

# THE SYNAPSES

## ISVS NEWSLETTER



Editor: Deepak Kumar Tiwari

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### From the Desk of President

With ease in COVID-19 situation, fellow surgeons of ISVS family might have settled for routine surgical load and other clinical activities including teaching. Out of your busy schedule, I request ISVS members to invest some time for improving vibrancy of ISVS activities.

ISVS is a single cohesive unit since 1977 and other Veterinary professional societies emulate us. Let's sustain it and strengthen the camaraderie among members.

I am sure in days to come; professional activities of local chapters will expand to improve ISVS visibility.

All are requested to make our ISVS Newsletter 'The Synapses' lively and informative.

Stay safe & healthy!



**N.H. Kelawala**

### From Executive Secretary Pen

Dear All,

After successful conduct of 44<sup>th</sup> ISVS Conference at Pantnagar, there is considerable progress in preparation of ISVS Members' Directory with support of all. It is heartening to note that under the aegis of ISVS, Dr. Manjunath S. P. has conducted one-day Workshop on ESF Application for long bone fractures in collaboration with other organizations at Arsikere, Hassan, Karnataka.

I fervently request all members to plan small professional activities improving surgical skill-sets, strengthening surgical ecosystem of our country.

Stay safe and healthy!



technicalities,

**D. B. Patil**

### From the Editor

I express my sincere deepest gratitude to Dr. Ashok Kumar, Former Editor for his remarkable contribution to make this Newsletter alive. It is indeed a great honour to be the Editor of ISVS Newsletter "The Synapse" meaning Joining Together (in Greek). After a long period of quarantine and separation from beloved ones due to covid-19 pandemic, the year 2022 began on a strong note of rejuvenated efforts and successfully organized ISVS symposium at Pantnagar. The opportunities make us feel alive, engaged, connected and fulfilled. Remember, this newsletter is our voice and all the ISVS members are welcome to contribute. We are always happy to take contributions for our guest editorial/ feature and other sections.



**Deepak Kumar Tiwari**

## FEATURE

### Veterinary Cancer Registry – Need of the Hour

Veterinarians treat varieties of clinical conditions in day to day practice and cancer is one among the most important condition. As per the data available cancer is the first cause of deaths followed by cardiac ailments in dogs contrary to humans where highest mortality rate is due to cardiac diseases followed by cancer. Cancer conditions do occur in all species of animals similar to humans but goes unnoticed or may be reported as single case. Though number of cases are being treated by veterinarians, specific and detailed data are not available. Few reports are available on retrospective studies from academic institutions.



Major setbacks as far as cancer reporting is concerned there is lack of awareness among public, limited specialists, lack of advanced diagnostic imaging facilities like CT, MRI, PET Scan and lack of advanced histopathology laboratories.

Cancer registries provide data for epidemiological studies that allow us to determine incidence, development of prevention and control strategies, predicts prognosis and treatment outcomes. Information obtained influence development of personalized therapeutic protocols for cancer patients in a population. Also registries provide database allowing evaluation of trends in cancer fluctuations in occurrence and appraisal of potential environmental and individual risk factors. Majority of the animal registries were terminated due to lack of communication and mutual collaboration between different regional registries resulting in incomplete exploitation of clinical conditions. There is a need to develop computerized retrospective and prospective data base with standard classification.

Veterinary cancer registries are data collection points for confirmed veterinary cancer patients from all over the country. It's database designed to store specific information of cases of interest in a specified population. The purpose of the cancer registry is to help the researchers from different specialties and help veterinarians to understand the philosophy of cancer therapy based on information available in registries.

#### Veterinary Cancer Registries

- **Swiss canine cancer registry has data from 1955-2005** studied male female dog ratio regarding occurrence environmental effect, general distribution and risk factors.
- **Kansas university neoplasm registry records functioned between 1961-71** with inclusion criteria of benign and malignant tumours based histopathology diagnosis.

- **California animal neoplasm registry functioned between 1963-66** with inclusion criteria of malignant tumours based histopathology diagnosis.
- **Veterinary Cancer Society 1976** a non profit educational organization with more than 1000 specialists including medical surgical radiation oncologists internists, pathologists, pharmacologists, from around the world.
- **Tulsa registry of canine and feline neoplasms (USA) functioned between 1972-77** with inclusion criteria of benign and malignant tumours based histopathology diagnosis.
- **Perdue comparative oncology programme established in 1979** with inclusion criteria malignant tumours based histopathology diagnosis still collecting data
- **Cancer registry and surveillance system for companion animals (cornel) established in 1980** with inclusion criteria malignant tumours based histopathology diagnosis still collecting data
- **The animal tumour registry of Italy established in 1985** with inclusion criteria of malignant tumours based histopathology diagnosis
- **Norwegian Cancer Project (Norway) established in 1990** with inclusion criteria of benign and malignant tumours based histopathology diagnosis
- **Veterinary Cancer Registry (USA) established in 1994** with inclusion criteria of benign and malignant tumours based histopathology diagnosis.
- **Danish Veterinary Cancer Registry (Denmark) established in 2005** with inclusion criteria of benign and malignant tumours based on all diagnostic methods
- **Animal tumour registry of Venice and Vicenza** was established in 2005 based on histopathology findings
- **American Veterinary Medical Association established data base in 2014** creating veterinary cancer registry with data base access to animal owners and veterinarians.
- **Scotland Veterinary Cancer Registry established in 2018** collects data to validate risk factors trends in cancer incidence survival information, geographical distribution and incidence studies. The team is working to develop a stakeholder network to encourage updates of primary veterinary care providers.
- **Umbria canine cancer registry – Italy**
- **Texas veterinary cancer registry** support the pet owners oncologists and work on drug therapeutics clinical trials. The network started with veterinary oncologists working on drug therapies for dogs and Human.

