitation. *Lung India*. 2017; 34(1): 111-12.
2. Barthwal M S, Kalrani A L, Sahasrabudhe T,Atre S, Meshram S. Prevalence of dysglycemia& clinical presentation of pulmonary tuberculosis in westernindia: *International journal tuberculosis lung disease*.21(12):2017
3. Gaikwad N, GeneXpert HIV-1 quant assay, a new tool for scale up of viral load monitoring in the success of ART programme in India: *BMC infectious Diseases*:2017:17(506).
4. Dole SK, Waghmare VN, AM Shaikh Clinical profile & treatment outcome of drug resistant tuberculosis patient od western Maharashtra, India: *Journal of the association of physicians of India*: 65(18-21):2017
5. Sahasrabudhe T, Ajani F.Lung Agenesis: A Case Report *Indian journal of Applied Research*.7(3):2017
6. Sahasrabudhe T, Attipatla S. Pulmonary Alveolar Microlithiasis: Clinical & radiopathological review, *International Journal of advanced research*:5(2);2017
7. Atre S. Modelling approaches for tuberculosis: are they realistic?. *The Lancet Global Health*.2017; 5(3).
8. Javed A, Dharmadhikari V, Sharma E. A Case Report On Pulmonary Hypertension And Pulmonary Fibrosis. *International Journal Of Scientific Research*.2017;6(9)
9. Joseph T , Dharmadhikari V ,Kulkarni A. Prevalence of Tuberculosis among Community Acquired Pneumonia Diagnosed Patients. *Journal of Pulmonary & Respiratory Medicine*.2017;7(6)
10. Chopra M, Bhattacharyya D, Barthwal M S, Madan G D S, Chakrabarthy B, Pandey I M, Chopra M. Cough of more than two weeks – Time to think beyond. *Indian journal of tuberculosis*;2017, 204.
11. **Atre S**. Tuberculosis burden in India's private sector. *The Lancet Infectious Diseases*. 2016 Dec 1;16(12):1328-9.
12. GBD 2016 SDG Collaborators. Measuring progress and projecting attainment on the basis of past trends of the health-related Sustainable Development Goals in 188 countries: an analysis from the Global Burden of Disease Study 2016. *The Lancet*. 2017 Sep 16; 390(10100):1423-1459. doi: 10.1016/S0140-6736(17)32336-X. Epub 2017 Sep 12.
13. GBD 2016 Mortality Collaborators. Global, regional, and national under-5 mortality, adult mortality, age-specific mortality, and life expectancy, 1970-2016: a systematic analysis for the Global Burden of Disease Study 2016. *The Lancet*. 2017 Sep 16; 390(10100):1084-1150. doi: 10.1016/S0140-6736(17)31833-0.

14. GBD 2016 Disease and Injury Incidence and Prevalence Collaborators. Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990-2016: a systematic analysis for the Global Burden of Disease Study 2016. *The Lancet*. 2017 Sep 16; 390(10100):1211-1259. doi: 10.1016/S0140-6736(17)32154-2.

Year : 2018

1. Sahasrabudhe T , Yadav K. International journal of current research, Assessment Of Respiratory Tract Inflammatory Marker With Overnight Use Of Mosquito Repellent In Copd Patient And Normal Individual, V-10 I-2 February 2018.65090-65096
2. Mehta K, Barauh G, Harshad Azeem E.K., Jain S, Indian journal of immunology and respiratory medicine , Management of cold Abscess : A noval Approach.3(1) 24-25 jan.-March2018
3. Barthwal M.S., Sahasrabudhe T, Meshram S, Atre S, international journal tuberculosis lung diseases,Trends in HbA1c levels and implications for diabetes screening in tuberculosis cases undergoing treatment in India.22(7),feb2018.
4. Barthwal M S, Sahasrabudhe T, Atre S,The effect of diabetes mellitus on the pharmacokinetics and pharmacodynamics of tuberculosis treatmentinetics and pharmacodynamics of tuberculosis treatment; Antimicrobial Agents and Chemotherapy 2018;62(11)
5. Atre;Failure in TB control: why should the rapid diagnostic test bear the blame?;The international journal of tuberculosis and lung disease;2018; 22(9)
6. GBD 2017 Disease and Injury Incidence and Prevalence Collaborators (2018). Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 1789-1858.
7. GBD 2017 Causes of Death Collabo
8. rators (2018). Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 1736-1788.
9. GBD 2017 SDG Collaborators (2018). Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet*, 392(10159), 2091-2138.
10. Kyu, H. H., Maddison, E. R., Henry, N. J., Ledesma, J. R., Wiens, K. E., Reiner Jr, R., ... & Carter, A. (2018). Global, regional, and national burden of tuberculosis, 1990–2016: results from the Global Burden of Diseases, Injuries, and Risk Factors 2016 Study. *The Lancet Infectious Diseases*, 18(12), 1329-1349.

