

RUXMANIBEN DEEPCHAND GARDI MEDICAL COLLEGE, UJJAIN

DEPARTMENT OF PULMONARY MEDICINE

ACTIVITIES :

1. Indigenous Technique of Pleuroscopy.(Dr. Varudkar's technique of pleuroscopy)

- We have designed, developed a novel Technique of pleuroscopy
- Our fibre optic bronchoscope can be used for medical thoracoscopy and much more
- It's set of medical - grade metallic steel conduits
- (Patent Application No 1066/ MUM/ 2012 published on 14/12/2012; and Application No 1400/MUM/2012 published on16/11/12)
- This technique overcomes all the deficiencies, reduces the cost, and modifies the procedures to suit our country.

SET OF INSTRUMENTS

- I. Straight simple conduit- for drainage of pleural contents
- II. Curved simple conduit- for study of small radius parietal pleura
- III. Parietal introducer without window- for larger area of parietal pleura
- IV. Parietal introducer conduit with window – for parietal pleura and various manoeuvres
- V. Parietal retractor conduit- for retracting lung, adhesiolysis and Visceral conduit- for study of visceral pleura.



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ACCESSORIES:

1. Atomiser
2. Bronchoscope Holding stand
3. Cleaning brush

Chest Model - for training of candidates



Special procedures done (with our technique)

- 1] ICD manipulations -
- 2] Explorations of multiple loculi through one stoma-
- 3] Explorations of lung cavity through big b-p fistulas-
- 4] Retrieval of foreign body-
- 5] Superficial visceral debridement -
- 6] Adhesiolysis-

BRONCHOSCOPIC IMAGE ANALYSIS

Images seen through any Endoscopic device can have two problems

1. Its image as seen may not be exactly like original object – Distortion
2. Its size is always a question

One should

- Know the Distortion
- if possible know the size of object

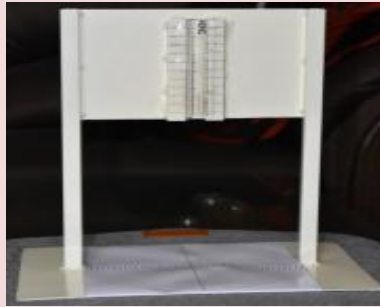
Aim- ASSESS Distortion

For more details Link- www.indipleurovtech.com

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Device Photo (patent due)



Circles photo - Images in sequence



MUSEUM

Introduction- two activities have produced many articles worth displaying in a museum

A. Conduits Developments

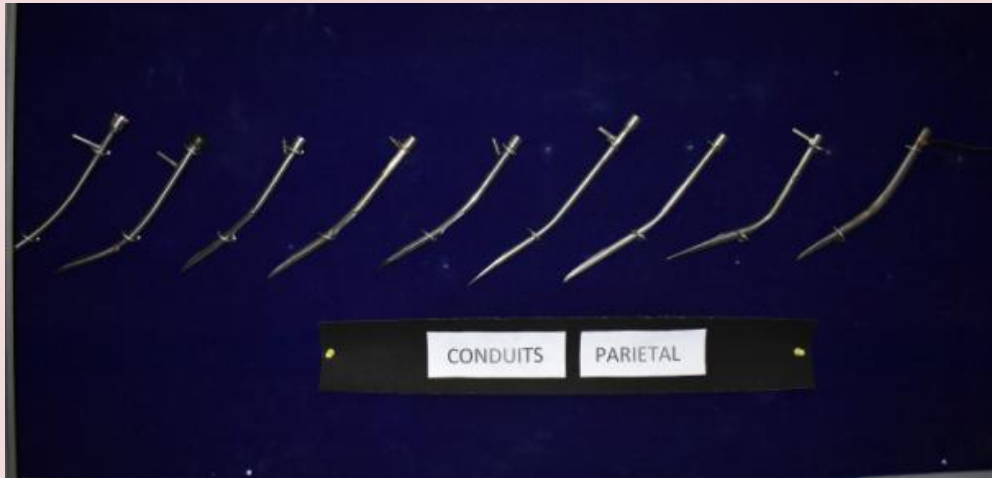
Development of Visceral pleuroscopy conduit