## Methods of obtaining information

- From academic institutions, Hospitals
- State/ Central Government Departments
- Research Organizations
- Field visits
- Paper presentations at different conference conferences
- Publications in standard journals
- Annual reports
- Information from private practitioners
- By creating awareness among pet owners, general public researchers through social media
- News letters, pamphlets
- Post mortem reports

## Objectives of establishing Cancer Registry

- To generate scientific and reliable data on incidence magnitude and patterns of cancer on the basis of morbidity and mortality rates in different species of animals .
- To collect epidemiological data from case control and cohort studies from different sources.
- To record the risk factors for specific cancers like age, breed, gender, mental status, environmental influence, to predict the outcome of cancer.
- To plan, monitor, evaluate activities and determine strategies.
- To analyze, compile and consolidate the data from different sources.
- To form base for policy making, to study quality of life, economics of diagnosis, treatment and post operative management.
- To provide base for comparative oncology with human patients.
- To study the dynamics of cancer patterns and its correlation with clinical presentation.

## Different Types of Cancer Registries

### • Population Based Cancer Registries

This registry collects data on all cases of cancer occurring in a well defined population. Main drawback for this type of registry is to identify the size of the population at risk.

### • Hospital Based Cancer Registries

It provides source of cases for case control and epidemiological studies from different hospitals particularly to study the carcinogenic effects.

### • Pathology Based Cancer Registries

Obtain information from electronic pathology records regarding diagnosis , location of lesion, tumour classification in a step wise method.

## Limitations

- Population based registries found the difficulties of identifying size of population
- Financial constraints
- Limited duration and existence
- Differences in inclusion/ exclusion criteria
- Universal adoption of classification

- Improper/ in correct/ incomplete record and submission of data
- Irregularities in data analysis
- Lack of advanced diagnostic facilities/ expertise at all places
- Short duration follow up of cancer patients
- Marked variation in types, breeds, occurrence of neoplasms between different places and countries

## Requirement to Establish Registry

### Non Recurring Costs

- Office, furniture
- Equipment (Computers, Printers, Internet connection)

### Recurring Costs

- Salaries
- Recruiting registry staff (part time/full time)
- Working contingencies
- Travel expenses for data collection
- Maintenance (including postage, internet charges)
- Consumables
- Report publication
- Maintenance of web site

### Trainings/ Workshops

- For different doctors/ faculty/ researchers/ statisticians/ scientists/ enumerators etc.

National cancer registry programme was started in 1981 (human) by **INDIAN COUNCIL OF MEDICAL RESEARCH** and started data collection from Jan 1982. Initially started with **population based registries** at Bangalore, Chennai, and Mumbai followed by Delhi and Bhopal. **Hospital based registries** were started at Chandigarh Dibrugarh, and Trivendrum. Followed by Bangalore Chennai and Mumbai in 1984. All the registries followed International classification of Disease for oncology (ICD-O) as per WHO with short and long term goals.

It's the time to establish veterinary cancer registry in our country with second largest human population and sufficiently sizable small animal population too. Cancer registries are not only useful to animals but also for useful for human oncology. A holistic approach on veterinary cancer Registry on similar lines to Human Cancer Registries if the need of the hour under one health concept. Being the member of ISVS, I urge the fellow members to take up the Veterinary Cancer Registry concept among other veterinary/ scientists/ academic/ pet owners groups for fruitful result.

**Dr. R.V. SURESH KUMAR**

*Professor and University Head*

Department of Veterinary Surgery and Radiology

College of Veterinary Science

Sri Venkateswara Veterinary University

**TIRUPATI – 517 502 (AP)**

## **AWARDS/ HONOURS/ RECOGNITIONS**

**Dr. K K Sarma, Professor and Head, Guwahati felicitated during Azadi Ki Amrita Mahotsav, New Delhi**

Dr. K K Sarma, Professor and Head, Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, AAU, Guwahati felicitated by Union Ministers Sri Purusottam Rupala, Dr. Balyan etc at National Academy of Agricultural Science Auditorium on Azadi Ki Amrita Mahotsav, New Delhi.



**Dr. K K Sarma, Professor and Head, Guwahati received Certificate of Honour on the occasion of World Environment Day**

Dr. K K Sarma, Professor and Head, Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, AAU, Guwahati received **GREEN AMBASSADOR Certificate of Honour** for his dedicated contribution in the conservation and Care of Wildlife and Ecological Restoration by Centre for the Environment, Indian Institute of Technology, Guwahati during World Environment Day 05.06.2022.



**Dr. Shailendra Kumar Tiwari honoured as Executive Member of National Academy of Veterinary Sciences (NAVS)**

Dr. Shailendra Kumar Tiwari, Dean, College of Veterinary Science & A.H., Anjora, Durg (CG) and Professor and Head, Department of Veterinary Surgery and Radiology has been honoured as Executive Member of National Academy of Veterinary Sciences (NAVS) during the National Symposium held at Nagpur Veterinary College, MAFSU, Nagpur (Maharashtra) from 20-21 June 2022.