Year : 2019

1. Bagrecha M , Gabhale S. A study of arterial blood gases with chronic obstructive pulmonary disease in a tertiary care hospital. International journal of scientific research.2019;8(8)
2. Atre S . The burden of diabetic in India. The Lancet Global health. 2019;7(2)

2. **Research and extension(From 1st January 2014 to till 2019)year wise (calendar year)**

(a) **Research summary**

Sr. No.	Name of the project and duration	Name of Teachers	Amount of seed money provided (INR in Lakhs)	Sanctioned Year
2014				
1	Identifying novel biomarkers of COPD (Chronic Obstructive Pulmonary Disease) and design of innovative preventive and therapeutic strategies targeted for the benefit of the Indian population	Dr. Tushar Sahasrabudhe is a coninvestigator (study being primarily done by College of biotechnology	Rs. 1,35,000 received by college till date	2014
2015				
1	Use of the miDOT application for video based Directly Observed Therapy in India	PI: Dr. Tushar Sahasrabudhe Co-investigator: Dr. Shailesh Meshram, Dr. Sudhir Dahitankar	US \$ 12075	2015
2	Title development of automated algorithms for identification Of specific lung sounds using a novel mobile-attached stethoscope (smart stetho).”Phase-I	PI: Dr. Tushar Sahasrabudhe Co-investigator: Dr. Shailesh Meshram, Dr. Rohit Amale	25000	2015
2016				
1	The Impact of Diabetes on TB Treatment Outcomes	PI: Dr. Tushar Sahasrabudhe Co-investigator: Dr. ArjunlalKakrani, Dr. DakshayaniPandit, Dr. VijayashreeGokhale, Dr. Shailesh Meshram, Dr. Sudhir Dahitankar	US \$ 99,397	2016

Sr. No.	Name of the project and duration	Name of Teachers	Amount of seed money provided (INR in Lakhs)	Sanctioned Year
2	A study to develop decision guidance system for diagnosis, treatment, investigations and referral of patients suffering with breathlessness and / or cough due to respiratory disease / condition: Phase II.	PI: Dr. Tushar Sahasrabudhe Co-investigator: Dr. Shailesh Meshram	Nil	2016
2017				
1	Assessing pathways to care among tuberculosis (TB) and drug-resistant tuberculosis (DR-TB) patients in Pune City, India: a biosocial inquiry	Dr Sachin Atre	US \$ 75000	2017
2019				
1	A study to develop machine learning algorithms for diagnosis, treatment, investigations and referral of patients suffering with breathlessness and /or cough due to respiratory disease /condition	Dr M S Barthwal Dr Tushar Sahasrabudhe Dr Shailesh Meshram	Rs .161000	2019

(b) List of PhD Students

Sr. No.	Name of the faculty	Title of the Research Topic	Name of the Research Student	Date of enrolment of the Research Student
1.	Dr. Tushar Sahasrabudhe	Efficacy studies and molecular functioning of Biosmotrap: a device designed for removal of air pollutants.	Dr. Neeta Wagle Dr. NeeluNawani, Biotechnology and Bioinformatics Institute Co guide Dr. Tushar Sahasrabudhe	24/4/2018
2.	Dr. Tushar Sahasrabudhe	A randomized controlled clinical study of haridradiavaleha in tamakashwasaw.s.r to mild persistent bronchial asthma	Dr. AboliB.Patil College of ayurved& research centre , Co guide Dr. Tushar Sahasrabudhe	21/08/2018

3. PO and CO Analysis (PG)

Programme Outcomes

No.	By the end of the programme, the Medical Post Graduate will:
1	Be a Clinician , who understands and provides preventive, promotive, curative, palliative and holistic care with compassion
2	Be a Leader and member of the health care team and system
3	Be a Communicator with patients, families, colleagues and community
4	Be a Lifelong learner committed to continuous improvement of skills and knowledge
5	Be a Professional who is committed to excellence, is ethical, responsive and accountable to patients, community and the profession

Format for Course Outcomes Resp Med

Respiratory Medicine MD	RM.1	Theoretical knowledge of different aspects of Pulmonary Medicine including the status in health and disease.
	RM.2	Acquire clinical skills.
	RM.3	Acquire practical skills.
	RM.4	Management of emergencies including intensive care.
	RM.5	Preparation of thesis as per MCI guidelines.

Mapping of CO with PO for subject

	Clinician	Leader	Communicator	Lifelong learner	Professional
RM.1	3	2	3	3	2
RM.2	2	3	2	2	2
RM.3	2	2	3	3	3
RM.4	3	3	3	3	2
RM.5	3	2	2	3	3
Average	2.6	2.2	2.6	2.8	2.4

3 = Strong mapping, 2= Moderate mapping, 1= Weak mapping, 0 = Not mapping

PO and CO Analysis (UG)

Programme Outcomes

No.	By the end of the programme, the Medical Post Graduate will:
1	Be a Clinician , who understands and provides preventive, promotive, curative, palliative and holistic care with compassion
2	Be a Leader and member of the health care team and system
3	Be a Communicator with patients, families, colleagues and community
4	Be a Lifelong learner committed to continuous improvement of skills and knowledge
5	Be a Professional who is committed to excellence, is ethical, responsive and accountable to patients, community and the profession

Format for Course Outcomes Respiratory Med

- RM.1 Diagnose and manage common respiratory illness
- RM.2 Use the art of communication with patient including history taking and clinical examination.
- RM.3 Understand and interpret Spirometry and chest x rays
- RM.4 History, clinical feature diagnosis and management of pulmonary & extra pulmonary tuberculosis

Mapping of CO with PO for a subject

No. of Assess- ment items	Respiratory Me- dicine	Lifelong				
		Clinician	Leader	Communicator	learner	Professional
	RM.1	3	2	3	3	2
	RM.2	2	3	2	2	2
	RM.3	2	2	3	3	3
	RM.4	3	3	3	3	2
	Average	2.5	2.5	2.8	2.8	2.3

