

## FACULTY DETAILS for UCMS WEBSITE

### 1. Personal details:

Name: Vinod Kumar Arora

Designation: Director Professor and Head of the Department

Degrees: MBBS, MD, DTCD

Department: Pathology

Areas of interest: (max 3 bullets)

- Cytopathology
- Oncopathology
- Experimental Pathology



### 2. Education and Trainings: (in ascending order)

Degree	Institution	Place	Period
MBBS	UCMS, University of Delhi	Delhi	1975-1979
DTCD	VPCI, University of Delhi	Delhi	1982-83
MD Pathology	UCMS, University of Delhi	Delhi	1984-1986

### 3. Experience: (in ascending order)

S.No.	Post	Institute	Period From - To
1	Demonstrator	UCMS, Delhi	31/March/1983 – 30/March/1989
2	Lecturer and senior lecturer	-do-	31/March/1989 – 30/March/1992
3	Reader	-do-	31/March/1992- 30/March/2000
4	Professor and Director professor	-do-	30/March/2000 – Till date

### 4. Assignments in Academic Associations

S.No.	Nature of assignment	Association	Period From - To
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1	Professor of Cytopathology	AIIMS, New Delhi	31//October/2005- 30/September/2007
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## 5.Awards and Honours

## 6. Projects

a. Ongoing - 1

b. Completed - 2

S.No.	Title	Funding agency	Period From - To	Grant in Rs
1	Therapeutic efficacy and safety evaluation of selected Unani drugs in the treatment of Rheumatoid arthritis: an experimental study	AYUSH	2009 to 2013	Rs. 24,00,000
2	Effect of different extracts of <i>Withania somnifera</i> on rheumatoid arthritis: An experimental study	DBT (Government of India)	2012 to 2015	Rs. 24,57,000
3	Experimental studies to assess the efficacy of commonly used Unani formulations for improvement of cognitive functions and neuroprotection	AYUSH	2016 to Ongoing	Rs. 47,00,160

## 7. Publications:

a. Indexed journals

1. Kashyap A, Rajaram S, Gupta B, Arora VK, Upreti L, Jain S. Evaluation of frozen section biopsy for fast track diagnosis of endometrial pathology in high-risk women with abnormal uterine bleeding. Eur. J. of Obstet. & Gynecol Reprod. Biol. In Press. Available online 8 July 2021.  
<https://doi.org/10.1016/j.ejogrb.2021.07.010>

2. Jain A, Kumar S, Arora VK, Saha R, Aggarwal AN. Study of Cell Viability and Etiology of Contamination in Decalcified Bone Allograft. *Indian Journal of Orthopaedics*. 2021; 1-8. Published online: 09 June 2021  
<http://doi.org/10.1007/s43465-021-00410-9>
3. Thakran P, Singal A, Arora V. Imatinib-induced classical lichen planopilaris in blaschko-linear distribution leading to cicatricial alopecia. *Indian Dermatology Online Journal*. 2021;12(3):444-446
4. Abhimanyu S, Jain AK, Myneedu VP, Arora VK, Chadha M, Sarin R. The Role of Cartridge-Based Nucleic Acid Amplification Test (CBNAAT), Line Probe Assay (LPA), Liquid Culture, Acid-Fast Bacilli (AFB) Smear and Histopathology in the Diagnosis of Osteoarticular Tuberculosis. *Indian J Orthop*. 2021 Jan 25;55(Suppl 1):157-166.
5. Gayatree A, Tanveer N, Arora VK, Arora V. Are Histomorphological Features Predictive of p16 Immunopositivity Different for Oral and Oropharyngeal Squamous Cell Carcinoma? *Indian J Surg Oncol*. 2020 Jun;11(2):248-255.
6. Chauhan S, Diwaker P, Singh A, Gogoi P, Arora VK. Cytological diagnosis of juvenile xanthogranuloma: A rare histiocytic disorder. *Diagn Cytopathol*. 2020 Jan;48(1):66-70.
7. Kumari M, Saifi A, Khan MA, Arora VK, Shamsi Y, Halder S, Ahmed RS. Acute and subchronic oral toxicity studies of majun brahmi and itrifal muqawwi dimagh (traditional unani formulations) in rats. *Phcog Res* 2020; 12(2):169-75
8. Rajaram S, Khan MB, Gupta B, Arora VK, Ahmad R. Clinicopathological correlation of serum vascular endothelial growth factor and tissue carbonic anhydrase factor IX in stage IA to IIA carcinoma cervix. *Journal of Clinical Oncology*. 2020; 38( 15\_suppl):e18012-e18012
9. Rajaram S, Verma A, Kar R, Arora VK, Gupta B, Jain S. Liquid biopsy for diagnosing ovarian cancer quantification of cell free DNA and p53 mutational analysis. *Int. J Gynecol Cancer*. 2020; 30(suppl 4): A1-A142.
10. Garg N, Diwaker P, Pathak P, Aggarwal D, Arora VK. Implementation of the MILAN system for reporting salivary gland cytopathology: Interobserver concordance and cytohistological correlation of discordant cases. *Diagn Cytopathol*. 2019 Aug;47(8):769-775.
11. Sharma A, Ahuja S, Diwaker P, Wadhwa N, Arora VK. Acinic cell carcinoma of the parotid gland: A diagnostic dilemma on cytology. *Malays J Pathol*. 2019 Aug;41(2):191-194.
12. Kumari A, Diwaker P, Gogoi P, Arora VK, Garg PK, Pandey R. Primary extraneural ependymoma of the broad ligament: A rare entity. *J Can Res Ther* 2019; 15:1398-401
13. Murry WT, Sharma S, Arora VK, Bhattacharya SN, Singal A. Cytomorphological spectrum and immunochemistry of cutaneous tuberculosis. *Diagn Cytopathol*. 2019 May;47(5):458-468.
14. Rajaram S, Chaudhary S, Banerjee BD, Arora VK, Gupta B, Garg PK, Jain S. mRNA and protein expression of e-cadherin and vimentin and p53