**Dr. Subhash Gharu, Veterinary Surgeon, Animal Husbandry Department, Government of Rajasthan, awarded by District Administration**

Dr. Subhash Gharu, Veterinary Officer, State Animal Husbandry Department, Government of Rajasthan was awarded by the District Administration of Bikaner on Republic Day-2022 for his dedicated work in forming 103 Rajasthan Veterinary Relief Societies in Bikaner District.



**Dr. Ruchi Patwa received the Overall Best Oral Presentation Award for the Orthopaedic Clinical work in the Clinical Case Conference organized at CVAS, Bikaner (RAJUVAS)**

Dr. Ruchi Patwa, PhD scholar-cum-Teaching Associate, Department of Veterinary Surgery and Radiology, CVAS, Bikaner (RAJUVAS), Rajasthan received the overall Best Oral Presentation Award for her orthopaedic clinical work "Surgical Management of Distal Humerus fracture with Hybrid External Skeletal Fixation and Pinning in a Dog" presented during the Clinical Case Conference-2021 on "Clinical Approaches on Health Management of Farm, Pet, and Wild Animals" jointly organized by Directorate of Clinics and Department of Clinical Veterinary Medicine, Ethics, and Jurisprudence, CVAS, Bikaner (RAJUVAS), Rajasthan on 13<sup>th</sup> December, 2021.



**Dr. Sachin S. Vende, Veterinary Surgeon, received Best Veterinarian Award by Maharashtra Animal Husbandry Department**

Dr. Sachin S. Vende working as Livestock Development Officer, Maharashtra Animal Husbandry Department at District Veterinary Polyclinic Nashik and also working as Secretary of ISVS Nashik Chapter received the Best Veterinarian Award (गुणवंत पशुवैद्यक पुरस्कार) of year 2017-18. The award was given by the hands of Animal Husbandry Minister Mr. Sunil Kedar, in presence of Hon'ble Commissioner Animal Husbandry, Maharashtra and Additional Commissioner AH on 20.05.2022 during 'Animal Husbandry Day-2022' at Pune, Maharashtra. Dr. Sachin joined as a Livestock Development Officer in 2007 and in the span of 14 years of service he did many types of soft tissue and orthopaedic surgeries in bovines, equines, caprines, canines, felines, reptiles and wild animals. He also bagged other prestigious awards viz., Best Livestock Development Officer by Animal Husbandry (2011-2012); Best Livestock Development Officer by Zilla Parishad, Nashik (2015-16) and Best Veterinarian Award by Krushithon, Nashik (2016-17).

**Dr. Dishant Saini, M.V.Sc.,** Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS), Hisar currently pursuing PhD from Mumbai Veterinary College, MAFSU, Mumbai was awarded Best Presentation Award for research paper entitled, "Antibacterial and biofilm inhibition effect of silver versus latex coated foley's catheter for management of obstructive urolithiasis in male buffalo calves" authored by Drs. Dishant Saini, Deepak Kumar Tiwari, Rajesh Chabra, Saurabh Jyoti Talukdar, Neeraj Arora, Deepak Kaushik and Gaurav Kumar. The poster was presented during the 34<sup>th</sup> Annual Convention of Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases and National Conference on "Current trends in immunodiagnostics & Vaccinology for Health of Livestock & Poultry" at LUVAS, Hisar from 27-28 May, 2022.



**Dr. Manjunath SP**, Senior Veterinary Officer, Nonavinakere, Tiptur Tq, Tumkur district, Karnataka honored by Karnataka State government with District level Sarvothama Seva award 2022.



**Dr. Manjunath SP**, Senior Veterinary Officer, Nonavinakere, Tiptur tq, Tumkur district, Karnataka honored by Indian Veterinary Association as Best Veterinarian Award - Karnataka – 2022 on the occasion of World Veterinary Day



**Dr. Deepu Philip Mathew**, Senior Veterinary Surgeon, Animal Husbandry Department, Kerala honored by Indian Veterinary Association as Best Veterinarian Award - Kerala – 2022 on the occasion of World Veterinary Day



**Dr. K Mohammed**, Senior Veterinary Officer, Veterinary Hospital, Junglighat, Department of AH & VS, Andaman and Nicobar honored by Indian Veterinary Association as Best Veterinarian Award – A&N – 2022 on the occasion of World Veterinary Day



**Dr. Dayamon D. Mathew**, Assistant Professor, Institute of Agricultural Sciences, Banaras Hindu University, Uttar Pradesh honored by Indian Veterinary Association with Special Appreciation Award on the occasion of World Veterinary Day.

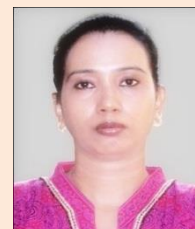


**Dr. Aditi Sharma**, Senior Veterinary Officer, Uttarkhand honored by Indian Veterinary Association as Best Wildlife Veterinarian – 2022 on the occasion of World Veterinary Day.



**Dr. Aditi Sharma**, Senior Veterinary Officer, Uttarkhand honored by National Academy of Veterinary Sciences with Dr. Vallabh Mandokhot Memorial Award -2021.