3 = Strong mapping, 2= Moderate mapping, 1= Weak mapping, 0 = Not mapping

4. Alumni Placement (Till date)

Sr. No	Name	Batch	Year of passed out	Current job	PG done
1	Dr. Ajit Kulkarni	2005	2007	Private practice, KEM Hospital, Pune	Yes
2	Dr. Rajratan Sadawarte	2005	2008	Private practice, Mumbai	Yes
3	Dr. Rohit Amale	2006	2008	ICU, DMH, Pune	Yes
4	Dr. Prakash Sinha	2006	2009	Sr. Consultant pulmonologist at ParasHmri Hospital, Patna	Yes
5	Dr. Iqbal Siddiqui	2007	2009	Private practice, Aurangabad	Yes
6	Dr. Rithesh Kamal	2007	2010	Associate professor at Katihar Medical College, Bihar	Yes
7	Dr. Shreehas Bardapurkar	2008	2010	Private practice, Aurangabad	Yes
8	Dr. Sandeep Garg	2008	2011	Consultant chest physician & interventional pulmonologist at Max Hospital, Shalimar Bagh, Delhi	Yes
9	Dr. VikasOswal	2009	2011	Consultant chest physician at Vikas nursing Home	Yes
10	Dr. VipulKalley	2009	2012	Jabalpur Health care center, Ashish Hospital & Aditya Hospital	Yes
11	Dr. Anish Khan	2009	2012	RMO & Clinical Tutor- Department of Chest Medicine College of Medicine & JNM Hospital, WBUHS, Kalyani	Yes
12	Dr. Madhur Joshi	2010	2012	Senior Registrar- Department of Pulmonary Medicine & Critical Care at SantokbaDurlabhji Memorial Hospital, Jaipur	Yes
13	Dr. Tinku Joseph	2010	2013	Amrita Institute of Medical Sciences, Kochi	Yes
14	Dr. Vivian Wilson	2010	2013	Consultant pulmonologist medical trust hospital, Cochin	Yes
15	Dr. Ankur Pathak	2011	2014	Assistant Professor/ HOD , Dept. Of Pulmonary Medicine, S.M.M.H Government medical college, Saharanpur(UP)	Yes
16	Dr. Gauri Gadge	2011	2014	Private practice, Aurangabad	Yes
17	Dr. Amit Dave	2012	2014	Private practice, Vadodara. Attached to Apollo clinics & Sunshine Hospital, Vadodara	Yes
18	Dr. Ashish Gupta	2011	2014	Consultant chest physician Rati Ram Chest & General Hospital, Kaithal, Haryana	Yes

19	Dr. Megha Oberoi	2011	2013	TB Hospital Nowgong cant.(Bundelkhand), Chattarpur, MP & Navodya School nowgong & Army College nowgong visiting Faculty	Yes
20	Dr. Prashant Singh	2012	2015	District Hospital Gorakhpur as chest consultant Pvt practice Chest consultant at Gorakhnath Hospital, Gorakhpur	Yes
21	Dr. Kundan Mehta	2012	2015	Working as Assistant Prof. at Dr. D. Y. Patil Medical College, Pune	Yes
22	Dr. Ajinkya Mhase	2012	2015	Working as Sagamner	Yes
23	Dr. Parimal Deshpande	2013	2015	Working as Senior Resident at Platina Heart Institute, Nagpur	Yes
24	Dr. Sumit Kumar	2013	2016	Private practice	Yes
25	Dr. Avinash Chauhan	2013	2016	Private practice	Yes
26	Dr. Ajay Kattakkayam	2013	2016	Private practice	Yes
27	Dr. Vivek Sharma	2013	2015	Senior Resident (Pulmonary & Critical Care) Fortis Hospital, Mohali, Punjab	Yes
28	Dr Sowmya Attipatla	2014	2017	Private practice, Hyderabad	Yes
29	Dr.Fouzia Ajani	2014	2017	KEM, Pune	Yes
30	Dr Harshade Patel	2014	2016	Working as private practice Ahmadabad	Yes
31	Dr. Ahmer Javed	2014	2017	Working as Senior Resident at Dr. D. Y. Patil Medical College, Pune	Yes
32	Dr Arpan dhoka	2015	2018	Working as consult chest physician in Mumbai	Yes
33	Dr Kirti Yadav	2015	2018	Working as Senior Resident at Dr. D. Y. Patil Medical College, Pune	Yes
34	Dr Aditya Pandya	2016	2018	Joined KEM	Yes
35	Dr Harshad Azeem E K	2016	2019	Working as Senior Resident at Dr. D. Y. Patil Medical College, Pune -	Yes
36	Dr Uma Sharma	2017	2019	Working is Aditya birla	Yes

5. Mentorship details (For current year)

Sr No	Mentor Name	Sr No	Student Name	Roll No	Mobile no	Year of of Admission
1	Dr M S Barthwal Professor And HOD	1	Sakshi Gautam	8 th Sem	9823641647	2015
		2	Sakshi Singh		9637301245	
		3	Salloni Garg		9810232995	
		4	Sandeep Sigh		8004611732	
2	Dr Tushar Sahasrabudhe Professor	5	Sanya Bahle		9871058885	
		6	Saphalya Pattnaik		9168672558	
		7	Sasidharam O K		9488723735	
		8	Saswata Mitra		9871589470	
3	Dr Nitin Gaikwad Professor	9	Sawapandeepkaur Naran		9041644147	
		10	Sejal Sethi		9811950015	
		11	Shambhavi		8408031999	
		12	Shashi Prabha Singh		8390377093	

6. Teaching programme (Actual teaching programme should be reflected and not methods)

- Seminar every Monday
- Lecture for PG and UG every Tuesday
- Journal club every Wednesday
- Case presentation every Thursday
- Group discussion every Friday
- Teaching grand round every Saturday