- immunohistochemistry in epithelial ovarian cancer. *Int. J. Gynecol Cancer* 2019; 29 (suppl 3): A1-A197
15. Kataria V, Singal A, Arora VK. Lichen Nitidus Associated with Onychodystrophy and Response to Therapy: Report of Two Cases. *Skin Appendage Disord.* 2019 Apr;5(3):158-161.
  16. Khan MA, Ahmed RS, Chandra N, Arora VK, Ali A. In vivo, Extract from *Withania somnifera* Root Ameliorates Arthritis via Regulation of Key Immune Mediators of Inflammation in Experimental Model of Arthritis. *Antiinflamm Antiallergy Agents Med Chem.* 2019;18(1):55-70.
  17. Sinha P, Tanveer N, Bansal T, Arora VK. Cytologic Clues to the Diagnosis of Lymphoepithelioma-Like Carcinoma of Parotid Gland with Possible Therapeutic Implications. *Indian J Surg Oncol.* 2019 Jun;10(2):374-376.
  18. Gupta V, Radhakrishnan G, Arora V, Singh A. Evaluation of endometrial scratching on intrauterine insemination outcome and endometrial receptivity. *Middle East Fertility Society Journal* 2018 Dec; 23(4): 363-369.
  19. Sharma A, Arora VK. Tuberculosis of Lip-An Unusual Presentation. *Am J Dermatopathol.* 2018 Mar;40(3):224-225.
  20. Ahuja S, Tanveer N, Haflongbar T, Arora VK. Cytological Findings of a Rare Case of Transitional Cell Carcinoma Bladder Presenting with Supraclavicular Lymphnode Metastasis. *J Cytol.* 2018 Apr-Jun;35(2):129-130.
  21. Garg P, Pathak P, Goyal R, Arora VK, Singh N. Current practice in handling and reporting needle biopsies: A hospital-based survey. *Indian J Pathol Microbiol.* 2018 Apr-Jun;61(2):197-200.
  22. Singal A, Kaur I, Arora VK. Solitary Digital Nodule in an Infant. *Skin Appendage Disord.* 2018 Jan;4(1):44-46.
  23. Wadhwa N, Diwaker P, Lotha N, Arora VK, Singh N. Cytokeratin 20 immunocytochemistry on urine sediments: A potential low-cost adjunct to cytology in the diagnosis of low-grade urothelial carcinoma. *Cytopathology.* 2017 Dec;28(6):531-535.
  24. Asha K, Singal A, Sharma SB, Arora VK, Aggarwal A. Dyslipidaemia & oxidative stress in patients of psoriasis: Emerging cardiovascular risk factors. *Indian J Med Res.* 2017 Dec;146(6):708-713.
  25. Sharma A, Gogoi P, Arora VK. Myoepithelial carcinoma of the tongue- spindle cell morphology with high mitosis: A case report and review of literature. *Indian J Pathol Microbiol.* 2017 Oct-Dec;60(4):560-561.
  26. Singal A, Pandhi D, Kataria V, Arora VK. Tuberculosis of the glans penis: an important differential diagnosis of genital ulcer disease. *Int J STD AIDS.* 2017 Dec;28(14):1453-1455.
  27. Goel A, Gupta S, Banerjee BD, Arora VK, Banerjee KK, Singh I. A case control study of Her2/neu expression and organochlorine pesticide levels in case of carcinoma urinary bladder. *Journal of Cancer Research & Therapeutics.* 2017;13: pS449-S450