**Dr. Rukmani Dewangan**, Assistant Professor, Department of Veterinary Surgery and Radiology, College of Veterinary Science & A.H. Anjora, Durg (CG), conferred with Best Women Scientist of the year 2022 in the field of Veterinary Surgery.



### **APPOINTMENTS/PROMOTIONS**

**Prof. (Dr.) A.K. Gangwar** joined as Dean, College of Fisheries, Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya on 06.05.2022. He completed his B.V.Sc. & A.H. from Mathura Veterinary College in 2000, M.V.Sc. (JRF) and Ph.D. from Indian Veterinary Research Institute, Izatnagar in 2002 and 2012, respectively. Dr. Gangwar started his career in the present University as Assistant Professor, selected as Associate Professor in the year 2012 and promoted to Professor in 2015. Later, worked on various positions such as Registrar, Deputy Director Research, Chief Hostel Warden, Member of the Selection Committee and presently serving as Professor and Head, Department of Veterinary Surgery and Radiology and as Dean, College of Fisheries. As a Registrar, he conducted a state level entrance exam (UPCATET-2019) successfully for admission in different UG, PG and PhD courses running in all four agriculture Universities of the Uttar Pradesh. The then Honorable Vice chancellor Prof. J.S. Sandhu honoured him by presenting an appreciation certificate. He guided 08 M.V.Sc. students and 04 Ph.D. students are working under his guidance. He published 24 research papers in reputed international journals, 72 research papers in the national journals, 06 books (4 national and two international) and 09 book chapters (02 national and 07 international). He is also serving as member of IAEC and member of Academic council of the university.



**Dr. Ram Najar Chaudhary** joined as Professor and Head, Department of Veterinary Surgery and Radiology, College of Veterinary Sciences, Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar (Haryana) on 01<sup>st</sup> January 2022. He is also working as University Librarian, LUVAS, Hisar (Haryana).



**Dr. Dharmendra Kumar** promoted as Associate Professor, Department of Veterinary Surgery and Radiology, College of Veterinary Science and A.H., Rewa (M.P.) under CAS from May 2021.



**Dr. Pawan Diwan Singh Raghuvanshi** joined as Associate Professor, Department of Veterinary Surgery and Radiology, College of Veterinary Science and A.H., Rewa (M.P.) by direct selection on 11<sup>th</sup> January 2022.



**Dr. Apoorva Mishra** joined as Assistant Professor, Department of Veterinary Surgery and Radiology, College of Veterinary Science and A.H., NDVSU, Jabalpur on 3<sup>rd</sup> January 2022.



**Dr. Babita Das**, joined as Associate Professor, Department of Veterinary Surgery and Radiology, College of Veterinary Science & A.H. Mhow (M.P.) on 5<sup>th</sup> April 2022 and presently attached in the College of Veterinary Science and A.H., NDVSU Jabalpur.



**Dr. Gaurav Kumar** joined as Assistant Professor, Department of Veterinary Surgery and Radiology, College of Veterinary Science (GADVASU), Rampura Phul on March 16, 2022.



### **UPCOMING EVENT**

The 45<sup>th</sup> Annual Congress of Indian Society for Veterinary Surgery and National Symposium going to be organized by the Department of Veterinary and Radiology, Nagpur Veterinary College, Maharashtra Animal and Fishery Science University, Nagpur (Maharashtra) during January, 2023. The theme and dates of the symposium will be finalized in due course of time.



### **SYMPOSIUM/ CONFERENCE**

The Department of Veterinary Surgery and Radiology, College of Veterinary and Animal Sciences, GB Pant University of Agriculture and Technology, Pantnagar has successfully organized 44th Annual Congress of Indian Society for Veterinary Surgery and National Symposium on “Recent Trends in Surgical and Imaging Techniques for Enhancement of Productivity and Health Status of Farm and Pet Animals” from February 24-26, 2022.

The inaugural function was organized in the Ratan Singh Auditorium, CVASc on February 24, 2022 at 10:00 AM. Dr. B.N. Tripathi, Deputy Director General (Animal Sciences), ICAR, New Delhi was the Chief Guest and Dr. Prem Kumar, Director, Department of Animal Husbandry, Uttarakhand was Guest of Honour for the function. Among other dignitaries on the dias were Dr. A.K. Shukla, Hon’ble Vice-chancellor and Registrar, GBPUAT, Pantnagar, Dr. Simrat Sagar Singh, President ISVS, Dr. Deepak B. Patil, Executive Secretary ISVS, Dr. N.S. Jadon, Organizing Secretary-cum-Dean. The inaugural ceremony was also graced by the graceful presence of Dr. N.H. Kelawala, Vice-Chancellor, Kamdhenu University, Gandhinagar, Dr. A.P. Singh, Former Vice-Chancellor, DUVASU, Mathura, Dr. P.E. Kulkarni, Former Dean, Akola, Dr. J.M. Nigam, Former Dean, CSKHPAU, Palampur, Dr. Amresh Kumar, Former Dean, GBPUAT, Pantnagar, Dr. Gajraj Singh, Former Dean, Aizwal, Mizoram, Dr. V.D. Aher, Associate Dean, PGIVAS, Akola, Head of the Departments, faculty members, field veterinarians, private practitioners and students.