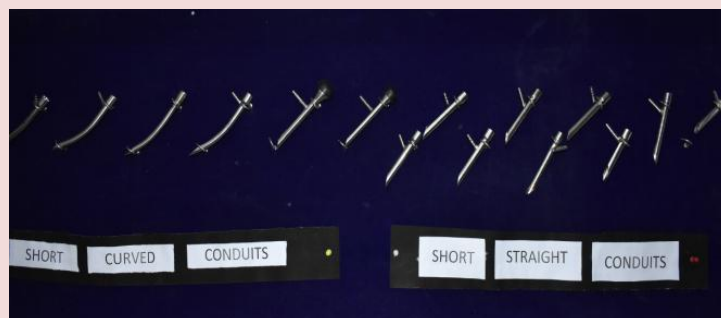
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Development of Parietal pleuroscopy conduit



Development of short conduits



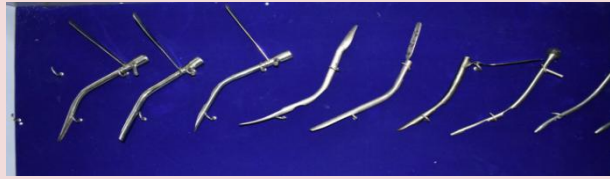
Development of handles



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Different types of conduits tried tested and discarded



Development of atomizer



Development of bronchoscope holding stand



ALLERGY CLINIC

Dermal allergy tests for allergic rhinitis and bronchial asthma

Day : Saturday

Time : 2 pm -4 pm

Preparation of patient-

- I. Antihistaminic drugs must be discontinued for one week prior
- II. Steroids must be tapered
- III. Patient should come with full stomach
- IV. Patient should not apply oil cream to forearms
- V. Hair if present on forearms must be shaved
- VI. Patient should understand that this is not final test but a screening test

Blood test- IgE and specific allergen tests done

Testing: Skin prick test can be performed on forearm or back.

Dermal Sensitivity Test



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School allergy Detection project:

All the students from primary schools under Ujjain Municipal corporation and Zilla Parishad Ujjain were examined for allergic rhinitis and asthma in two stages.

Study showed that children suffering from symptoms suggestive of Allergic Rhinitis, bronchial Asthma or both. There is a need to educate the parents and teachers so that the patients can be evaluated and properly treated as this will reduce the morbidity and school absenteeism in these children.

55.5% patients of allergic rhinitis became asymptomatic after avoidance of all relevant positive allergens, 27.7% showed reduced symptoms. 41.6% patients of bronchial asthma turned out to be asymptomatic but in 33.3% of cases the symptoms were same.

Further the dermal sensitivity testing by relevant allergens can greatly help in better management of these patients by avoiding the offending allergens

Interesting case:

A 17 year old student came to our OPD with the complaints of cough & cold, sneezing, breathlessness and running nose since childhood. Symptoms are more in winter and rainy season. His IgE also raised above normal level, so after complete examination of patient we performed skin prick test on his forearms and we found that he is sensitive to Grass, Mango , Jwar, dust mites, cotton dust, mosquitos, egg white and Bhindi (lady finger). We advise him to avoid these all allergens completely and ask him to come for follow up, after one month avoidance of these allergens we found drastic change in allergic symptoms. Now he is quite asymptomatic and happy.

Sleep Laboratory

Our Sleep Lab offers state-of-the-art testing for common sleep-related problems. **We have a dedicated sleep room with a Philips Respironics ALICE-5 56 channel polysomnography suite.** Our trained faculty is well equipped to diagnose and treat a wide variety of sleep disorders, including:

- Obstructive Sleep Apnea
- Central Sleep Apnea
- Restless Leg Syndrome
- Snoring
- Narcolepsy

A sleep study includes placement of electronic leads that are positioned on the head, chest and limbs to record information about brain waves, eye movements, heart rate, muscle activity, leg movements,

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breathing patterns, oxygen level and body position. A trained polysomnographic physician in an adjacent room monitors the process throughout the night. The procedure is painless and non-invasive.