7. Integrated Teaching

Sr. No.	Topic	Presented by	Date
1.	Tuberculosis	Dr. T. M. Dhamgaye	10/2/2015
2.	Tuberculosis	Dr. Anand Yannawar	5/2/2016
3.	Tuberculosis	Dr. Ajinkya Mhase	8/2/2017
4.	Tuberculosis	Dr. Ahmer JAved	24/01/2018
5.	Tuberculosis	Dr. Sachinkumar Dole	31/1/2019

8. Dissertations

Sr. No.	Student name	Specialization	Topic of Synopsis	Name of Guide
1.	Dr. Sumit Kumar	MD(Pulmonary Medicine)	Comparison of yield of Ziehl-Neelsen (ZN) staining by additional two sputum examinations, examination of sputum obtained after nebulization with Salbutamol and bronchoalveolar lavage (BAL), cases of sputum smear negative pulmonary tuberculosis.	Dr. Vinay Dharmadhikari
2.	Dr. Ajay Kattakkayam	MD(Pulmonary Medicine)	Correlation ranges of normal BMI with lung function tests.	Dr. Tushar Sahasrabudhe
3.	Dr. Avinash Chauhan	MD(Pulmonary Medicine)	Role of Pleuroscopy in the diagnosis and management of pleural effusions: A prospective study	Dr. Meena Hingorani
4.	Dr. Sowmya Attipatla	MD(Pulmonary Medicine)	Effect of supplementation of vitamin D on outcome of treatment of Tuberculosis	Dr. Tushar Sahasrabudhe
5.	Dr. Ahmar Javid	MD(Pulmonary Medicine)	Study of Sleep pattern in Patients COPD	Dr. Vinay Dharmadhikari
6.	Dr. Fouzia Ajani	MD(Pulmonary Medicine)	Study of Role of spirometry in Quitting Smoking	Dr. Meena Hingorani
7.	Dr. Arpan Dhoka	MD(Pulmonary Medicine)	Evaluation of FVC and FEV1 as predictors of Ischemic Heart Disease (IHD) in patients of COPD	Dr. Tushar Sahasrabudhe
8.	Dr. Kirti Yadav	MD(Pulmonary Medicine)	“Assessment of respiratory tract inflammation with overnight exposure to mosquito repellents mats in COPD patient and normal individual”	Dr. Tushar Sahasrabudhe
9.	Dr. Shailesh Meshram	MD(Pulmonary Medicine)	“Correlation between extent of air trapping due to small airways involvement on expiratory HRCT scan and pulmonary function tests in COPD”	Dr. Tushar Dharmadhikari
10.	Dr. Harshad Azeem E.K.	MD(Pulmonary Medicine)	To evaluate the efficacy & safety of IPFT in case of untrained tubercular pleural effusion.	Dr. Tushar Sahasrabudhe
11.	Dr. Gitartha Baruah	MD(Pulmonary Medicine)	Study of Usage Inhalation Devices and Inhalation Technique in Bronchial Asthma and Chronic Obstructive Pulmonary Disease.	Dr. M. S. Barthwal
12.	Dr. Sourabh Jain	MD(Pulmonary Medicine)	Study of clinical, Radiological functional profile of patient of ILD attending tertiary care Centre in western India.	Dr. Vinay Dharmadhikari
13.	Dr. Shubhi Singhal	MD(Pulmonary Medicine)	Evaluation of asthma management and control in adults in and around Pune city of Maharashtra.	Dr. M. S. Barthwal
14.	Dr. Nirmala	MD(Pulmonary Medicine)	Etiological spectrum of bronchiectasis	Dr. Tushar

	Muthukaruppan Ananthi	Medicine)	in Indian patients.	Sahasrabudhe
15.	Dr. Akansha Adile	MD(Pulmonary Medicine)	A study of clinic pathological profile of patients and the diagnostic modalities of patients of CA Lung in tertiary care centre.	Dr. Nitin Gaikwad
16.	Dr Sajin Sunny Mathew	MD (Pulmonary Medicine)	Assessment of prevalence and risk factors for associated coronary artery disease in patients of chronic obstructive pulmonary disease	Dr M.S. Barthwal
17.	Dr Suvarna Lakshmi Kalli	MD (Pulmonary Medicine)	Role of blind closed pleural biopsy in undiagnosed cases of pleural effusion	Dr M.S.Barthwal
18.	Dr Amal Raj	MD (Pulmonary Medicine)	Assessment of respiratory health in flour mill worker	Dr Tushar Sahasrabudhe
19.	Dr Haadi Nizar Ahammed	MD (Pulmonary Medicine)	Use of sublingual bacterial lysates in stables COPD- a case control study	Dr Tushar Sahasrabudhe
20.	Dr Priyanka Singh	MD (Pulmonary Medicine)	Risk factors and clinical profile of chronic obstructive pulmonary disease in females	Dr Vinay Dharamadhikari
21.	Dr Sakshi Dubey	MD (Pulmonary Medicine)	Study of bronchoalveolar lavage in sputum smear and cbnaat negative of presumptive pulmonary tuberculosis	Dr Nitin Gaikwad
22.	Dr Ashwin Ramesh CB	MD(Respiratory Medicine)	Clinical, radiological and microbiological profile of community acquired pneumonia in adults	Dr M S Barthwal
23.	Dr Ayesha Chaturvedi	MD(Respiratory Medicine)	Assessment of the co-existence of chronic bronchial asthma and allergic rhinitis in adults	Dr Vinay Dharmadhikari
24.	Dr Kiran Balani	MD(Respiratory Medicine)	Assessing effectiveness of cheap and practical ways of sputum disinfection for pulmonary tuberculosis patients in home scenario	Dr Tushar Sahasrabudhe
25.	Dr Manjush R M	MD(Respiratory Medicine)	Utility of peak flow meter in diagnosis of bronchial asthma	Dr M S Barthwal
26.	Dr Mukul Saini	MD(Respiratory Medicine)	Efficacy and safety of providone iodine pleurodesis versus tetracycline pleurodesis	Dr Tushar Sahasrabudhe
27.	Dr Prathyusha Alakunta	MD(Respiratory Medicine)	To assess the clinical profile of suspected/proven cases of TB cervical lymphadenitis and the role of CBNAAT in diagnosis	Dr Nitin Gaikwad
28.	Dr Omkar Konjeti	MD(Respiratory Medicine)	Correlation of six-minute walk test and COPD assessment test(CAT) scores with spirometric indices in chronic obstructive pulmonary disease patients	Dr Nitin Gaikwad
29.	Dr Srihitha	MD(Assessment of bacterial colonization in	Dr