The President ISVS bestowed Fellowship of Indian Society for Veterinary Surgery to Dr. Vilas Daulatrao Aher (Shirwal), Dr. Dinesh Uddhavrao Lokhande (Mumbai), Dr. Milind Gonduji Thorat (Akola) and Dr. Som Prakash Tyagi (Palampur) for their significant contribution in the field of

Veterinary Surgery and Radiology. Dr. I.S. Chandna Memorial Award for overall contribution in the field of Veterinary Surgery and Radiology was awarded to Dr. Ashok Kumar, Former Professor and Head, Department of Veterinary Surgery and Radiology, COVS, LUVAS, Hisar. Dr. P.E. Kulkarni Oration Award was awarded to Dr. Mohan Ramchandra Wani, Tata Innovation Fellow, National Centre for Cell Science, S.P. Pune University Campus, Pune.

The Gold Medals and Appreciation Certificates were presented by the Chief Guest and President ISVS to the best papers presented during 43rd Annual Congress of ISVS and National Symposium at Hisar (Haryana). The faculty members served the department were also honoured on this occasion.

The Annual Congress and National Symposium was attended by 250 delegates including academicians, researchers, field veterinarians, pharmaceutical organizations, NGO's and students.

The theme lecture was delivered by Dr. Shriniwas V. Vishwasrao, Ex-Officer In-charge, Bombay Veterinary College, Goregaon East, Mumbai on "Artificial Intelligence, Veterinary Surgery and NEP 2020 are we aligned?". There were twelve technical sessions' viz., anaesthesiology, ruminant surgery, small animal surgery, equine surgery, radiology and imaging, orthopaedic surgery, ophthalmology, wild and zoo animal surgery, avian surgery, large animal poster, small animal poster and award session. The award session includes Young Surgeon Award, MR Patel Best Field Veterinarian Award and Best Clinician Award. Eighteen lead papers were invited from the eminent surgeons and presented in different sessions.

The General Body of ISVS was held on 26.02.2022 at the College of Veterinary and Animal Sciences, GBPUAT, Pantnagar. The report of Executive committee meeting held on 25.02.2022 was presented by Dr. D.B. Patil, Executive Secretary. The general body approved the proceedings of the 43rd Annual Congress of ISVS and National Symposium held at College of Veterinary Sciences, LUVAS, Hisar (Haryana). The general body also approved the accounts presented by Dr. Deepak Kumar Tiwari (Treasurer, ISVS). The 45th Annual Congress of ISVS for the year 2022 will be held at MAFSU, Nagpur (Maharashtra). The awards for various technical sessions were announced which will be bestowed upon the recipients during 45th Annual Congress of ISVS at Nagpur (Maharashtra).

Respected Dr. P.E. Kulkarni presided over the session for election of new office bearers of ISVS and following office bearers were elected:

### **New Executive Committee (2021-23)**

President:	Dr. H.H. Kelawala
Vice-Presidents:	Dr. N.S. Jadon Dr. S.B. Akhare Dr. Apra Shahi Dr. S. Senthil Kumar Dr. Manjunath S.P.
Executive Secretary:	Dr. D.B. Patil
Joint Secretary:	Dr. Adarsh Kumar
Treasurer:	Dr. Deepak Kumar Tiwari
Zonal Secretaries:	Dr. Neeraj Arora (North) Dr. S. Sooryadas (South) Dr. Shobha Jawre (Central) Dr. Ramesh Tiwary (East) Dr. Anil Kumar Bishnoi (West)
Chief Editor:	Dr. Amarpal
Editor:	Dr. Hari Prasad Aithal
Associate Editor:	Dr. Abhishek C. Saxena





## **WORKSHOPS / SEMINARS / TRAININGS**

### **Hands-on training on 'Advances in Small Animal Fracture Fixation' organised for Lady Vets at TEC-IVRI, Pune (Maharashtra)**

The Training and Education Centre, Indian Veterinary Research Institute, Pune has organised a five-day hands-on training on 'Advances in Small Animal Fracture Fixation' from 21st to 25th March 2022, in collaboration with the Department of Animal Husbandry, Aundh, Pune (Maharashtra). Sixteen practicing lady veterinary graduates and post-graduates from different states viz., Maharashtra, Karnataka, Kerala, Assam and Goa participated.

The Chief Guest of the inaugural function was Dr Santosh Panchpor, Joint Commissioner of Animal Husbandry, Maharashtra. He spoke on the need for specialised training programme on orthopaedic surgery for empowering practising lady vets. Dr KN Bhilegaonkar welcomed the guests and participants of the training programme, and briefed about the objectives of the special training course dedicated to lady vets, and the importance of Gender Advancement for Transforming Institutions. Dr HP Aithal, Course Coordinator, briefed about the contents and the conduction of the course, and proposed vote of thanks.

The training included lectures, demonstrations and hands-on practices on different external, internal and external skeletal fixation techniques such as application of modified Thomas splint, different techniques of IM pin fixation, interlocking nailing, bone plating and external skeletal fixation techniques. Lectures also included basic structure and development of bone, fracture healing, orthopaedic instruments and joint luxations. The expert faculty included Dr HP Aithal, Principal Scientist from TEC Pune, Dr RV Suryawanshi and Dr Satyawan Agivale, Assistant Professors from College of Veterinary Sciences, Shirwal, Satara. Online lectures were also arranged on osteosynthesis by interlocking nails in dogs by Dr Aswathy Gopinathan (Senior Scientist, Division of Surgery, IVRI, Izatnagar), bone and tendon tissue engineering by Dr Rekha Pathak (Principal Scientist, Division of Surgery, IVRI, Izatnagar), and on orthotics and prosthetics in veterinary rehabilitation by Dr Surbhi K Tyagi, Assistant Professor from the Department of Veterinary Surgery & Radiology, COVAS, SVPUAT-Meerut. All the participants were very enthusiastic, took keen interest and actively participated in the hands-on training.

