



# The Lesion

A Biannual Newsletter of Indian Association of Veterinary Pathologists

Volume 1, No. 2

July, 2009

## From the President's Desk

I am delighted to know the overwhelming response of our members on the publication of the first issue of the IAVP newsletter, The Lesion. This newsletter is the mouthpiece of our association and sends message across the fellow pathologists and other health scientists/ teachers about the association activities, which ultimately get a place of respect among the scientific societies in the country and abroad. I congratulate Dr B N. Tripathi, the Editor, for nicely printed Newsletter with excellent layout. I would like to request all hon'ble members to contribute association news, their notable accomplishments, technical notes etc, for the benefit of the fellow members.

I appreciate the dedicated work of the chief editor and the editor for preparing a detailed author's and reviewer's guidelines, which are likely to further improve the journal's quality and status among the scientific periodicals. With the dedicated work of our web manager, active secretary general and the treasurer, I look forward a very active and vibrant IAVP. Efforts are already on with very active involvement of the Secretary, ICVP and other executive members to conduct the ICVP examination during 2010. I wish that a large number of eligible fellow pathologists would take up the certification examination. Our 26<sup>th</sup> Annual conference is going to be held at GADVASU, Ludhiana, and I hope a large number of members would participate to make the conference a grand success.

I look forward to very active support from all members of IAVP and ICVP executives and entire IAVP fraternity for taking our association to further heights.



**Dr Lal Krishna**

President, IAVP & ICVP and  
ADG (Animal Health, ICAR, Krishi Bhavan, New Delhi)

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## From Secretary General's Desk

Dear Colleagues

At the outset, I wish to thank each one of you for electing me as Secretary General of the Executive Committee. Reflecting your confidence the committee under the leadership of Dr. Lal Krishna is doing everything possible to satisfy the needs of members. The Executive Committee members are now well connected through a group e-mail system and they are working throughout year. The following activities have received visibility among members.

The association has started publishing a newsletter under the guidance of Dr. B.N Tripathi. I notice with gratitude that the title of newsletter, 'THE LESION' proposed by us, was greeted with applause from all corners.

The web site [www.iavp.org](http://www.iavp.org) has undergone massive revision: hearty congratulations to Dr. Amarjit Singh. Please support him by visiting the site regularly. Rejuvenation of inactive State- and Regional- Chapters is progressing. Please be in touch with your local leader and support them to have more frequent meetings within your state/zone. In order to foster closer communication among members a group mail system is being emulated where we can discuss anything and every thing which has a bearing on the advancement of veterinary pathology.

Dr. Naresh Sood is giving leadership at Ludhiana for organizing the 26<sup>th</sup> annual conference at the Department of Pathology, Guru Angad Dev Veterinary and Animal Sciences University. The conference is scheduled between 28<sup>th</sup> and 30<sup>th</sup> October 2009. The organizers have chosen a unique theme for the conference: 'Philosophy of Disease Diagnosis Thru Morphological to Biomolecular Approaches' and Core Theme 'Diagnostic Pathology'. The well sought C L Davis Satellite Seminar, which has become a routine annual feature, is on 'Advanced Descriptive Techniques-Ultrastructure, Cytology and Immunohistochemistry'. The annual general body meeting is planned for the 29<sup>th</sup> October at 5.00pm. Do consider this as the official notification and attend the meeting with full spirit and vigor. If you have any point to be brought to the notice of the house, please communicate the same by 01 October 2009.

This letter is also an official notification inviting applications for various awards of the association. The award administration system is under revision but this year we shall follow the existing system.

Looking forward to meeting you at Ludhiana



Yours truly

**Dr. TV Anilkumar**

PhD (London), Diplomate ICVP

## ASSOCIATION NEWS

### IAVP Tamilnadu Chapter Meeting Held

The IAVP Tamilnadu Chapter (IAVP-TN) meeting was held on 13.03.2009 at Madras Veterinary College, Chennai. Thirty members participated in the meeting including IAVP Secretary, retired professors, faculty members, Assistant Directors of Animal Husbandry, persons from industry, senior research fellows and post-graduate students.