28. Goyal S, Arora VK, Joshi MK, Singh N, Radhakrishnan G. Intestinal GIST masquerading as an ovarian mass: Diagnosed on FNAC. *J Cytol.* 2017 Jul-Sep;34(3):159-161.
29. Kumar HB, Khan AM, Arora VK, Singh N. Fine needle aspiration biopsy: An entrustable professional activity in cytopathology postgraduate training. *J Cytol.* 2017 Apr-Jun;34(2):84-89.
30. Goyal S, Rathore R, Sharma S, Arora VK, Das GK, Singal A. Cutaneous basal cell carcinoma with mixed histology: Cytomorphological features of two unusual cases. *J Cytol.* 2017 Apr-Jun;34(2):115-118.
31. Khan MA, Subramanayan M, Arora VK, Ahmed RS. Suppression of inflammation and cartilage destruction by steroid-rich methanolic extract of *Wethania somnifera*: A study on collagen induced arthritic rats. *Journal of Experimental and applied Animal Sciences.* 2017, 2(2):172
32. Rathore R, Arora VK, Singh B. Lymphoepithelioma-like carcinoma of cervix: Cytological Features on Conventional Cervical Smear. *Diagn Cytopathol.* 2017 Mar;45(3):239-242.
33. Iqbal R. Kaur, Bineeta Kashyap, Neha Goel, Rajnish Avasthi, Neelam Vaid, Vinod Arora, N.P. Singh, Utility of PCR targeting IS6110 and MPT64 genes in the diagnosis of extrapulmonary tuberculosis. *Ind J Med Spec.* 2017;8(3):139-145.
34. Sharma A, Tyagi M, Gupta S, Arora VK. Primary synovial sarcoma of the parotid gland: An unusual entity. *Indian J Pathol Microbiol.* 2016 Oct-Dec;59(4):559-560.
35. Arora VK, Chopra N, Singh P, Venugopal VK, Narang S. Hydatid cyst of parotid: Report of unusual cytological findings extending the cytomorphological spectrum. *Diagn Cytopathol.* 2016 Sep;44(9):770-3.
36. Kare PK, Aggarwal N, Kalra O, Banerjee BD, Varshney P, Ghosh R, et al. Effect of Ramipril Treatment on Proteinuria and Advanced Glycation End Products in Type 2 Diabetes Mellitus Patients with Nephropathy: One Year Follow up Study. 2016;17(12):1-8.
37. Sathija PK, Rajaram S, Arora VK, Gupta B, Goel N. Evaluation of biomarker p16ink4a/Ki67 in cervical cytology for diagnosis of cervical intraepithelial neoplasia. *Asian J of Oncology.* 2016; 02 (S01): S92
38. Singal A, Daulatabad D, Pandhi D, Arora VK. Facial basal cell carcinoma treated with topical 5% Imiquimod cream with dermoscopic evaluation. *J Cutan Aesthet Surg.* 2016; 9(2):122-125
39. Kare PK, Aggarwal N, Varshney P, Ghosh R, Kalra O, Banerjee B, et al. Screening of Type 2 Diabetes Mellitus Patients for Micro-albuminuria and Its Relationship with Diabetic Retinopathy. *Int J Biochem Res Rev.* 2016;14(4):1-9.
40. Patnaik P, Diwaker P, Varughese AS, Arora VK, Singh B. Cytomorphological features of oncocytic variant of papillary thyroid carcinoma with lymphocytic thyroiditis. *Asian J Oncol* 2016;2:85-87