During the valedictory function held on 25th March 2022, Dr VD Aher, Associate Dean, KNP College of Veterinary Sciences was the Chief Guest and Dr Sameer Borkar, Principal, State Level Training Centre, Department of Animal Husbandry was the Guest of honour. Dr Borkar appreciated the efforts to organise orthopaedic training exclusively for lady vets. While expressing their views, the trainees thanked TEC IVRI Pune and Department of Animal Husbandry Maharashtra State for providing an opportunity to learn advanced fracture fixation techniques and expressed the confidence to treat fracture cases. Dr VD Aher, Chief Guest distributed certificates to the participants, and hoped that the knowledge and confidence gained by the trainees would help to treat day to day fracture cases.



*Demonstration on fracture fixation techniques*



*Participants ready for hands-on training*



**Hands-on Training on "Advances in Small Animal Fracture Fixation"  
(21st to 25th March 2022)**

**Sitting:** (L-R) Dr SK Das (PS, IVRI), Dr Kiren Bhilegaonkar (In charge TEC & PS), Dr Santosh S Panchpor (Regional Joint Commissioner, AH, Pune), Dr HP Aithal (PS, IVRI)  
**Standing:** 1st Row (L-R) Dr. Amod K Bhaleroo (Scientist, IVRI, Pune), Dr RV Suryawanshi (AP, KNPVS), Dr Shiroddha Ghoshale, Dr Souhaj Jagokumar Sindhu, Dr Kiren Radhakrishnan, Dr Harshilika K, Dr Gihanga Boleera, Dr Vineta Borung, Dr Rutuja Laxman Sawant, Dr Anjali Gokhale, Dr Snehal Pandharpur  
2nd Row (L-R) Dr Romi Roy John, Dr Romas, M N, Dr Shantishree Das, Dr Anjali C J., Dr Chantitha Bonmalire, Dr Saintra Waske, Dr Alisho Desai, Dr Sanghratna V Bahlire (Scientist, IVRI), Dr. Amogh Thearkar (LDO, DVP, Pune)

## **Hands-on training program on "Techniques of fracture fixation" organized at KNPCVS, Shirwal Dist. Satara in collaboration with ICAR- TEC, IVRI, Pune and Pet Doctor Association of Pune**

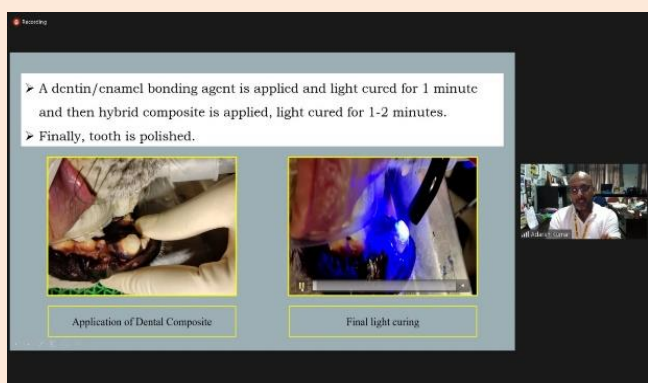
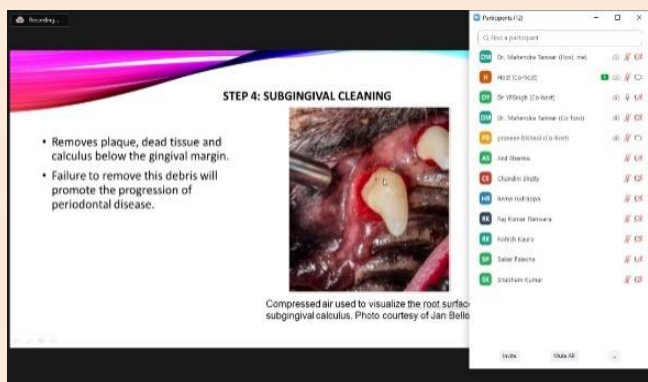
Two days hands-on training program on, "Techniques of Fracture Fixation" organized at Krantisinh Nana Patil College of Veterinary Science, Shirwal (MAFSU, Nagpur) during 5<sup>th</sup> - 6<sup>th</sup> February, 2022 in collaboration with ICAR-Training and Education Centre-Indian Veterinary Research Institute, Shivaji Nagar, Pune, & Pet Doctor Association of Pune. The training program was inaugurated with the auspicious hands of Prof. Dr. Vilas Aher, Associate Dean of the institute. Chief guest Dr. Hari Prasad Aithal, Principal Scientist, ICAR-TEC, IVRI, Pune and Vice-President of Pet Doctors Association of Pune Dr. Ramnath Dhage were present for the function. Total 35 private pet practitioners and veterinarians from all over the state of Maharashtra participated in the training program. Prof. Dr. Aher intricated the importance of organization of trainings on new advanced Techniques in Fracture Fixation to veterinarians and further assured that this institute will always extend the helping hand for enrichment of knowledge for practical implications in various surgical and orthopedic procedures for veterinarians. During the training program the practical demonstrations were carried out on four clinical cases of dogs as well as the hands-on practice was performed on cadaver for various orthopedic techniques. The experts delivered the lectures and hands on practice to the trainees on various orthopedic techniques in depth during the training program. During valedictory function the participants expressed their satisfaction on the two days hands on training organization by the institute and opined that organization of such training program at the institute will build the confidence of the pet practitioners. Further, they opined that the even organization of such training programs will pave the bridge between the pet practitioners and scientists of the institute for advanced learning in various surgical techniques. Prof. Dr. Vilas Aher, Associate Dean of the institute, Dr. Hari Prasad Aithal, Principal Scientist, ICAR-TEC, IVRI, Shivajinagar, Pune, Dr. Wankhede and Dr. Kalapure of the Pet Doctors Association, Pune were present for the valedictory function of training program. To organize this function Dr. Vilas Aher, Professor and University Head, Department of Veterinary Surgery & Radiology took lead and Dr. R.V. Suryawanshi, Hospital Registrar, Veterinary Clinical Complex, Dr. S.M. Agivale and Dr. Shalaka Chouhan, Assistant Professors supported him for successful organization and conduct of this training program.