6. Diagnostic and Therapeutic Services:

- Polysomnographic Studies
- CPAP/BiPAP Titration
- MSLT/MWT Study
- Patient Education



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Research Articles Published in Scientific Journals

1. Diagnostic Utility of Indigenous Technique of Pleuroscopy in Undiagnosed Cases of Exudative Pleural Effusions.-**Journal of Health Science**
2. Diagnostic and therapeutic Utility Of Indigenous Technique of Pleuroscopy in Patients of Undiagnosed Pleural Effusions- **European Respiratory Journal**
3. Gross Appearance of pleura with Indigenous technique of Pleuroscopy and its relation to the underlying pathology. Sent to **Lung India**
4. Effect of Air Pollutants on Lung Functions of Traffic Policemen of Ujjain, M.P, India- **Indian Journal Of Applied Research.**
5. Socio-economical Clinico-Radiological Profile of 474 MDR TB cases of Rural Medical College- **JAPI**
6. Diagnostic utility Of BAL fluid in lung malignancy- **IJAR**
7. Utility of indigeneouspleuroscopy Conduits- **Thoracic Endoscopy**
8. A Study of Clinical Profile of cases of MDR-TB and evaluation of challenges faced in the initiation of second line ATT for MDR-TB cases admitted in DRTB center- **Indian journal of tuberculosis**
9. Drug induced lymphadenopathy- **IOSR Journal of Pharmacy**
10. Clinicopathological profile of primary lung cancer patients presenting in a rural medical college of central india- **Panacea journal of medical science.**
11. Feasibility of Specified allergen Prevention in School Children With Bronchial Asthma And Allergic Rhinitis-**J.Evid. Based Med. Healthc., pISSN- 2349-2570/ Vol. 4/Issue 84/Oct. 19, 2017**
12. Corticosteroids in the management of Tubercular Pleural Effusion: **Published in Medical Journal of Western India, Feb 78-79**
13. Pulmonary Tuberculosis in Children: **Published in Rural Pediatrics Feb 1984**
14. Bilateral Supra and Infra Tentorial and Chronic Subdural Haematomas; **Published in Neurology India, 36:320, 1988.**
15. Congenital Tubercular Pleural Effusion In the Baby Of Healthy Mother; **Published in Indian Journal Of Tuberculosis; July 1999.**
16. Fiber optic Bronchoscopy. **PHRC Bulletin,July1999;15:8-9**
17. Foreign body in pleural space; **Alokan 1999.**
18. Fiber optic Bronchoscopy: **published in PHRC bulletin, July 1999: No.15: page numbers 8-9.**
19. Bronchial asthma-**Theory and practice: published in Current Medical trends. July-Sept 2000, Vol. 4, and No3: 795-796.**
20. Statistical Audit of ‘Conquer Asthma Campaign ’**Chest (India Edition)Nov.2001;2; 6(Suppl);S53**
21. Bronchial Asthma; **PHRC Bulletin,Oct-Dec.;15 :8-9**
22. Newer diagnostic modalities of TB: published in **Medical Journal of Western India. October 2003, Vol. 3: 111-115.**