Kakani

Respiratory

stable patients of chronic obstructive



Sachinkumar

		Medicine)	pulmonary disease	Dole
--	--	-----------	-------------------	------

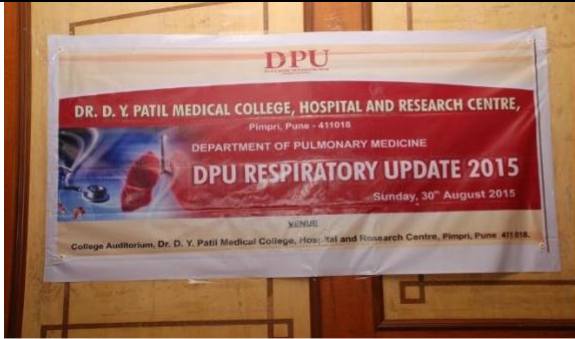
9. **Achievements/Awards of Faculty, UG Student, PG student yearwise (calendar year) from 1st January 2014 to 2019 till date**

Sr. No.	Name	Designation	Details of achievements
Year 2014			
1	Dr Ajinkya Mhase	Junior Resident	First Prize on poster presentation MediACE 2014, 22 nd -23 rd August 2014
Year 2015			
1	Dr Tushar Sahasrabudhe	Professor and Head	Sharing his thoughts on TB on World TB Day Radio - Mirchi Momento, 24 th March 2015
Year 2016			
1	Dr .M.S.Barthwal	Professor and Head	Fellowship of Indian College of Physicians (FICS) at National Conference of Pulmonologists of India (NAPCON) 2016 at Mumbai on 26th Nov. 2016.
Year 2017			
1	Dr .M.S.Barthwal	Professor and Head	NAPCON 2017 at Kolkata from 17/11/2017 to 19/11/2017. He was awarded best "Letter to Editor" award by Indian chest society. He also took part as panelist & chairperson
Year 2018			
1	Dr Nitin Gaikwad	Professor	Best user award 10/06/2018 Dr D Y Patil Medical college

10. Conferences/CME/Workshop organized by department year wise (calendar year) from 1st 2014 to 2019 till date (With 2/3 photographs of each event)

Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
Year 2014				
1	RNTCP training programme for newly joined PG Resident Doctors	3 rd July 2014	Dr D T khedkar & Dr Sudhir Dahithankar	14
2	RNTCP training programme for newly joined PG Resident Doctors	19 th August 2014	Dr D T khedkar & Dr Sudhir Dahithankar	31
3	RNTCP training programme for Nurses	29 th September 2014	Dr Sudhir Dahithankar & Me Hanumant Bidwe	94
4	Poster competition on the theme of "Green Diwali" done in collaboration with College of Nursing Street play organized on the same occasion	20 October 2014	Dr Amarjit Singh & Dr P.Vatalsalyswamy	40
Year 2015				
1	World TB Day 2015	24th March 2015	Dr Sudhir Dahithankar & Me Hanumant Bidwe	
				
2	WORLD NO TOBACCO DAY	1ST JUNE 2015		200
				

Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
3	CME- DPU Respiratory Update-2015,	30 th August 2015	-	150



4	RNTCP training programme for newly admitted PG Resident Doctors	13 th August 2015	Dr D T khedkar & Dr Sudhir Dahithankar	38
5	RNTCP training programme for newly admitted PG Resident Doctors	22 nd December 2015	Dr D T khedkar & Dr Sudhir Dahithankar	41
6	Fibrotic Bronchoscopy Handling & Maintenance workshop	13 December 2015	-	16



Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
7	Lung health evaluation week	14-19 December 2015	-	154 (Teaching & non-teaching staff of DPU)



Year 2016

1	World TB Day 2016	23 rd March 2016	Dr Sudhir Dahithankar & Me Hanumant Bidwe	150
---	-------------------	-----------------------------	---	-----



2	Hypersomnia	30 th August 2016	Dr. Ramadevi Gourineni, Adjunct Associate Professor of Neurology, Northwestern University & Director, Amara Sleep Centre & Amara Sleep Academy, Tirupati, Andhra Pradesh.	21
---	-------------	------------------------------	---	----

Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
				
3	DPU Pulmonary Update	1 st October 2016	Dr M. S. Barthwal & Dr. Raja Yarra Ramakrishanan	40
				
Year 2017				
1	World TB Day 2017	24th March 2017	Dr Sudhir Dahithankar & Me Hanumant Bidwe	50
				

Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
2	Hands On Training on new spirometry software OMNIA (Mr.Pramod Pasricha Application Engineer)	03 August 2017	Mr.Pramod Pasricha	30