## **Conduction of Add-on Certificate course on 'Pet Animal Dentistry' under AINP-DIMSCA (ICAR) for Veterinary students and Practitioners**

Department of Veterinary Surgery and Radiology, CVAS, RAJUVAS, Bikaner, Rajasthan conducted a Pet Dentistry Add-on Certificate course for Veterinary students and practitioners of India. The course was aimed to make the participants familiar with the equipments, instrumentation and the various procedures used in pet animal dentistry. The certificate course was paid in which total 17 participants from different states of the country participated. The training mode was hybrid in which theory lectures were delivered online from March-May, 2022, while the practical hands-on training will be delivered at the institute in July,

2022. The lectures were delivered by the eminent Veterinary Surgery experts from the 9 different Veterinary Universities of India (GADVASU, MAFSU, SVVU, KU, LUVAS, CSKHPKV, DUVASU, RAJUVAS and IVRI). The important topics of the Certificate course included: endodontic diseases, RCT, oral trauma, cosmetic oral surgery, tooth extraction, dental scaling, and periodontal diseases. The course was conducted under AINP-DIMSCA (ICAR).



**Organization of Diagnostic Imaging Training under AINP-DIMSCA (ICAR) for Animal Husbandry Veterinary Officers by Department of Veterinary Surgery and Radiology, CVAS, RAJUVAS, Bikaner**

A 3-day training on “Diagnostic Imaging- Basics and Applications of Radiography and Ultrasonography in clinical cases” was organized by Department of Veterinary Surgery and Radiology, CVAS, Bikaner (RAJUVAS), Rajasthan. This Three-day training period was from 21st to 23rd March-2022 and it was kept for the Veterinary Officers of

the Rajasthan State Animal Husbandry Department. The training was organized under the flagship of All India Network Programme on Diagnostic Imaging and Management of Surgical Conditions in Animals (AINP-DIMSCA) of ICAR. Total 20 Veterinary- and Senior-Veterinary Officers participated in the training. The important topics of training included: Basic principles of ultrasonography (USG) and Introduction to Digital radiography; abdominal USG; interpretation of radiographic images of thorax, abdomen, axial and appendicular skeleton; and radiographic interpretation of various affections in large animals.



**Organization of 3-days training on “Introduction to Anaesthesia in Field Conditions” for Field Veterinarians of Rajasthan under AINP-DIMSCA (ICAR)**

Department of Veterinary Surgery and Radiology, CVAS, Bikaner (RAJUVAS), Rajasthan organized a 3-day training programme from 24-26 March, 2022, for Veterinary Officers of the Rajasthan State Animal Husbandry Department. The training was kept on “Introduction to Anaesthesia in Field Conditions” which included the topics: use of preanaesthetics; pain management in animals; various considerations in use of general anaesthesia; various regional and general anaesthetic techniques; anaesthetic management in equines; and fluid therapy in surgical patients. Total 20 Veterinary- and Senior-Veterinary Officers participated in the training and the training was organized under the aegis of AINP-DIMSCA (ICAR).



**Motivational talk on ‘Strengthening Veterinary Resilience’ for Veterinary students and faculty by Prof. Dr. Adarsh Kumar**

Dr. Adarsh Kumar, Professor Veterinary Surgery and Radiology, College of Veterinary Science (CSKHPKV), Palampur delivered a motivational talk related to ‘Strengthening Veterinary Resilience’ to the Veterinary students and faculty members at CVAS, Bikaner (RAJUVAS). This talk was delivered by Dr. Kumar during his visit to RAJUVAS, Bikaner for post-graduate examination.



**Cattle Ophthalmic Surgery Camp organized at Sh. PannaLal Gaushala, Jodhpur by Department of Veterinary Surgery and Radiology, CVAS, RAJUVAS, Bikaner, Rajasthan**

Department of Veterinary Surgery and Radiology, CVAS, RAJUVAS, Bikaner organized a 2-days cattle ophthalmic surgery camp at Sh. Pannalal Gaushala, Jodhpur, Rajasthan in February-2022. After a detailed ophthalmic examination like Schirmer tear test, Fluorescein dye test, direct ophthalmoscopy along with gross examination, a total of 7 cattle were selected and operated for various types of dermoids, uveitis, with lens luxation and cataract during the camp. Dr. S.K. Jhirwal, Assistant Professor, with the team of post-graduate students performed all ophthalmic diagnostic and surgical procedures. For corneal dermoids surgery, superficial keratectomy was performed and for cataract surgery, the lens was extracted by ECCE method under operating microscope with Xylazine sedation and retrobulbar nerve block. Temporary tarsorrhaphy was performed in all the surgical cases. The facilities required for ophthalmic surgery like operating microscope and other medicines were provided by Parmarth Relief Society, Jodhpur.