Dr. C. Balachandran, Secretary, IAVP TN Chapter welcomed the gathering. As a mark of respect to the departed soul of Dr. S. Damodaran, Founder-Member, IAVP and Retired Professor and Head of Department of Veterinary Pathology, Madras Veterinary College, a two minute silence was observed. Retired Professors Dr. R.Ramakrishnan, Dr. S. Nagarajan, Dr. S. Viswanathan, Dr. A. Sundararaj, and Dr. V. Titus George were honoured. Dr. B. Murali Manohar, Vice-President, IAVP and President, IAVP-TN Chapter and Director, Centre for Animal Health Studies, TANUVAS, Chennai offered his felicitation. Dr. T.V. Anilkumar, Secretary General, IAVP delivered guest lecture on "Confocal Microscopy" which was received well. Two PG students from Madras Veterinary College were given an opportunity to present their work. Dr. K.R. Anjan Kumar presented his work on triple immunohistochemistry in mammary neoplasm and Dr. V. Kumar on microvessel density in neoplasms, which were well received. Dr. T.V. Anilkumar presented the recent developments in IAVP and ICVP.

It was resolved to hold IAVP-Tamilnadu Chapter meeting annually, preferably in the month of February and to invite experts to deliver guest lectures of current interest. The meeting ended with vote of thanks from Dr. S. Vairamuthu, Treasurer, IAVP-TN chapter.

### IAVP-Gujarat Chapter Meeting Held

A meeting of IAVP members from Gujarat State was convened on 28th May, 2009 at Veterinary College, Anand. Dr. K.S.Prajapati, Professor & Head, Department of Pathology, Veterinary College, Anand and Dr.D.V.Joshi, Professor & Head, Department of Pathology, Veterinary College, Sardarkrushinagar and Zonal Secretary, West Zone were instrumental in organizing this meet. At the outset, Dr.K.S.Prajapati, Professor & Head, Department of Pathology, Veterinary College, Anand delivered the welcome address. At this occasion, a talk on "**Recent Advances in Bovine Spongiform Encephalopathy**" was delivered by an eminent pathologist, **Dr. J.L.Vegad**. The meet was attended by the faculty and students of Pathology other related Departments of Anand. Dr. J.V.Solanki, Dean, Veterinary College, Anand presided over the function and Dr. V.P.Vadodaria, Dean, Veterinary College, Sardarkrushinagar was the Guest of Honour. Dr.D.V.Joshi proposed the vote of thanks.



### Indian College of Veterinary Pathologists (ICVP)

(Under the aegis of Indian Society for Certification of Veterinary Pathologists, Registered under Societies Registration Act 1860)

#### Announcement of Annual Board Certification Examination-2010 and Training

**Indian College of Veterinary Pathologists**, an independent certification body for veterinary pathologists in India was developed by IAVP with a view of globalisation and the potential for India to become a hub for human resources in Science and Technology (HRST: as perceived by the UN). The current headquarters of the certification body is Division of Pathology, IVRI, Izatnagar (UP).

**ICVP announces its Annual examination to be held on 11<sup>th</sup> & 12<sup>th</sup> September 2010 in the Division of Veterinary Pathology, IVRI Izatnagar (UP).** The detailed guidelines can be seen on [www.IAVP.org/ICVP](http://www.IAVP.org/ICVP). **The last date of application for examination is 31<sup>st</sup> December 2009.** (The last date for enrolment for training with a Diplomate of ICVP is 31<sup>st</sup> August 2009 and for the candidates where the training is one of the requirements, those enrolled in August 2009 will be eligible for the following annual September certification examination as per the requirement of the training period) The exam will be conducted in the 2<sup>nd</sup> week of September every year.

**The broad eligibility criteria includes:** 1. A Graduate in Veterinary Sciences and registered with the Veterinary Council of India, 2. A Life Member of IAVP, by virtue of specialization (Master or Ph.D.) in the subject of Veterinary Pathology, 3. Completed at least three calendar years of supervised training\* after Masters in Veterinary Pathology under the supervision & direction of Diplomate of the Indian College of Veterinary Pathologists as detailed in the application. The training may be conducted simultaneously with Ph. D. program in Veterinary Pathology OR the candidate must have five years full time exposure in Veterinary Pathology (after acquiring post-graduate qualification), including a minimum period of one calendar year of training\* under the supervision of a Diplomate of the Indian College of Veterinary Pathologists OR Until the year 2012, a candidate with ten years of full time exposure in Veterinary Pathology with Ph.D qualification as detailed in the application and having the application supported (signed) by the Diplomate of ICVP.