41. Goyal S, Arora VK, Gupta L, Singal A, Kaur N. Neurocristic Hamartoma With Lymph Node Involvement: A Diagnostic Dilemma. *Am J Dermatopathol*. 2015 Jul;37(7):e87-92.
42. Kava S, Rajaram S, Arora VK, Goel N, Aggarwal S, Mehta S. Conventional cytology, visual tests and evaluation of P16(INK4A) as a biomarker in cervical intraepithelial neoplasia. *Indian J Cancer*. 2015 Jul-Sep;52(3):270-5.
43. Dhawan AK, Chander D, Bisherwal K Arora V K, Tomar R. Verrucous hyperplasia of amputation stump. *Indian J of Dermatopathol Diagn Dermatol* 2015; 2: 23-24
44. Goyal S, Parihar A, Puri V, Sharma N, Goyal A, Arora VK. An unusual large abdominal malakoplakia following trauma: Diagnosed on FNAC. *Diagn Cytopathol*. 2015 Jun;43(6):490-4.
45. Khan MA, Subramanayaan M, Arora VK, Banerjee BD, Ahmed RS. Effect of *Withania somnifera* (Ashwagandha) root extract on amelioration of oxidative stress and autoantibodies production in collagen-induced arthritic rats. *J Complement Integr Med*. 2015 Jun;12(2):117-25.
46. Gandhi V, Dhawan AK, Bisherwal K, Arora VK. Incontinentia pigmenti in male neonate. *Indian J Paediatric Dermatology*. 2015, 16(4):217-220
47. Parihar A, Tickoo SK, Kumar S, Arora VK. Xp11 translocation renal cell carcinoma morphologically mimicking clear cell-papillary renal cell carcinoma in an adult patient: report of a case expanding the morphologic spectrum of Xp11 translocation renal cell carcinomas. *Int J Surg Pathol*. 2015 May;23(3):234-7.
48. Dhawan AK, Singh S, Tyagi M, Arora VK. Scar with recurrent serosanguinous discharge. *Clin Exp Dermatol* 2015; 40(2): 213-215
49. Mangla G, Arora VK, Singh N. Clinical audit of ultrasound guided fine needle aspiration in a general cytopathology service. *J Cytol*. 2015 Jan-Mar;32(1):6-11.
50. Garg PK, Jain BK, Dahiya D, Bhatt S, Arora VK. Mesenteric liposarcoma: report of two cases with review of literature. *J Gastrointest Cancer*. 2014 Dec;45 Suppl 1:170-4.
51. Pathak P, Srivastava R, Singh N, Arora VK, Bhatia A. Implementation of the Bethesda system for reporting thyroid cytopathology: interobserver concordance and reclassification of previously inconclusive aspirates. *Diagn Cytopathol*. 2014 Nov;42(11):944-9.
52. Tomar R, Srivastava R, Arora VK. Relevance of synovial cells in gouty tophus on fine needle aspiration cytology. *Indian J Pathol Microbiol*. 2014 Jul-Sep;57(3):511-2.
53. Gami N, Mundhra R, Guleria K, Arora VK, Garg S. Recurrent pyometra and xanthogranulomatous salpingitis: A rare pathologic association in a postmenopausal lady. *J Midlife Health*. 2014 Jul;5(3):156-8.
54. Afrose R, Singh N, Bhatia A, Arora VK. Cytomorphological tissue reaction pattern in lymph node tuberculosis and their correlation with bacterial density. *Annals of Tropical Medicine and Public Health*.2014;7(6):255-262