**Organization of One-day workshop on “Application of circular fixator for long bone fracture in large ruminants” for field Veterinarians at Kasturabha Goshala, Arasikere, District Hassan (Karnataka)**

One-day workshop on “Application of circular fixator for long bone fracture in large ruminants” was organized at Kasturabha Goshala, Arasikere, District Hassan (Karnataka) on 16.06.2022 under the aegis of Indian Society of Veterinary Surgery and Karnataka Veterinary Foundation in collaboration with ICAR-IVRI, Pune, (Maharashtra). Dr. Hari Prasad Aithal, Principal Scientist, Training and Education Center, ICAR-IVRI, Pune (Maharashtra) was the Course Co-ordinator and extended his expertise technical services during the workshop. Dr. Manjunath, S.P, Vice President, ISVS-cum-Senior Veterinary Officer, Veterinary Hospital, Nonavinakere was the Organizing Secretary and Dr. Pramodh J.K, Dr. Nikhith, M.S. and Dr. Vishwanatha, B. were the co organizers for the workshop. It was attended by 30 participants viz., 25 field Veterinarians, two faculty members and three post graduate students from Veterinary College, Hassan. The funds were organized by their own at the local level. On 14.06.2022, a lecture was delivered to all the participants by Dr. Hari Prasad Aithal through online mode (Google meet) discussing basics of fracture management, techniques of circular fixator, external cooptation techniques, different external fixation techniques like epoxy ESF etc. in large animals. On 16-06-2022, inaugural function was presided by Dr. Basavaraj Balappanavar, Associate Professor and Head, Department of Veterinary Surgery and Radiology, Veterinary College, Hassan. Mr. Mohan, Manager, Kasturabha Goshala was the Guest of Honour for the programme. During the workshop, demonstration of different external co potation techniques was performed. Fiber cast was applied for proximal radius fracture in a calf. Then demonstration of application of circular fixator for a bull weighing 250 kg with compound metatarsal fracture of right hind limb was performed. Surgery

was performed under general anaesthesia using butarphanol, xylazine and ketamine. Animal started bearing weight immediately after the surgery. Epoxy ESF technique was also demonstrated on a calf with compound metatarsal fracture. Participants were allowed to do the technique by themselves. Workshop was concluded with a valedictory function in the evening. Contact details for procurement of different instruments needed for circular fixator application were also given to all the participants.



## VISITS

**Dr. B.N. Tripathi, Deputy Director General (Animal Sciences), ICAR, New Delhi visited the Super Speciality Block of Department of Veterinary Surgery and Radiology, CVAS, RAJUVAS, Bikaner, Rajasthan**

ICAR DDG (Animal Science) Dr. B.N. Tripathi made a formal visit of RAJUVAS, Rajasthan on 28.05.2022, after the University got ICAR accreditation for the period of 5 years. During his visit, Dr. Tripathi along with the Directors of three ICAR institutes- NRCE, NRCC, and CSWRI observed the various diagnostic and surgical superspeciality facilities provided by the Department of Veterinary Surgery and Radiology, CVAS, Bikaner (RAJUVAS). He visited and discussed about the various components developed in the superspeciality block of Department which included CT scan, Orthopaedics, Ophthalmology, Laparoscopy, and Dentistry. During his Department visit, he also discussed the progress of ICAR funded AINP-DIMSCA project with the Principal Investigator Dr. Praveen Bishnoi and other faculty members.



**Founder and Chief Patron of the World's largest Gaushala 'Pathmeda Gaushala' visited the large animal clinical facilities of Department of Veterinary Surgery and Radiology, CVAS, Bikaner (RAJUVAS), Rajasthan**

The Founder and Patron of Godham Pathmeda, Gau Rishi Swami Shree Datshrnanand Jee Maharaj with the Vice-Chancellor of RAJUVAS Proff. Dr. S.K. Garg visited the various Large Animal clinical

facilities of CVAS, Bikaner (RAJUVAS). He saw and learned about the various diagnostic and surgical facilities of the clinics of Department of Veterinary Surgery and Radiology. He showed keen interest in the establishment of Radiographic diagnostic facility, large animal ophthalmology unit, and set up of large animal sling machines at Godham with the technical aid of RAJUVAS. He also assured a donation of worth 30 lac rupees from Gau conservators for the further expansion of large animal diagnostic and surgical facilities at CVAS, Bikaner. Pathmeda Godham Mahatirth is situated in Sanchore district of Rajasthan and is the largest cowshed of the World. It is spread over 200 acres area, takes care of more than one lac cattle and was started in 1993 with 8 mother cows.

**Dr. Randhir Singh**, honoured as Member of VCI team for inspecting the general facilities at College of Veterinary Science and Animal Husbandry, Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Anjora, Durg, Chhattisgarh during 21-23 September 2021.



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