3.	Whole Genome Sequencing to diagnose Drug Resistant TB”	16th December 2017	Dr. Maha Farat, MD MSC, Assistant Profesor ,Department of Biomedical Informatics ,Assistant Physician Pulmonary and Critical Care, Harved School, USA	50
----	--	--------------------	--	----



Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
---------	-------	------	---------------	---------------------------

Year 2018

1	Pulmonary Rehabilitation	23 August 2018	Dr Gaurav Baxi	16
---	--------------------------	----------------	----------------	----



2	World Tuberculosis Day 2018	23 rd March 2018	Dr Sudhir Dahithankar & Me Hanumant Bidwe	30
---	-----------------------------	-----------------------------	---	----



Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
3	RNTCP Training Programme Newly Joined PG Resident Doctors (JR-1)	29 August 2018	Dr D T khedkar & Dr Sudhir Dahithankar	90
4	ACINUS-2018	22-23Dcember 2018	Dr Dilip Mhaisker Vice cancellor, MUHS	291



5	Drug Resistant Tuberculosis in Children	09 th April 2018	Dr. Avika Dixit, MBBS MPH FAAP, Clinical Fellow in Pediatric Infectious Diseases, Boston Children's Hospital Research Fellow, Farhat Lab, Department of Biomedical Informatics, Harvard Medical School, USA	50
---	---	------------------	---	----

Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
---------	-------	------	---------------	---------------------------



Year 2019

1	Bronchoscopy Workshop	08 March 2019	Dr Barthwal	20
---	-----------------------	---------------	-------------	----



2	World Tuberculosis Day 2018	23 rd March 2019	Dr Sudhir Dahithankar & Me Hanumant Bidwe	200
---	-----------------------------	-----------------------------	---	-----



Sr. No.	Title	Date	Guest Speaker	No. of Delegates Attended
3	RNTCP Training Programme Newly Joined PG Resident Doctors (JR-1)	10 June 2019	Dr D T Khedkar & Dr Sudhir Dahithankar	127



4	RNTCP sensitization programme for nurses	11 June 2019	Dr Sudhir Dahithankar & Me Hanumant Bidwe	150
5	Intervention study to reduce alcohol use among TB and HIV cases”	10 june 2019	Prof. Geeta Chandar from Johns Hopkins	30



11. Conferences/CME/Workshop attended by faculty and students year wise (calendar year) from 1st 2014 to 2019 till date

Sr. No.	Name of the Participant	Designation	Name of the CME/Conference/Workshop	Date & Venue/place	Role (Delegate/Resource Person/Chairperson/Panelist)
Year 2014					
1.	Dr Meena	Professor	International conference on insight & management of COPD	1 st & 2 nd feb.2014 Pune	Delegate
	Dr Shailesh meshram	Senior resident			
2.	Dr. Tushar Sahasrabudhe	Professor	“NESCON-2014’ conference organized by Academy of Respiratory Medicine under the auspices of Environmental Medical Association	27 th -29 th June 2014 Mumbai	Delegate and Resource person (Speaker)
	Dr. Shailesh Meshram	Senior resident			
	Dr. Ajinkya Mhase	Assistant Professor			
3.	Dr. Tushar Sahasrabudhe,	Professor	European Respiratory Society Conference 2014	6 th to 11 th September 2014. Munich, Germany	Delegate
	Dr. Vaibhav Pandharkar	Senior resident			
Year 2015					
1.	Dr. Anand Yannawar	Assistant professor	‘Advanced Pulmonary Function Testing Workshop’	17 th & 18 th Jan, 2015 Chest Research Foundation, Marigold, Kalyani Nagar, Pune.	Delegate
2.	Dr. Anand Yannawar	Assistant professor	40 th workshop on Respiratory Allergy: Diagnosis & Management	23 rd to 27 th February, 2015, Vallabhbbhai Patel Chest Institute, University of Delhi, Delhi	Delegate
3.	Dr. Tushar Sahasrabudhe	professor	“Respiratory update”	22 nd February 2015, Poona Hospital & Research Center’s School of Interventional Pulmonology	Delegate and resource person (Speaker)

4.	Dr. Tilakchand Dhamgaye	professor	69 th National Conference on Tuberculosis and Chest Diseases	5 th to 7 th Feb 2015, Mumbai	Delegate
5.	Dr Sahasrabudhe	professor	Training session on “A-Z of Sleep Disorder – Case Based Learning” conducted by ACE School of Sleep Medicine	22 nd March 2015, Pune	Delegate
	Dr Dharmadhikari	Associate professor			
	Dr Shailesh Meshram	Senior resident			
6.	Dr. Rohit Amale	Senior resident	9 th Workshop & CME “Step Wise Approach to Interventional Pulmonology” “Interventional Pulmonology League-2015(IPL-2015)”	6 th to 7 th June, 2015 Institute of Pulmonology Medical Research and Development, Hotel Sofitel, Bandra Kurla Complex, Mumbai	Delegate
7.	Dr. Tushar Sahasrabudhe	Professor	Conference on “Respiratory Critical Medicine 2015”	19 th and 20 th June 2015 Military hospital, cardiothoracic center, Pune	Speaker
8.	Dr. Ankur Pathak,	Assistant Professor	3rd Annual Intensive Care Review Course” held during the “3 rd Annual International Best of Brussels Symposium on Intensive Care & Emergency Medicine	8 th & 9 th July, 2015 Pune	Delegate
	Dr. Sahebrao Toke	Senior resident			
9.	Dr. Tushar Sahasrabudhe	Professor	European Respiratory Society Conference 2015	26 th to 30 th September 2015 Amsterdam, Netherlands	Delegate
	Dr. Vaibhav Pandharkar	Senior resident			
	Dr. Rohit Amale	Senior resident			
10.	Dr. M. S. Barthwal	Professor and HOD	CME “Antibiotic Symposium 2015”	11 th October 2015 Maharashtra Association of Physicians (MAPI) & Medicine	Speaker