Those desirous to appear for the certification examination to be held on 11-12 September 2010 can apply to the Secretary of the College in a prescribed application form (available on [www.iavp.org/icvp](http://www.iavp.org/icvp)) giving details of qualifications, publications, evidence of professional experience & competence, supported by the Supervisor (one of the ICVP Diplomates), along with prescribed examination fee fixed by the college council.

The College shall award a 'Diplomate Certificate' in 'Veterinary Pathology' to all those who successfully complete the examination. The certificate holders may use the title Diplomate ICVP or DICVP, if they wish, after their names provided they maintain the membership of the College in good standing.

\*The detailed procedure for enrolment for training and the contact details of Diplomate of the ICVP is also available on the web site [www.iavp/icvp.org](http://www.iavp/icvp.org)

Prof. Vipin K. Gupta, Secretary ICVP, Head, Department of Veterinary Pathology, College of Veterinary & Animal Sciences, H.P. Agricultural University, PALAMPUR.



## ACCOMPLISHMENTS

### National Award for Dr. P.P. Gupta

Dr. P.P. Gupta, former director of research (Veterinary and Animal Sciences), Punjab Agricultural University (PAU) has been awarded Dr. P. Bhattacharya Memorial Award of the National Academy of Agricultural Sciences (NAAS) for the year 2007-08 for his life time achievement in animal and veterinary sciences. The award consisting of a citation and gold medal was given to him by Shri N.N. Vohra, his excellency, the Governor of Jammu and Kashmir, at the inaugural session of 9<sup>th</sup> Agricultural Sciences Congress, held at Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar on 22 June, 2009.



Dr. Gupta is recipient of many recognitions and awards including Science Pioneer Prize by Egyptian Veterinary Association, Rafi Ahmed Award, Team Research Award and Outstanding National Teacher Award by ICAR, Sriramachari Award in Pathology by ICMR, Meritorious and Best Teacher Awards by P.A.U., Ludhiana, Life Time Achievement Award and Drs. Jain and Vegad Award by Indian Association of Veterinary Pathologists. He is a Fellow of National Academy of Agricultural Sciences, National Academy of Veterinary Science, Egyptian Veterinary Association, Royal Veterinary College, Sweden and Indian Association of Veterinary Pathologists. He has also served as vice-president of Indian Association of Veterinary Pathologists and is the founder charter member of the Indian College of Veterinary Pathologists.

Dr. Gupta has made pioneering and outstanding contributions in the pathology, pathogenesis and recent methods of diagnosis of cardiovascular, respiratory, genital, mycoplasmal and mycotic diseases of animals. He has guided 23 M.V.Sc./Doctoral scholars and has published 263 original research papers in Indian and foreign journals of repute besides large number of invited lectures, etc.

Dr. Pankaj Shelar received Young Scientist Award from Society for Toxicologic Pathology in India (STPI) on his research paper presentation "Toxicopathological and genotoxic assessment of chromium in Wistar rats" at STPI Conference held at Bangalore during October 23-25, 2008. The award was instituted by Dr. Vyas M. Shingatgeri, Vice President, Drug Safety Evaluation, Ranbaxy Research Laboratories Ltd., R&D V, Gurgaon, in memory of Late Professor (Dr.) M. K. Shingatgeri, Former Dean, Bombay Veterinary College and Professor and Head of the Department of Pharmacology and Toxicology. The award consists of a Certificate and cash.

Professor Vipin K. Gupta, Head Department of Veterinary Pathology, College of Veterinary & Animal Sciences, HPAU, Palampur was invited by Asian Foundation for the advancement of Veterinary & Animal Sciences (AFAVAS) to deliver a talk on 'Select Pathology of Rabbit Diseases' in the first AFAVAS International Symposium, held at Gwangju, Korea on 5-6 Nov., 2008. There he was conferred with 'Distinguished Professor Award' by AFAVAS. He was also conferred with the prestigious Fellowship of National Academy of Veterinary Sciences (FNAVS) for the year 2008-09 for his outstanding contribution in the field of Veterinary Pathology.