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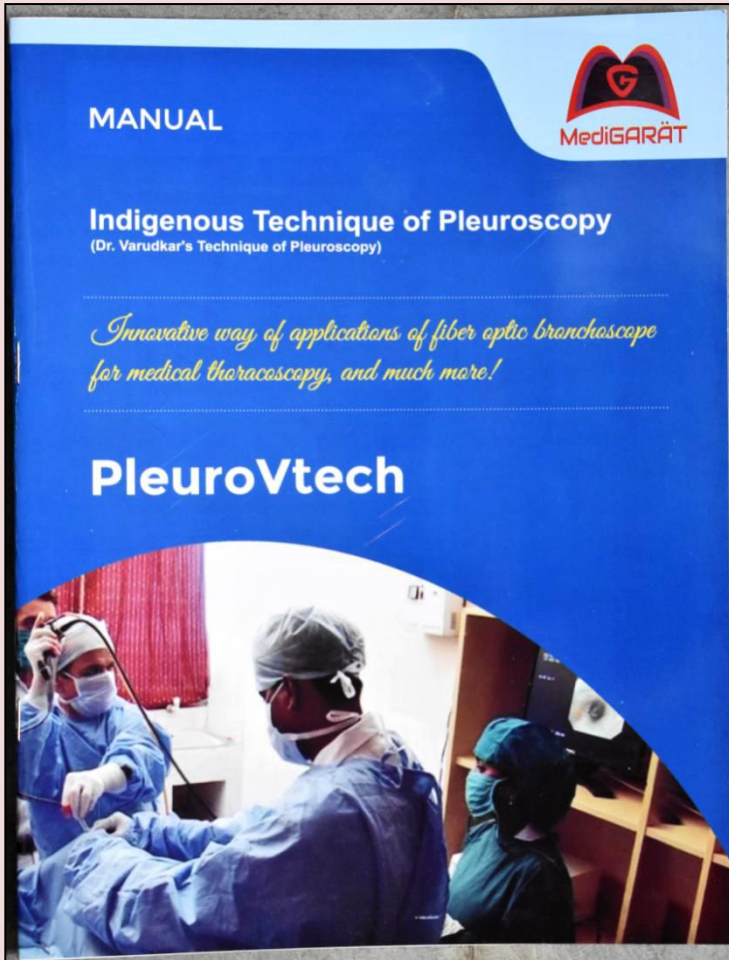
23. Prevention of resistance to new anti-TB drugs: **Letter published in Lung India. 2005. Vol. 22, No.4: 142**
24. Newer Antimicrobials with Anti-Tubercular Activity: **D.Y.Patil Medical College Bulletin. 2008**
25. Pulmonary Candidiasis presenting as mycetoma. **Lung India;2008;25(4);165-7**
26. Kartagener's syndrome in www.waent.org/archives/2009/vol2-2/20091122.../kartagener.htm
27. Asymptomatic metalloptysis complicating lobectomy in pulmonary aspergilloma – An unusual complication **European J of Respiratory Diseases A.A. Bachh et al. / Respiratory Medicine CME 3 (2010) 37–39**
28. Diagnosing sputum/smear-negative pulmonary tuberculosis: Does fibre-optic bronchoscopy play a significant role? -**Lung India; 2010 Apr;27(2):58-62.**
29. Habits of tobacco use among the medical and non-medical students of Kolkata **Lung India; Oct – Dec 2011;28(4):319**
30. Comments on editorial – **Test of reversibility of airway obstruction: Time for review. Lung India • Vol 30 • Issue 3 • Jul - Sep 2013**
31. Experience of Fiber Optic Bronchoscope in ;a Rural hospital. Navin Shodh Sansar; **ISSN2320-87671(iii) July- Sept201326-27.International Journal of Scientific Study. | December 2014 ;2(9)5-9**
32. Dermal Sensitivity to Common Allergens and Effect of Allergens Avoidance in Patients of Allergic Rhinitis and Bronchial Asthma in Malwa Region: **A Hospital Based Study**
33. **Editor**, Manua,l Varudkar's technique of pleuroscopy Oct 2014
34. Chapter- Post operative care and complications' in Mahendra kumar edited Practical Guide of thoracoscopy published by IAB, Udaipur 2015

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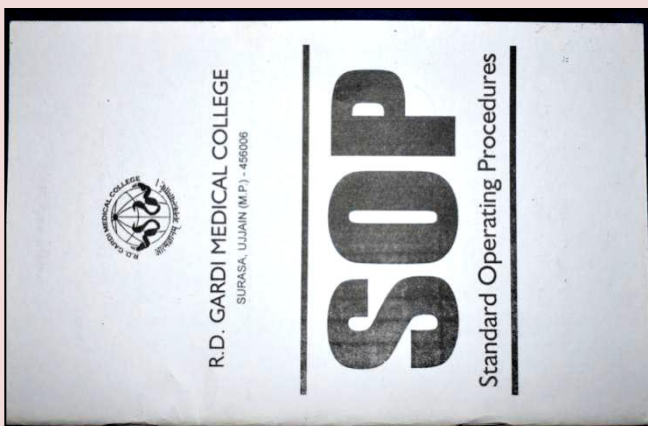
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Books and Booklets Published

Manual- For training of Indigenous technique of pleuroscopy



SOP – Standard Operating procedures



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RNTCP – Souvenir