				Department of Bharati Vidyapeeth Medical College/ Wanless Hospital	
11.	Dr. Ajinkya Mhase	Assistant Professor	2 Days Comprehensive Critical Care Course(4C)” conducted by Indian Society of Critical Care Medicine	19 th & 20 th December, 2015 Pune	Delegate
Year 2016					
1.	Dr. Ankur Pathak, Dr. Mahavir Bagrecha, Dr. Shailesh Meshram Dr. Vaibhav Pandharkar, Dr. Ajinkya Mhase, Dr. Kundan Mehta, Dr. Prashant K. Singh	Assistant Professor Assistant Professor Senior resident Senior resident Assistant Professor Senior resident Senior resident	2 nd International Conference on Insight and Management of COPD (ICONIC 2016)	6 th & 7 th February 2016 Chest Research Foundation, Pune and Johns Hopkins Bloomberg School of Public Health, USA at Pune from	Delegate
2.	Dr. Ankur Pathak, Dr. Anand Yannawar, Dr. Prashant K. Singh	Assistant Professor Assistant Professor Senior resident	(WOB 2016) Workshop on Bronchoscopy	12 th & 13 th March 2016. Indian Association for Bronchology at Bombay Hospital, Mumbai	Delegate
3.	Dr. M. S. Barthwal	Professor and HOD	CME- APS 2016	3 rd April 2016 Hyderabad, Telangana	Speaker
4.	Dr. Tushar Sahasrabudhe	Professor	ATS 2016	13 th – 18 th May 2016 San Francisco, California	Delegate
5.	Dr. Ajinkya Mhase	Assistant Professor	14 th Annual Intensive Care Review Course	3 rd – 5 th July 2016 Pune	Delegate
6.	Dr. M. S. Barthwal (Faculty & Chair Person) Dr. Sowmya	Professor and HOD Junior	Scientific Programme “PG Respiratory Meet”	30 th July 2016 Smt. Kashibai Navale Medical	Chairperson

	Attipatla	resident		College & General Hospital, Narhe Pune	
	Dr. Fouzia Ajani	Junior resident			
	Dr. Shailesh Meshram	Junior resident			
	Dr. Kirti Yadav	Junior resident			
	Dr. Harshit Patel	Junior resident			
	Dr. Sourabh Jain	Junior resident			
7.	Dr. Shailesh Meshram,	Junior resident	CME & Workshop “Pulmonar 2016- PG Update”.	6 th & 7 th August 2016 MGM Medical College & Hospital, Aurangabad	Delegate
	Dr. Harshit Patel	Junior resident			
	Dr. Arpan Dhoka	Junior resident			
8.	Dr. Tushar Sahasrabudhe	Professor	European Respiratory Society International Congress 2016	3 rd to 7 th September 2016 London, United Kingdom	Delegate
9.	Dr. M. S. Barthwal	Professor and HOD	Col Ajit Singh Kashyap Memorial Quiz Competition & Respiratory Medicine CME	22 nd September 2016 Armed Forces Medical College, Pune	Delegate
10.	Dr. M. S. Barthwal	Professor and HOD	PULMOCON - 2016	24 th and 25 th of September 2016 14th All India Update in Pulmonary Medicine, Kolkata Organized by Institute of Pulmocare & research	panelist
11.	Dr. M. S. Barthwal	Professor and HOD	Guest Lecture	24 th to 25 th October 2016 Institute of Naval Medicine INHS Asvini, Mumbai	Delegate

12.	Dr. M. S. Barthwal	Professor and HOD	A debate on Intrapleural Fibrinolytics vs Thoacosopic Adhesiolysis at NAPCON 2016	24 th to 26 th Nov. 2016 Mumbai	panelist
13.	Dr. Shailesh Meshram	Sennior Resident	“RNTCP Zonal Task Force (West Zone) Workshop”	22 nd & 23 rd December, 2016 Ahmedabad, Gujarat	Delegate
14.	Dr. Ajinkya Mhase	Assistant professor	2 Days Comprehensive Critical Care Course(4C)	17 th & 18 th December, 2016 Pune	Delegate
Year 2017					
1.	Dr. Ajinkya Mhase	Assistant Professor	‘BLS for Healthcare Providers Course’	13 th January 2017 Symbiosis Institute of Health Sciences at Pune	Delegate
2.	Dr. Ajinkya Mhase	Assistant Professor	‘Advanced Cardiovascular Life Support Course’	15 th /01/2017 Symbiosis Institute of Health Sciences at Pune	Delegate
3.	Dr. Mahavir Bagrecha,	Assistant Professor	Conference on Bronchology “Broncocon 2017”	2 nd to 4 th March 2017 Christian Medical College, Vellore	Delegate
	Dr. Chitra V	Assistant Professor			
	Dr. Arpan Dhoka	Junior Resident			
	Dr. Kirti Yadav, Dr. Aditya Pandya	Junior Resident			
4.	Dr. Mahavir Bagrecha	Assistant Professor	Interventional Bronchoscopy Workshop “Broncocon 2017”	2 nd March 2017 Christian Medical College, Vellore	Delegate
5.	Dr. M. S. Barthwal	Professor and HOD	National Pulmonary Update organized by PGI Pulmonary Alumini Foundation	9 th April 2017 Nagpur	Delagate
6.	Dr. Mahavir Bagrecha	Assistant Professor	“International Diabetes Summit- 2017” organized by Chellaram Diabetes Institute	10 th to 12 th March 2017 Pune	Delegate