Dr. A.T. Rao has been nominated as a member of Research Advisory Committee of Central Research Institute for Dry Land Agriculture, Hyderabad and attended the first meeting of the newly constituted XVII Research Advisory Committee of CRIDA on 5th May 09.

## TECHNICAL NOTES

### Mycotic gastritis in an Indian crocodile (*Mugger; Crocodylus palustris*)

R.V.S. Pawaiya, A.K. Sharma, D. Swarup\* and R. Somvanshi

Division of Pathology and Wildlife Centre\*

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Carcass of an adult female, broad snouted Indian marsh crocodile, locally called 'mugger' (*Crocodylus palustris*), weighing 41 kg and measuring 1.98 m in length was brought in the Postmortem room of the Division. The crocodile was found dead on the bank of Ganges River, near Kacchala in distt. Badaun district of U.P. and submitted for postmortem examination. Externally, all visible mucous membranes, eyes, cloacal opening and joints were normal. All visceral organs were grossly normal. Fat deposition was seen in subcutaneous tissues as well as around visceral organs. Stomach was empty except for the presence of few small wooden as well as bony pieces, and revealed several dark blackish patches of raised plaques on the gastric mucosa. Other areas of gastric mucosa showed diffuse congestion with petechial haemorrhages and oedema. Microscopically, gastric mucosa in plaque areas was extensively thickened and fibrosed with moderate infiltration of mononuclear cells. Gastric glands were atrophied due to massive fibrosis, which replaced the mucosal architecture in the affected areas. On the edges of gastric mucosa and also deep in the fibrosed tissue, spherical to oval, variable sized, thick walled bodies, several of them budding and often forming small chains, sprouting and even germinating, giving rise to branched hyphae, were conspicuously observed (Fig.). Species identification of the PAS positive moulds could not be done.

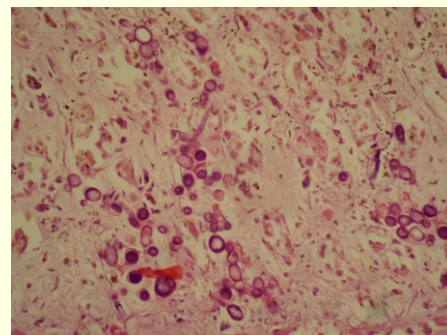


Fig. Presence of dimorphic fungal agent forming yeast like structures, budding chain and branched hyphae. HE x400.

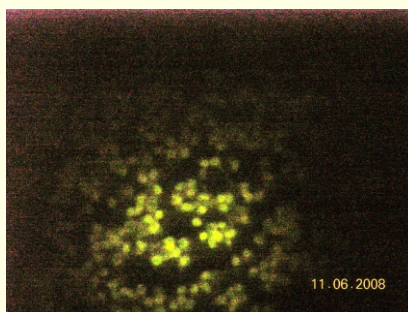
## TECHNICAL NOTES

### *Cryptosporidium* infection associated with an outbreak of diarrhoea in neonatal goat kids

Vikram S. Vashist

Disease Investigation Laboratory- Shimla, State Veterinary Hospital, Shimla, Himachal Pradesh-171 001

Infectious diarrhoea in neonatal animals is one of the most common and economically devastating conditions encountered in animal husbandry practice. *Cryptosporidium parvum* is a parasitic protozoa in many animal species and humans, which causes the disease Cryptosporidiosis. In April 2008, there was a severe outbreak of watery diarrhoea in 2-3 week old kids in a goat herd in Kotkhai, Shimla district of Himachal Pradesh. Twenty four kids out of 110 in the herd had died due to diarrhoea. All the affected animals were dehydrated, anorectic and prostrated. This study was conducted on the morbid material preserved in 10% neutral buffered formalin to investigate the causes of death in the kids due to diarrhoea. The demonstration of *Cryptosporidium* species oocyst was established both in formalin-fixed, paraffin embedded HE stained tissue section and in faecal smears stained with the Modified Ziehl-Neelsen and Auramine-Phenol methods using epifluorescence microscope equipped with FITC filters (Fig.). The results of the present study suggested an association of *Cryptosporidium* sp. as one of the principle etiological factors in neonatal diarrhoea in goat kids.