55. Prapanna P, Srivastava R, Arora VK, Singh N, Bhatia A, Kaur IR. Immunocytochemical detection of mycobacterial antigen in extrapulmonary tuberculosis. *Diagn Cytopathol.* 2014 May;42(5):391-5.
56. Kashyap B, Goel N, Avasthi R, Arora V, Kaur IR. Correlation of molecular and conventional methods of diagnosis of tuberculous lymphadenitis. *BMC Infectious Diseases.* 2014; 14(3): 1-1
57. Goyal R, Garg PK, Bhatia A, Arora VK, Singh N. Clinical audit of repeat fine needle aspiration in a general cytopathology service. *J Cytol.* 2014 Jan;31(1):1-6.
58. Subramanayaan M, Yasmeen S, Ahmed RS, Arora VK, Tripathi AK, Banerjee BD. Evaluation of therapeutic efficacy of Majoon Suranjan, a Unani formulation, in the treatment of rheumatoid arthritis: an experimental study. *Exp Biol Med (Maywood).* 2013 Dec;238(12):1379-87.
59. Jain S, Banerjee BD, Ahmed RS, Arora VK, Mediratta PK. Possible role of oxidative stress and brain derived neurotrophic factor in triazophos induced cognitive impairment in rats. *Neurochem Res.* 2013 Oct;38(10):2136-47.
60. Subramanayaan M, Yasmeen S, Arora VK, Tripathi AK, Banerjee BD, Ahmed RS. Safety evaluation and therapeutic efficacy of Habb-e-Asgand, a commonly used antirheumatic polyherbal Unani formulation. *Altern Ther Health Med.* 2013 Sep-Oct;19(5):52-9.
61. Bharathi SP, Raj HM, Jain S, Banerjee BD, Ahmed T, Arora VK. Role of pesticides in the induction of tumor angiogenesis. *Anticancer Res.* 2013 Jan;33(1):231-40.
62. Sharma T, Jain S, Verma A, Sharma N, Gupta S, Arora VK, Dev Banerjee B. Gene environment interaction in urinary bladder cancer with special reference to organochlorine pesticide: a case control study. *Cancer Biomark.* 2013;13(4):243-51.
63. Subramanayaan M, Jain S, Yadav C, Arora VK, Banerjee BD, Ahmed RS. Quinalphos induced oxidative stress and histoarchitectural alterations in adult male albino rats. *Environ Toxicol Pharmacol.* 2012 Nov;34(3):673-8.
64. Srivastava R, Arora VK, Aggarwal S, Bhatia A, Singh N, Agrawal V. Cytokeratin-20 immunocytochemistry in voided urine cytology and its comparison with nuclear matrix protein-22 and urine cytology in the detection of urothelial carcinoma. *Diagn Cytopathol.* 2012 Sep;40(9):755-9.
65. Chatterjee P, Mathur SR, Dinda AK, Guleria S, Mahajan S, Iyer VK, Arora VK. Analysis of urine sediment for cytology and antigen expression in acute renal allograft rejection: an alternative to renal biopsy. *Am J Clin Pathol.* 2012 May;137(5):816-24.
66. Gandhi A, Aggarwal S, Arora VK. Diagnostic usefulness of fragments of crushed cells in autoimmune thyroiditis. *Diagn Cytopathol.* 2012 May;40 Suppl 1:E38-42.
67. Garg MM, Arora VK. Clear cell adenosquamous carcinoma of the cervix: a case report with discussion of the differential diagnosis. *Int J Gynecol Pathol.* 2012 May;31(3):294-6.