7.	Dr. Nitin Gaikwad	Professor	Interstitial lung Disease	28-29 October 2017- Corinthian Resort & Club, Pune	Delegate
	Dr. Vinay Dharmadhikari	Associate Professor			
	Dr. Mahavir Bagrecha	Assistant Professor			
	Dr. Ananad Yannawar	Assistant Professor			
	Dr. Shailesh Meshram	Senior Resident			
8.	Dr. Sudhir Dahitankar		TOG: Technical & Operational Guidelines PMDT: Programmatic management of Drug Resistant TB BDQ: Bedaquiline “TOG:PMDT:BDQ”	09-13 October 2017 Pune	Delegate
9.	Dr. Arpan Dhoka	Junior Resident	PULMONAR 2017-PG UPADTE	14-15 October 2017 Medical college & Hospital Aurangabad	Delegate
	DR. Gitartha Baruah	Junior Resident			
	Dr. Harshad Azeem E.K	Junior Resident			
10.	Dr. Vinay Dharmadhikari	Associate Professor	NAPCON 2017	17-19 November 2017 kolkata	Delegate
	Dr. Ananad Yannawar	Assistant Professor			
	Dr. Sowmya Attiptla	Senior resident			
11.	Dr. Sudhir Dahitankar	MO	One day orientation workshop about ECHO project	28 November 2017 Pune	Delegate
12.	Dr. Arpan Dhoka	Junior Resident	All about pancreas: an update	11-12 November 2017 Mumbai	Delegate
13.	Dr. Arpan Dhoka	Junior Resident	Septorhinoplasty Workshop	25-26 November 2017 Nashik	Delegate

Year 2018

1.	Dr. Shailesh Meshram	Senior Resident	state level training on revised PMDT guidelines17	17 -18 January 2018 pune	Delegate
2.	Dr. SachinKumar Soma Dole	Associate Professor	RNTCP Zonal Task Force (West Zone) Workshop	05-06 January 2018	Delegate

				Navi Mumbai	
3.	Dr. Shailesh Meshram	Senior Resident	National College Of Chest Physician & Accredited By National Board Of Examination.	24 March 2018 pune	Delegate
4.	Dr. Mahavir Bagrecha	Assistant Professor	2 nd International Diabetes Summit- 2018	09-11 March 2018 Pune.	Delegate
5.	Dr Chitra V.	Assistant Professor	3 rd Lung Multidisciplinary Cancer Management Course	24-25 march 2018 PGIMER, Chandigarh	Delegate
	Dr Fouzia Ajani	Senior Resident			
	Dr SowmyaAttipatla	Senior Resident			
6.	Dr M.S.Barthwal	Professor and HOD	CME	07-09 April 2018 Chandigarh	Delegate
7.	Dr. Mahavir Bagrecha	Assistant Professor	Chest inspire ,	20-21 April 2018, Dubai	Delegates
	Dr Anand Yannawar	Assistant Professor			
8.	Dr Anand Yannawar	Assistant Professor	Interventional pulmonology leagu 2018	2-3 june 2018 pune	Delegate
9.	Dr. Mahavir Bagrecha	Assistant Professor	21 st annual mechanical ventilation workshop	04-05 July 2018 pune	Delegate
	Dr Anand Yannawar	Assistant Professor			
10.	Dr Nitin Gaikwad	Professor	Statistical technique and research methodology	28-29 July 2018 CRF pune	Delegate
11.	Dr Sachin Atre	Research coordinator	Addressing policy needs for controlling TB and multidrug-resistant TB(MDR-TB):A biosocial inquiring among patients in Pune city in western Maharashtra, India	24-27 October 2018 The Hague, Netherlands	Chairperson
12.	Dr Nitin Gaikwad	Professor	MET Workshop	26-29 November 2018 Dr D. Y. Patil Medical College & Hospital Research Centre Pimpri, Pune	Delegate
13.	Dr M.S. Barthwal	Professor And HOD	NAPCON 2018	30oct. – 1 st Nov. 18 Ahmadabad, Gujarat	Speaker

Year 2019					
1.	Dr AhmarJaved	Senior Resident	STF Workshop	17 January 2019 Aurganbhad	Delegate
2.	Dr. Mahavir Bagrecha	Assistant Professor	3 rd International Diabetes Summit- 2019”	08-10 March2019 Pune	Delegate
3.	Dr M S Barthwal	Professor And HOD	PGI pulmonary alumni meet	06 April 019 Kolkata	Speaker
4.	Dr M S Barthwal	Professor And HOD	PULMOCON 2019	18-19 May 2019 Thrissur	Chairperson
5.	Dr M S Barthwal	Professor And HOD	SIMVENT 2019	26 May 2019 Dr D Y Patil Medical college, Pimpri , Pune	Organsier and Speaker
6.	Dr Mahavir Bagrecha	Assistant Professor	3 rd International Diabetes experts conclave 2019	28-30 June 2019 Pune	Delegate
7.	Dr Shubhi Singhal	Junior Resident	7th Annual International Best of Brussels Symposium on intensive care & emergency medicine2019	3rd - 4th July 2019 Pune	Delegate

12. Best Practices

- Collaboration with international universities for research work on tuberculosis
- Involving RNTCP in various research and social activities
- Providing comprehensive management in chronic disease like asthma and COPD
- Providing hands on training for diagnostic and therapeutic procedures
- Involving junior faculties in PG dissertation work.