### An effective approach to prevent poultry losses following LaSota vaccination

J.L. Vegad\*, S. Bhindwale, B. Mishra and R. Sharma

Central Poultry Diagnostic Laboratory,  
Phoenix Group, 201/15, Ratan Colony, Jabalpur 482001

LaSota is a safe and effective vaccine and has been in use in India and abroad for a very long time in the control of Ranikhet disease. Contrary to this, for the first time, we recorded outbreaks of Ranikhet disease following LaSota vaccination in many commercial layer and broiler poultry farms. As a result, farmers suffered huge economic losses, both from mortality and drop in egg production. It was suggested that outbreaks occurred due to the presence of complicating pathogens in the birds, namely, mildly pathogenic avian influenza virus (MPAI) and infectious bronchitis virus. Of the two, principal role appeared to be that of MPAI. We have suggested that because of the genomic resemblance between Ranikhet disease virus, infectious bronchitis virus and avian influenza virus, proteins encoded by them may interact and, in turn, enhance virulence of the harmless LaSota vaccine virus. This may then precipitate Ranikhet disease outbreaks following LaSota vaccination.

To conclude, these observations have for the first time recorded adverse effects of LaSota vaccination due to the presence of complicating pathogens in poultry. It is suggested that use of both live and killed cloned vaccines, by increasing antibody titres, may not only protect the birds against Ranikhet, but also against MPAI. This, in turn, would help farmers in preventing heavy economic losses. The paper was published in the World's Poultry Science Journal, Vol. 64, Sept. 2008 issue, pages 401-404, by Vegad *et al.* (2008).

## NOTICE

Communication (notices/journals/news letter) sent to some of the members is bouncing back undelivered. Therefore, there is a necessity to update our membership list. This updating is preferred to a photo list. Kindly submit your details to Dr Rajendra Singh (rajendra\_singh5747@rediffmail.com), Treasurer at the Head Quarters by regular mail or e-mail. You may please note that he is the custodian of the official address book of the association. A copy to Amarjit Singh our Webmaster at amarjitsingh@gmx.net would be appreciated; he is in the process of generating a database of all IAV-members.

Please use the format for updating the membership details whenever there is a change but may not be accounted until 31 December of the calendar year. This notice replace all earlier notice on the process of updating address. If you have any doubts, please contact me.

01 July 2009  
Trivandrum

TV Anil Kumar  
Secretary General, IAVP

### Format for submitting details for updating membership directory of the Indian Association of Veterinary Pathologists

Please affix a Passport size photograph	Name: Dr Address for communication _____ _____ _____
	PIN CODE: _____
Membership No. : .....	E-mail id: <input type="checkbox"/> Please tick the column if you not not wish to be part of the IAVP-group mail community
My membership details are now appearing on Page No. ....	Contact Phone numbers (Please specify at least one) Residence : _____ Office : _____ Mobile : _____
Serial No. .... of the list of members published in the IAVP web-site at www.iavp.org (Please ignore this column if you do not have access to internet	Permanent address _____ _____ _____ PIN CODE: _____
Signature with date	Preference for affiliation for IAVP activities: ..... ..... State of North/East/South/West/Central Region

## From Editor's Desk

I was overwhelmed with responses received from different parts of the country appreciating the initiative and contents of the newsletter. I profusely thank each and every one of you for your support and encouragement. The Newsletter has sections for association news, technical news and important circulars, accomplishments of our members, etc. I invite members to contribute interesting and unique case reports, breakthroughs in pathology, topical issues, application of cutting edge technologies in pathology and any other matter that enhances the skill of pathologists. The contribution should not exceed 250 words with one or two good quality photographs/illustrations (editor\_iavpnewsletter@yahoo.in).

To meet the international standards, we have slightly changed the publication pattern of the journal, review process and author's guidelines. Contributors to our Journal (IJVP) are now requested to submit new articles according to revised author's guidelines published in June, 2009 issue of the journal (also available at our website: www.iavp.org). The June, 2010 issue will be published according to new guidelines.

Looking forward to your very active support and cooperation in publishing the Newsletter, "The Lesion" and the Indian Journal of Veterinary Pathology.

Dr. B.N.Tripathi  
Chief Editor, IJVP & Editor, The Lesion