68. Srivastava R, Aggarwal S, Arora VK. Cutaneous malakoplakia: diagnosed cytologically. *Indian J Pathol Microbiol.* 2012 Apr-Jun;55(2):257-8.
69. Gupta A, Noba AL, Gupta S, Arora VK, Rathi V, Kumar S. Papillary cystadenocarcinoma of ovary presenting as obstructive jaundice: a rare presentation. *Oman Med J.* 2012 Mar;27(2):159-60.
70. Aggarwal S, Arora VK. An unusual variant of leiomyoma masquerading per operatively as sarcoma. *Indian J Cancer.* 2011 Jan-Mar;48(1):120-1.
71. Jain S, Ahmed RS, Arora VK, Banerjee BD. Biochemical and histopathological studies to assess chronic toxicity of triazophos in blood, liver and brain tissue of rats. *Pesticide Biochemistry and Physiology.* 2011; 100:182-186
72. Singal A, Vij A, Pandhi D, Arora V. What syndrome is this? Multiple Soft Papulonodular Lesions Over the Scalp in a Child. *Pediatr Dermatol.* 2011 May-June 28(3): 333-334
73. Jain S, Mythily S, Ahmed RS, Arora VK, Banerjee BD. Induction of oxidative stress and histopathological changes by sub-chronic doses of triazophos. *Indian J Biochem Biophys.* 2010 Dec;47(6):388-92.
74. Arora VK, Sarungbam J, Bhatia A, Singh N, Agrawal V, Aggarwal S. Usefulness of NMP22 as an adjunct to a typical urine cytology and low-grade urothelial carcinoma. *Diagn Cytopathol.* 2010 Nov;38(11):788-90.
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76. Gandhi A, Aggarwal S, Rajbongshi A, Arora VK. Bursal gouty tophus: fine-needle aspiration cytology intrabursal tophus on FNAC. *Diagn Cytopathol.* 2010 Jun;38(6):463-4.
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78. Arora VK, Aggarwal S, Mathur S, Rath GK, Julka PK. Pleural mesothelioma: an unusual case diagnosed on pleural fluid cytology and immunocytochemistry. *Diagn Cytopathol.* 2009 Jul;37(7):509-12.
79. Aggarwal S, Arora VK, Gupta S, Singh N, Bhatia A. Koilocytosis: correlations with high-risk HPV and its comparison on tissue sections and cytology, urothelial carcinoma. *Diagn Cytopathol.* 2009 Mar;37(3):174-7.
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81. Gupta R, Mathur SR, Arora VK, Sharma SG. Cytologic features of extragonadal germ cell tumors: a study of 88 cases with aspiration cytology. *Cancer.* 2008 Dec 25;114(6):504-11.
82. Mathur SR, Aron M, Gupta R, Sharma MC, Arora VK. Malignant mesothelioma of tunica vaginalis: a report of 2 cases with preoperative cytologic diagnosis. *Acta Cytol.* 2008 Nov-Dec;52(6):740-3.



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84. Bhatia V, Garg PK, Arora VK, Sharma R. Isolated pancreatic tuberculosis mimicking intraductal pancreatic mucinous tumor. *Gastrointest Endosc.* 2008 Sep;68(3):610-1.
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86. Arora R, Mathur SR, Aron M, Verma K, Iyer VK, Arora VK, Sharma MC. Oncocytic carcinoid tumor of the lung: a case report of diagnostic pitfall in filter membrane preparation of bronchial washings. *Acta Cytol.* 2007 Nov-Dec;51(6):907-10.
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90. Chaturvedi S, Raheja P, Thakur R, Singh N, Arora VK, Suri V, Bhatia A. A technically simple method for staining of acid-fast bacilli in cytology smears: an evaluation. *Aust J Rural Health.* 2006 Dec;14(6):280-3.
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93. Arora VK, Kumar S, Singh N, Bhatia A. Intraoperative bile cytology of the dysplasia-carcinoma in situ sequence of gallbladder carcinoma. *Cancer.* 2005 Oct 25;105(5):277-81.
94. Singh I, Pachisia SS, Kumar S, Arora VK, Kumar P. Emphysematous pyelonephritis: a consequence of adenocarcinoma of urinary bladder in a nondiabetic patient. *J Postgrad Med.* 2005 Oct-Dec;51(4):324-5.
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99. Dhaliwal U, Arora VK, Singh N, Bhatia A. Cytopathology of chalazia. *Diagn Cytopathol.* 2004 Aug;31(2):118-22.
100. Malhotra P, Bhatia A, Arora VK, Singh N. Pathologic quiz case: a 70-year-old man with bladder outflow obstruction. Prostatic stromal sarcoma. *Arch Pathol Lab Med.* 2004 Jun;128(6):e81-2.
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105. Manucha V, Arora VK, Singh N, Bhatia A. Aspiration cytology diagnosis of a primary amyloid tumor of thoracic vertebra: a case report. *Diagn Cytopathol.* 2003 Sep;29(3):160-2.
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112. Jain M, Arora VK, Singh N, Bhatia A. Malakoplakia of the appendix. An unusual association with eggs of *Taenia* species. *Arch Pathol Lab Med.* 2000 Dec;124(12):1828-9.
113. Jain M, Singh N, Bhatia A, Arora VK. Histological assessment of dermal nerve damage occurring during multidrug therapy for leprosy. *Int J Lepr Other Mycobact Dis.* 2000 Jun;68(2):167-71.
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b. Other journals

c. Book chapters

d. Books

e. Others

\*List in reverse chronological order, starting from most recent; ICMJE style

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